

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061219\
 Data File : VF062920.D
 Acq On : 12 Jun 2019 10:59
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 6/13/2019 11:32:50 AM

Quant Time: Jun 13 08:42:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	829773	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.77	114	1355197	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.90	117	1086679	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.60	152	523382	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	308139	53.70	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	107.40%	
35) Dibromofluoromethane	4.30	113	562828	54.96	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	109.92%	
50) Toluene-d8	7.70	98	1432735	55.33	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	110.66%	
62) 4-Bromofluorobenzene	11.49	95	498019	53.46	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	106.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.00	85	431043	45.525	ug/l	95
3) Chloromethane	1.13	50	350605	40.836	ug/l	96
4) Vinyl Chloride	1.19	62	369366	43.292	ug/l	100
5) Bromomethane	1.39	94	234025	48.096	ug/l	95
6) Chloroethane	1.44	64	131401	41.192	ug/l	88
7) Trichlorofluoromethane	1.55	101	628871	52.066	ug/l	95
8) Diethyl Ether	1.71	74	127822	53.789	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.91	101	365608	48.146	ug/l	95
10) Methyl Iodide	1.98	142	734685	48.252	ug/l #	97
11) Tert butyl alcohol	2.70	59	93195	268.111	ug/l	95
12) 1,1-Dichloroethene	1.87	96	328098	47.582	ug/l	95
13) Acrolein	2.10	56	38472	277.966	ug/l	99
14) Allyl chloride	2.20	41	323418m	60.458	ug/l	
15) Acrylonitrile	3.08	53	231896	177.544	ug/l #	93
16) Acetone	2.34	43	384070	292.450	ug/l	97
17) Carbon Disulfide	1.92	76	933775	46.333	ug/l	98
18) Methyl Acetate	2.46	43	111503	48.586	ug/l	96
19) Methyl tert-butyl Ether	2.55	73	626938	50.184	ug/l	99
20) Methylene Chloride	2.29	84	318054m	48.259	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	321562	46.511	ug/l	97
22) Diisopropyl ether	2.93	45	729167	47.977	ug/l	96
23) Vinyl Acetate	3.34	43	2507045	240.949	ug/l	100
24) 1,1-Dichloroethane	3.01	63	526869	46.430	ug/l	96
25) 2-Butanone	4.52	43	706655	231.058	ug/l	98
26) 2,2-Dichloropropane	3.78	77	383346	59.496	ug/l	100
27) cis-1,2-Dichloroethene	3.64	96	581304	50.019	ug/l	98
28) Bromochloromethane	3.90	49	289455	46.894	ug/l	97
29) Tetrahydrofuran	4.26	42	287942	246.161	ug/l	95
30) Chloroform	4.05	83	790224	49.411	ug/l	98
31) Cyclohexane	3.88	56	672315	43.761	ug/l	97
32) 1,1,1-Trichloroethane	4.29	97	540423	58.037	ug/l	98
36) 1,1-Dichloropropene	4.47	75	621138	49.787	ug/l	99
37) Ethyl Acetate	4.29	43	240631	50.457	ug/l #	73
38) Carbon Tetrachloride	4.18	117	502827	59.636	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	748460	48.203	ug/l	96
40) Benzene	4.82	78	1758163	48.422	ug/l	98
41) Methacrylonitrile	4.92	41	141627	53.419	ug/l	96
42) 1,2-Dichloroethane	5.12	62	356750	51.660	ug/l	98
43) Isopropyl Acetate	7.10	43	353340	56.086	ug/l #	97
44) Trichloroethene	5.68	130	514398	50.198	ug/l	91
45) 1,2-Dichloropropane	6.40	63	453971	49.823	ug/l	94
46) Dibromomethane	6.25	93	274001	51.506	ug/l	99
47) Bromodichloromethane	6.55	83	561883	51.863	ug/l #	97
48) Methyl methacrylate	6.88	41	173446	53.421	ug/l	94
49) 1,4-Dioxane	6.86	88	49765	1162.833	ug/l #	92
51) 4-Methyl-2-Pentanone	8.39	43	1186850	263.873	ug/l	97
52) Toluene	7.77	92	988644	50.553	ug/l	100
53) t-1,3-Dichloropropene	8.41	75	466873	52.004	ug/l	99
54) cis-1,3-Dichloropropene	7.46	75	642559	49.446	ug/l	94
55) 1,1,2-Trichloroethane	8.63	97	306148	52.400	ug/l	95
56) Ethyl methacrylate	8.75	69	332434	53.030	ug/l	99
57) 1,3-Dichloropropane	8.99	76	523644	54.884	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	613892	280.203	ug/l	96
59) 2-Hexanone	9.62	43	884746	275.975	ug/l	97
60) Dibromochloromethane	8.85	129	400595	55.382	ug/l	97
61) 1,2-Dibromoethane	9.12	107	318792	52.539	ug/l	99
64) Tetrachloroethene	8.30	164	386390	46.272	ug/l	93
65) Chlorobenzene	9.92	112	1030041	49.084	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.05	131	406295	48.614	ug/l	96
67) Ethyl Benzene	10.02	91	1699518	47.193	ug/l	100
68) m/p-Xylenes	10.25	106	1291227	93.700	ug/l	99
69) o-Xylene	10.81	106	688612	49.355	ug/l	99
70) Styrene	10.88	104	984237	47.860	ug/l	99
71) Bromoform	10.87	173	219005	54.624	ug/l #	100
73) Isopropylbenzene	11.20	105	1750666	47.938	ug/l	98
74) N-amyl acetate	11.44	43	503586	48.926	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.77	83	385610	49.445	ug/l	93
76) 1,2,3-Trichloropropane	11.86	75	243097	47.025	ug/l	97
77) Bromobenzene	11.57	156	441063	48.068	ug/l	82
78) n-propylbenzene	11.67	91	2030583	46.050	ug/l	99
79) 2-Chlorotoluene	11.78	91	1161144	46.021	ug/l	100
80) 1,3,5-Trimethylbenzene	11.88	105	1397519	46.794	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.93	75	122643m	56.037	ug/l	
82) 4-Chlorotoluene	11.96	91	1167436	47.083	ug/l	97
83) tert-Butylbenzene	12.19	119	1447148	48.902	ug/l	95
84) 1,2,4-Trimethylbenzene	12.26	105	1331029	47.006	ug/l	97
85) sec-Butylbenzene	12.36	105	1915708	49.128	ug/l	99
86) p-Isopropyltoluene	12.51	119	1603238	49.396	ug/l	99
87) 1,3-Dichlorobenzene	12.52	146	788012	48.695	ug/l	98
88) 1,4-Dichlorobenzene	12.61	146	714765	47.328	ug/l	99
89) n-Butylbenzene	12.89	91	1577040	48.302	ug/l	97
90) Hexachloroethane	12.97	117	411642	52.000	ug/l	97
91) 1,2-Dichlorobenzene	12.99	146	707821	49.764	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.68	75	48484	57.063	ug/l	88

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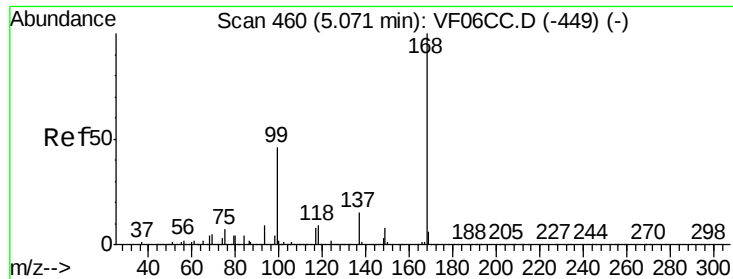
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.23	180	507655	51.981	ug/l	97
94) Hexachlorobutadiene	14.22	225	354087	52.409	ug/l	98
95) Naphthalene	14.49	128	896394	56.025	ug/l	100
96) 1,2,3-Trichlorobenzene	14.63	180	463913	52.039	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 829773

Ion Ratio Lower Upper

168 100

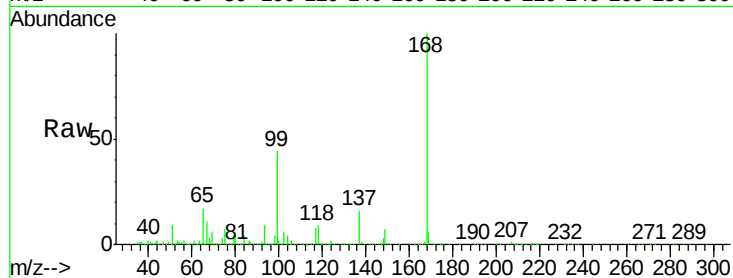
99 43.7 39.1 58.7

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

300000

250000

200000

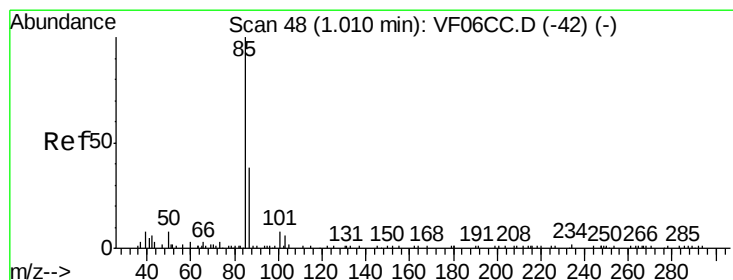
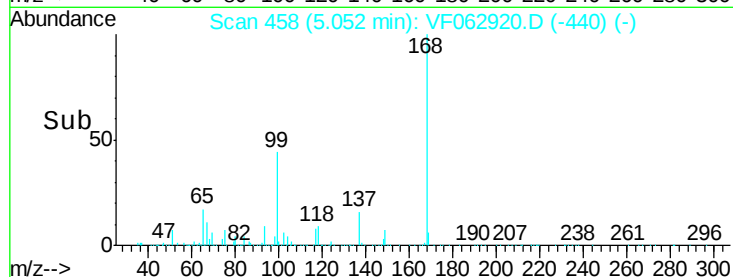
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.525 ug/l

RT: 1.00 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF062920.D

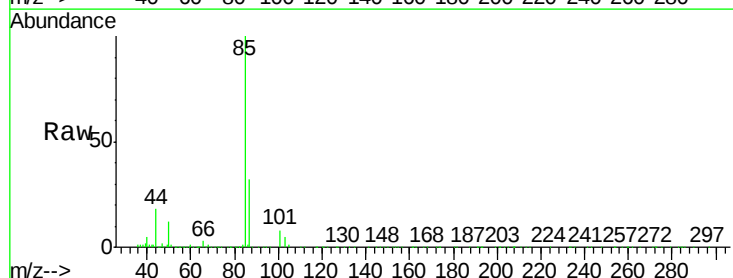
Acq: 12 Jun 2019 10:59

Tgt Ion: 85 Resp: 431043

Ion Ratio Lower Upper

85 100

87 32.4 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

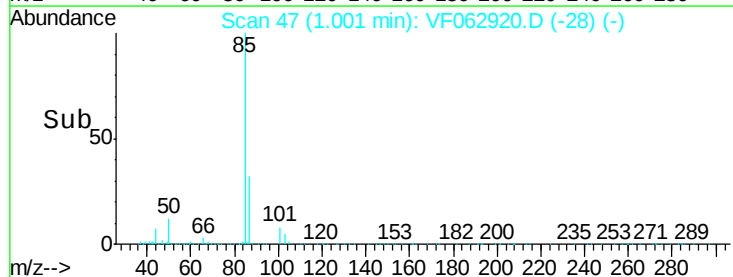
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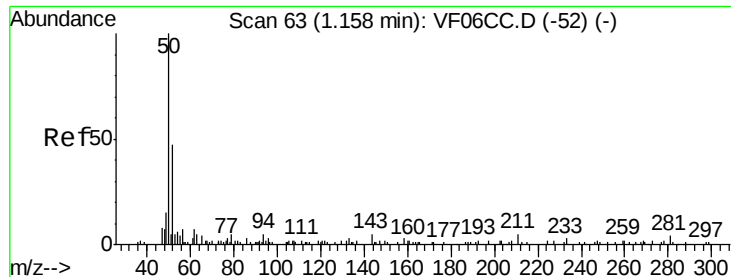
100000

50000

0

Time-->





#3

Chloromethane

Concen: 40.836 ug/l

RT: 1.13 min Scan# 60

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 350605

Ion Ratio Lower Upper

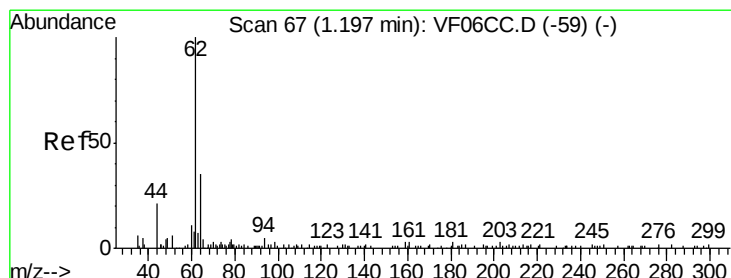
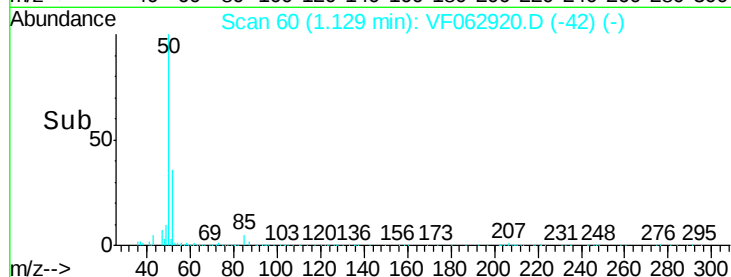
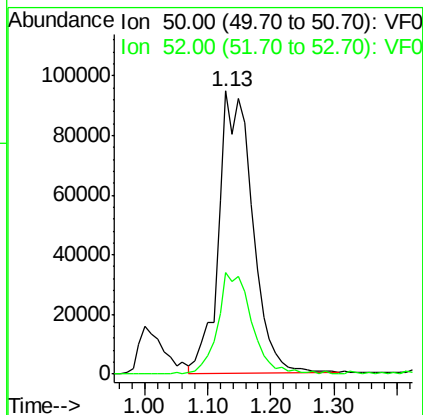
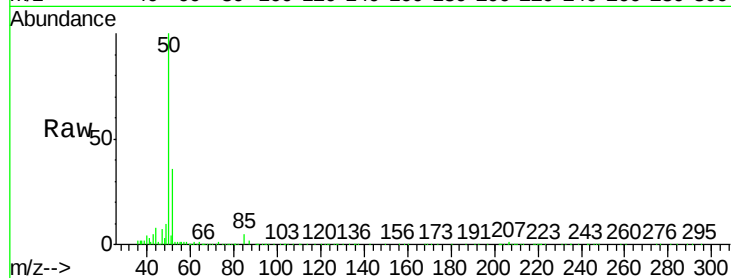
50 100

52 35.9 27.0 40.4

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#4

Vinyl Chloride

Concen: 43.292 ug/l

RT: 1.19 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062920.D

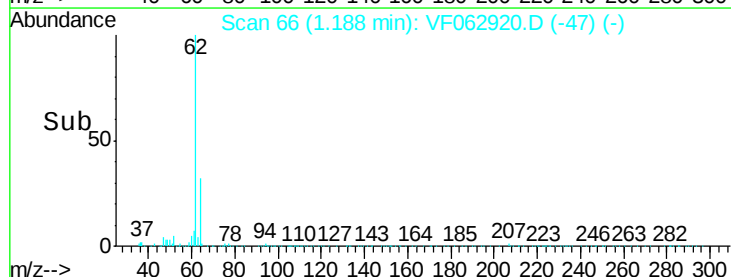
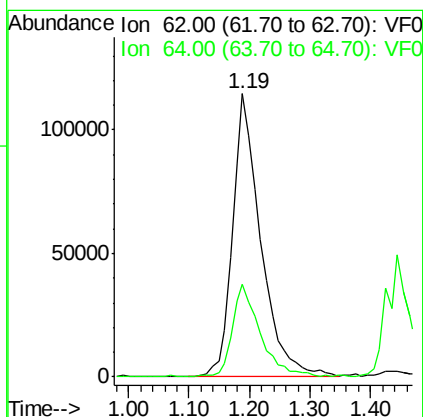
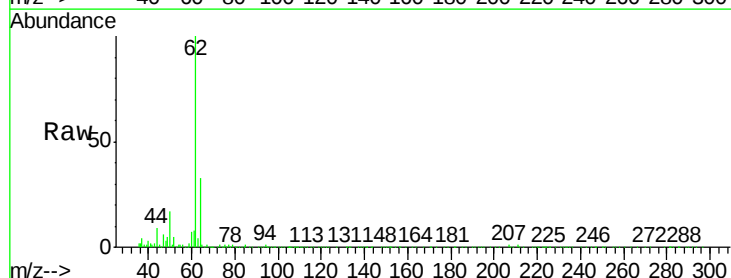
Acq: 12 Jun 2019 10:59

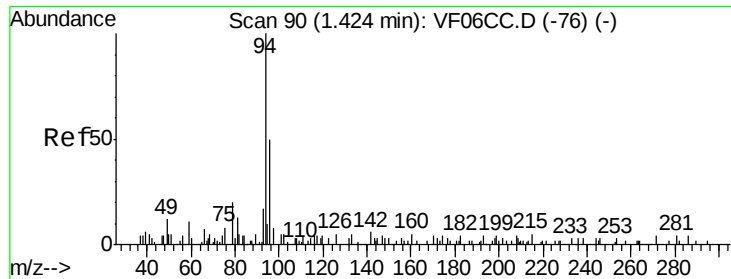
Tgt Ion: 62 Resp: 369366

Ion Ratio Lower Upper

62 100

64 32.5 26.2 39.2





#5

Bromomethane

Concen: 48.096 ug/l

RT: 1.39 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 234025

Ion Ratio Lower Upper

94 100

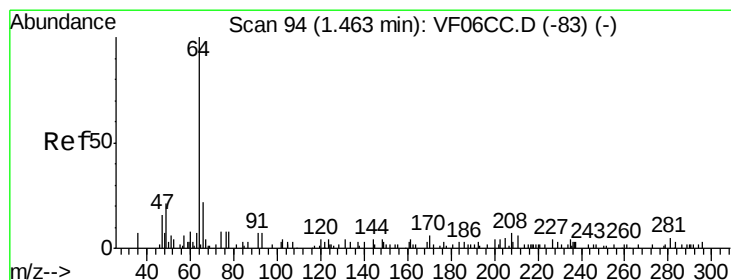
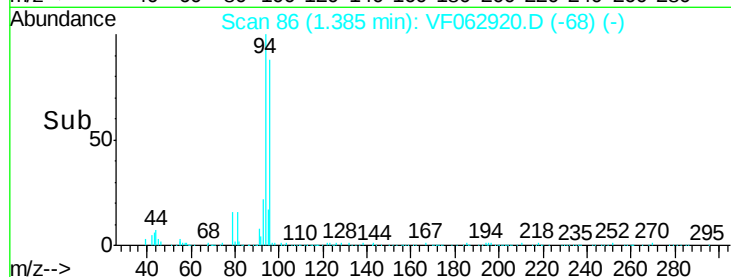
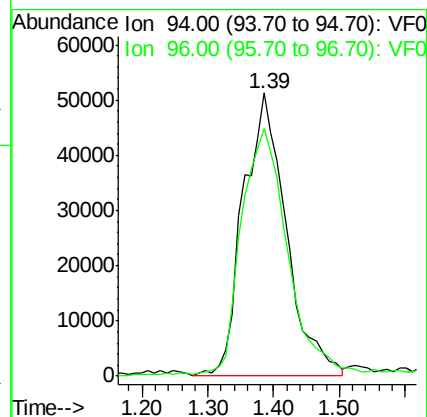
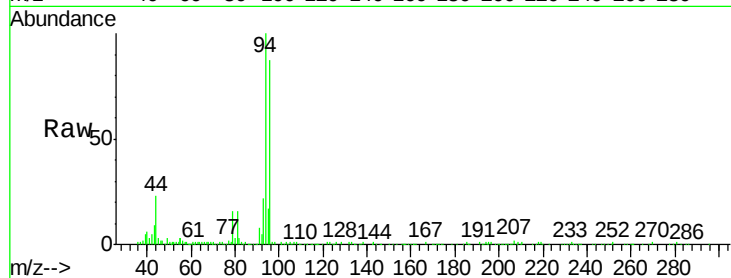
96 87.2 73.8 110.6

Manual Integrations

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#6

Chloroethane

Concen: 41.192 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.02 min

Lab File: VF062920.D

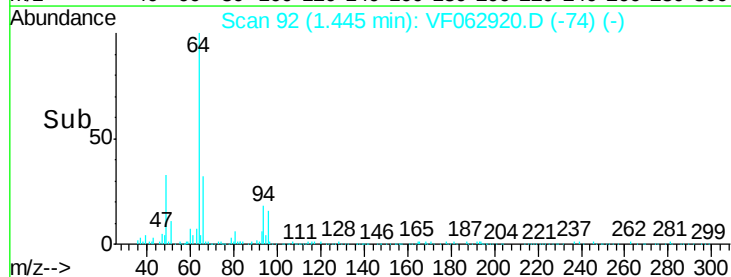
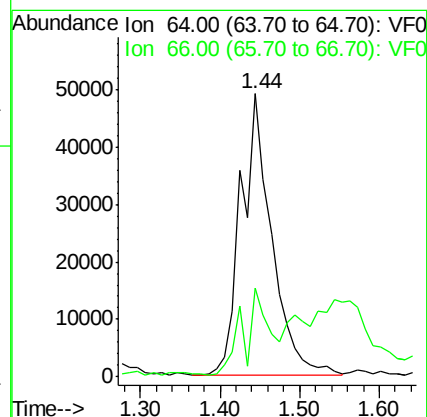
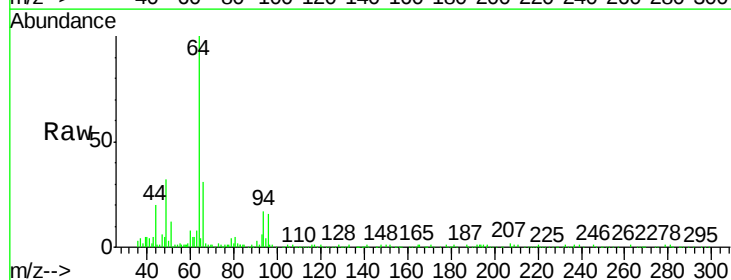
Acq: 12 Jun 2019 10:59

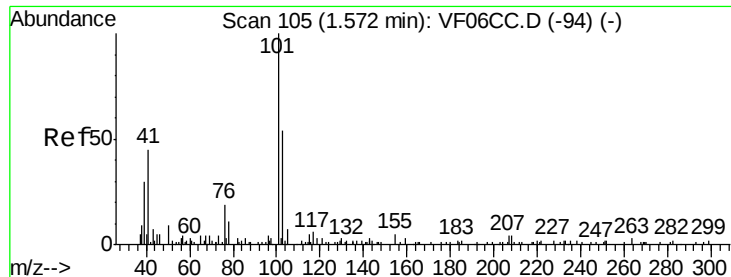
Tgt Ion: 64 Resp: 131401

Ion Ratio Lower Upper

64 100

66 31.3 31.0 46.4





#7

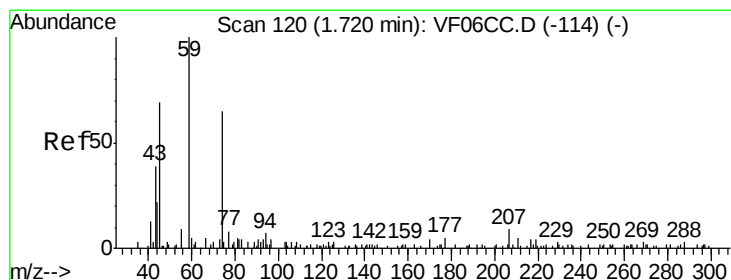
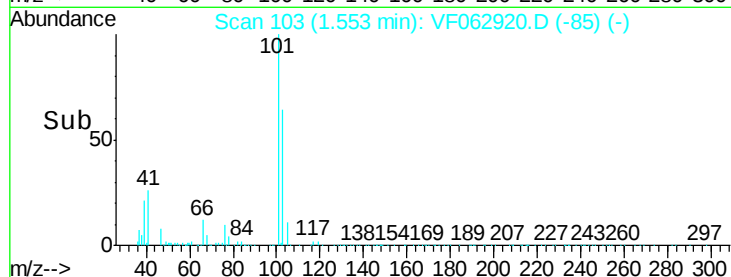
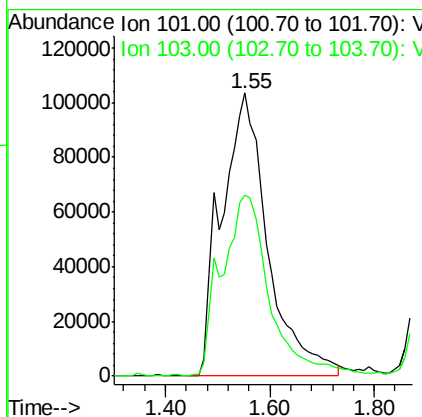
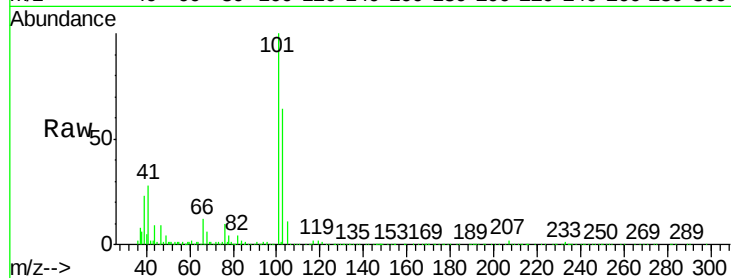
Trichlorofluoromethane
Concen: 52.066 ug/l
RT: 1.55 min Scan# 103
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

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VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	54.6	82.0

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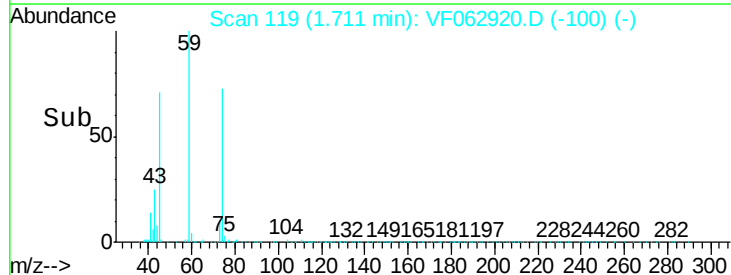
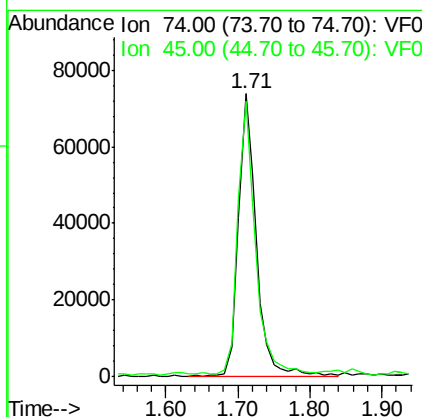
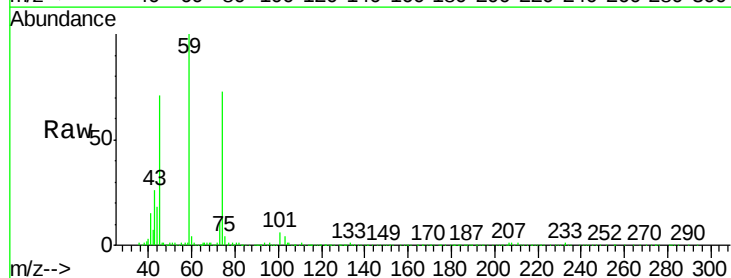
MMDadoda
6/13/2019 11:32:50 AM

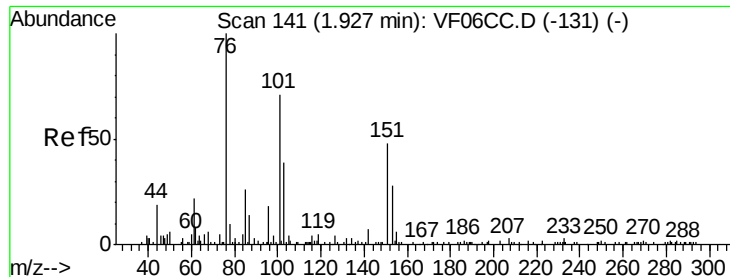


#8

Diethyl Ether
Concen: 53.789 ug/l
RT: 1.71 min Scan# 119
Delta R.T. -0.01 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.2	47.5	142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.146 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

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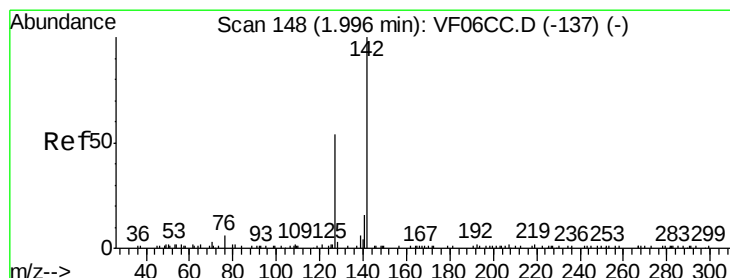
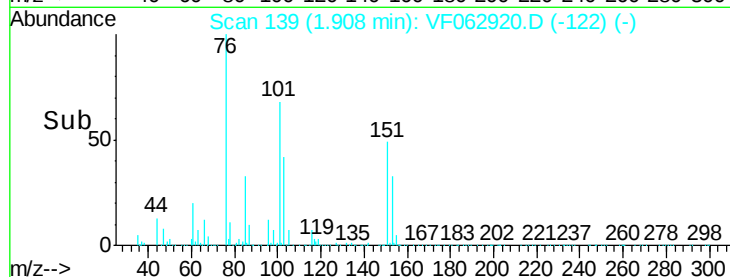
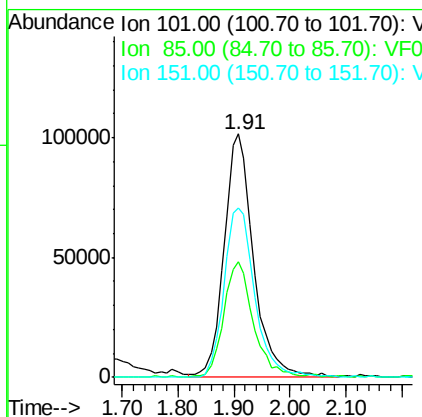
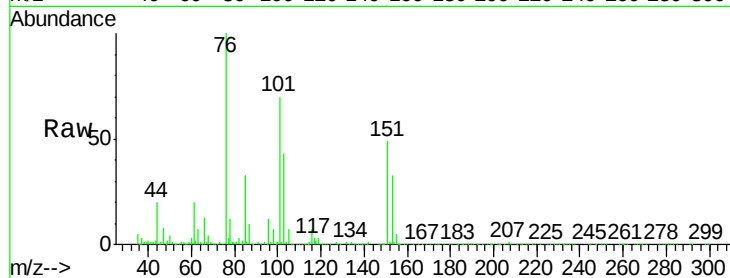
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	365608
Ion Ratio	Lower	Upper	
101	100		
85	48.4	37.1	55.7
151	69.8	60.3	90.5

Manual Integrations
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#10

Methyl Iodide

Concen: 48.252 ug/l

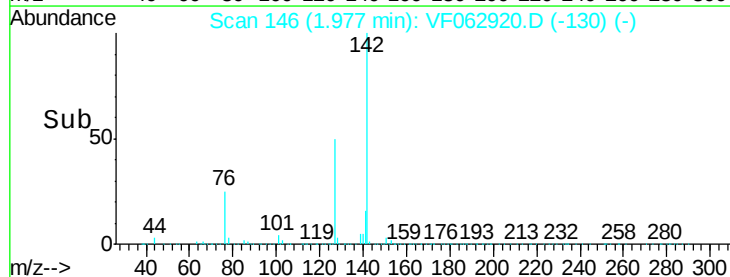
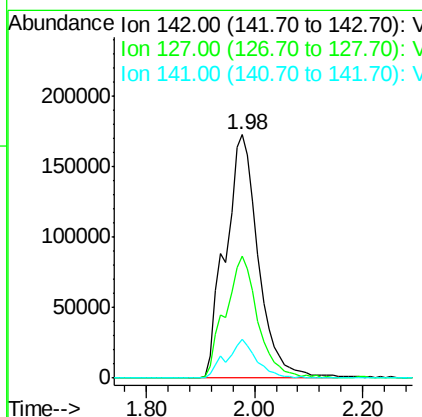
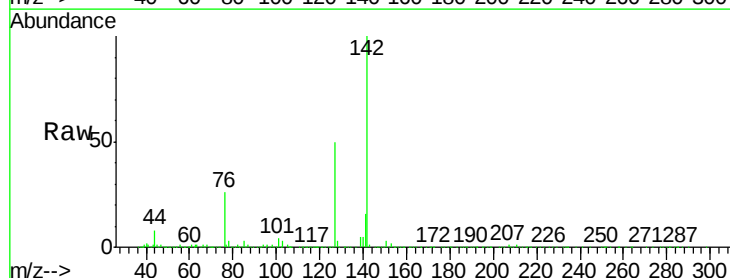
RT: 1.98 min Scan# 146

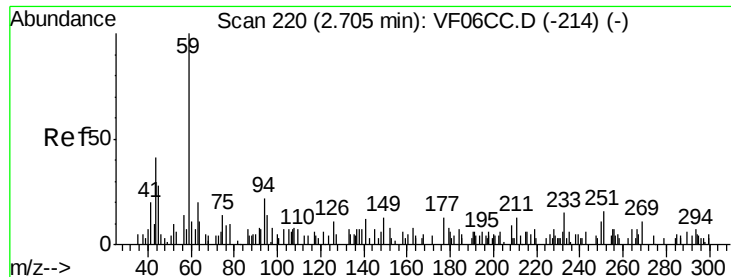
Delta R.T. -0.04 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	142	Resp:	734685
Ion Ratio	Lower	Upper	
142	100		
127	50.3	39.4	59.2
141	15.9	10.6	15.8#





#11

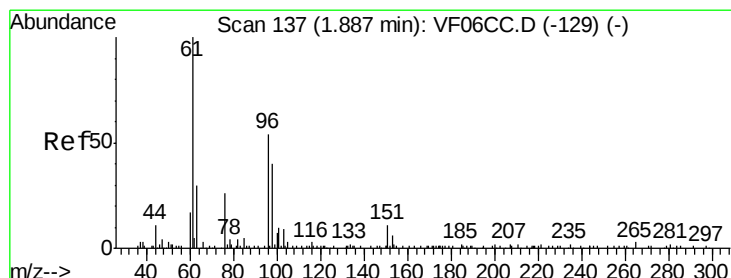
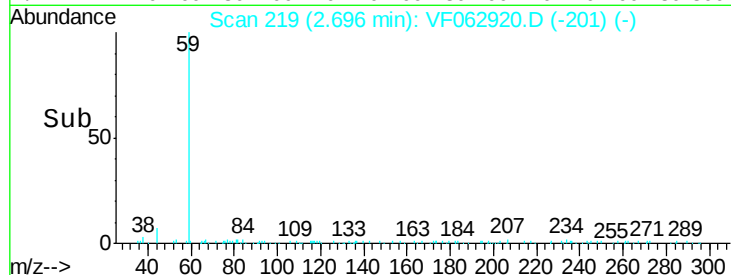
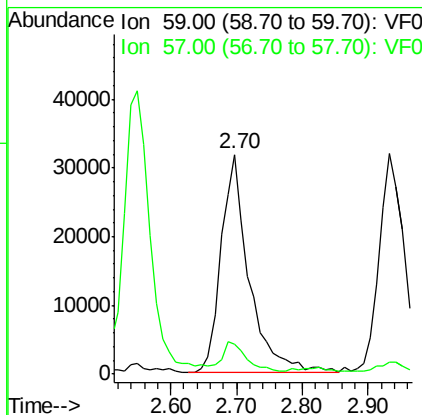
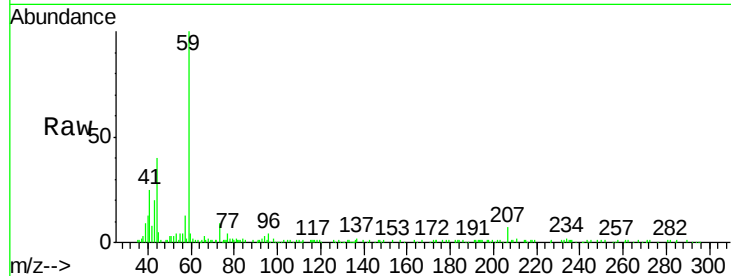
Tert butyl alcohol
Concen: 268.111 ug/l
RT: 2.70 min Scan# 219
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	93195
Ion Ratio	100	Lower	Upper
57	13.4	9.2	13.8

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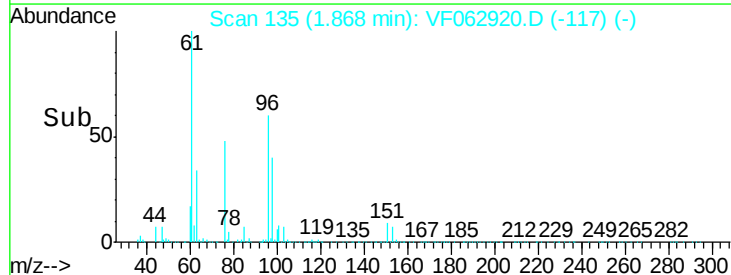
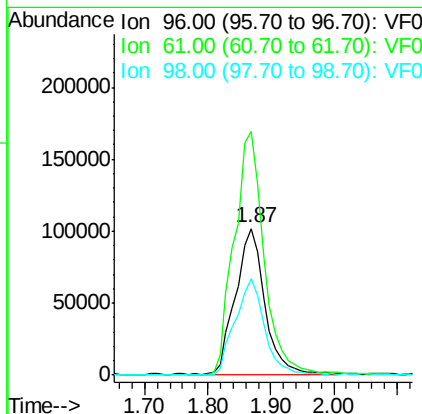
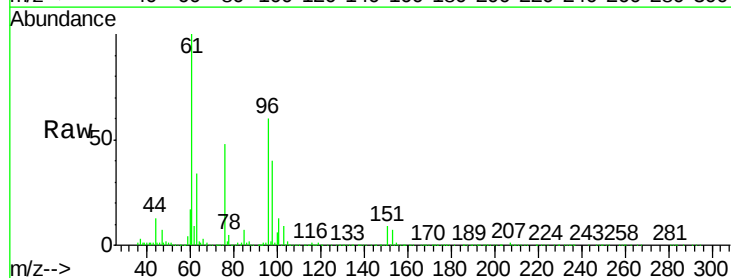
MMDadoda
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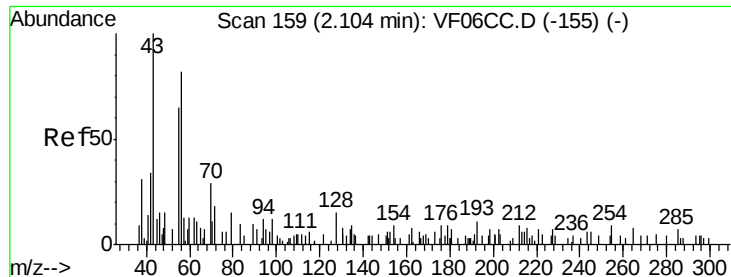


#12

1,1-Dichloroethene
Concen: 47.582 ug/l
RT: 1.87 min Scan# 135
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	96	Resp	328098
Ion Ratio	100	Lower	Upper
61	166.3	139.4	209.2
98	66.1	50.3	75.5





#13

Acrolein

Concen: 277.966 ug/l

RT: 2.10 min Scan# 158

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 38472

Ion Ratio Lower Upper

56 100

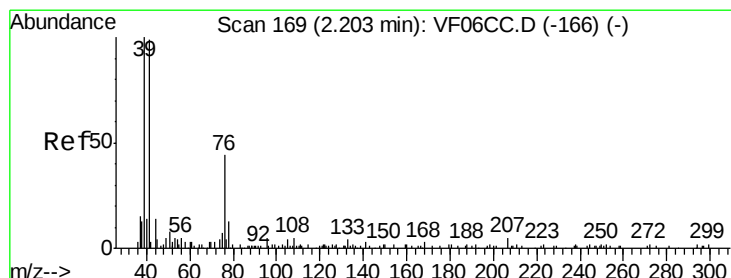
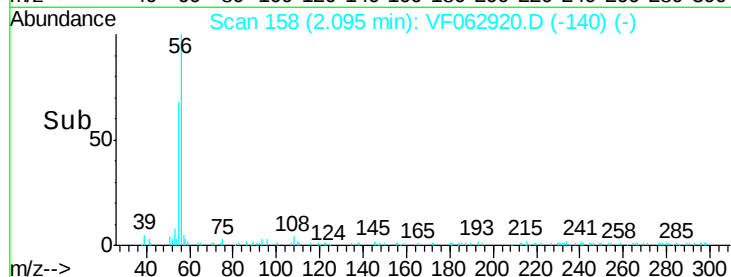
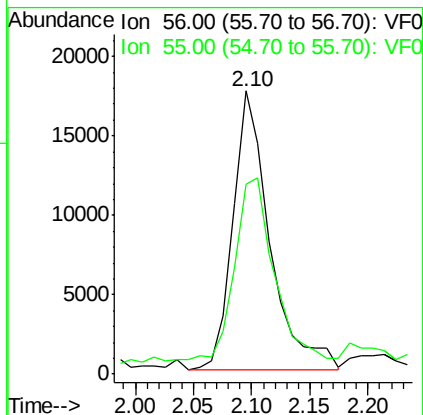
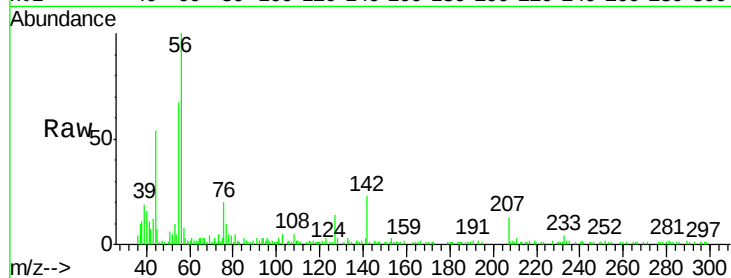
55 67.1 52.9 79.3

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#14

Allyl chloride

Concen: 60.458 ug/l m

RT: 2.20 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

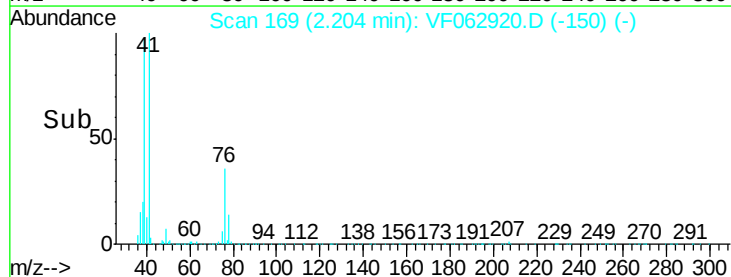
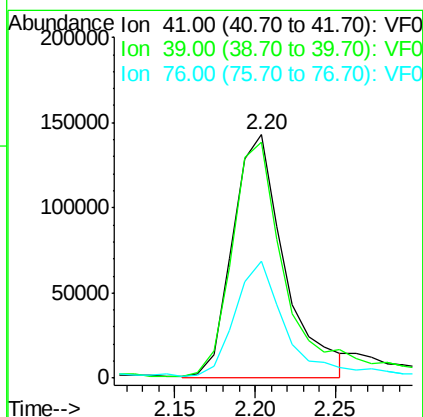
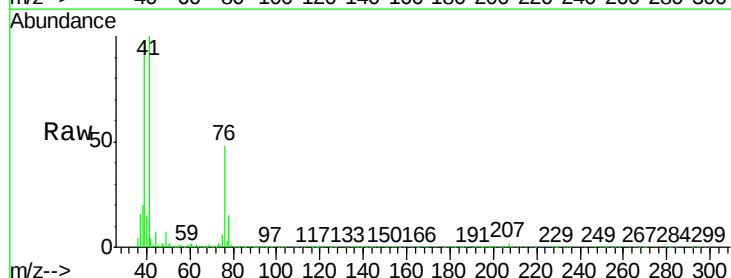
Tgt Ion: 41 Resp: 323418

Ion Ratio Lower Upper

41 100

39 96.8 71.9 107.9

76 48.0 39.6 59.4





#15

Acrylonitrile

Concen: 177.544 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

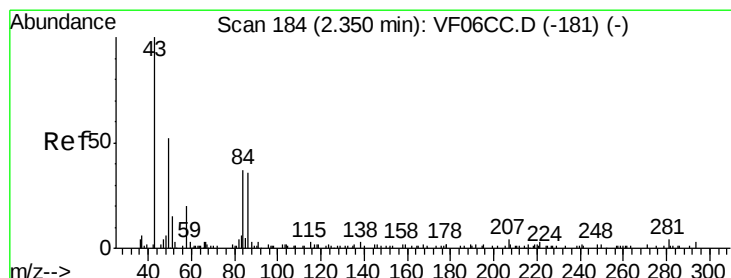
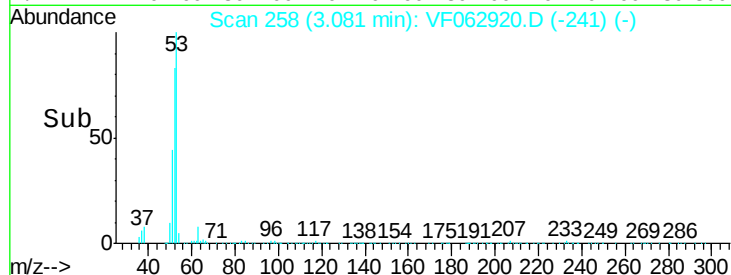
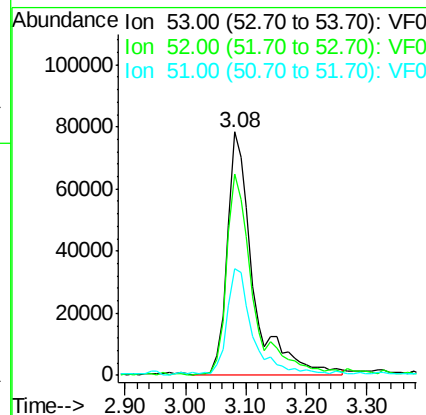
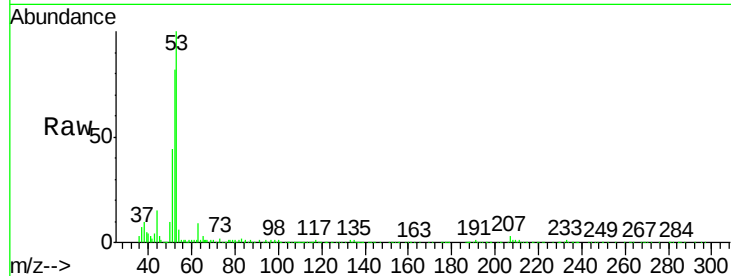
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	231896
Ion Ratio		Lower	Upper
53	100		
52	82.5	68.1	102.1
51	44.0	27.7	41.5#

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#16

Acetone

Concen: 292.450 ug/l

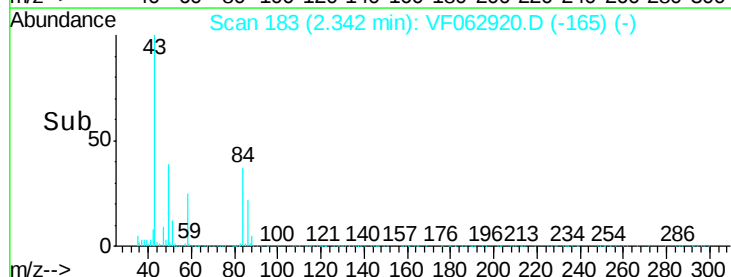
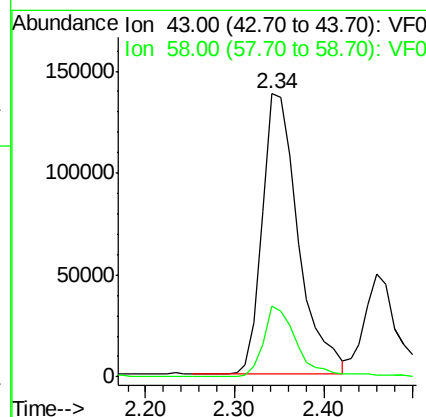
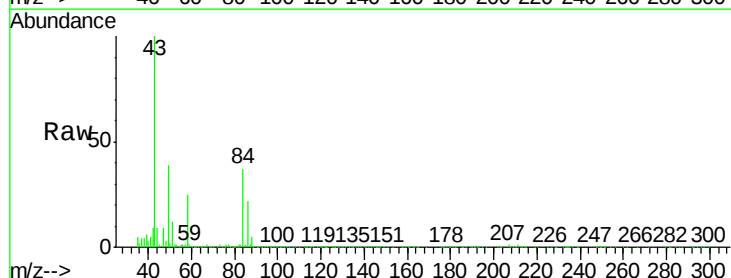
RT: 2.34 min Scan# 183

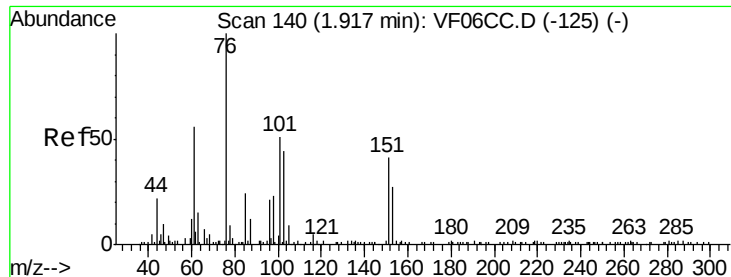
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	43	Resp:	384070
Ion Ratio		Lower	Upper
43	100		
58	25.2	19.0	28.4





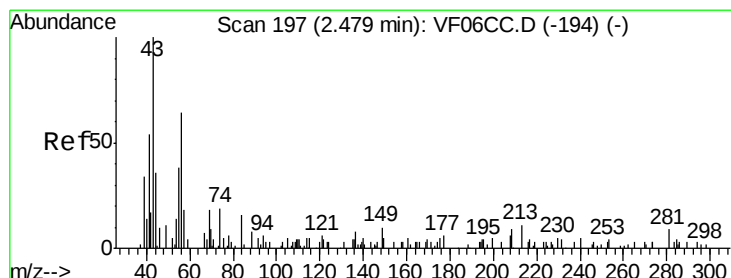
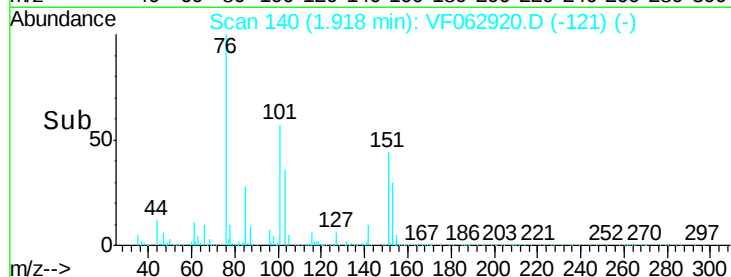
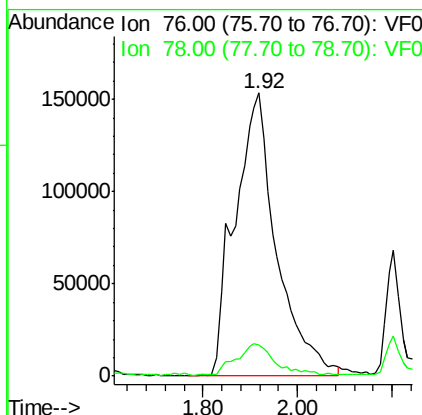
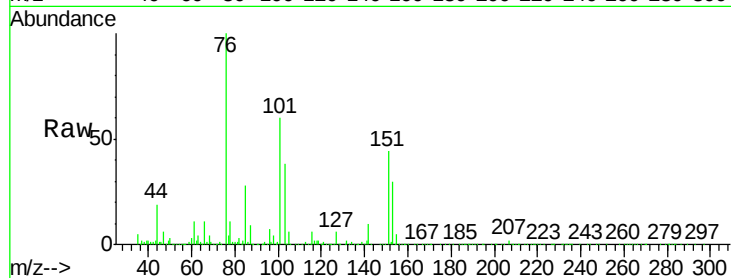
#17
Carbon Disulfide
Concen: 46.333 ug/l
RT: 1.92 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.1	9.4	14.2

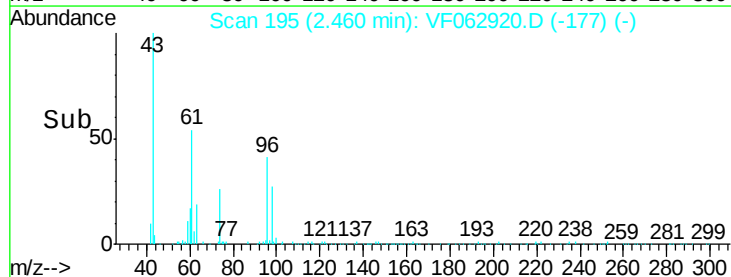
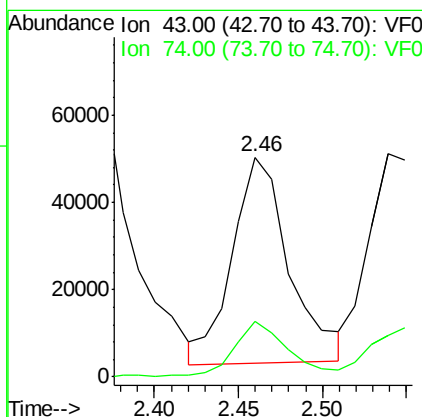
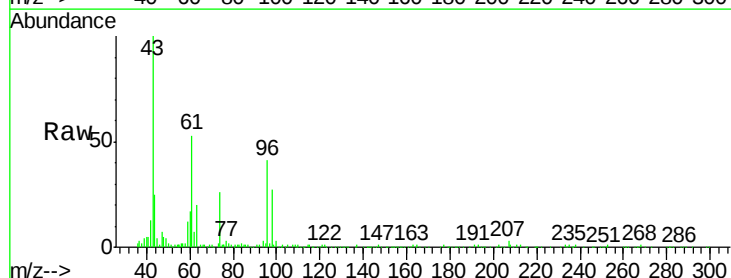
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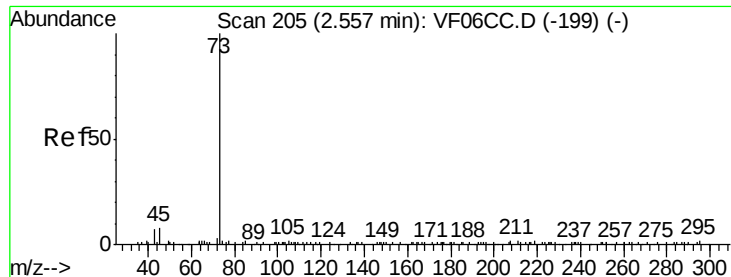
MMDadoda
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#18
Methyl Acetate
Concen: 48.586 ug/l
RT: 2.46 min Scan# 195
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.5	22.1	33.1





#19

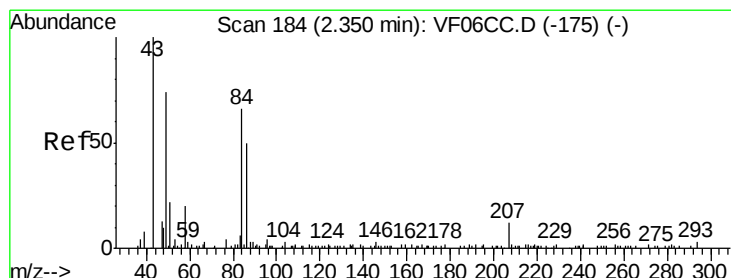
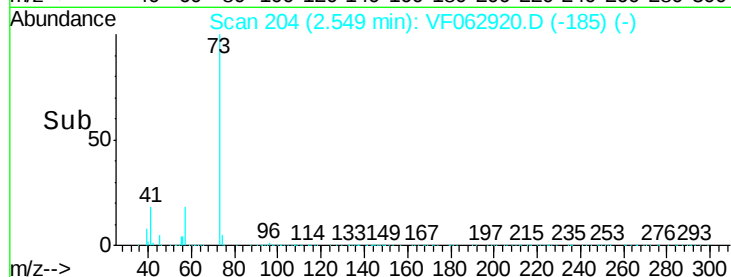
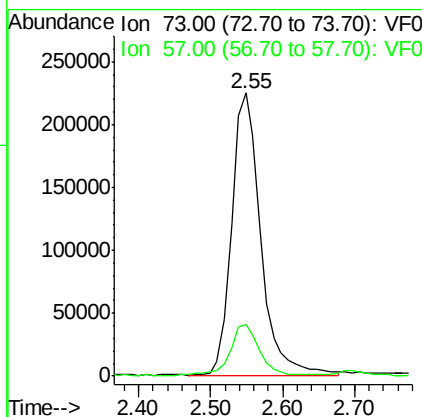
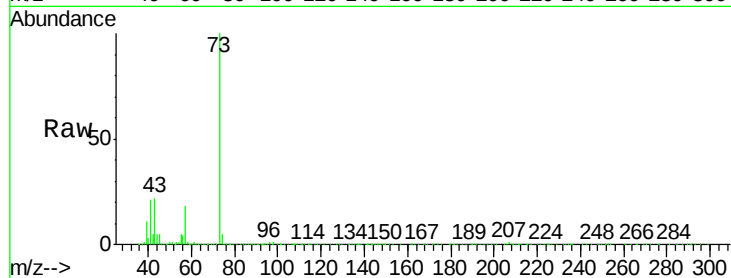
Methyl tert-butyl Ether
 Concen: 50.184 ug/l
 RT: 2.55 min Scan# 204
 Delta R.T. -0.01 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.3	15.1	22.7

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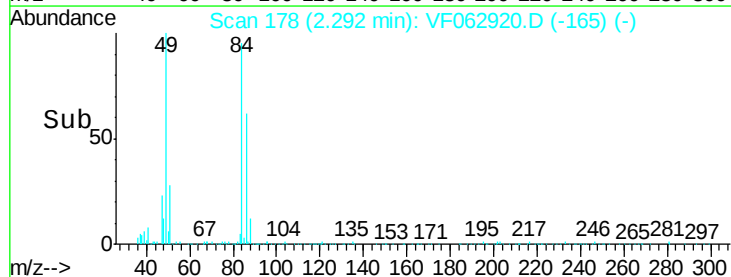
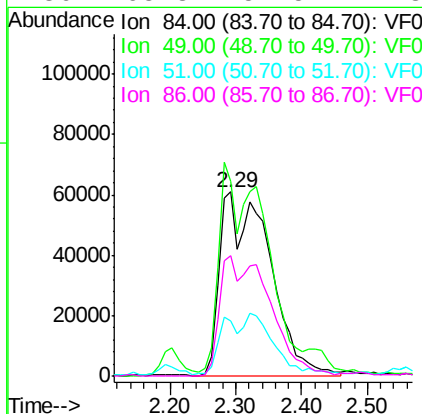
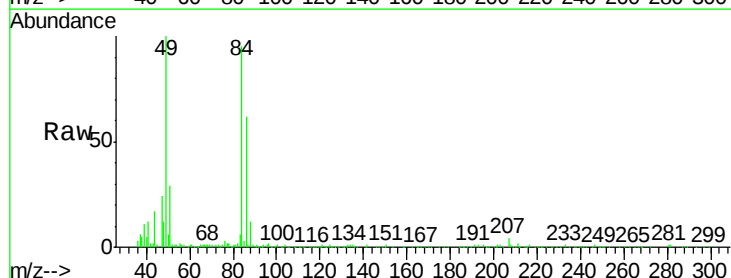
MMDadoda
 6/13/2019 11:32:50 AM

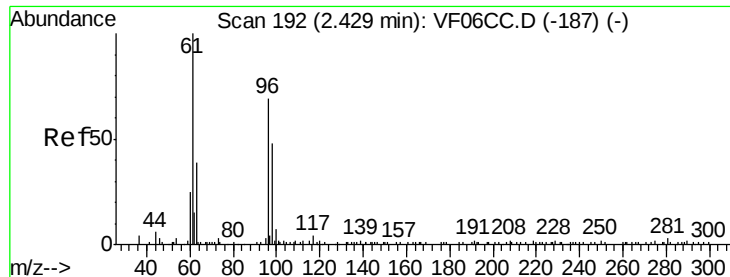


#20

Methylene Chloride
 Concen: 48.259 ug/l m
 RT: 2.29 min Scan# 178
 Delta R.T. -0.07 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
84	100		
49	105.4	82.6	123.8
51	30.1	25.0	37.4
86	65.3	51.5	77.3





#21

trans-1,2-Dichloroethene

Concen: 46.511 ug/l

RT: 2.42 min Scan# 191

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

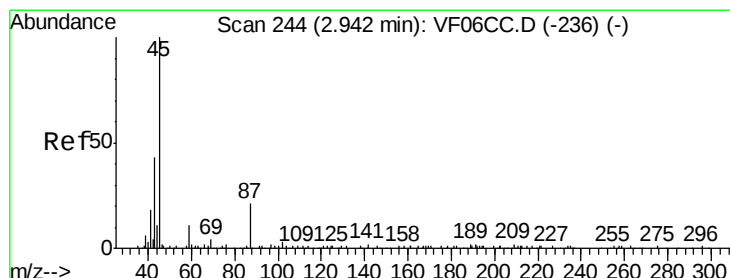
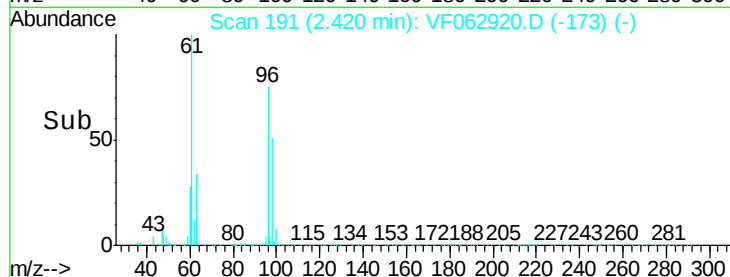
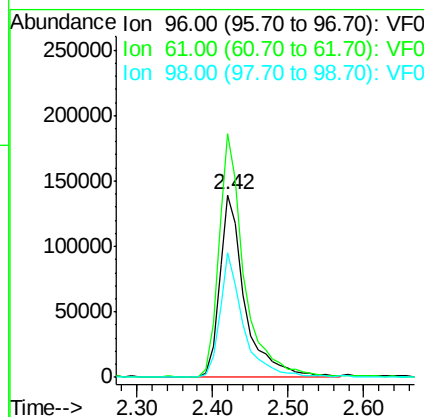
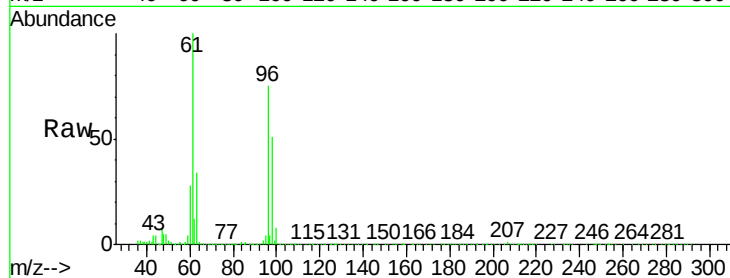
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	321562
Ion	Ratio	Lower	Upper
96	100		
61	133.2	105.0	157.6
98	68.3	51.1	76.7

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#22

Diisopropyl ether

Concen: 47.977 ug/l

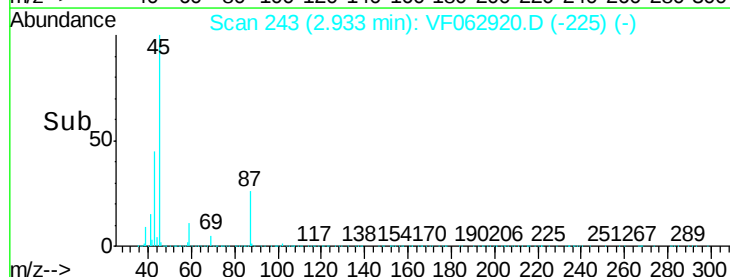
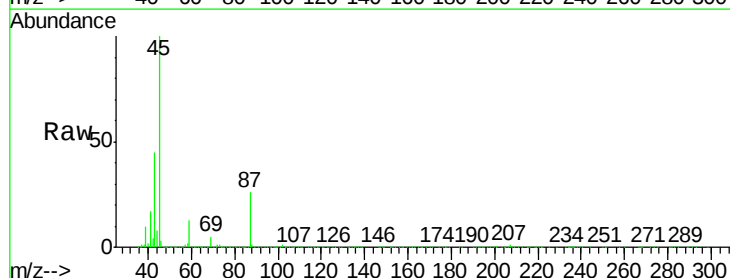
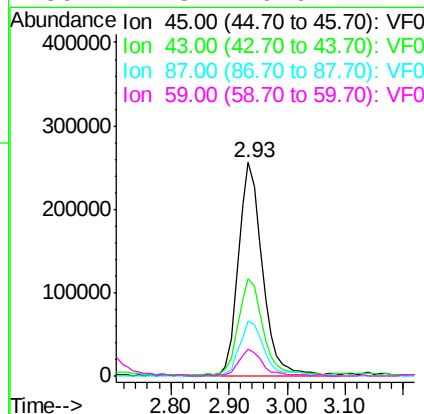
RT: 2.93 min Scan# 243

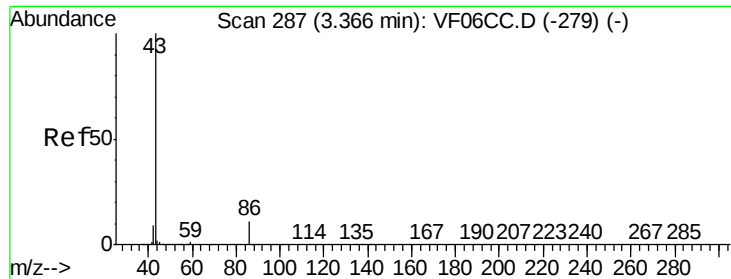
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	45	Resp:	729167
Ion	Ratio	Lower	Upper
45	100		
43	45.3	34.3	51.5
87	26.0	19.0	28.4
59	12.5	9.6	14.4





#23

Vinyl Acetate

Concen: 240.949 ug/l

RT: 3.34 min Scan# 284

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2507045

Ion Ratio Lower Upper

43 100

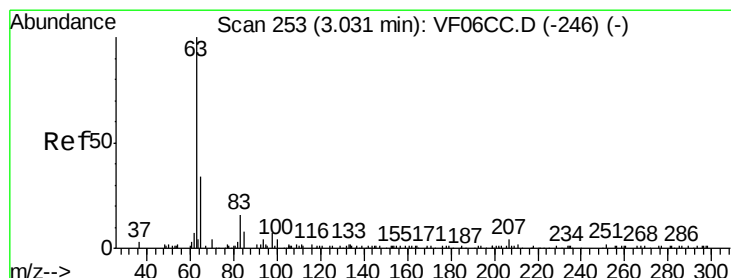
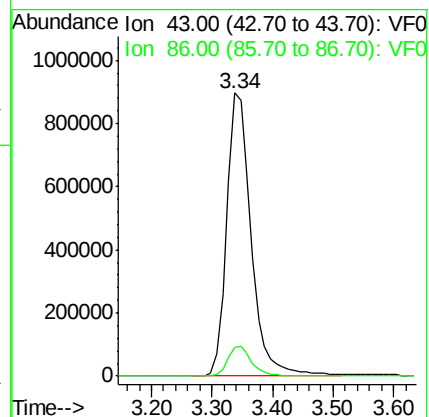
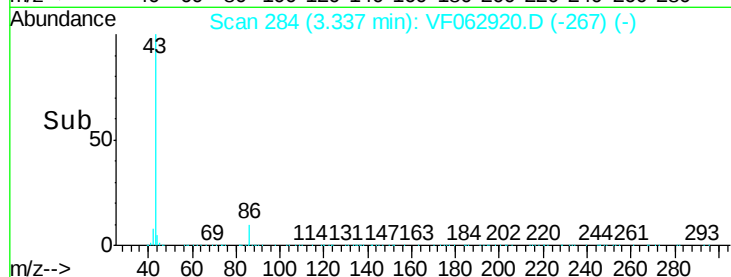
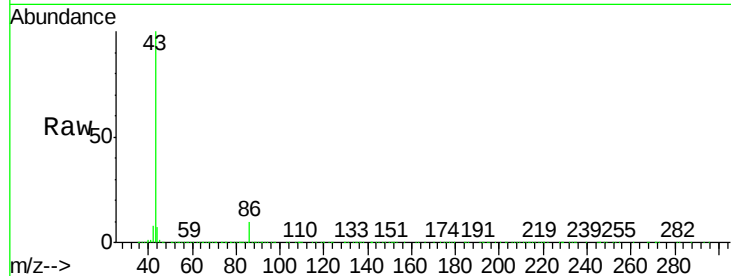
86 10.1 8.2 12.2

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#24

1,1-Dichloroethane

Concen: 46.430 ug/l

RT: 3.01 min Scan# 251

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

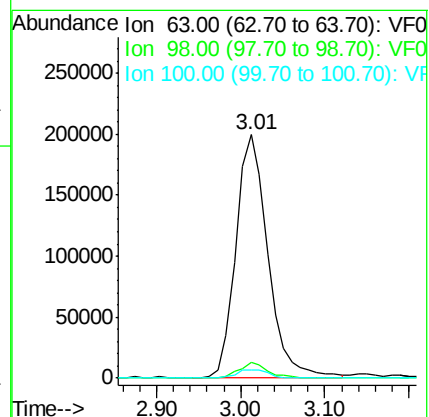
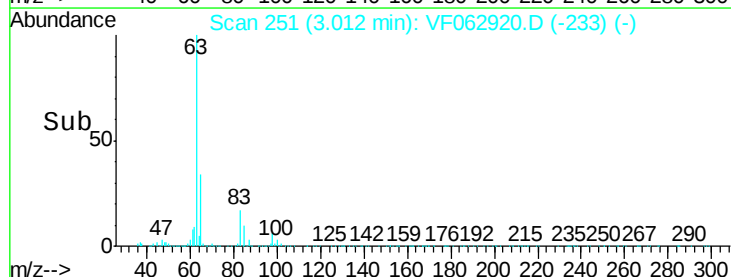
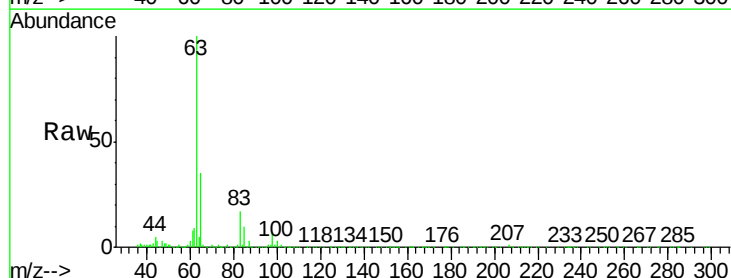
Tgt Ion: 63 Resp: 526869

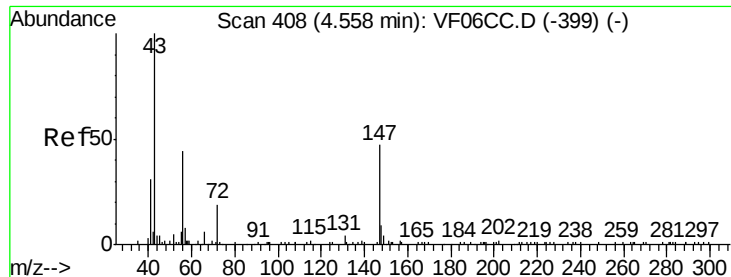
Ion Ratio Lower Upper

63 100

98 6.5 2.4 7.1

100 3.4 1.5 4.5





#25

2-Butanone

Concen: 231.058 ug/l

RT: 4.52 min Scan# 404

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 706655

Ion Ratio Lower Upper

43 100

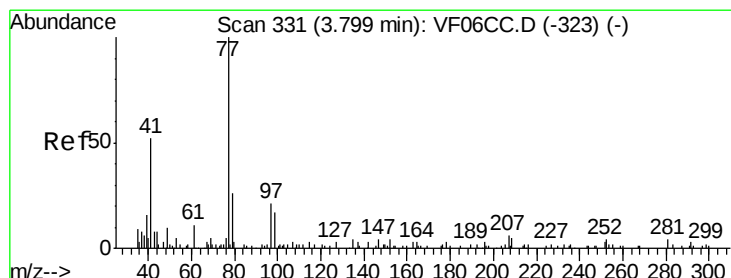
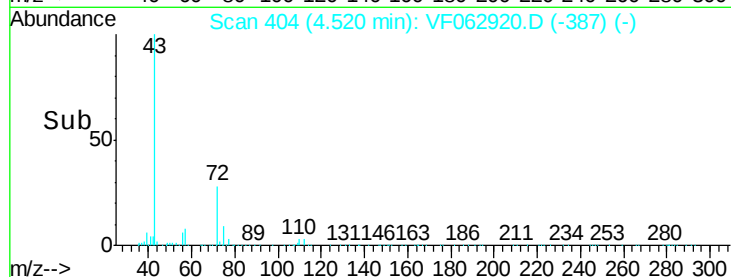
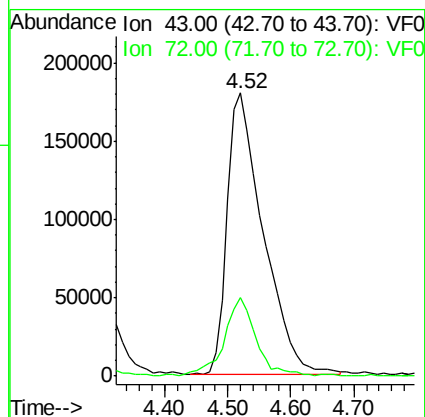
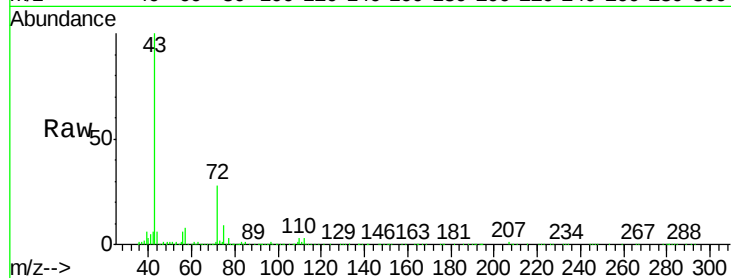
72 27.7 21.4 32.0

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#26

2,2-Dichloropropane

Concen: 59.496 ug/l

RT: 3.78 min Scan# 329

Delta R.T. -0.02 min

Lab File: VF062920.D

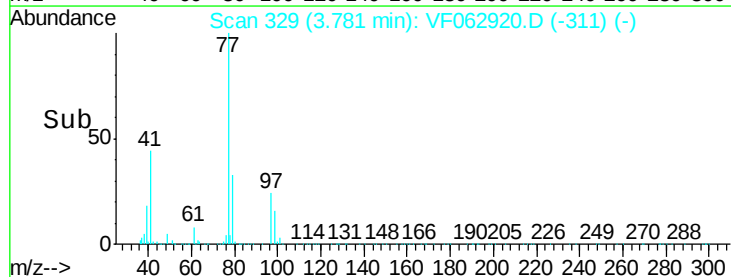
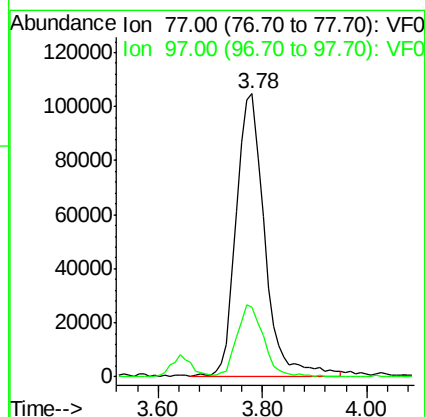
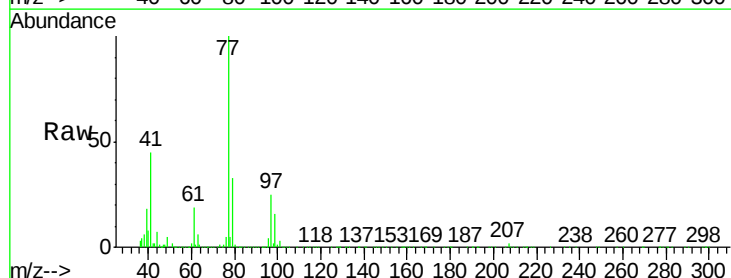
Acq: 12 Jun 2019 10:59

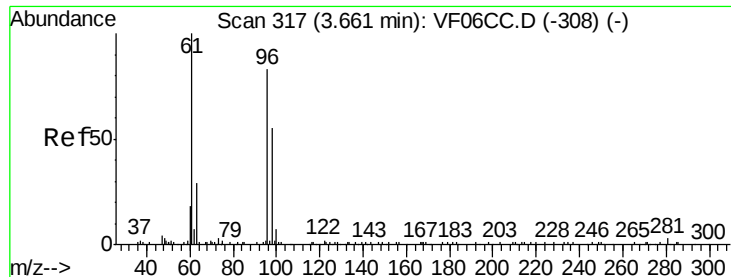
Tgt Ion: 77 Resp: 383346

Ion Ratio Lower Upper

77 100

97 24.7 12.4 37.4





#27

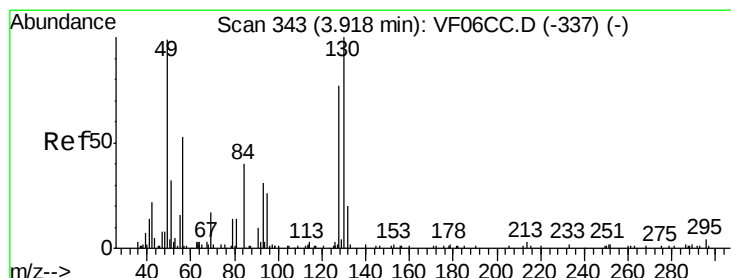
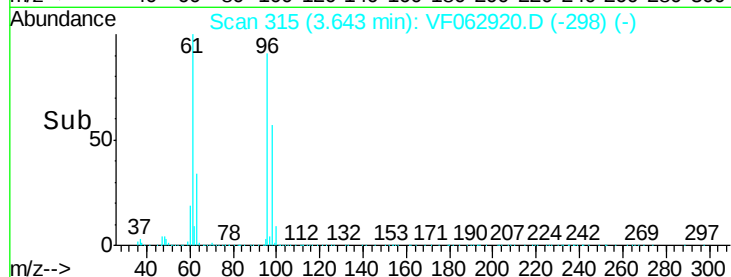
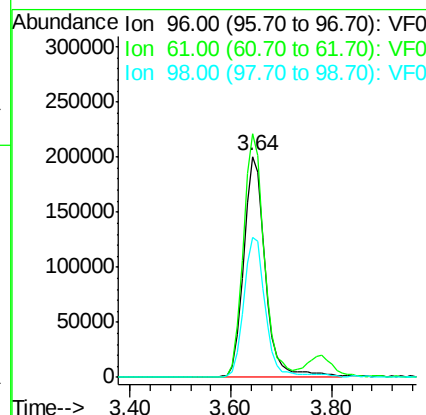
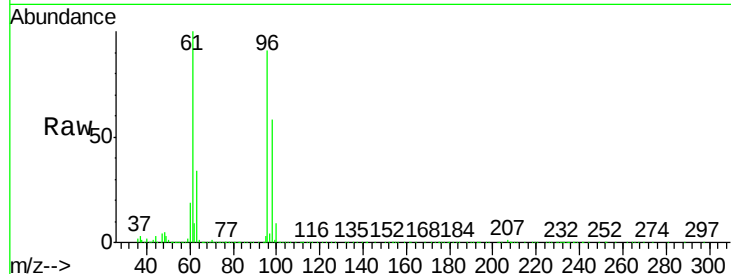
cis-1,2-Dichloroethene
Concen: 50.019 ug/l
RT: 3.64 min Scan# 315
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	581304		
61	110.2	0.0	213.8	
98	63.4	0.0	127.0	

Manual Integrations
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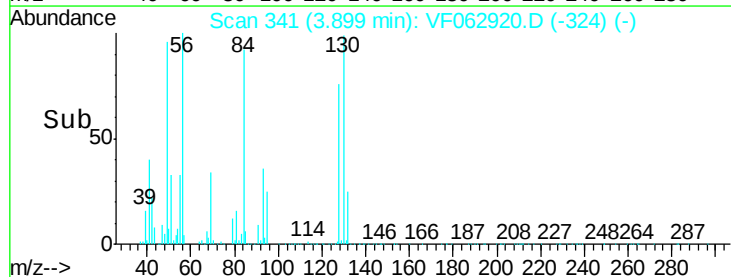
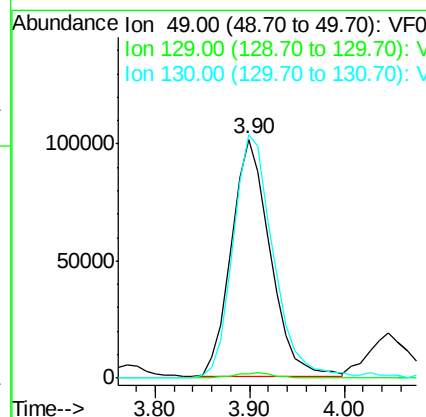
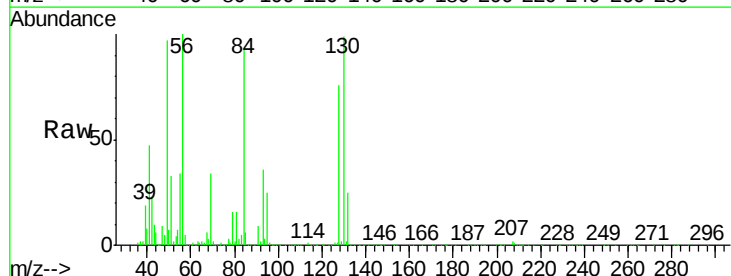
MMDadoda
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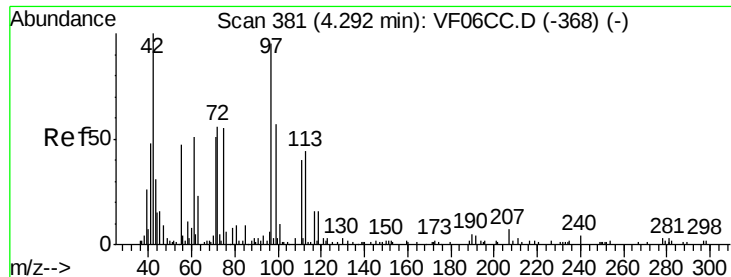


#28

Bromochloromethane
Concen: 46.894 ug/l
RT: 3.90 min Scan# 341
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	289455		
129	1.9	0.0	5.4	
130	102.1	79.2	118.8	





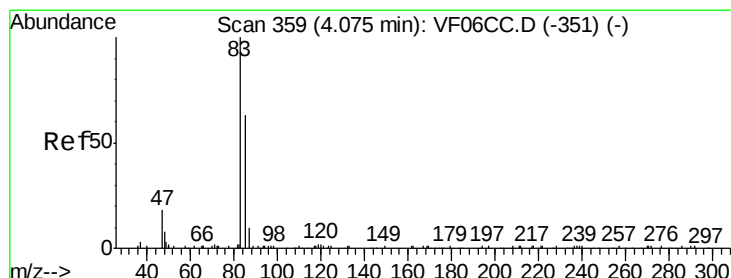
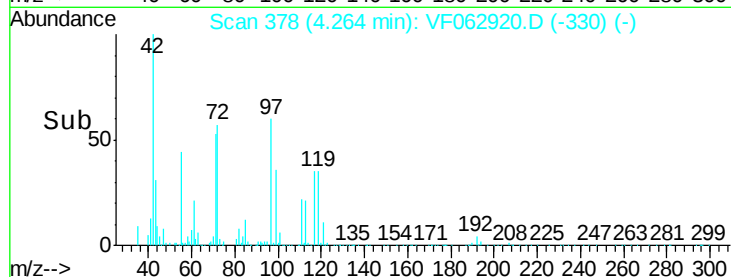
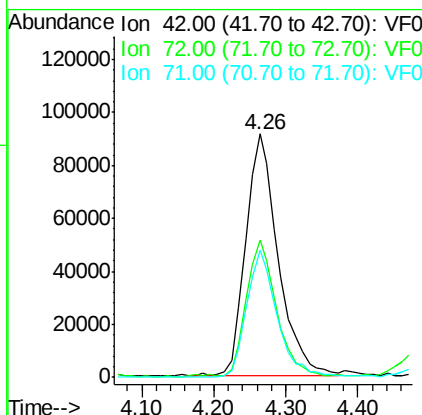
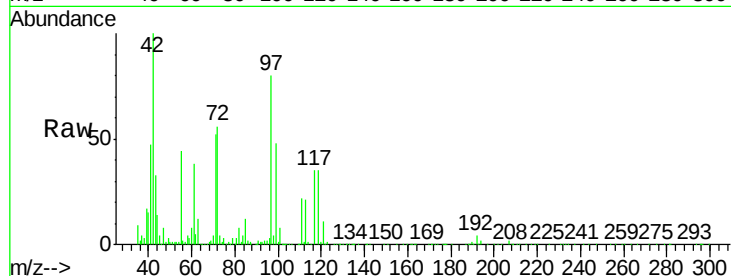
#29
Tetrahydrofuran
Concen: 246.161 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	42	Resp:	287942
Ion Ratio		Lower	Upper
42	100		
72	52.3	39.0	58.6
71	49.4	36.9	55.3

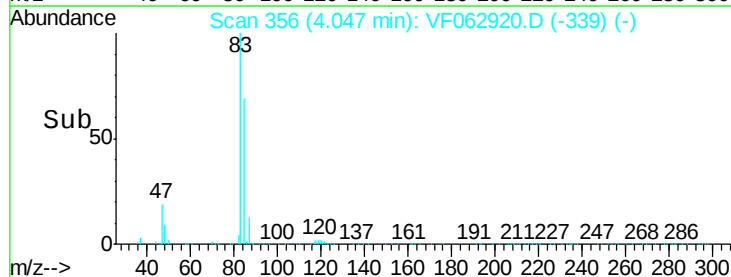
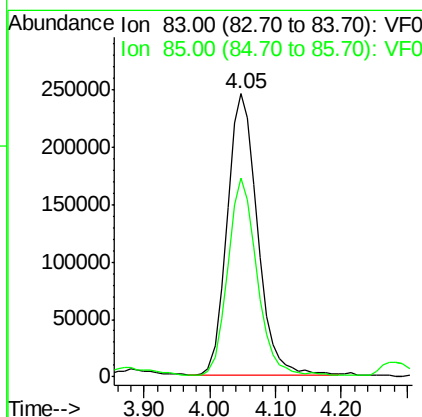
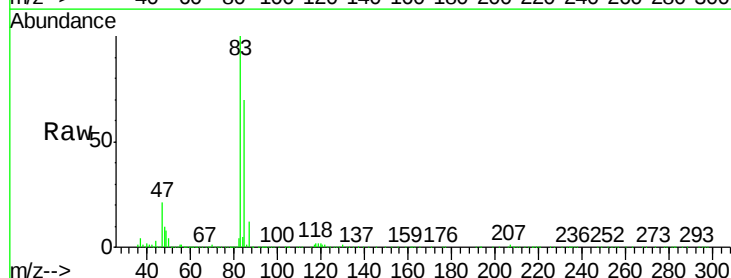
Manual Integrations
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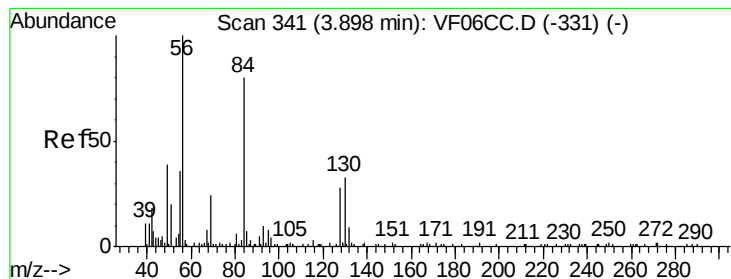
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#30
Chloroform
Concen: 49.411 ug/l
RT: 4.05 min Scan# 356
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion:	83	Resp:	790224
Ion Ratio		Lower	Upper
83	100		
85	70.2	55.0	82.6





#31

Cyclohexane

Concen: 43.761 ug/l

RT: 3.88 min Scan# 339

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

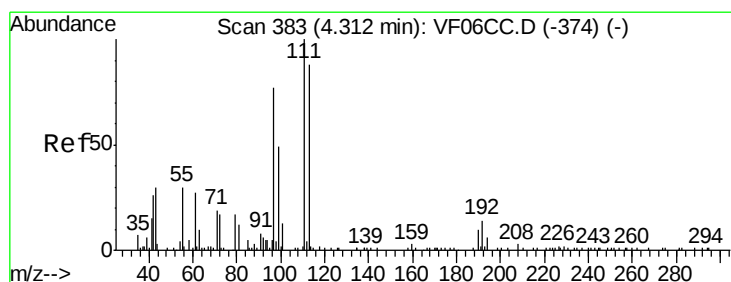
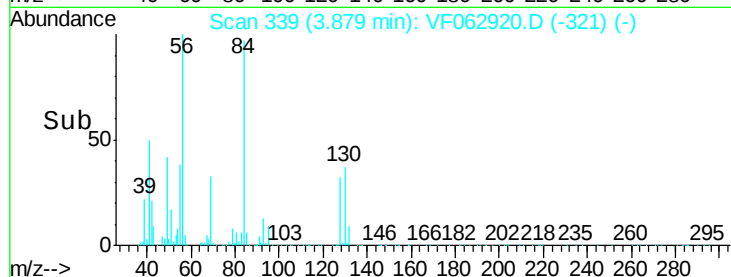
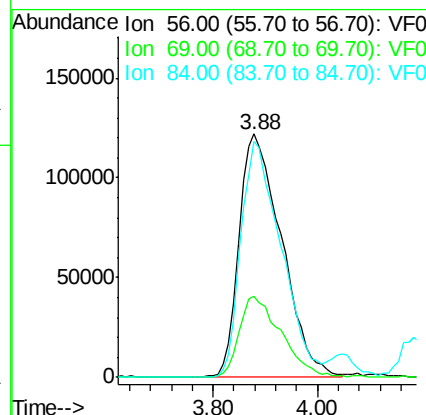
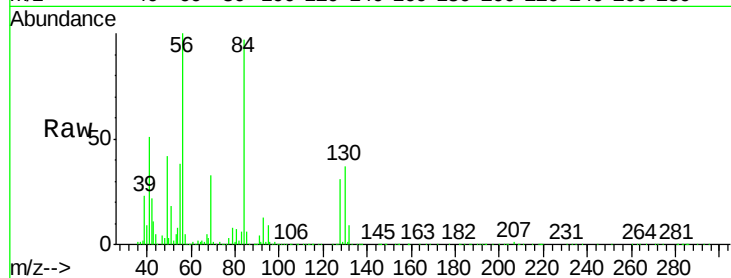
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	672315
Ion	Ratio	Lower	Upper
56	100		
69	33.3	26.7	40.1
84	97.1	74.3	111.5

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#32

1,1,1-Trichloroethane

Concen: 58.037 ug/l

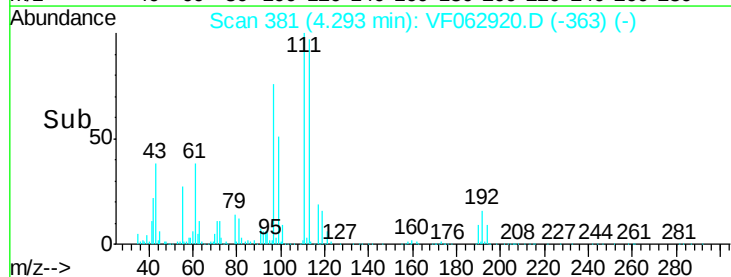
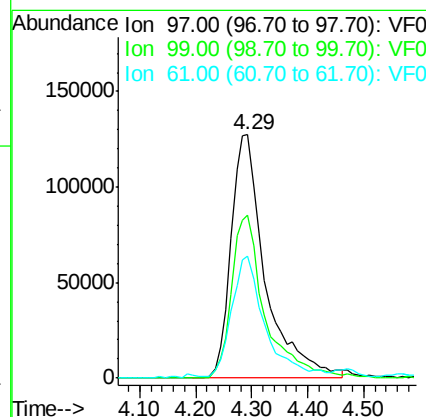
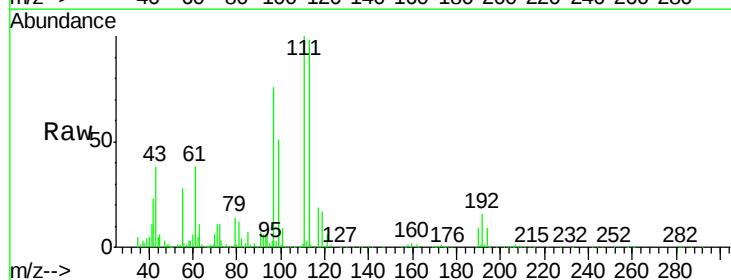
RT: 4.29 min Scan# 381

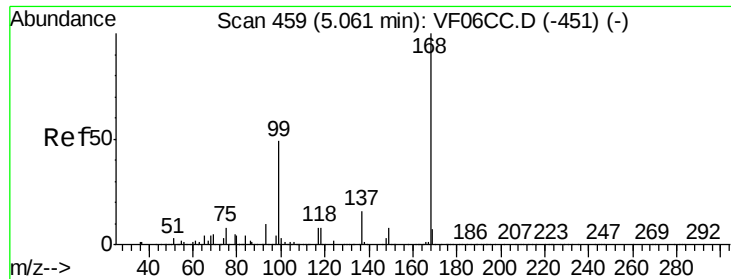
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	97	Resp:	540423
Ion	Ratio	Lower	Upper
97	100		
99	66.8	51.7	77.5
61	49.9	38.9	58.3





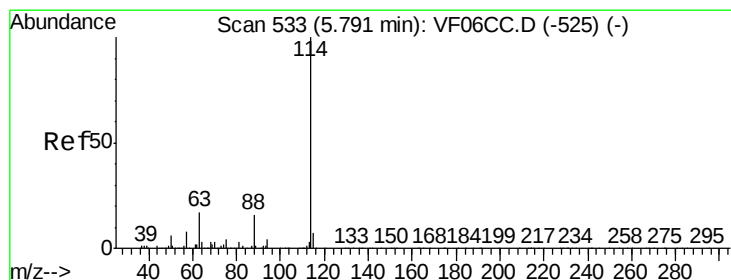
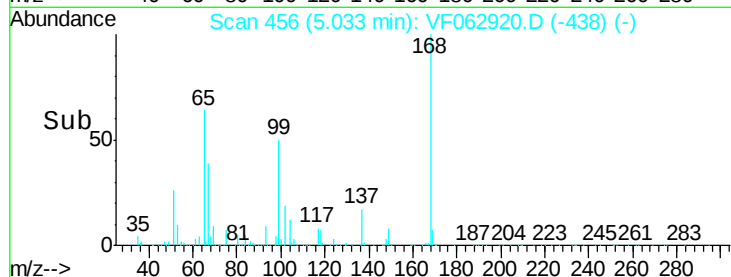
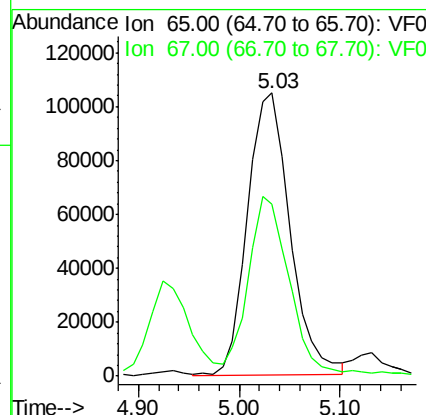
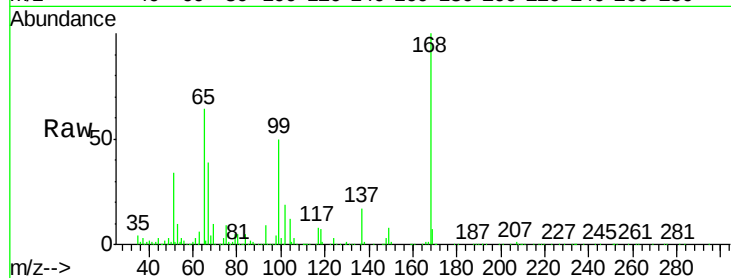
#33
 1,2-Dichloroethane-d4
 Concen: 53.702 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. -0.02 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	60.9	0.0	121.2	

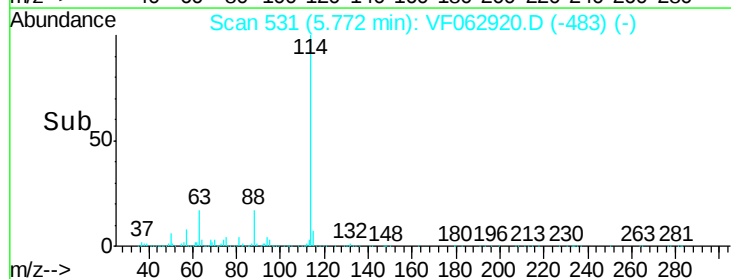
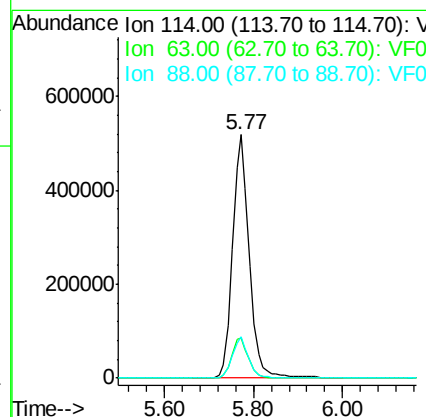
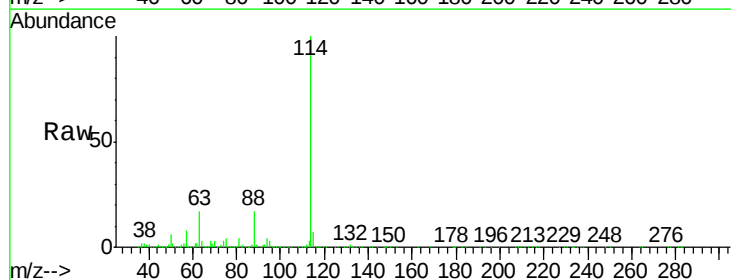
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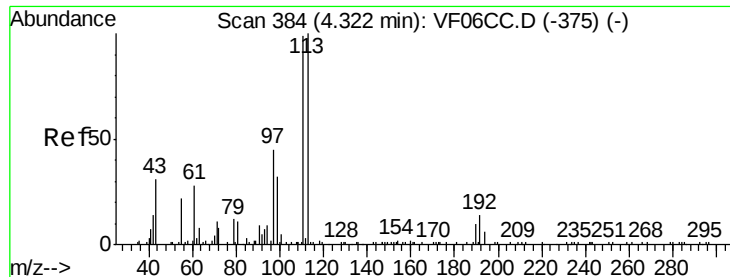
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.03 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	16.6	0.0	34.2	
88	16.9	0.0	31.2	





#35

Dibromofluoromethane

Concen: 54.961 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

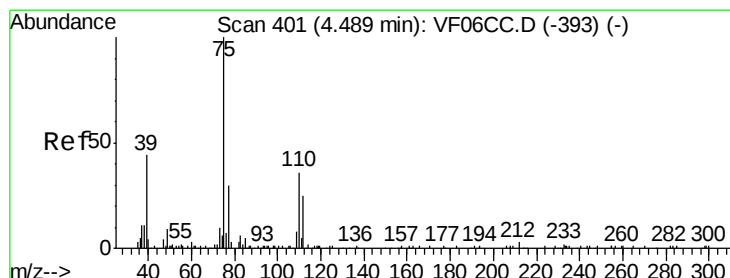
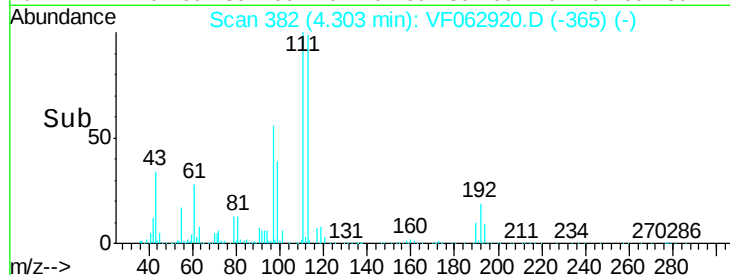
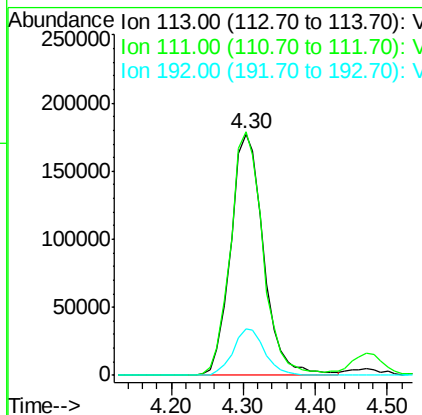
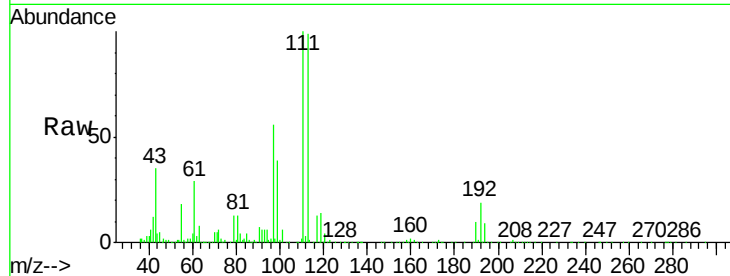
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	562828
Ion Ratio	Lower	Upper	
113	100		
111	100.9	81.9	122.9
192	19.4	15.1	22.7

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#36

1,1-Dichloropropene

Concen: 49.787 ug/l

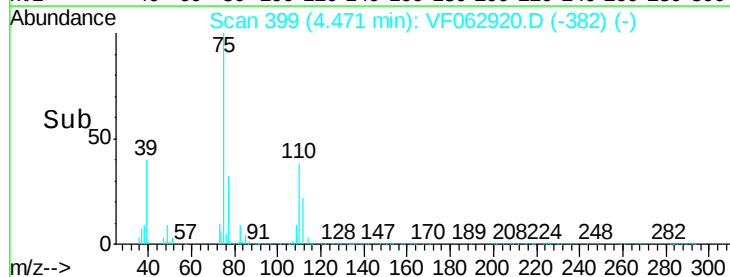
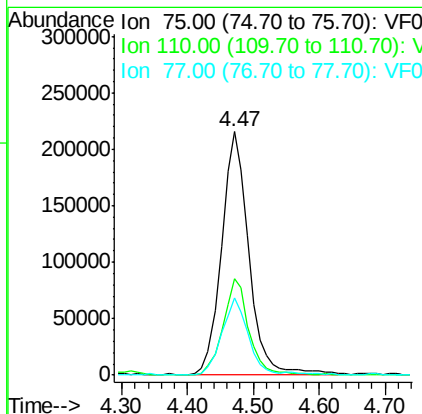
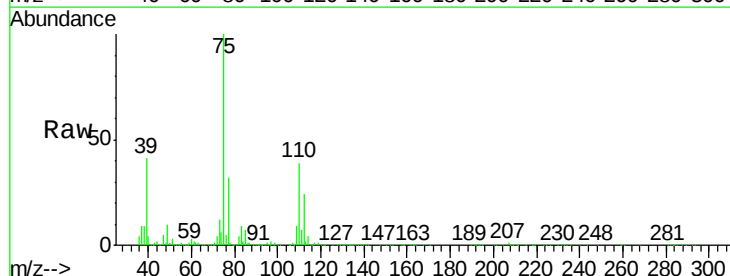
RT: 4.47 min Scan# 399

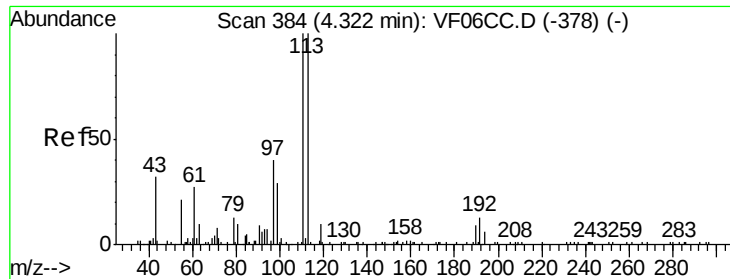
Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	75	Resp:	621138
Ion Ratio	Lower	Upper	
75	100		
110	39.4	19.4	58.1
77	31.9	25.4	38.2





#37

Ethyl Acetate

Concen: 50.457 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.04 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

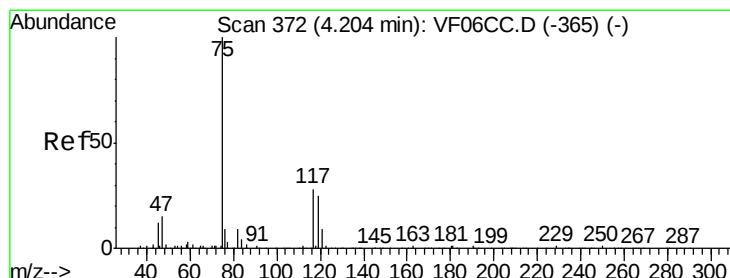
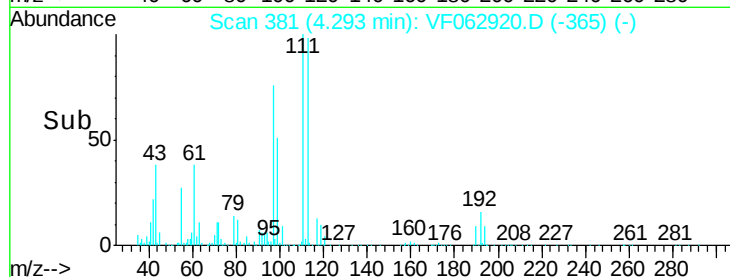
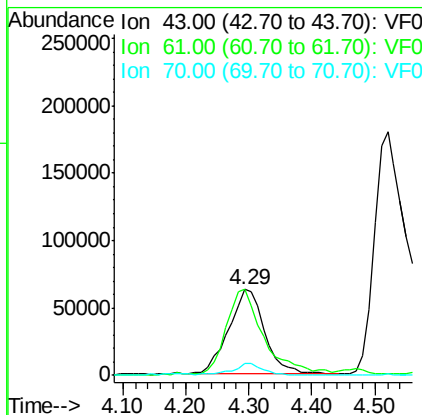
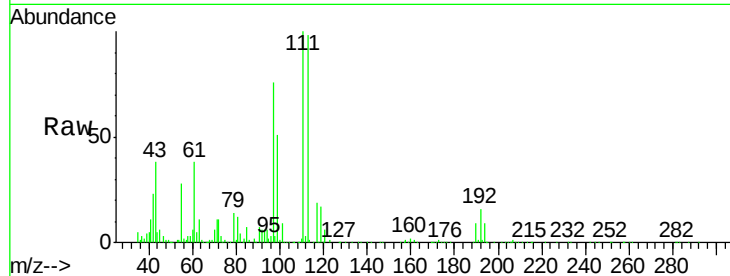
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	240631
Ion Ratio	Lower	Upper	
43	100		
61	99.7	59.1	88.7#
70	14.6	10.1	15.1

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#38

Carbon Tetrachloride

Concen: 59.636 ug/l

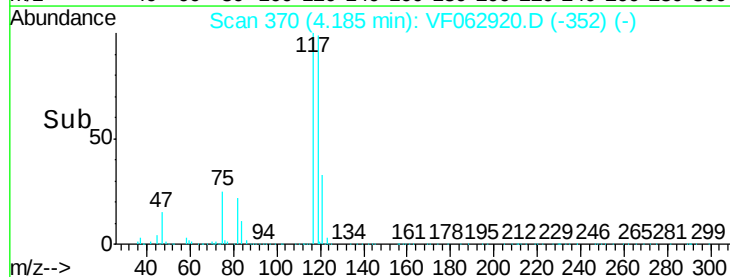
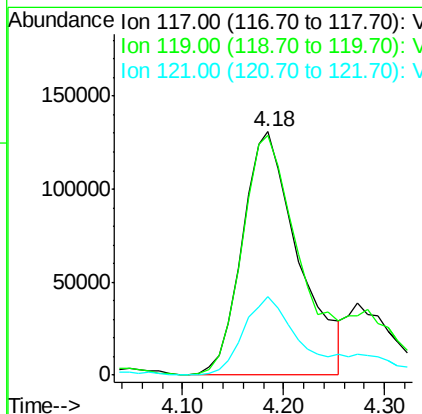
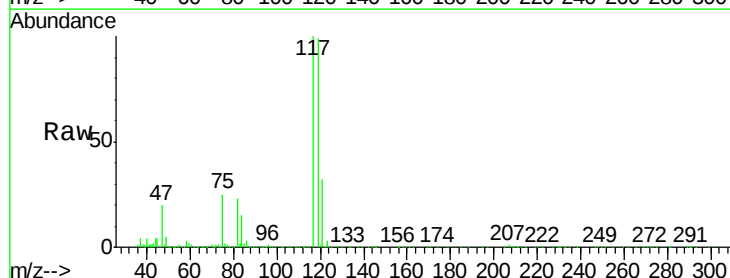
RT: 4.18 min Scan# 370

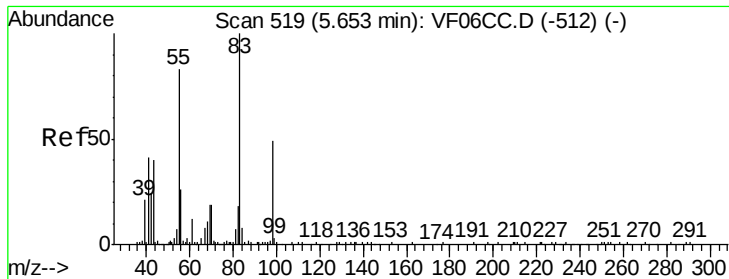
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	117	Resp:	502827
Ion Ratio	Lower	Upper	
117	100		
119	98.5	78.2	117.2
121	32.5	28.2	42.2





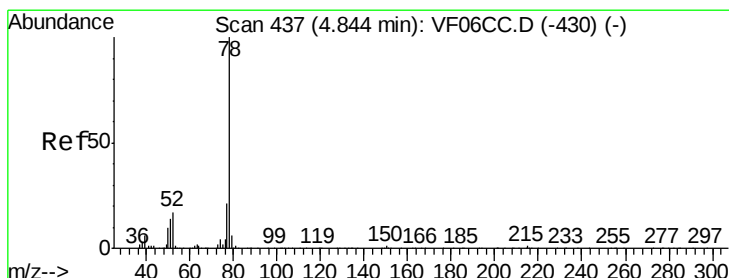
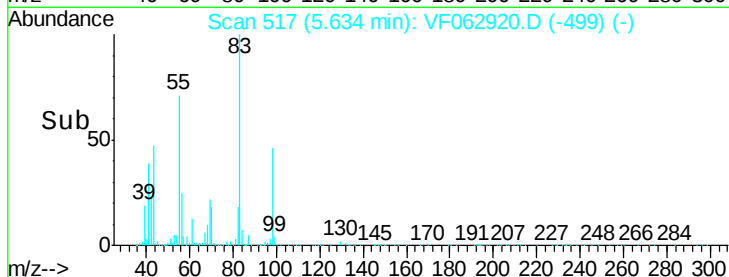
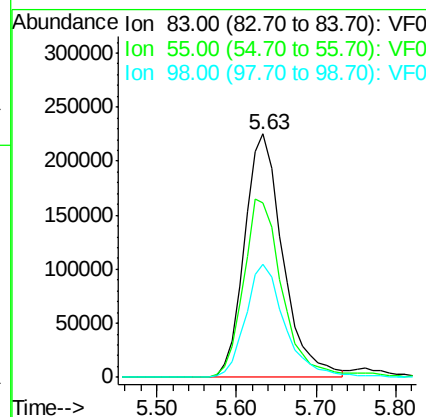
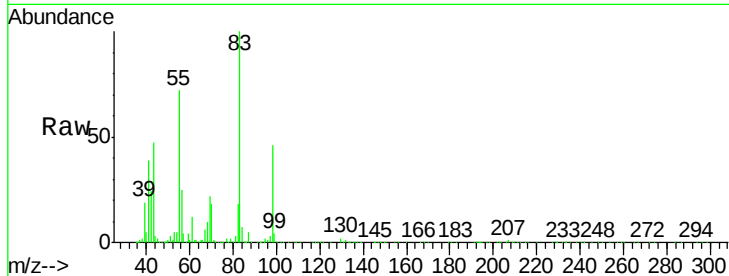
#39
Methvlcvclohexane
Concen: 48.203 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.5	61.6	92.4
98	46.2	37.4	56.2

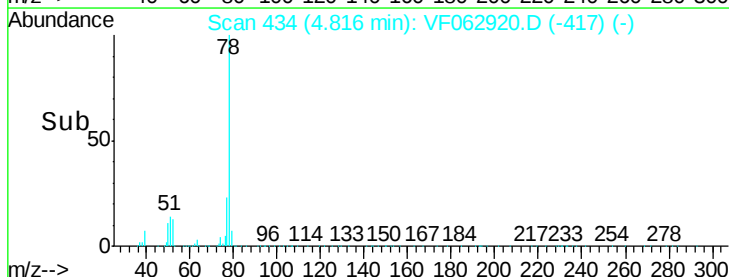
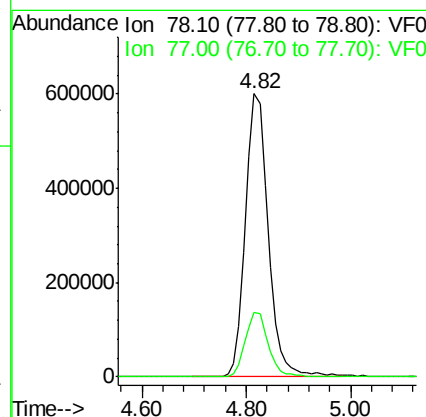
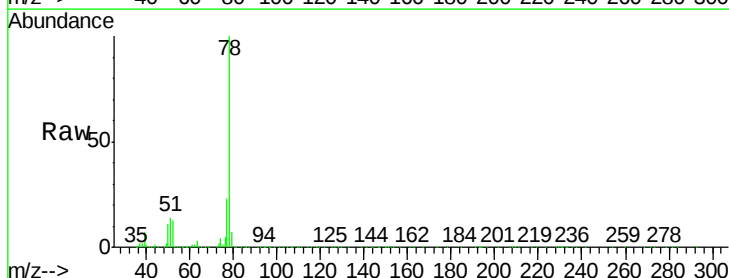
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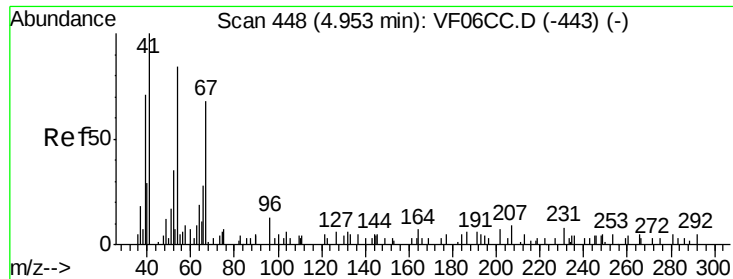
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6/13/2019 11:32:50 AM



#40
Benzene
Concen: 48.422 ug/l
RT: 4.82 min Scan# 434
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.9	28.3





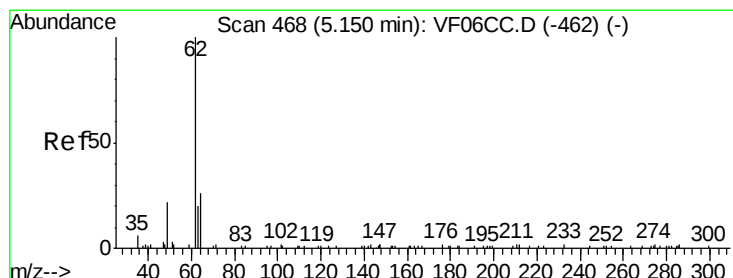
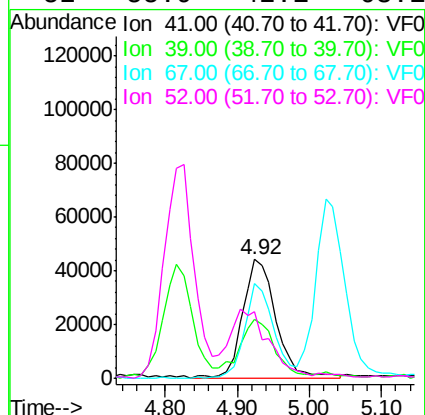
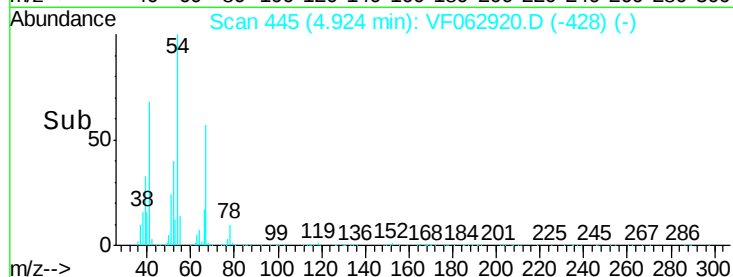
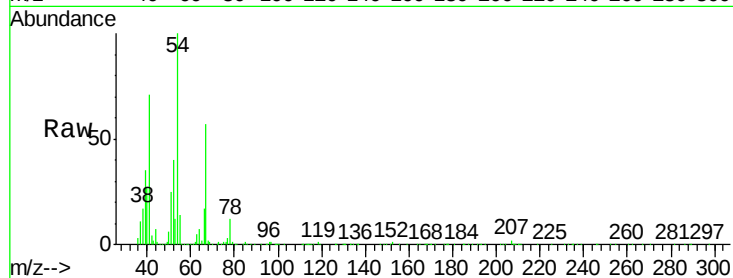
#41
Methacrylonitrile
Concen: 53.419 ug/l
RT: 4.92 min Scan# 445
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		141627		
39	49.8	42.0	63.0		
67	80.2	61.4	92.0		
52	55.9	42.1	63.1		

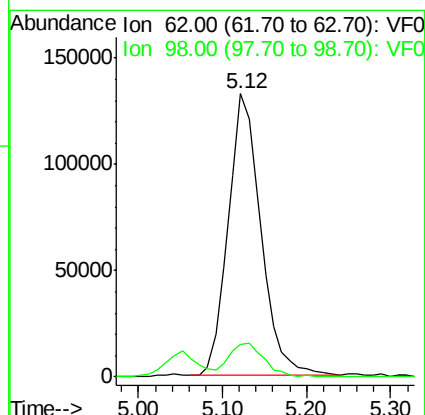
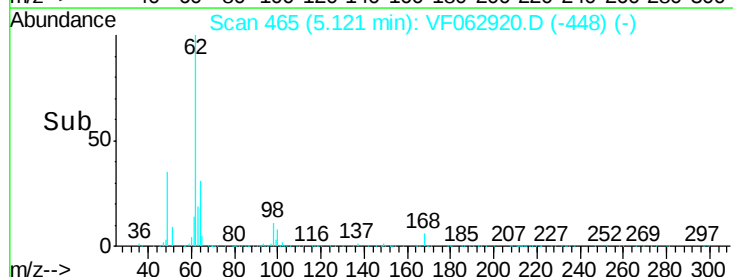
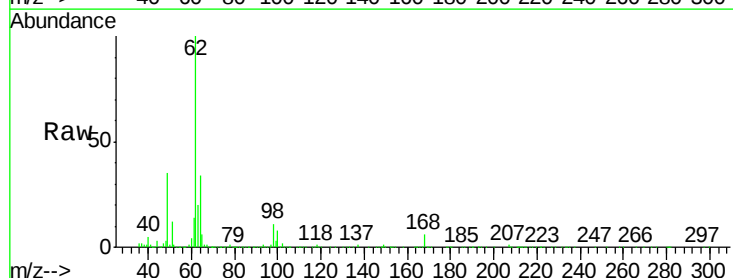
Manual Integrations
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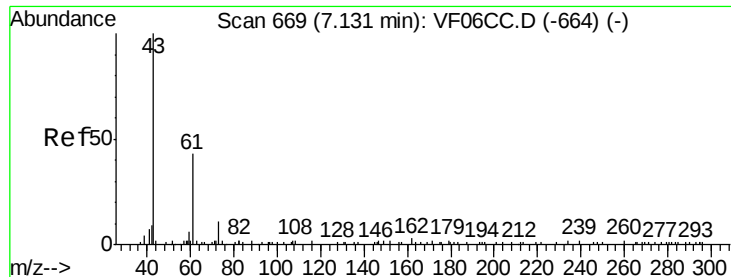
MMDadoda
6/13/2019 11:32:50 AM



#42
1,2-Dichloroethane
Concen: 51.660 ug/l
RT: 5.12 min Scan# 465
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		356750		
98	11.3	0.0	24.0		





#43

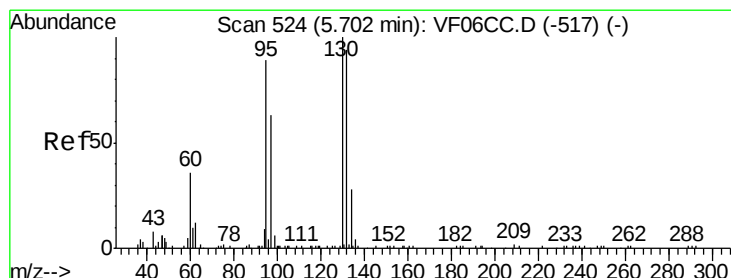
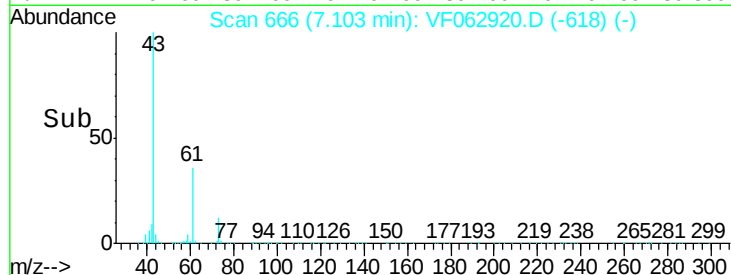
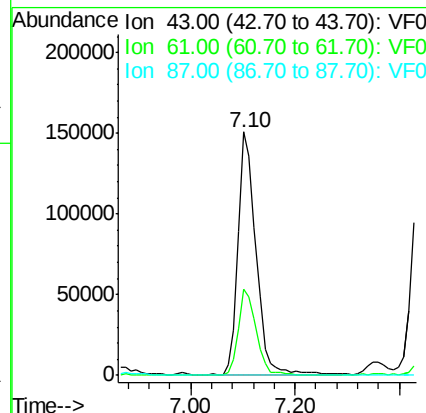
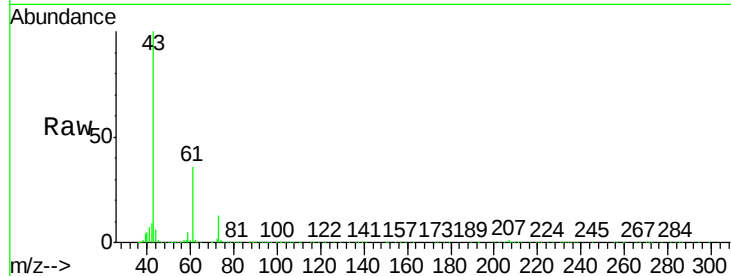
Isopropyl Acetate
 Concen: 56.086 ug/l
 RT: 7.10 min Scan# 666
 Delta R.T. -0.03 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.6	29.8	44.6
87	0.3	0.3	0.5

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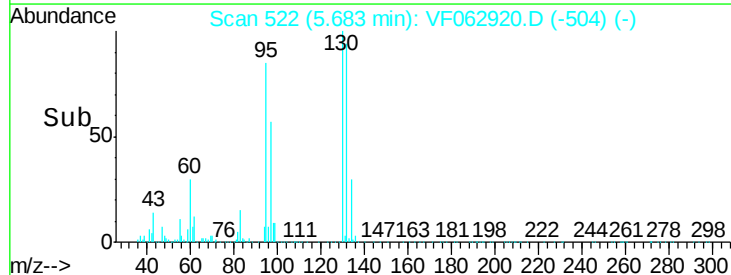
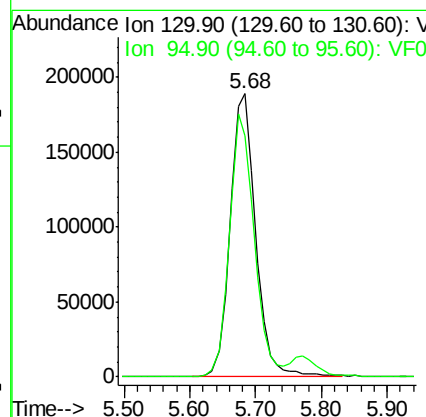
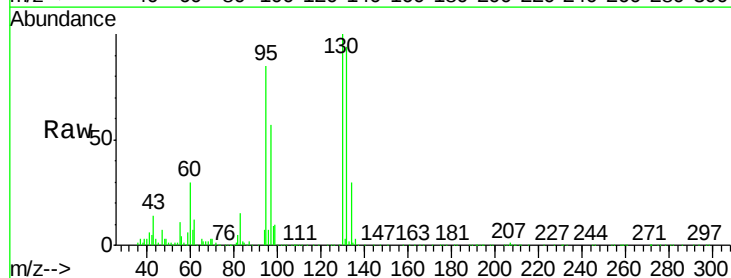
MMDadoda
 6/13/2019 11:32:50 AM

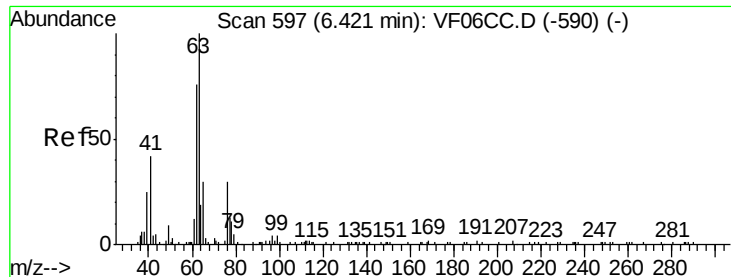


#44

Trichloroethene
 Concen: 50.198 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. -0.02 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
130	100		
95	85.0	0.0	188.2





#45

1,2-Dichloropropane

Concen: 49.823 ug/l

RT: 6.40 min Scan# 595

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 453971

Ion Ratio Lower Upper

63 100

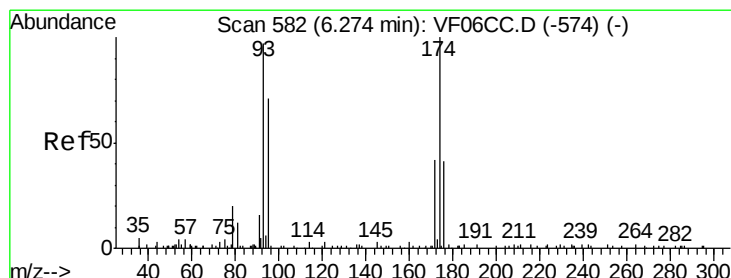
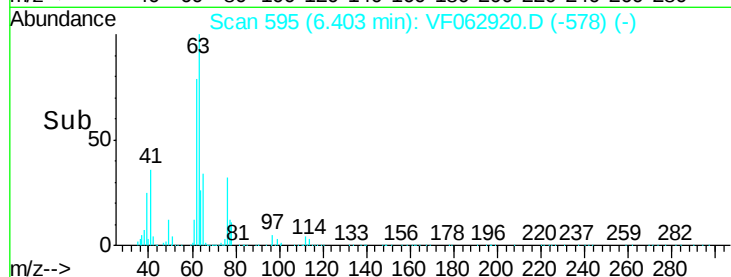
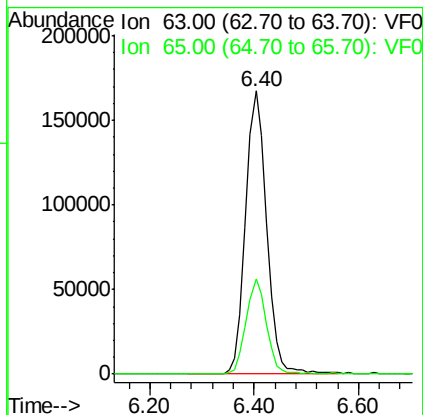
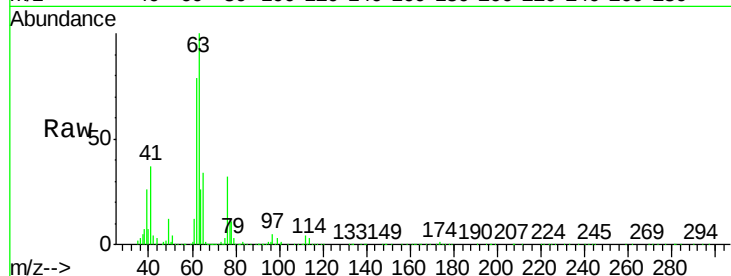
65 33.6 24.2 36.2

Manual Integrations

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6/13/2019 11:32:50 AM



#46

Dibromomethane

Concen: 51.506 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

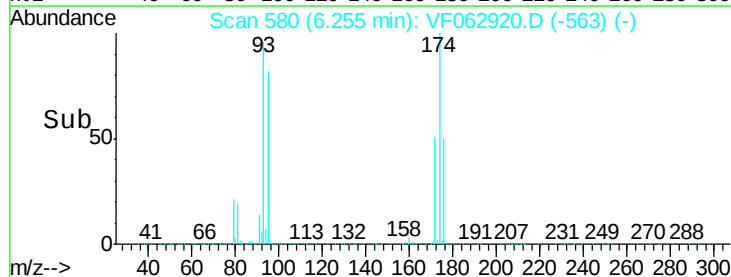
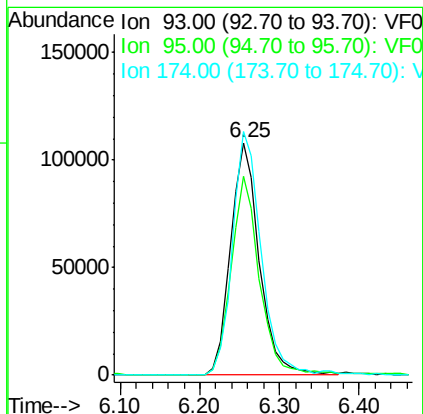
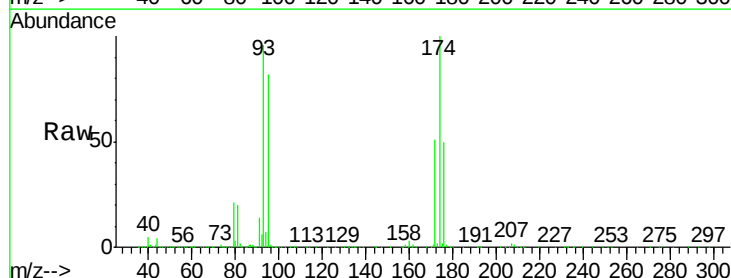
Tgt Ion: 93 Resp: 274001

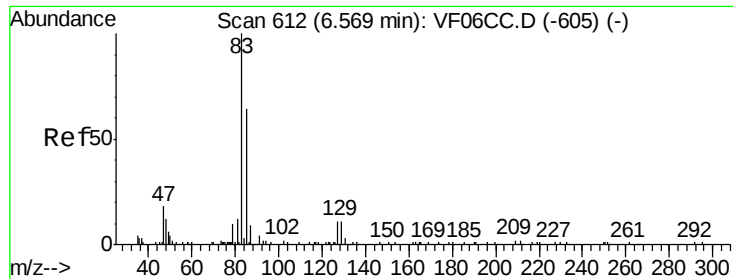
Ion Ratio Lower Upper

93 100

95 85.7 67.9 101.9

174 104.7 85.0 127.4





#47

Bromodichloromethane

Concen: 51.863 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

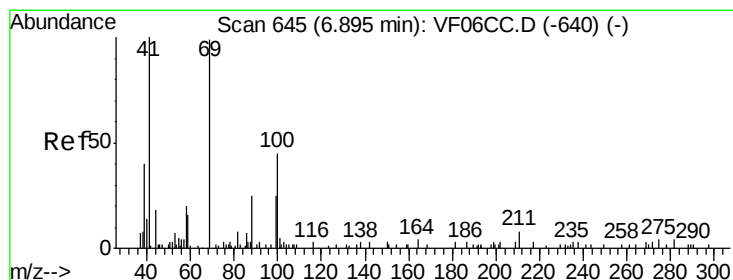
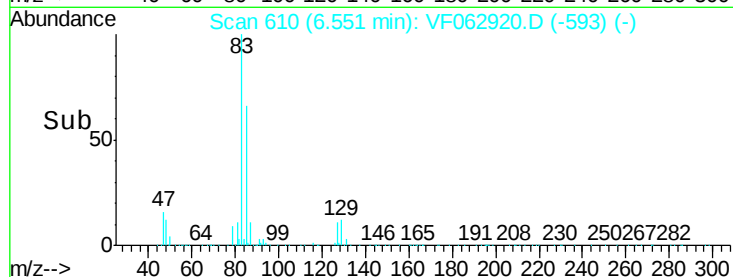
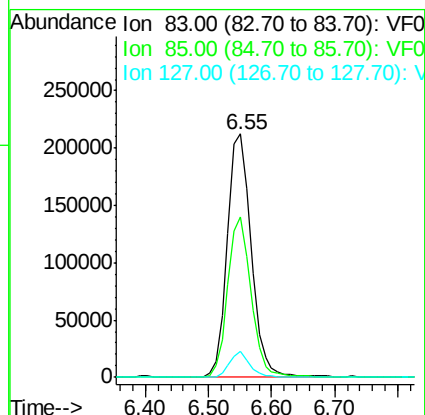
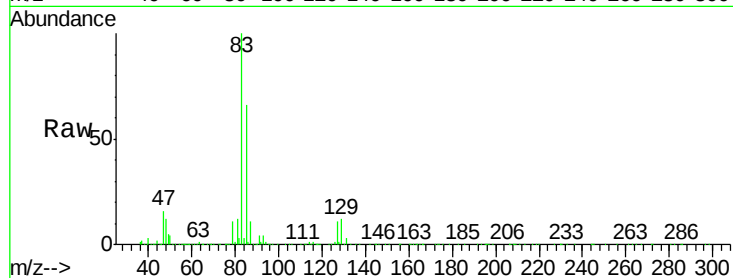
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	561883
Ion Ratio	Lower	Upper	
83	100		
85	65.9	54.2	81.4
127	10.7	7.0	10.4

Manual Integrations
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6/13/2019 11:32:50 AM



#48

Methyl methacrylate

Concen: 53.421 ug/l

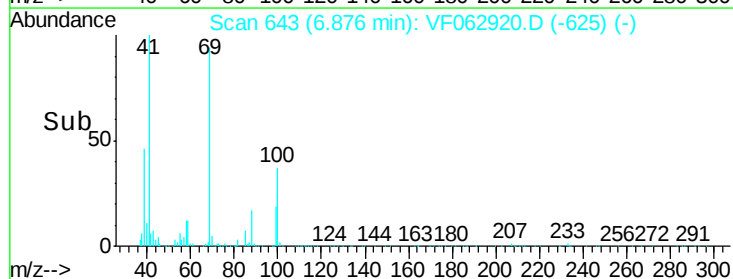
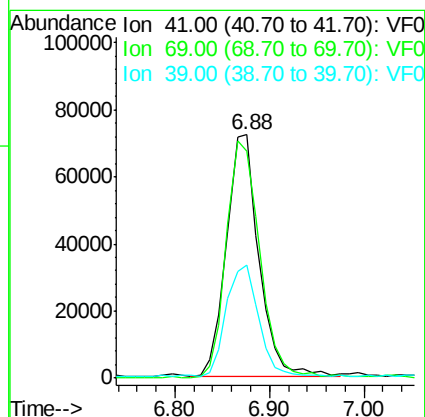
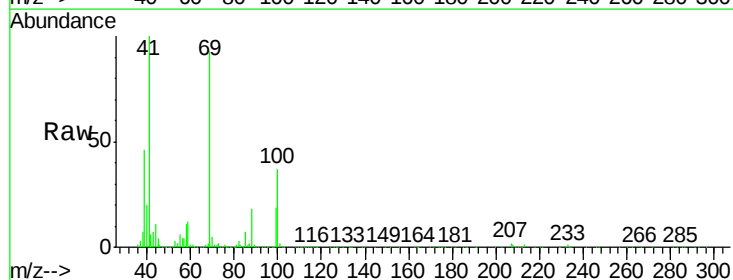
RT: 6.88 min Scan# 643

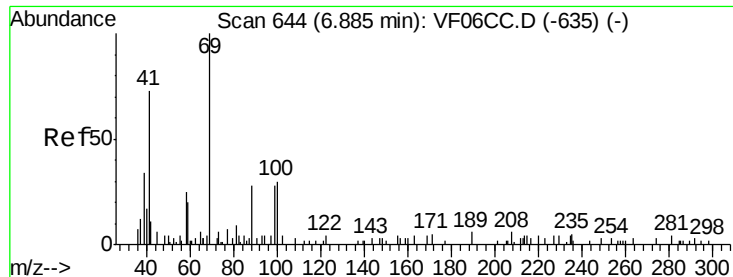
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	41	Resp:	173446
Ion Ratio	Lower	Upper	
41	100		
69	93.0	79.4	119.2
39	46.3	39.8	59.6





#49

1,4-Dioxane

Concen: 1162.833 ug/l

RT: 6.86 min Scan# 641

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

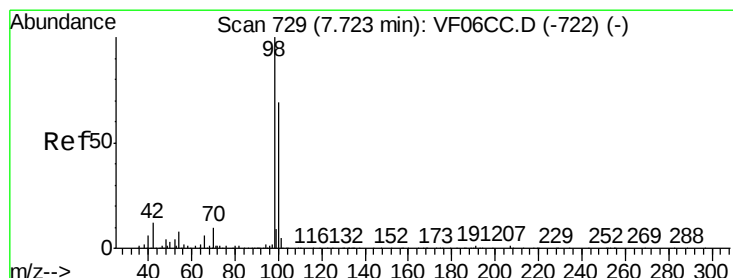
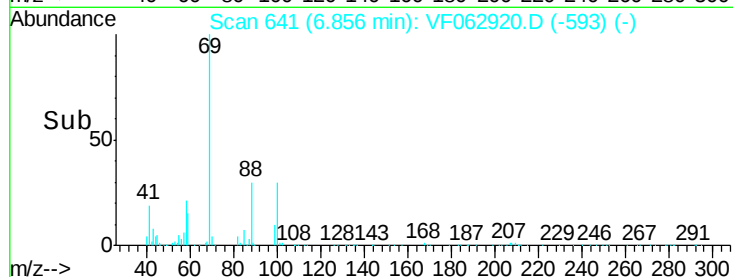
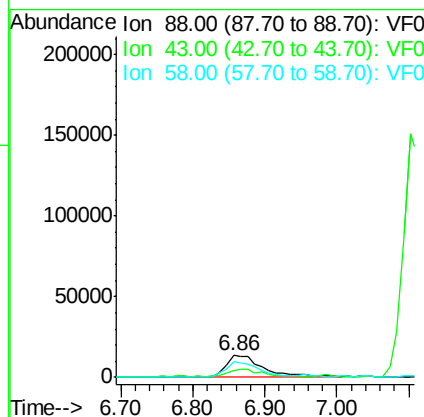
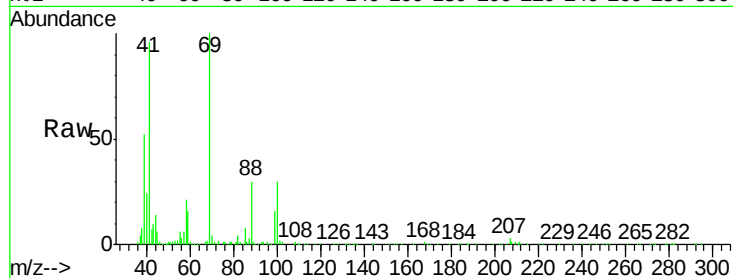
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	49765
Ion Ratio	Lower	Upper	
88	100		
43	32.5	34.8	52.2#
58	72.0	59.9	89.9

Manual Integrations
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#50

Toluene-d8

Concen: 55.326 ug/l

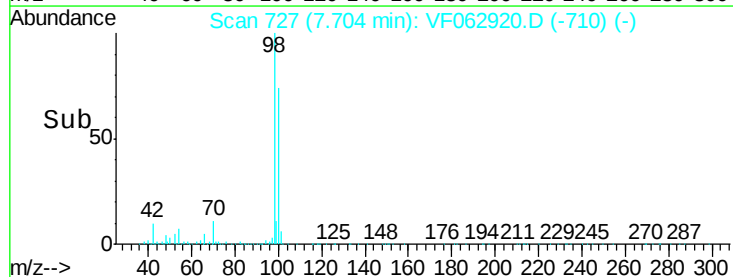
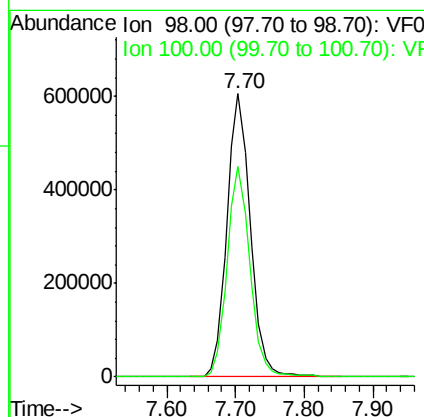
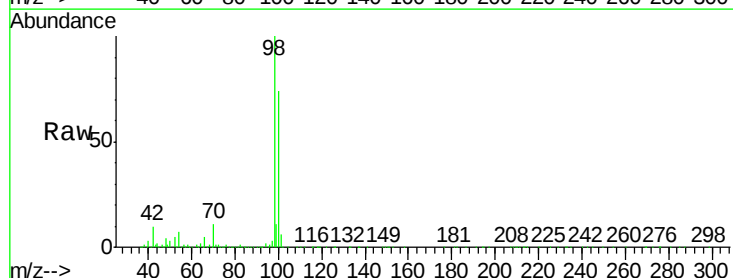
RT: 7.70 min Scan# 727

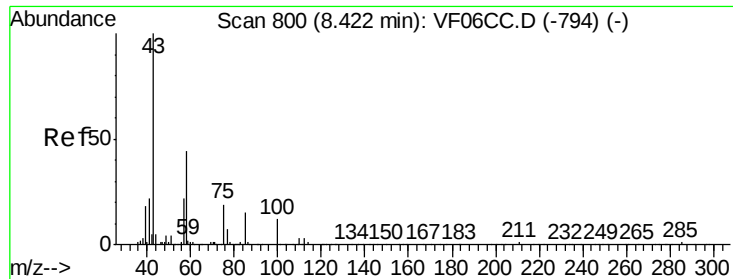
Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	98	Resp:	1432735
Ion Ratio	Lower	Upper	
98	100		
100	74.5	59.8	89.8





#51

4-Methyl-2-Pentanone

Concen: 263.873 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1186850

Ion Ratio Lower Upper

43 100

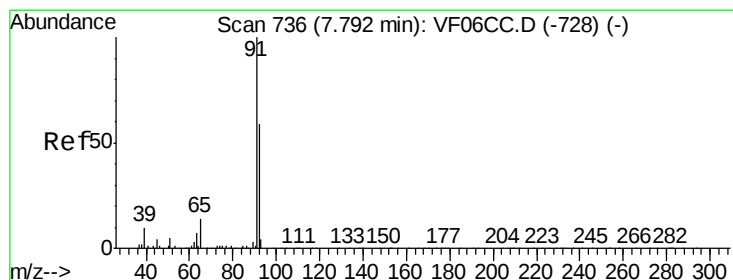
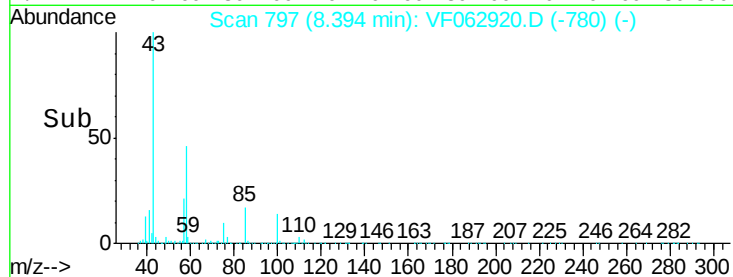
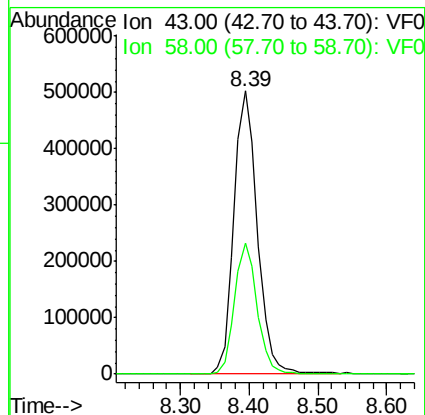
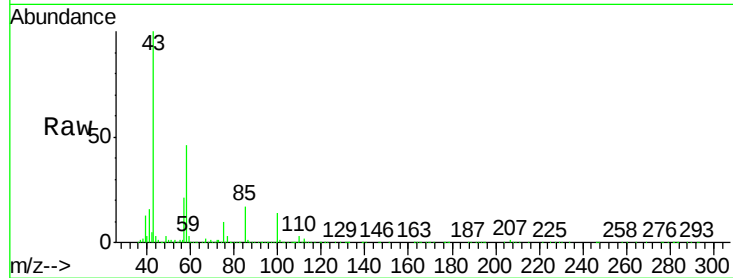
58 46.2 35.5 53.3

Manual Integrations

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#52

Toluene

Concen: 50.553 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.03 min

Lab File: VF062920.D

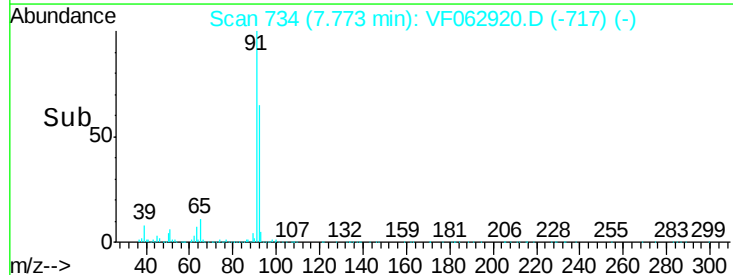
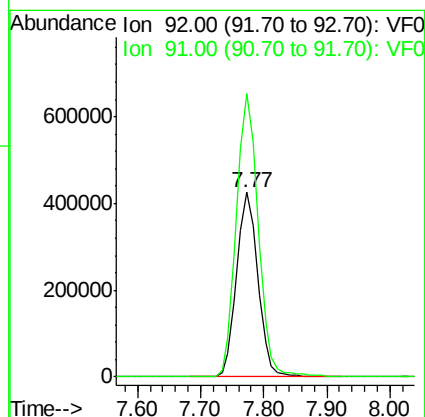
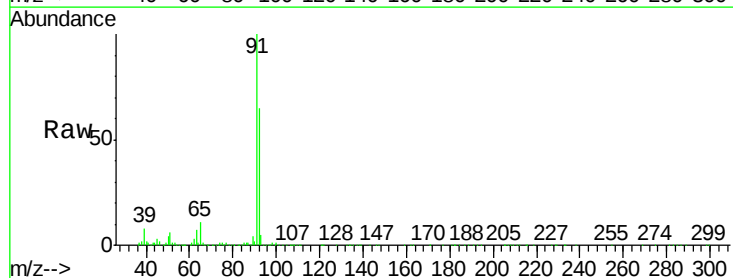
Acq: 12 Jun 2019 10:59

Tgt Ion: 92 Resp: 988644

Ion Ratio Lower Upper

92 100

91 153.6 123.2 184.8





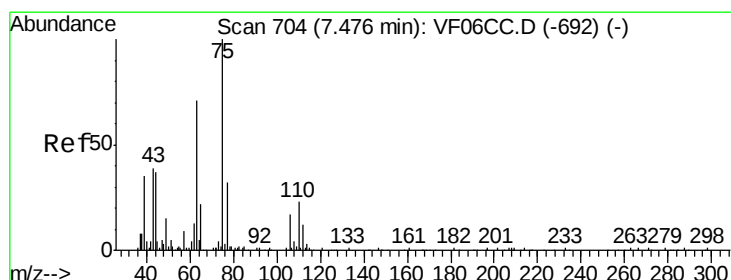
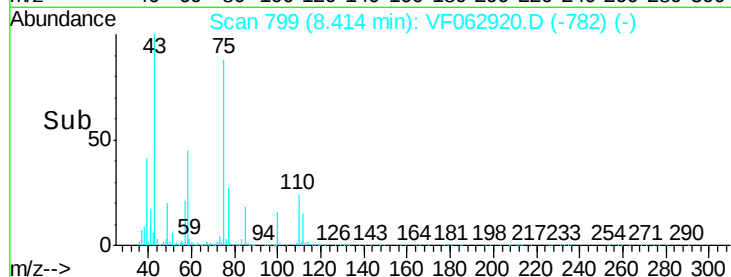
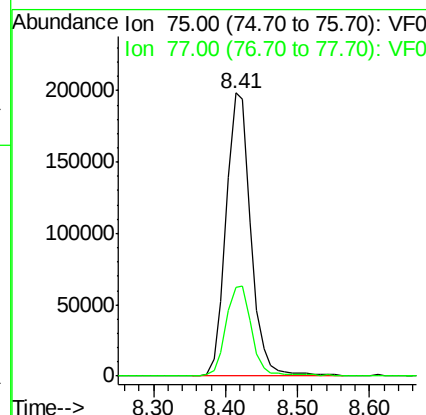
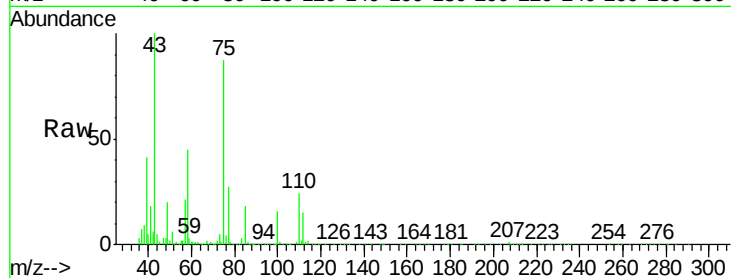
#53
t-1,3-Dichloropropene
Concen: 52.004 ug/l
RT: 8.41 min Scan# 799
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.7	38.5

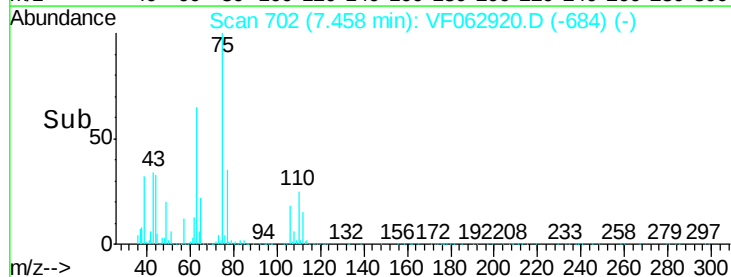
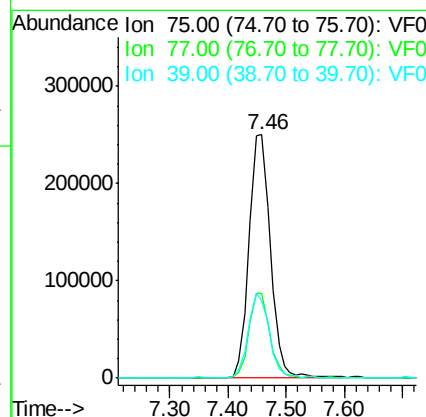
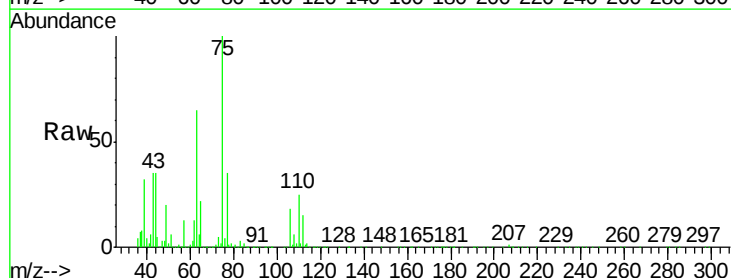
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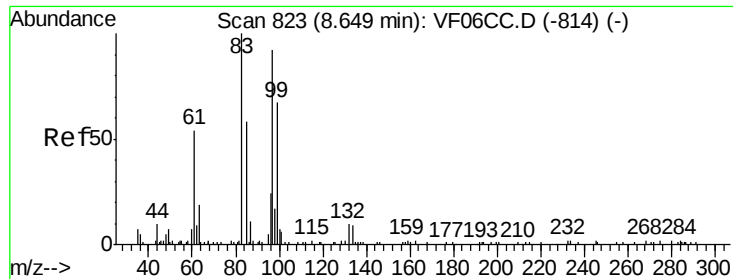
MMDadoda
6/13/2019 11:32:50 AM



#54
cis-1,3-Dichloropropene
Concen: 49.446 ug/l
RT: 7.46 min Scan# 702
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.8	25.8	38.8
39	31.7	28.4	42.6





#55

1,1,2-Trichloroethane

Concen: 52.400 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

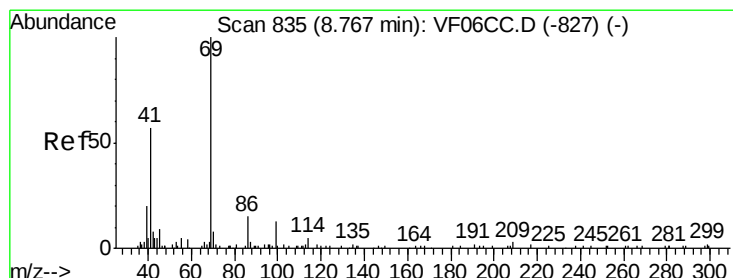
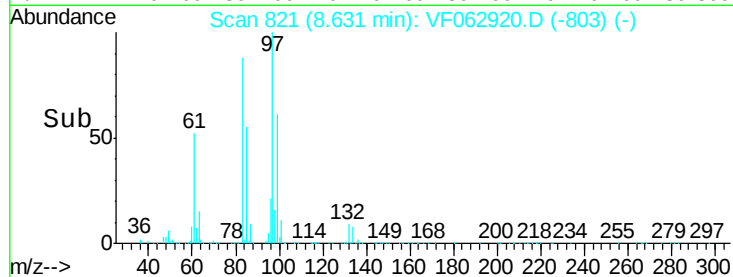
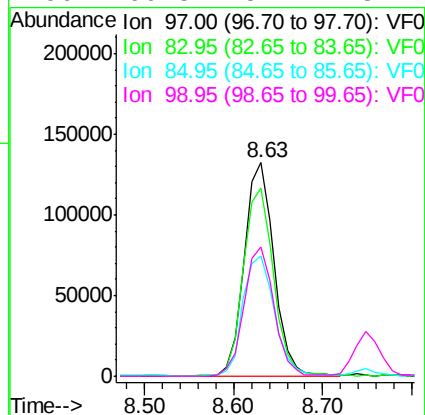
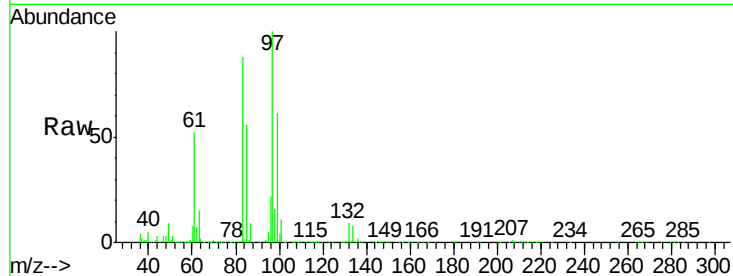
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	306148
Ion	Ratio	Lower	Upper
97	100		
83	88.4	72.0	108.0
85	56.3	47.5	71.3
99	60.5	54.1	81.1

Manual Integrations
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#56

Ethyl methacrylate

Concen: 53.030 ug/l

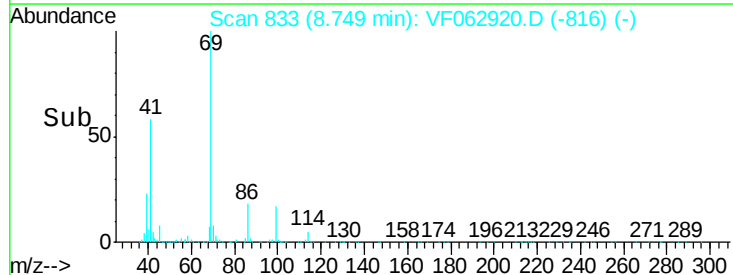
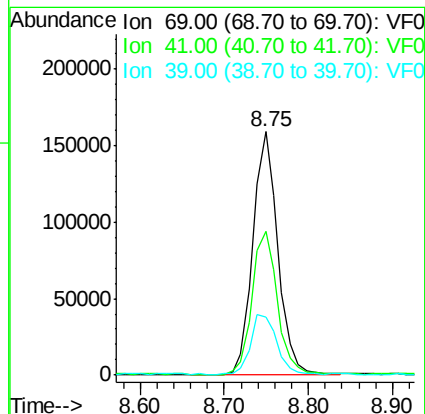
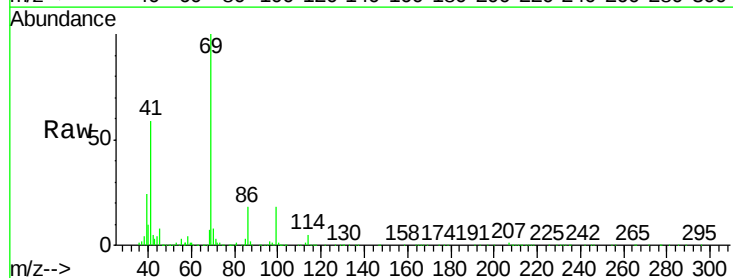
RT: 8.75 min Scan# 833

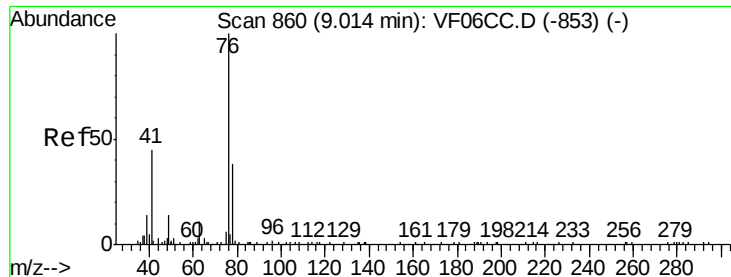
Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	69	Resp:	332434
Ion	Ratio	Lower	Upper
69	100		
41	59.0	46.6	69.8
39	23.8	19.6	29.4





#57

1,3-Dichloropropane

Concen: 54.884 ug/l

RT: 8.99 min Scan# 857

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 523644

Ion Ratio Lower Upper

76 100

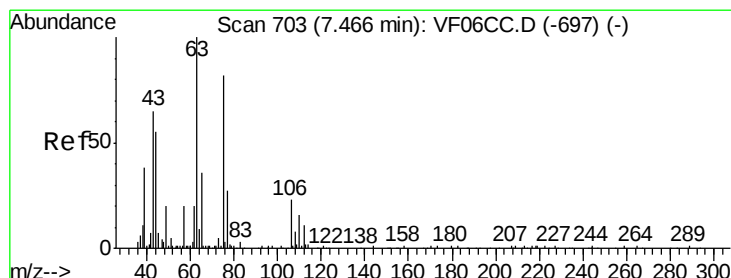
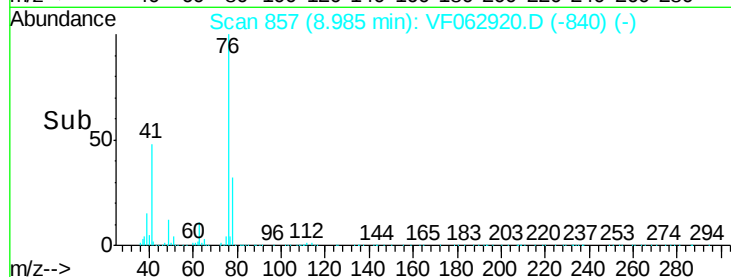
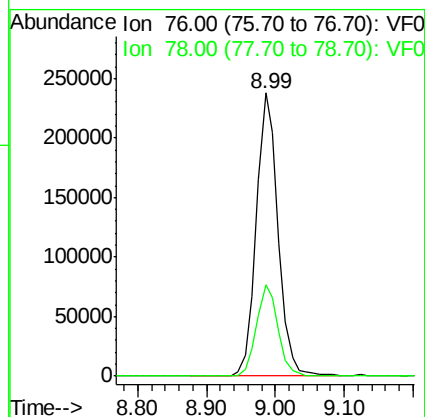
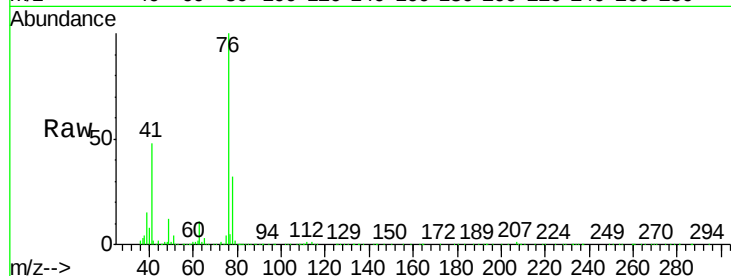
78 32.1 26.8 40.2

Manual Integrations

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6/13/2019 11:32:50 AM



#58

2-Chloroethyl Vinyl ether

Concen: 280.203 ug/l

RT: 7.45 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF062920.D

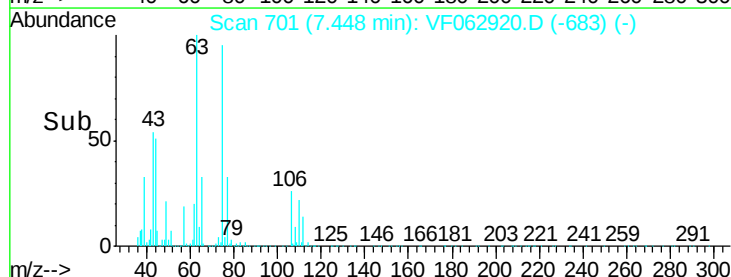
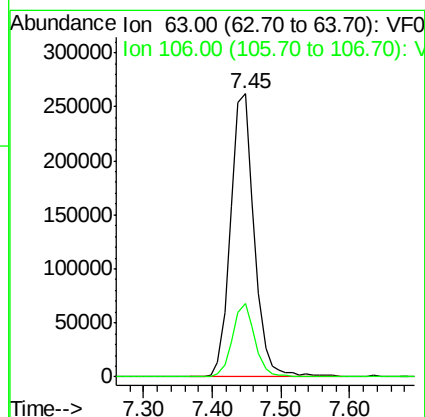
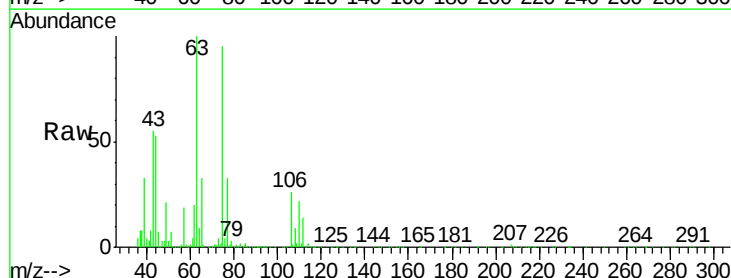
Acq: 12 Jun 2019 10:59

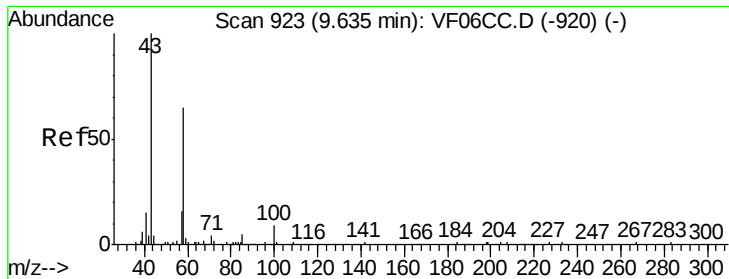
Tgt Ion: 63 Resp: 613892

Ion Ratio Lower Upper

63 100

106 26.2 19.5 29.3





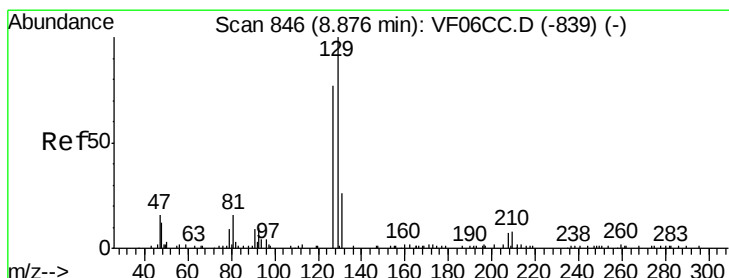
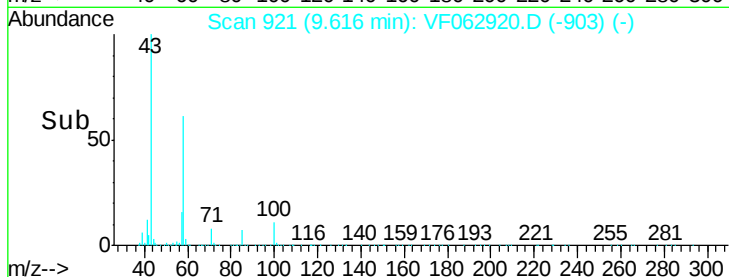
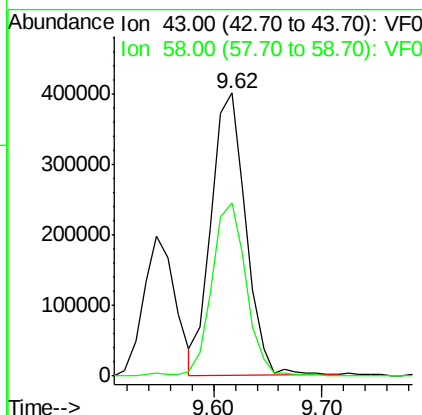
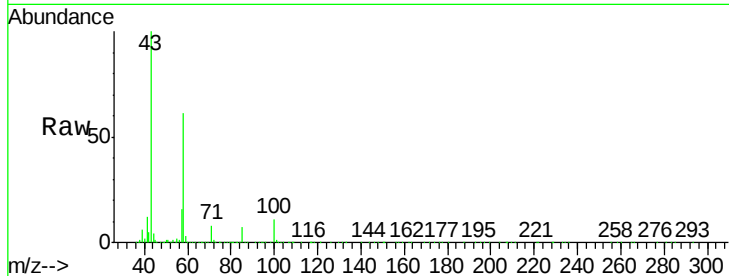
#59
2-Hexanone
Concen: 275.975 ug/l
RT: 9.62 min Scan# 921
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 884746
Ion Ratio Lower Upper
43 100
58 61.0 29.3 87.9

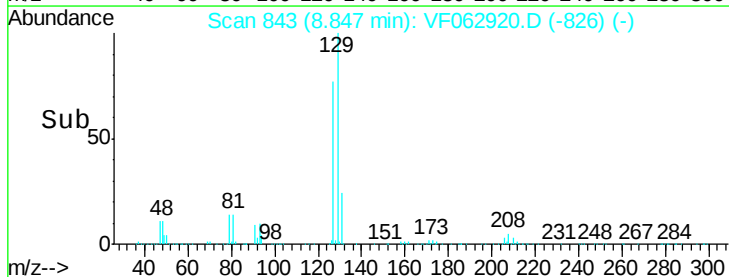
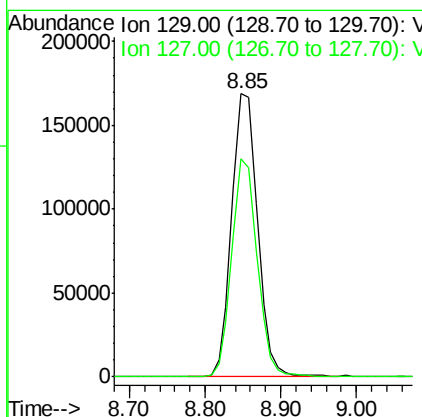
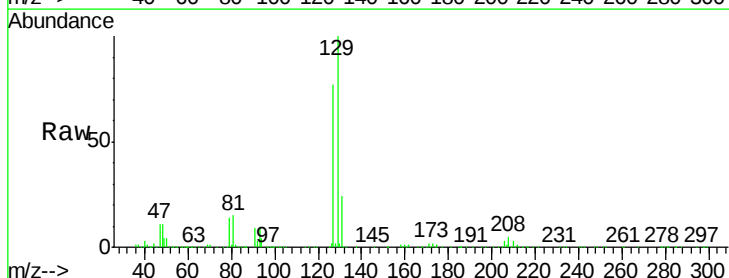
Manual Integrations
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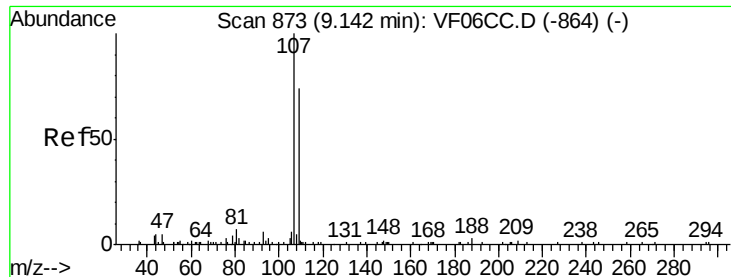
MMDadoda
6/13/2019 11:32:50 AM



#60
Dibromochloromethane
Concen: 55.382 ug/l
RT: 8.85 min Scan# 843
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion: 129 Resp: 400595
Ion Ratio Lower Upper
129 100
127 77.0 37.1 111.3





#61

1,2-Dibromoethane

Concen: 52.539 ug/l

RT: 9.12 min Scan# 871

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 318792

Ion Ratio Lower Upper

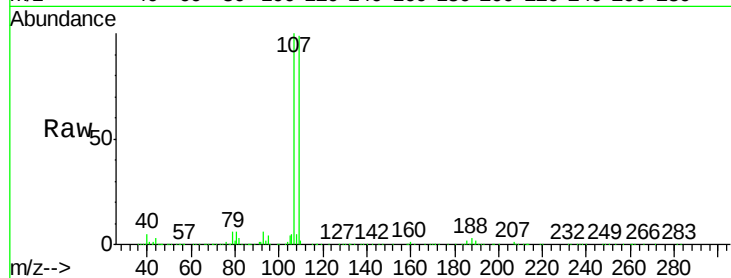
107 100

109 98.8 78.1 117.1

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6/13/2019 11:32:50 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

150000

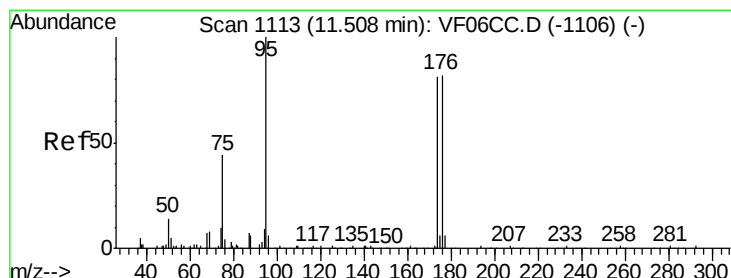
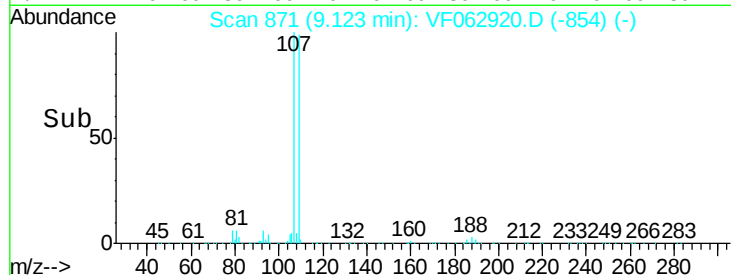
100000

50000

0

9.00 9.10 9.20 9.30

Time-->



#62

4-Bromofluorobenzene

Concen: 53.464 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

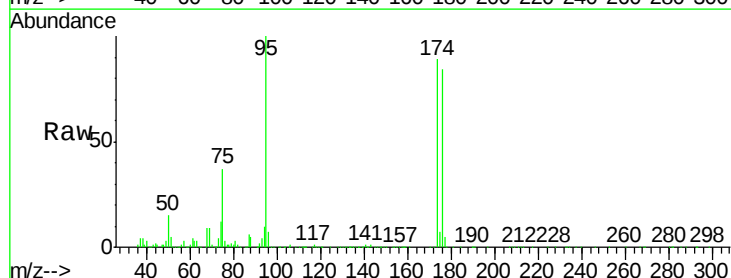
Tgt Ion: 95 Resp: 498019

Ion Ratio Lower Upper

95 100

174 88.7 0.0 170.6

176 83.6 0.0 170.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

400000

300000

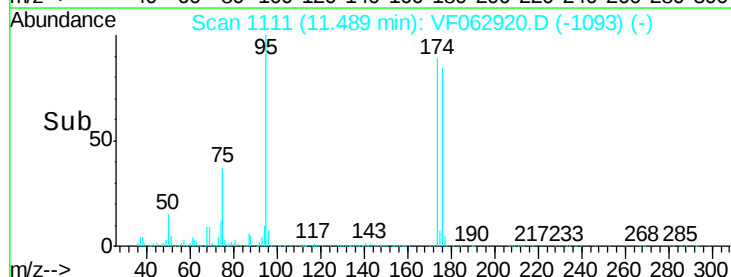
200000

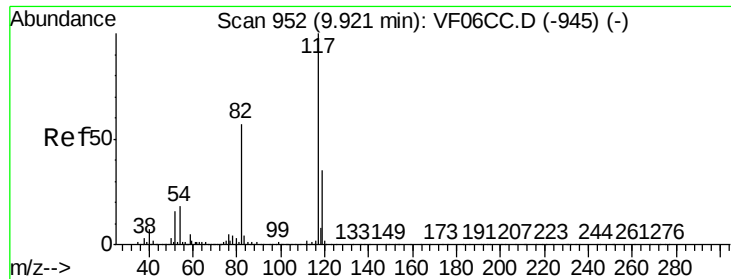
100000

0

11.40 11.50 11.60

Time-->





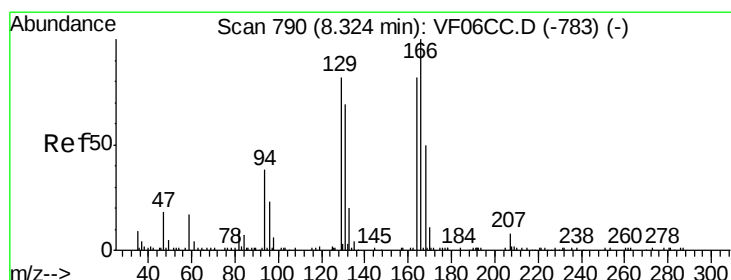
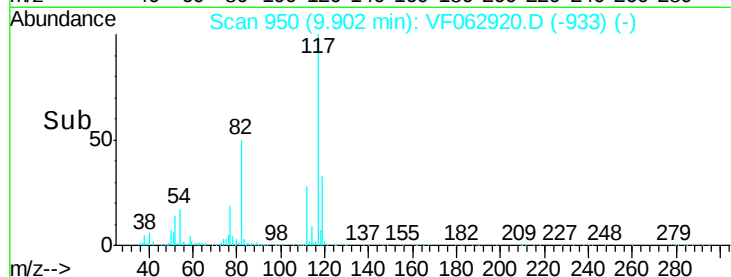
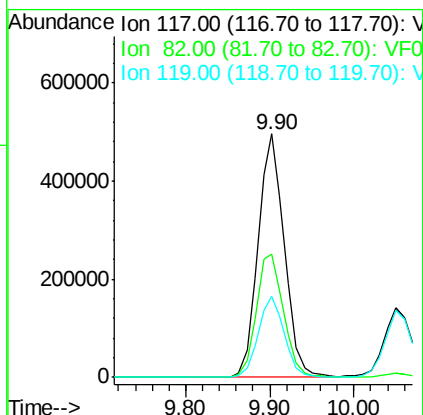
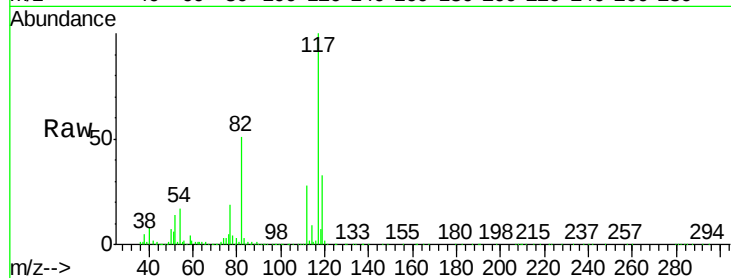
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.90 min Scan# 950
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.6	42.4	63.6
119	33.2	27.1	40.7

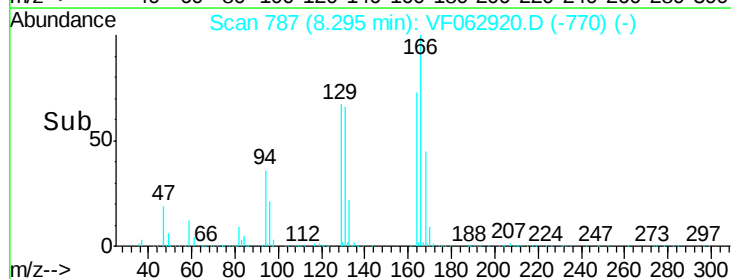
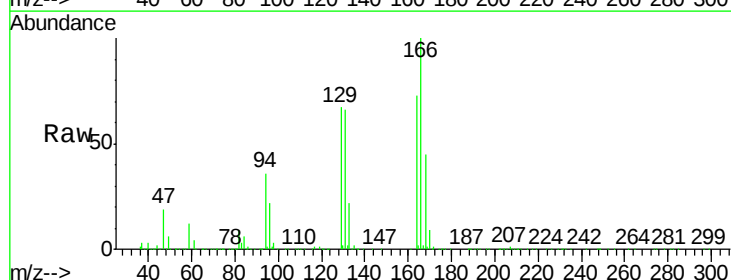
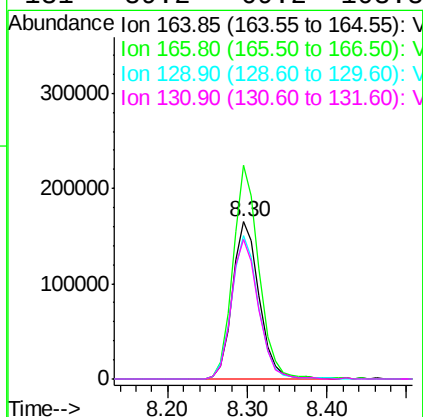
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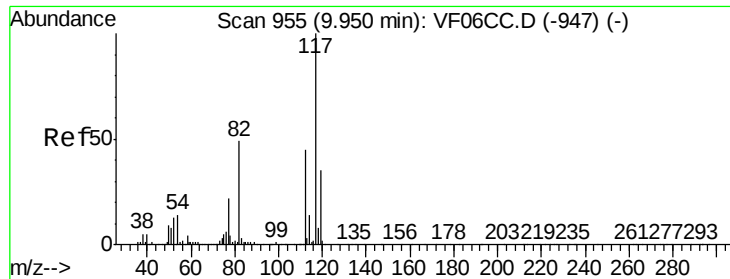
MMDadoda
6/13/2019 11:32:50 AM



#64
Tetrachloroethene
Concen: 46.272 ug/l
RT: 8.30 min Scan# 787
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	136.1	99.1	148.7
129	91.5	69.5	104.3
131	89.2	69.2	103.8





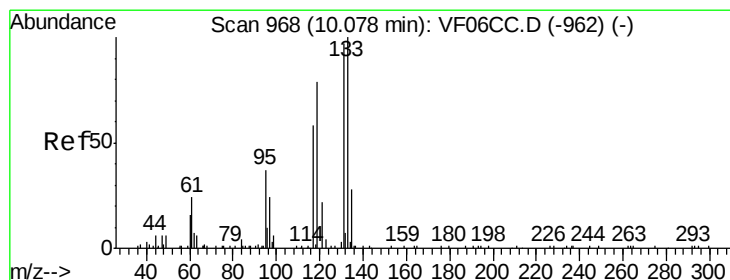
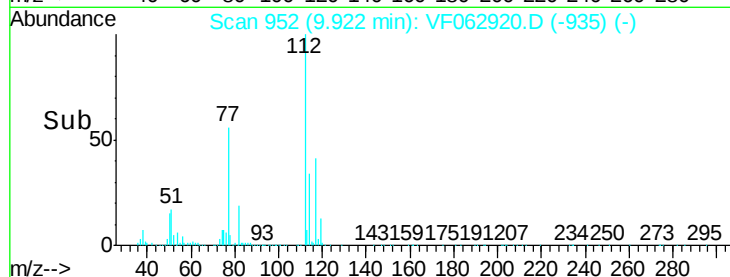
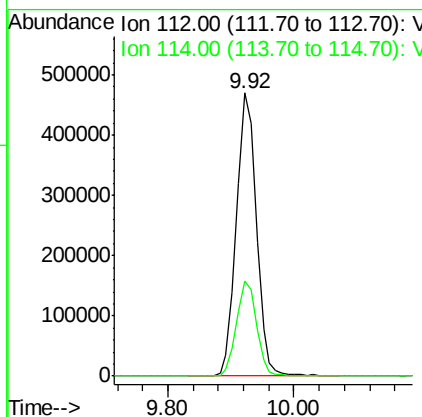
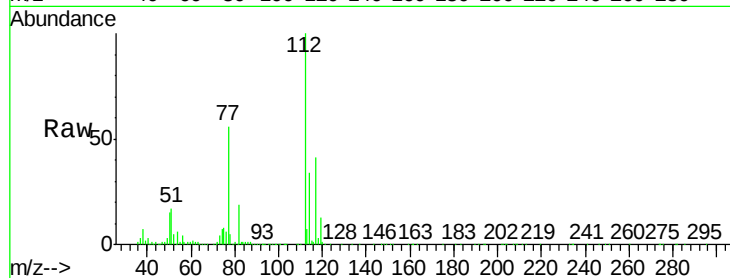
#65
Chlorobenzene
Concen: 49.084 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1030041
Ion Ratio Lower Upper
112 100
114 33.8 27.4 41.0

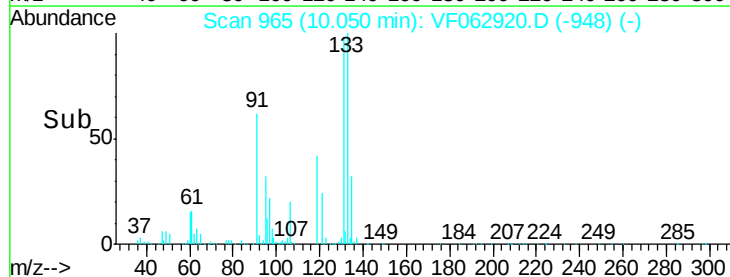
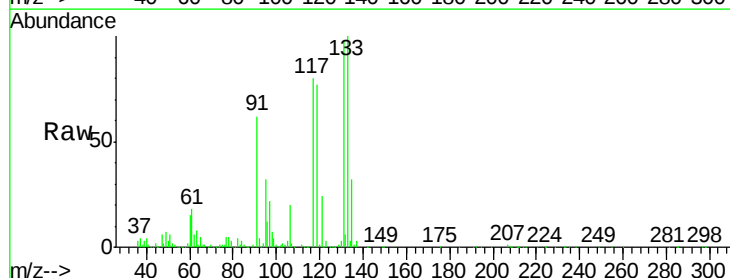
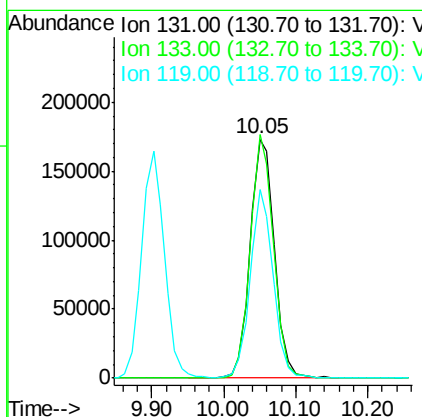
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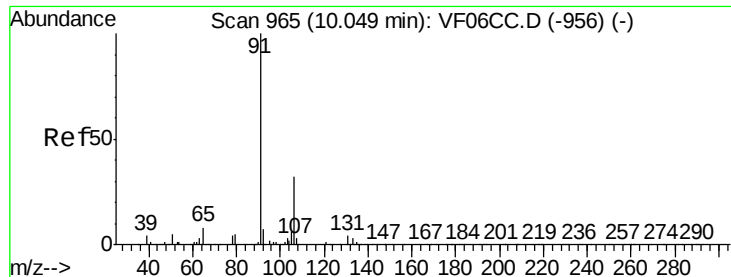
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 48.614 ug/l
RT: 10.05 min Scan# 965
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion:131 Resp: 406295
Ion Ratio Lower Upper
131 100
133 101.9 48.9 146.7
119 78.8 38.0 114.0





#67

Ethyl Benzene

Concen: 47.193 ug/l

RT: 10.02 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1699518

Ion Ratio Lower Upper

91 100

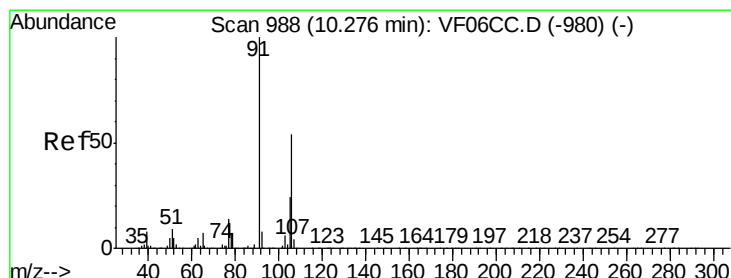
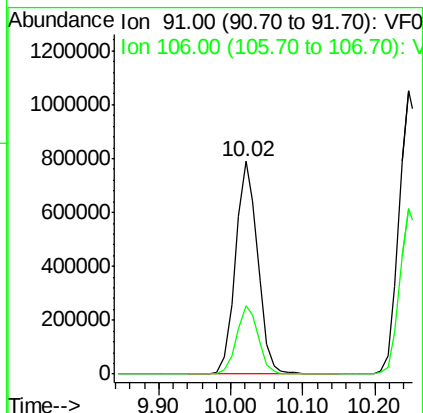
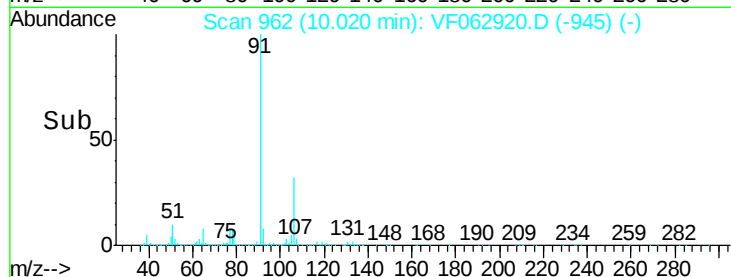
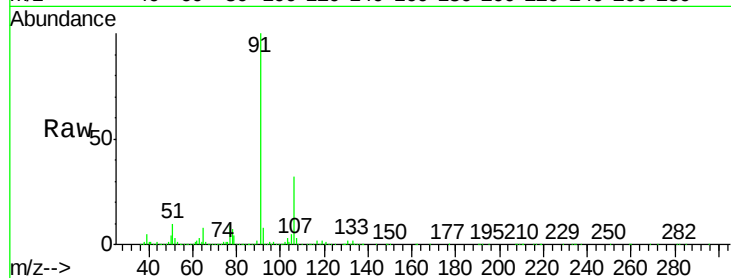
106 32.2 26.0 39.0

Manual Integrations

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#68

m/p-Xylenes

Concen: 93.700 ug/l

RT: 10.25 min Scan# 985

Delta R.T. -0.03 min

Lab File: VF062920.D

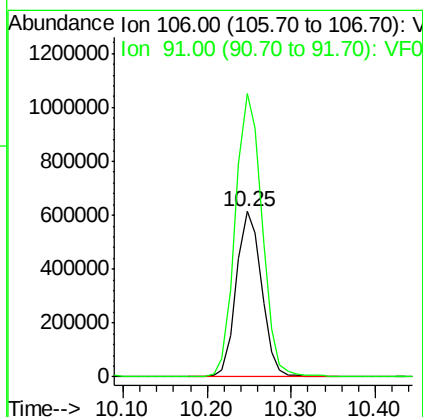
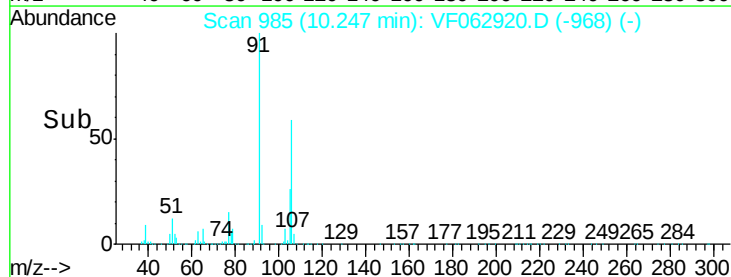
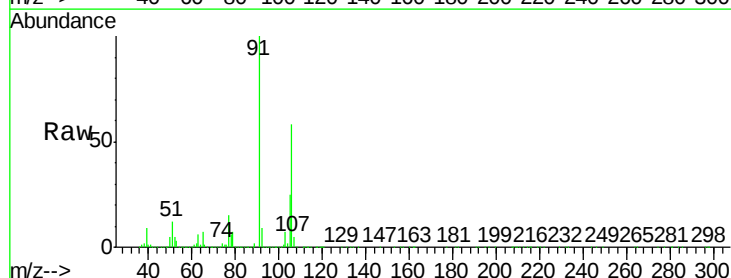
Acq: 12 Jun 2019 10:59

Tgt Ion: 106 Resp: 1291227

Ion Ratio Lower Upper

106 100

91 171.5 136.2 204.4





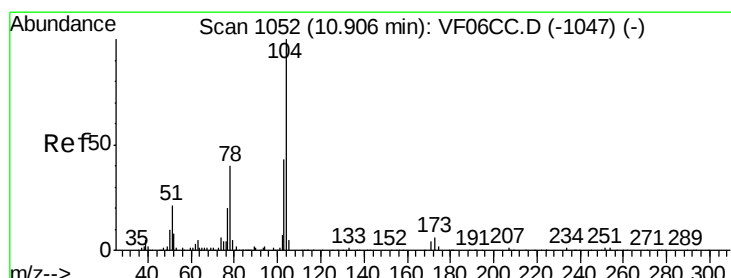
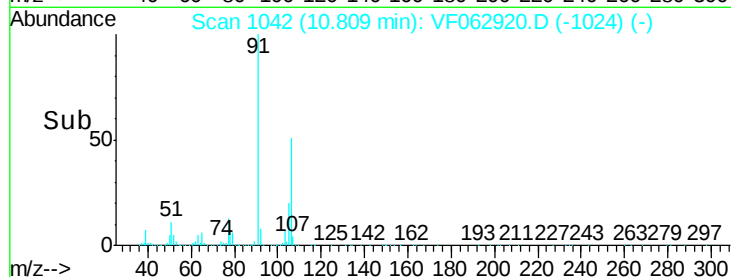
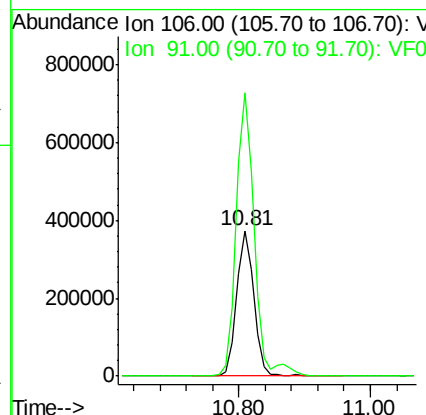
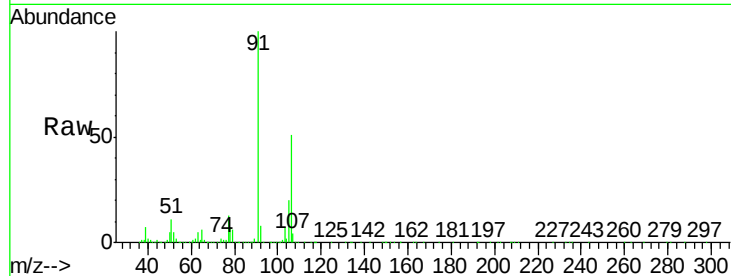
#69
o-Xylene
Concen: 49.355 ug/l
RT: 10.81 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 688612
Ion Ratio Lower Upper
106 100
91 194.4 96.6 289.8

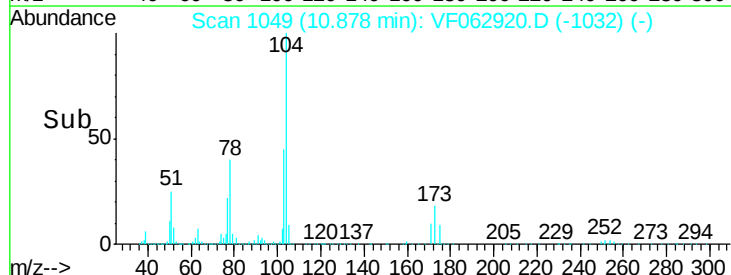
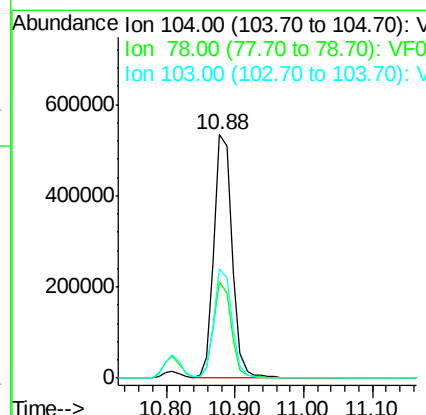
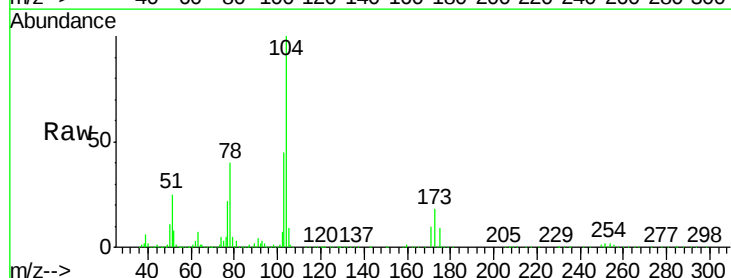
Manual Integrations
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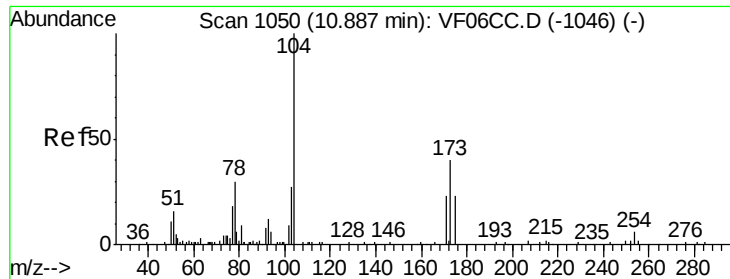
MMDadoda
6/13/2019 11:32:50 AM



#70
Styrene
Concen: 47.860 ug/l
RT: 10.88 min Scan# 1049
Delta R.T. -0.03 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion:104 Resp: 984237
Ion Ratio Lower Upper
104 100
78 39.6 30.8 46.2
103 45.0 35.8 53.6





#71

Bromoform

Concen: 54.624 ug/l

RT: 10.87 min Scan# 1048

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 219005

Ion Ratio Lower Upper

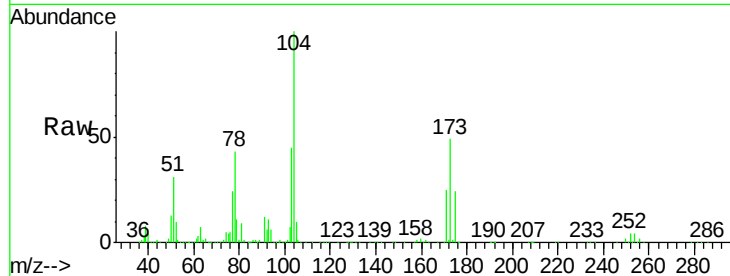
173 100

175 49.4 24.6 74.0

254 0.0 0.1 0.1#

Manual Integrations
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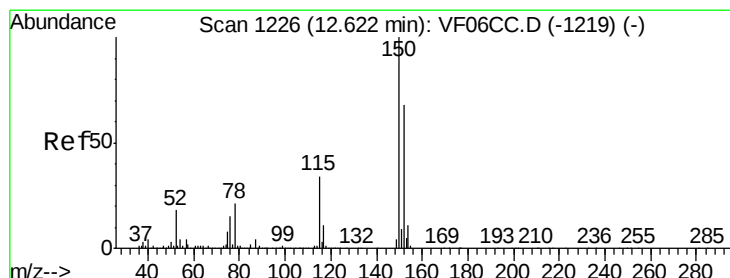
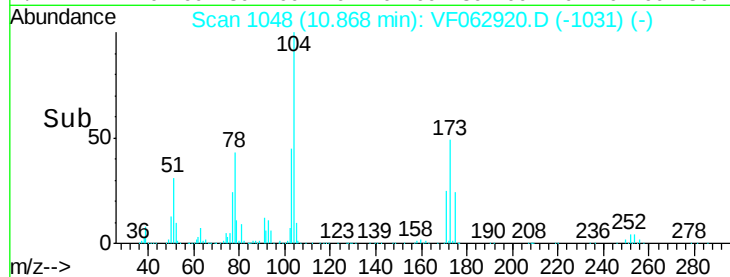
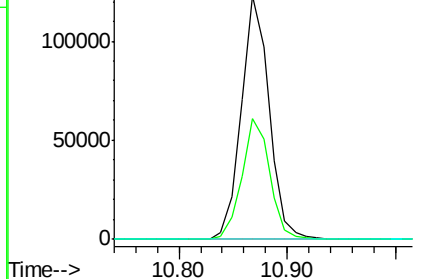
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Abundance Ion 173.00 (172.70 to 173.70): V

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: 12.60 min Scan# 1224

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

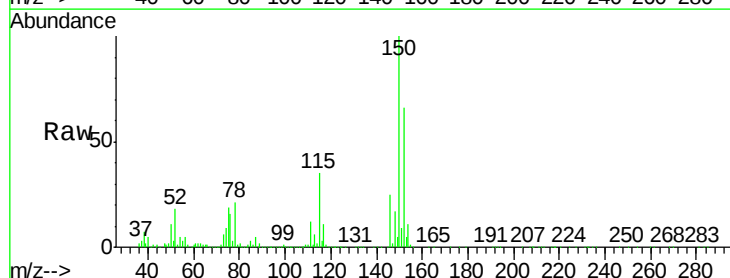
Tgt Ion:152 Resp: 523382

Ion Ratio Lower Upper

152 100

115 53.3 24.6 74.0

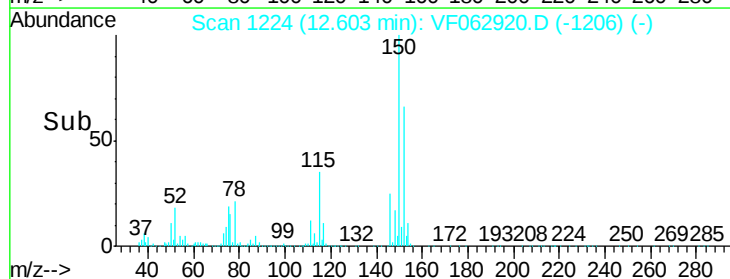
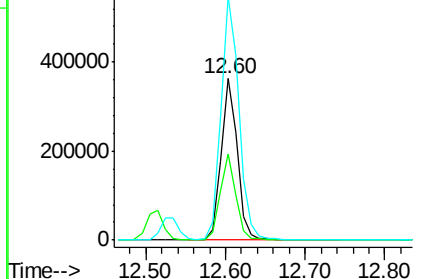
150 151.1 0.0 290.6

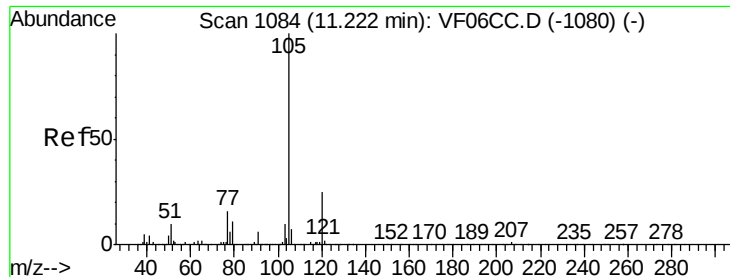


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 47.938 ug/l

RT: 11.20 min Scan# 1082

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1750666

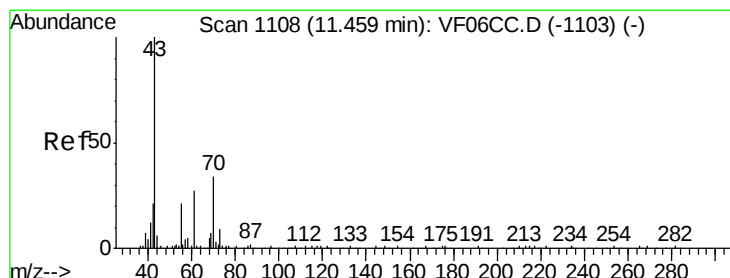
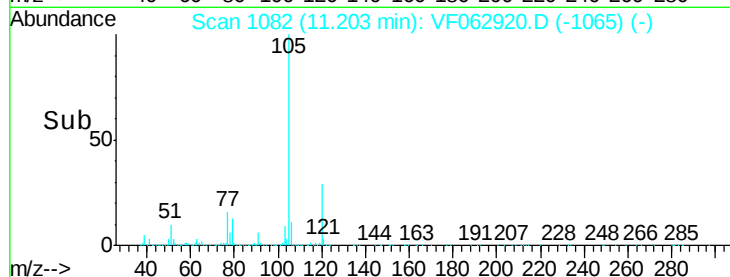
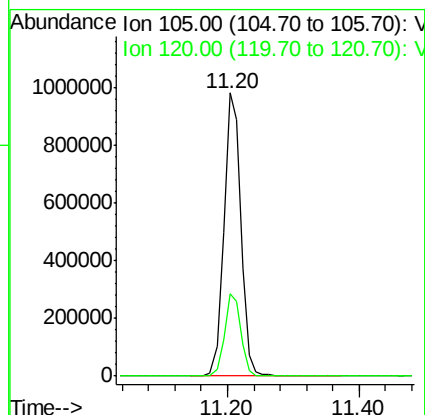
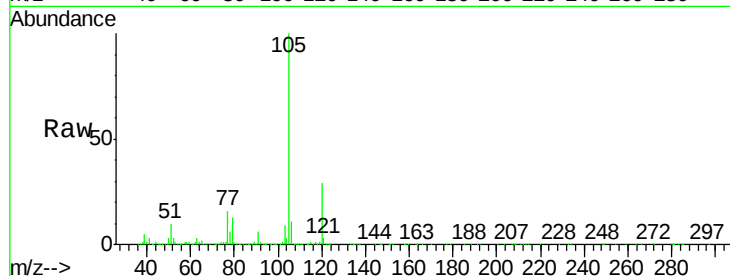
Ion Ratio Lower Upper

105 100

120 29.1 15.1 45.3

Manual Integrations
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#74

N-ethyl acetate

Concen: 48.926 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion: 43 Resp: 503586

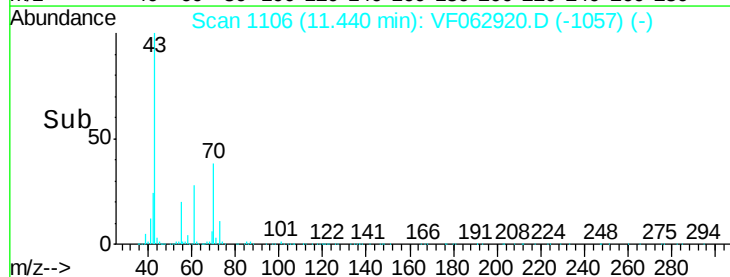
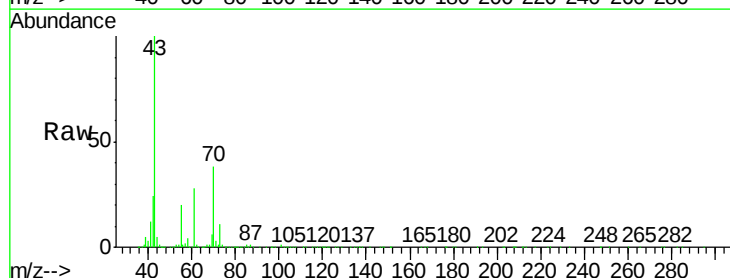
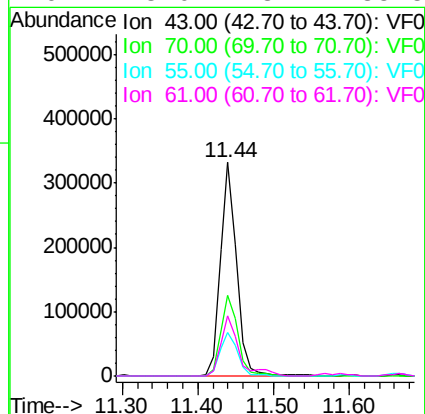
Ion Ratio Lower Upper

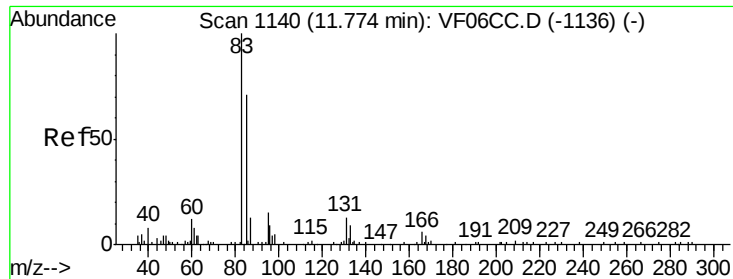
43 100

70 37.9 32.9 49.3

55 20.5 17.3 25.9

61 28.0 23.7 35.5





#75

1,1,2,2-Tetrachloroethane

Concen: 49.445 ug/l

RT: 11.77 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

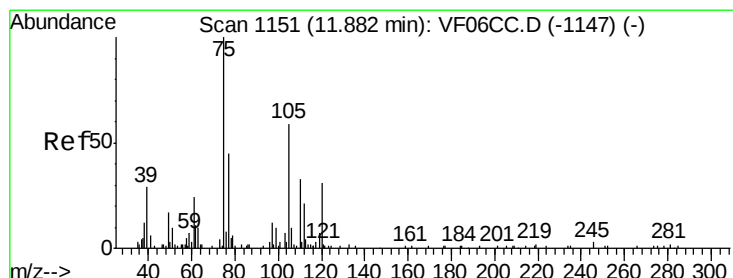
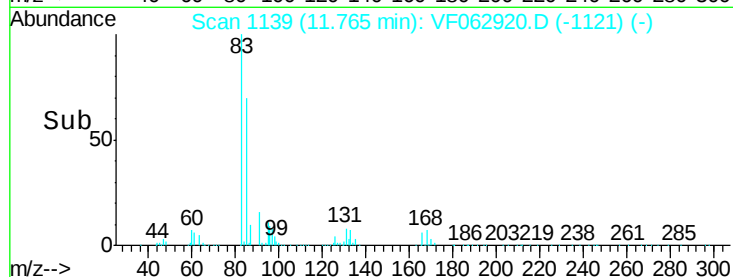
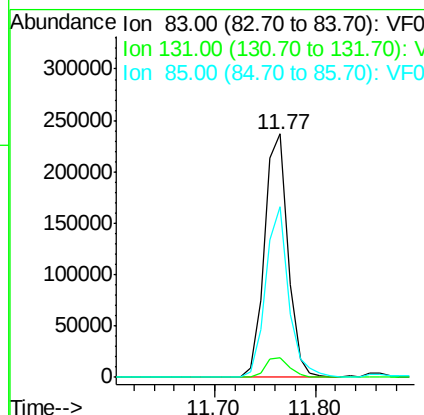
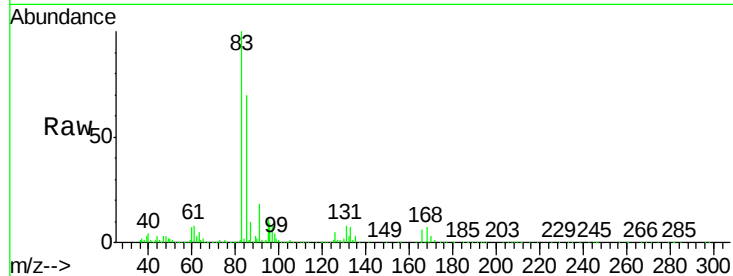
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	385610
Ion Ratio	Lower	Upper	
83	100		
131	8.3	4.9	14.7
85	70.2	32.1	96.5

Manual Integrations
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6/13/2019 11:32:50 AM



#76

1,2,3-Trichloropropane

Concen: 47.025 ug/l

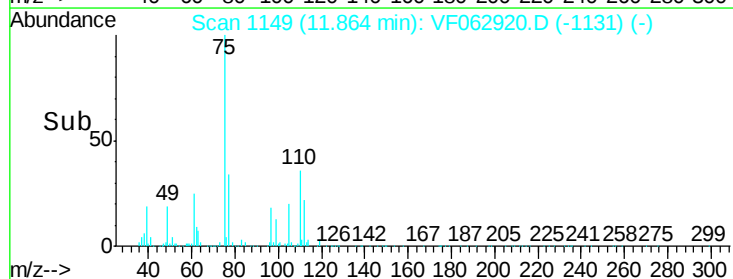
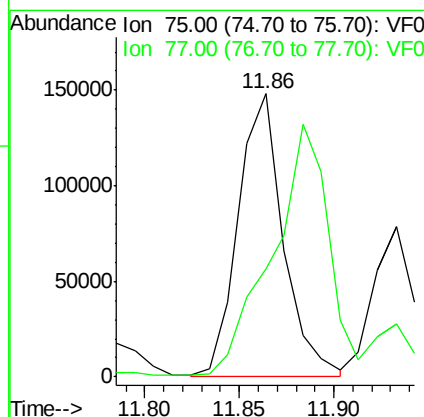
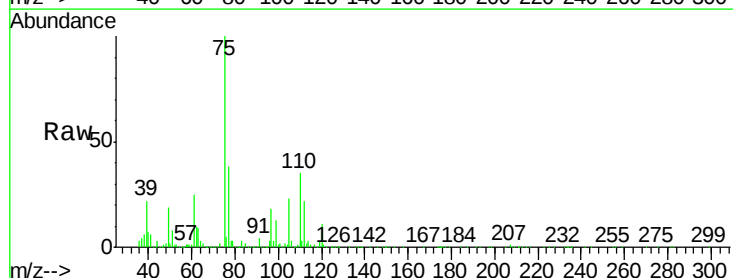
RT: 11.86 min Scan# 1149

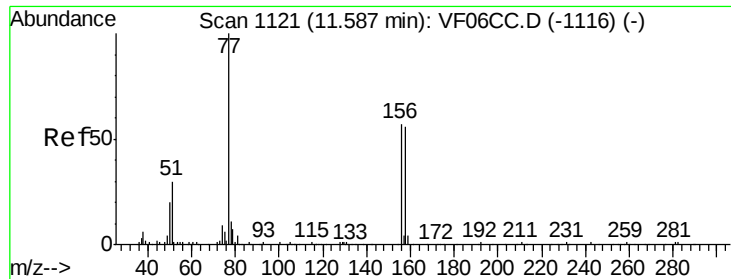
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	75	Resp:	243097
Ion Ratio	Lower	Upper	
75	100		
77	38.0	20.1	60.2





#77

Bromobenzene

Concen: 48.068 ug/l

RT: 11.57 min Scan# 1119

Delta R.T. -0.03 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

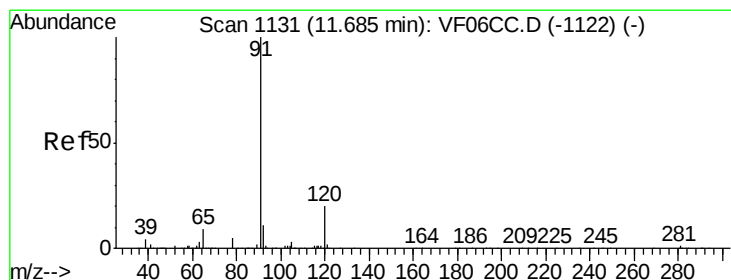
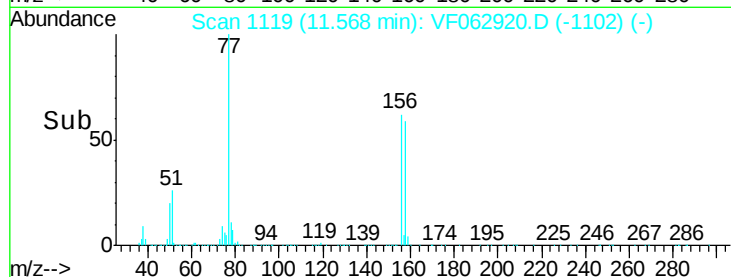
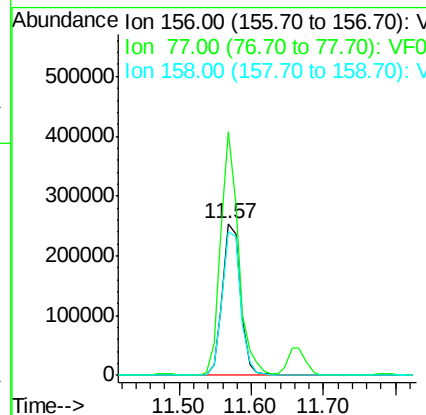
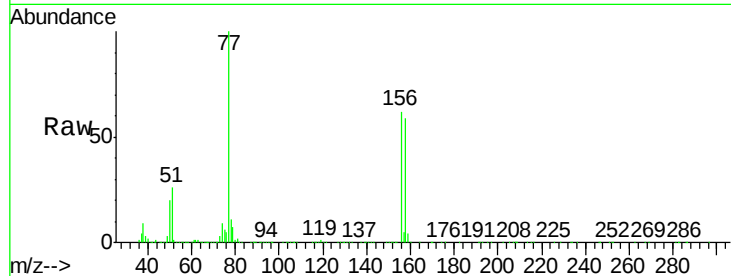
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	160.2	64.2	192.6
158	94.6	50.3	151.0

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6/13/2019 11:32:50 AM



#78

n-propylbenzene

Concen: 46.050 ug/l

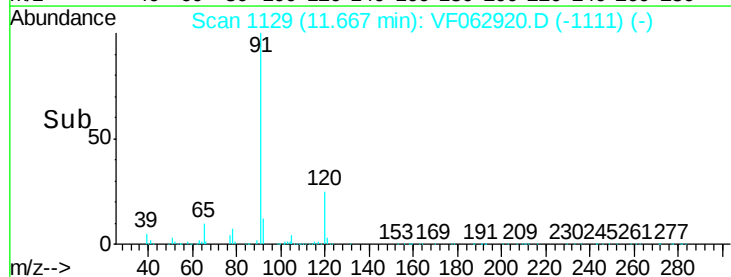
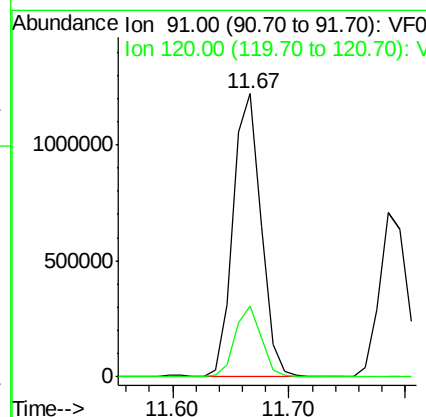
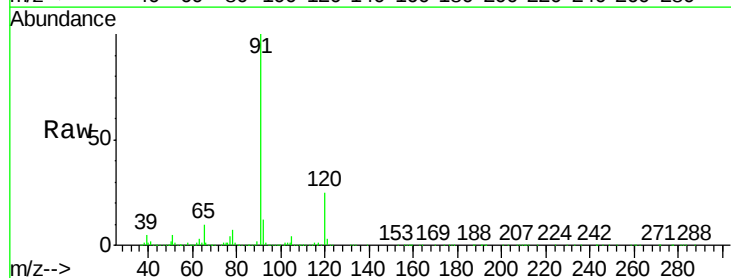
RT: 11.67 min Scan# 1129

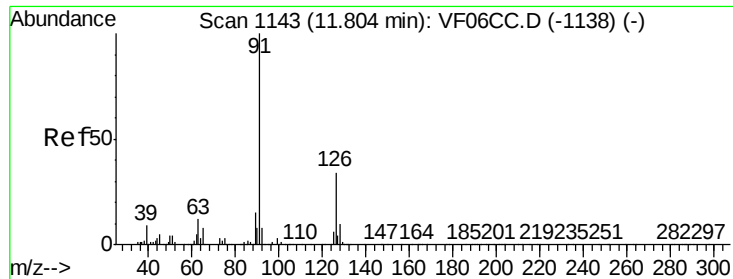
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.8	12.8	38.4





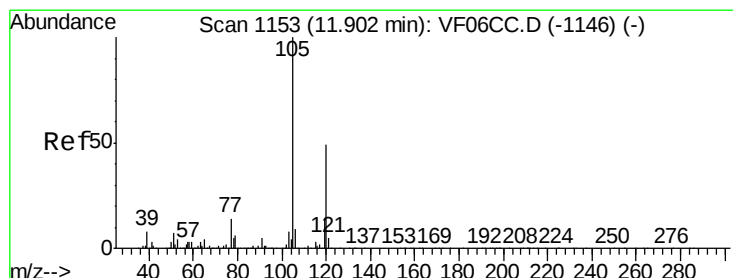
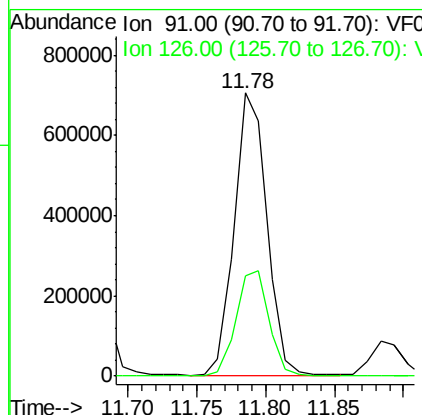
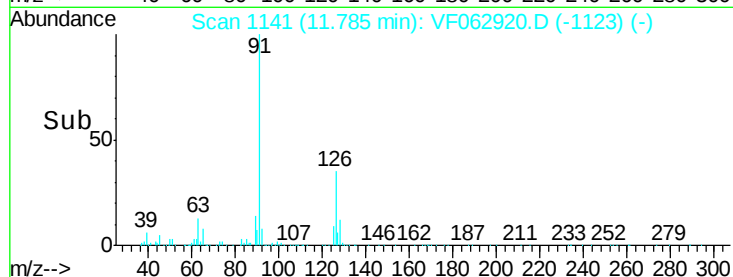
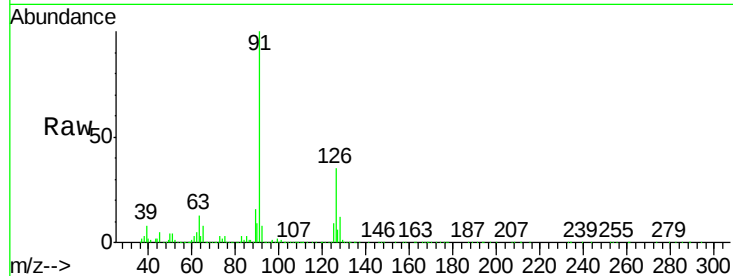
#79
 2-Chlorotoluene
 Concen: 46.021 ug/l
 RT: 11.78 min Scan# 1141
 Delta R.T. -0.02 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 1161144
 Ion Ratio Lower Upper
 91 100
 126 35.3 17.8 53.3

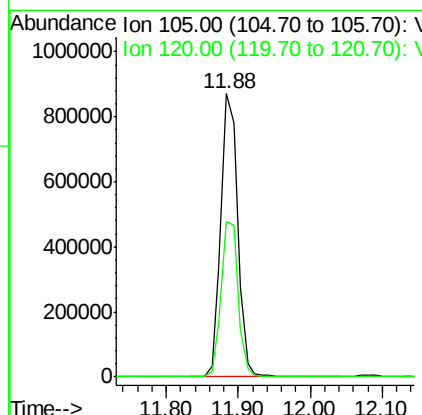
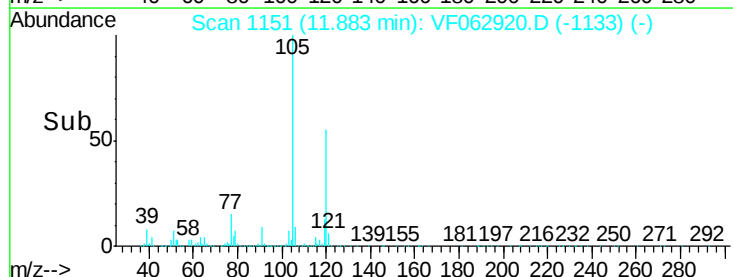
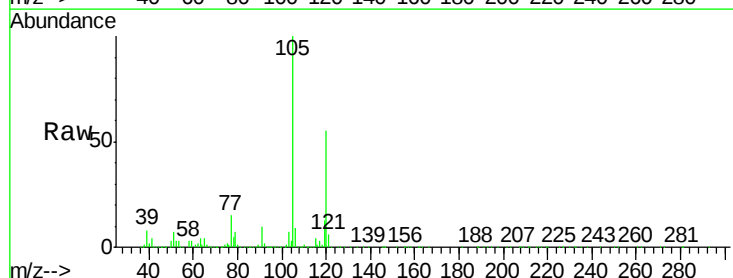
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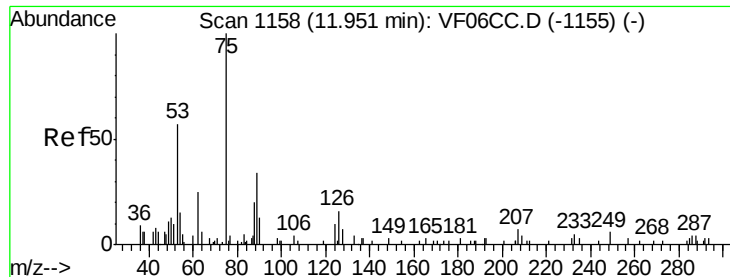
MMDadoda
 6/13/2019 11:32:50 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 46.794 ug/l
 RT: 11.88 min Scan# 1151
 Delta R.T. -0.02 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Tgt Ion: 105 Resp: 1397519
 Ion Ratio Lower Upper
 105 100
 120 55.0 28.7 86.1





#81

trans-1,4-Dichloro-2-butene

Concen: 56.037 ug/l m

RT: 11.93 min Scan# 1156

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

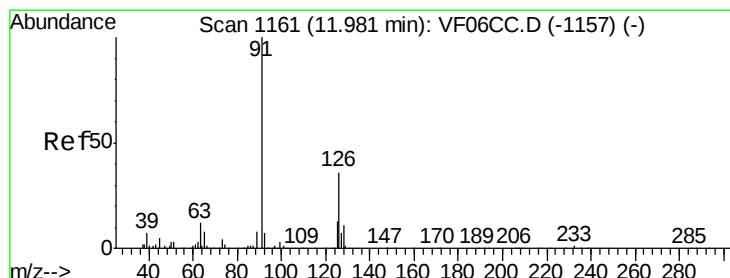
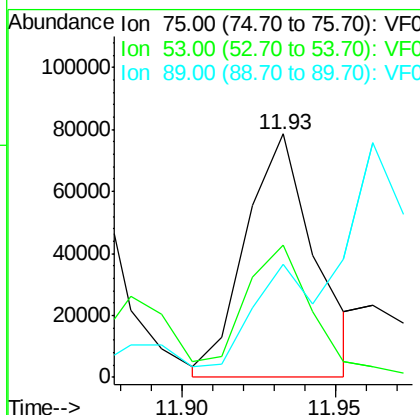
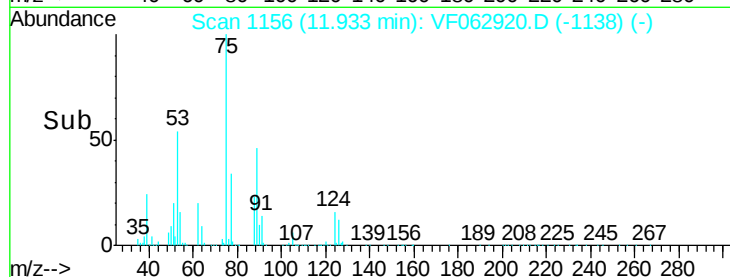
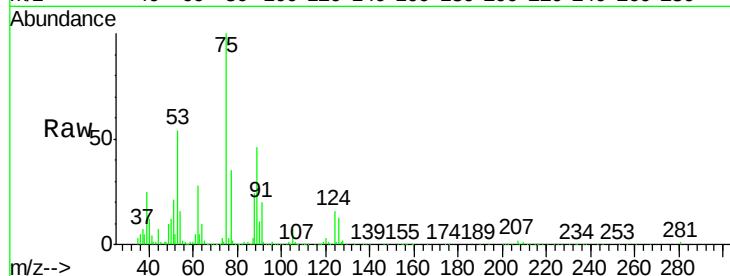
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	122643
Ion Ratio	Lower	Upper	
75	100		
53	54.3	43.5	65.3
89	46.5	34.3	51.5

Manual Integrations
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MMDadoda
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#82

4-Chlorotoluene

Concen: 47.083 ug/l

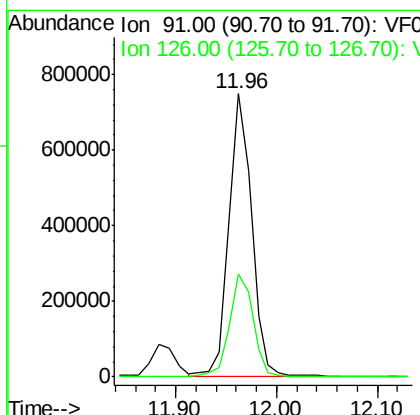
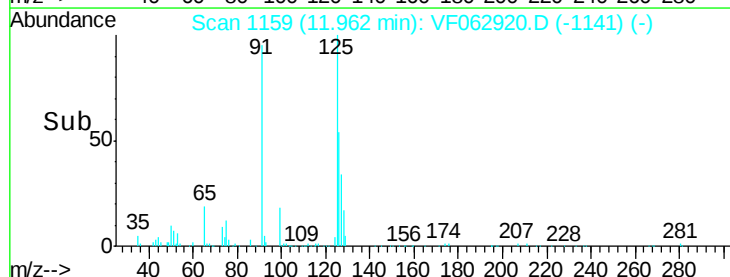
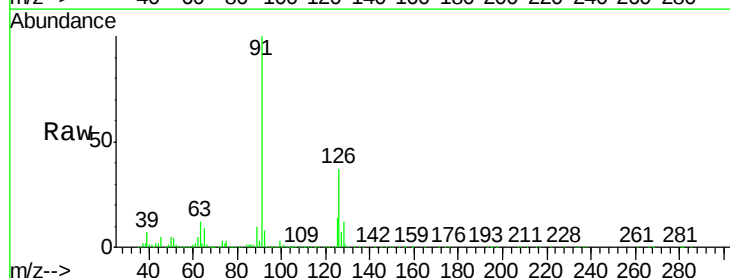
RT: 11.96 min Scan# 1159

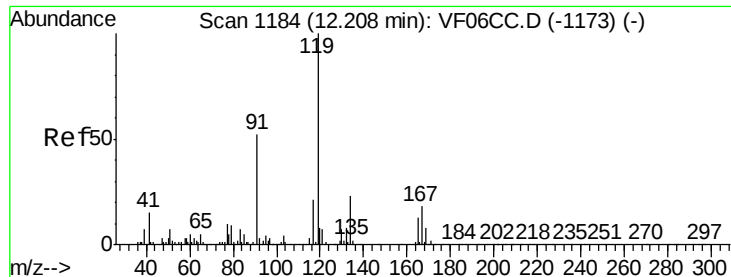
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	91	Resp:	1167436
Ion Ratio	Lower	Upper	
91	100		
126	36.5	19.1	57.1





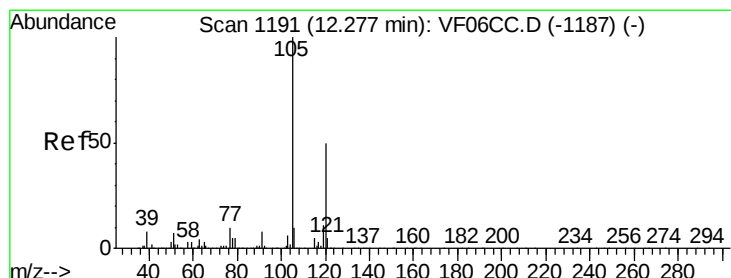
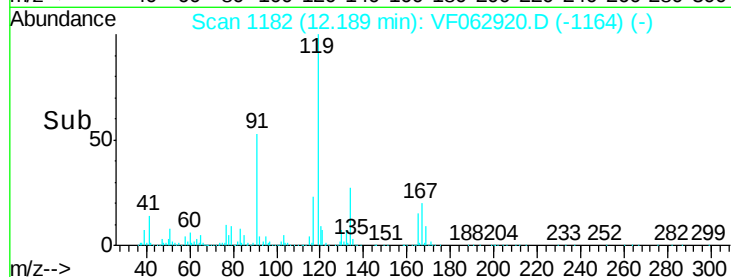
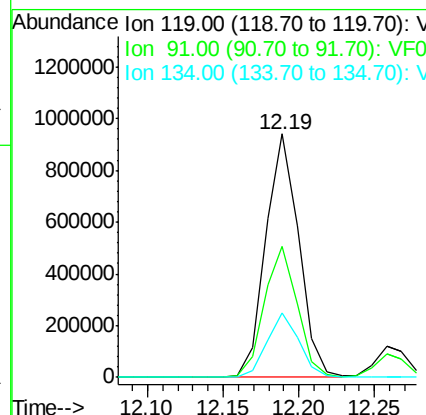
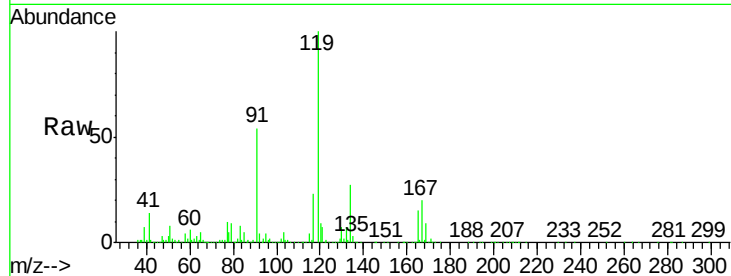
#83
tert-Butylbenzene
Concen: 48.902 ug/l
RT: 12.19 min Scan# 1182
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	53.6	28.9	86.7
134	26.7	14.3	42.9

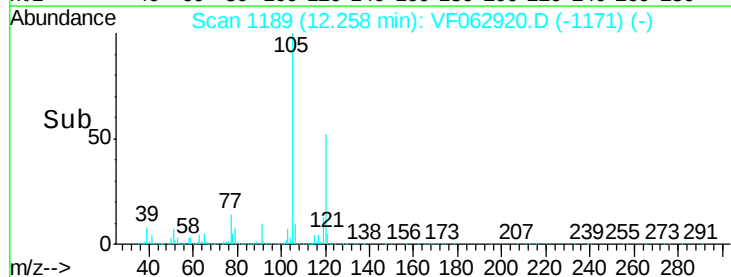
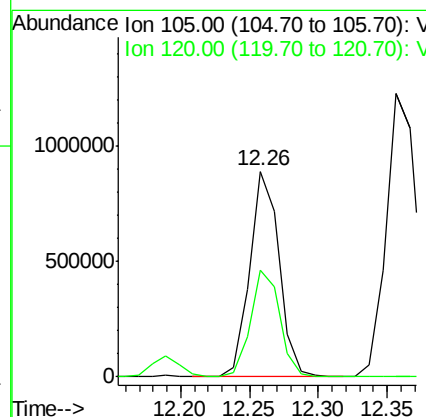
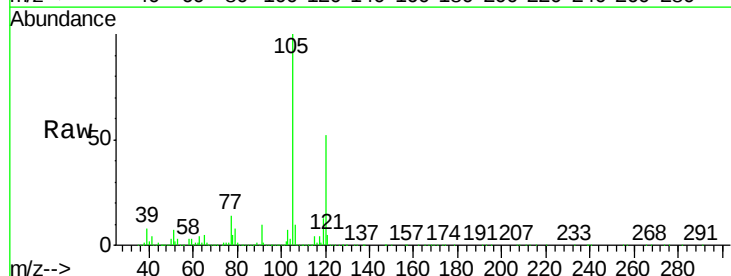
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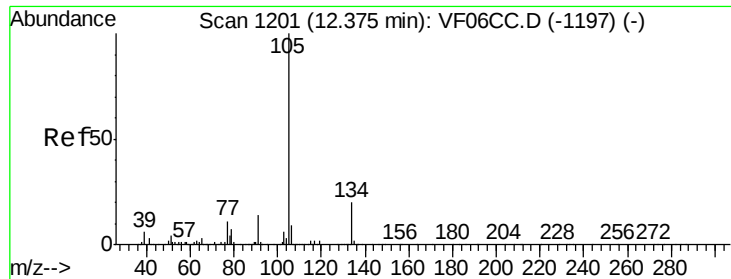
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 47.006 ug/l
RT: 12.26 min Scan# 1189
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.8	27.1	81.3





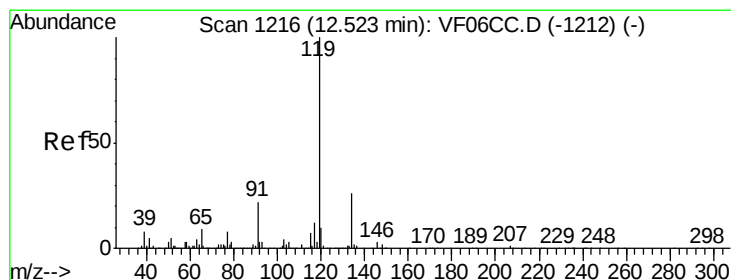
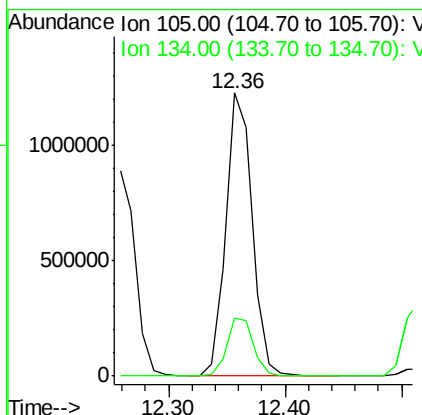
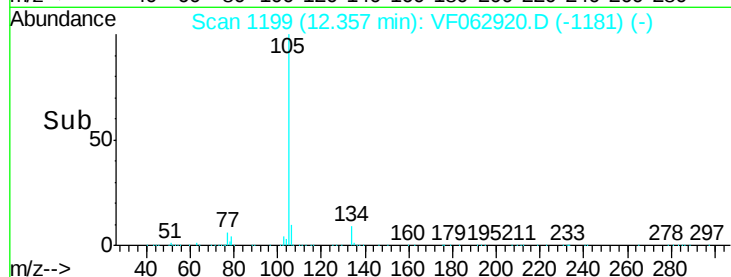
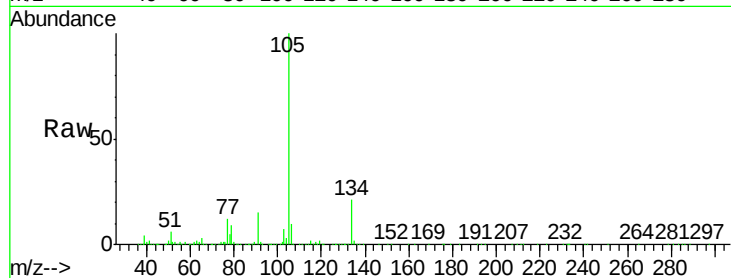
#85
 sec-Butylbenzene
 Concen: 49.128 ug/l
 RT: 12.36 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 1915708
 Ion Ratio Lower Upper
 105 100
 134 20.5 10.5 31.6

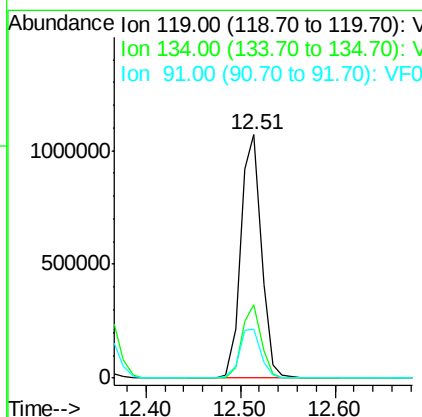
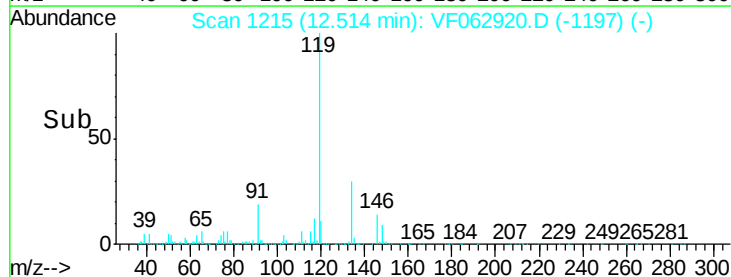
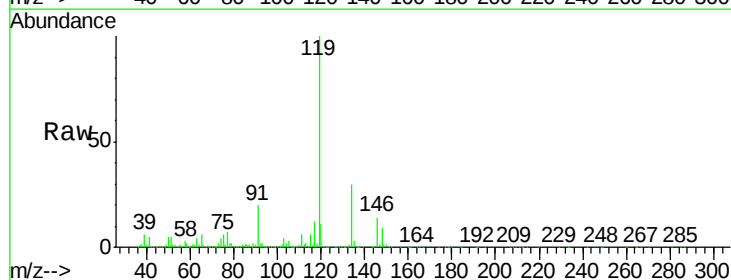
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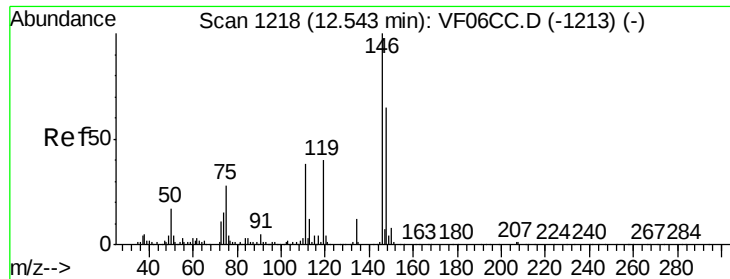
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#86
 p-Isopropyltoluene
 Concen: 49.396 ug/l
 RT: 12.51 min Scan# 1215
 Delta R.T. -0.02 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Tgt Ion:119 Resp: 1603238
 Ion Ratio Lower Upper
 119 100
 134 30.3 15.5 46.5
 91 20.3 10.3 30.9





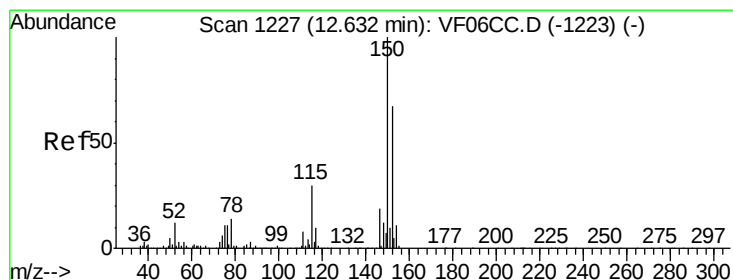
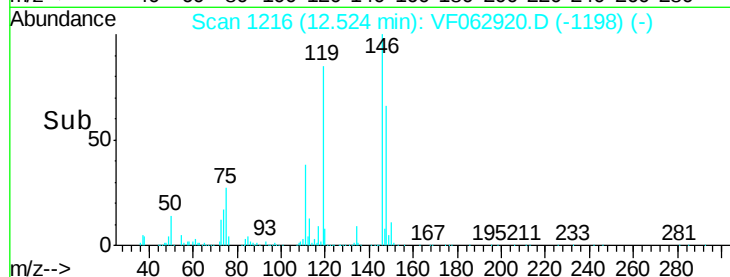
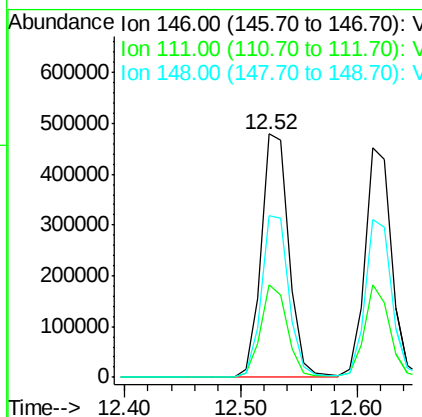
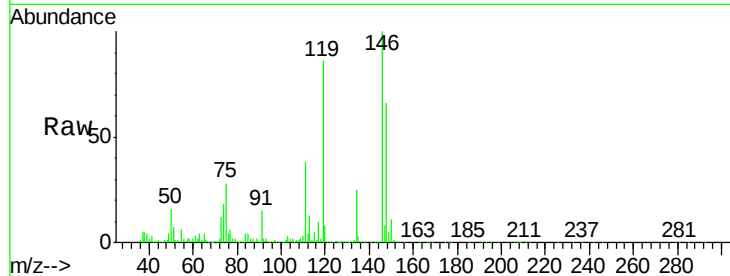
#87
 1,3-Dichlorobenzene
 Concen: 48.695 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. -0.02 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.6	58.8
148	66.3	34.2	102.5

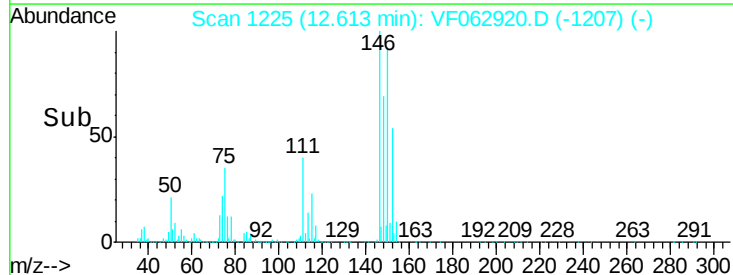
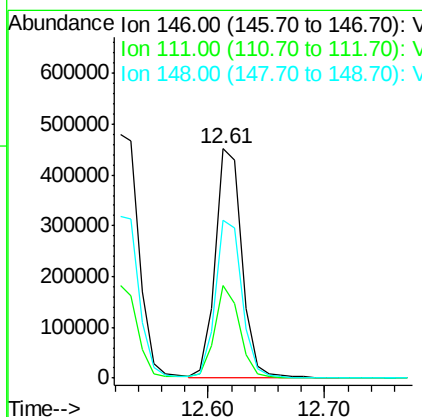
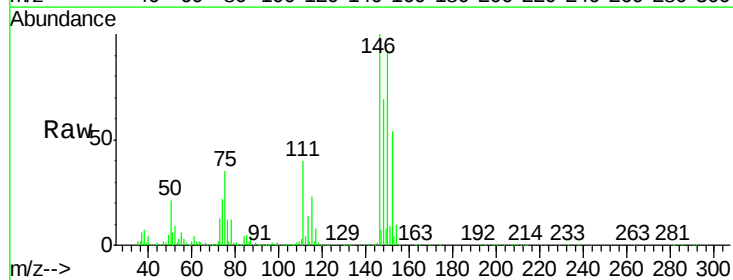
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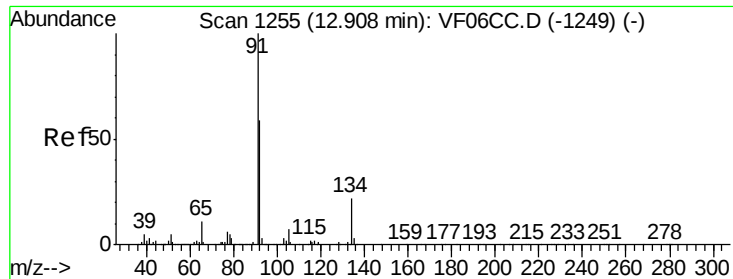
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#88
 1,4-Dichlorobenzene
 Concen: 47.328 ug/l
 RT: 12.61 min Scan# 1225
 Delta R.T. -0.02 min
 Lab File: VF062920.D
 Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.3	60.9
148	68.5	34.0	101.8





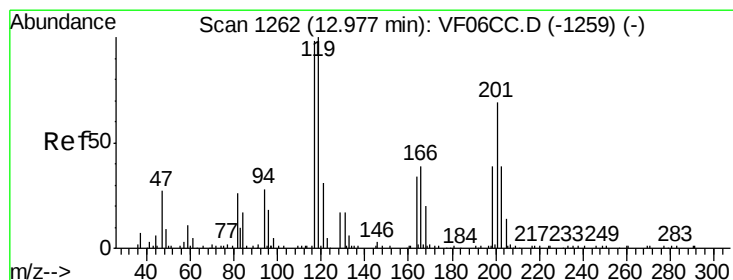
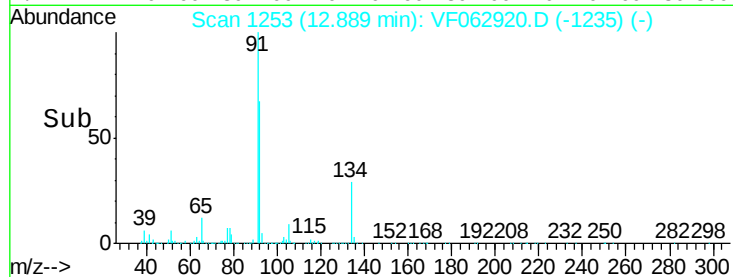
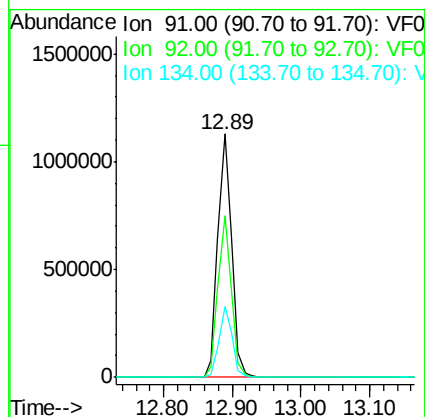
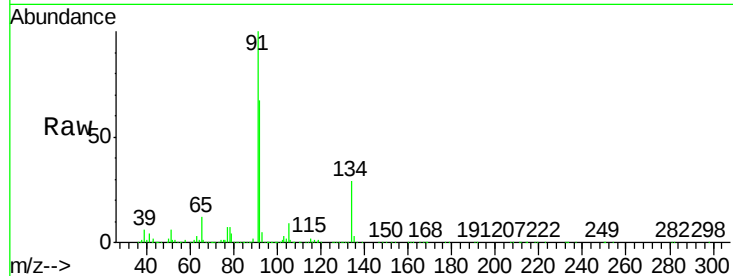
#89
n-Butylbenzene
Concen: 48.302 ug/l
RT: 12.89 min Scan# 1253
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1577040
Ion Ratio Lower Upper
91 100
92 66.5 34.2 102.6
134 29.3 15.8 47.3

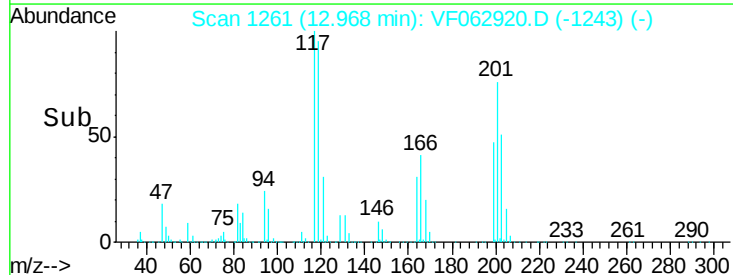
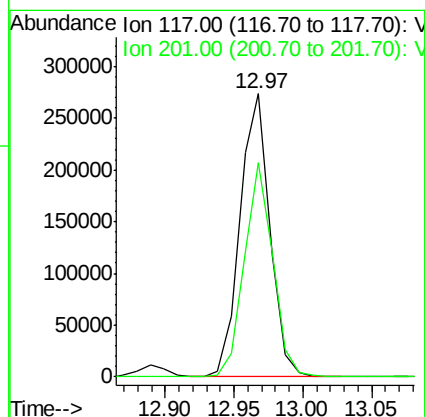
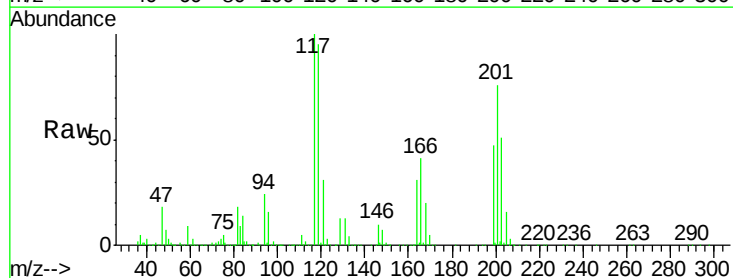
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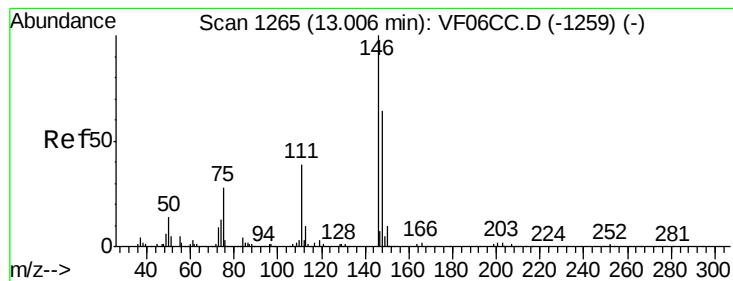
MMDadoda
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#90
Hexachloroethane
Concen: 52.000 ug/l
RT: 12.97 min Scan# 1261
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion: 117 Resp: 411642
Ion Ratio Lower Upper
117 100
201 75.6 38.9 116.7





#91

1,2-Dichlorobenzene

Concen: 49.764 ug/l

RT: 12.99 min Scan# 1263

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

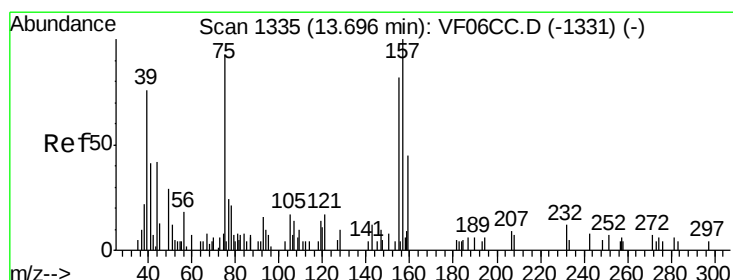
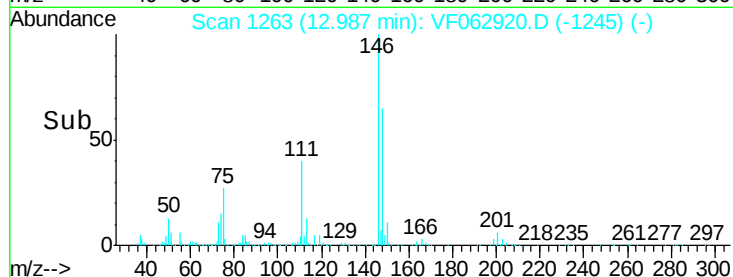
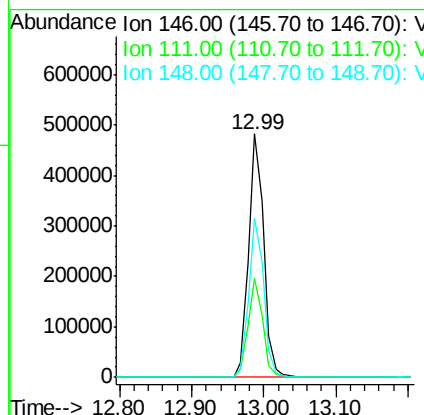
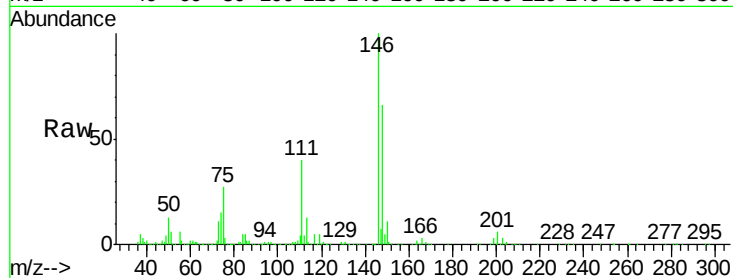
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	707821
Ion Ratio	Lower	Upper	
146	100		
111	40.5	20.4	61.3
148	65.5	34.1	102.3

Manual Integrations
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6/13/2019 11:32:50 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 57.063 ug/l

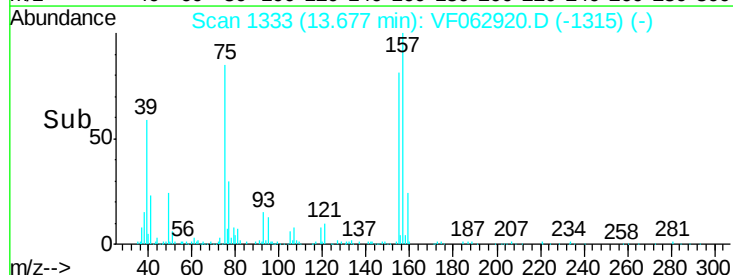
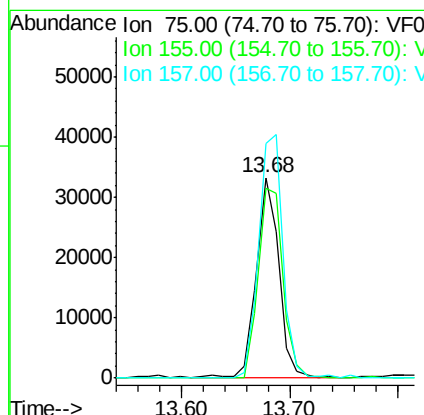
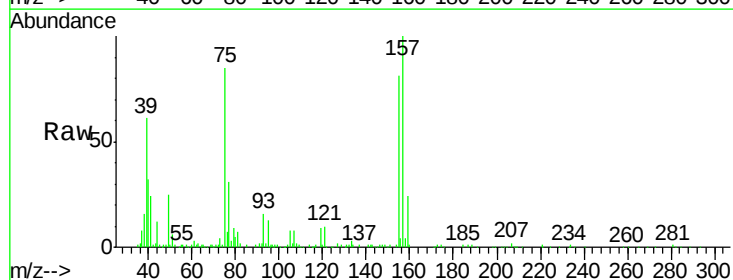
RT: 13.68 min Scan# 1333

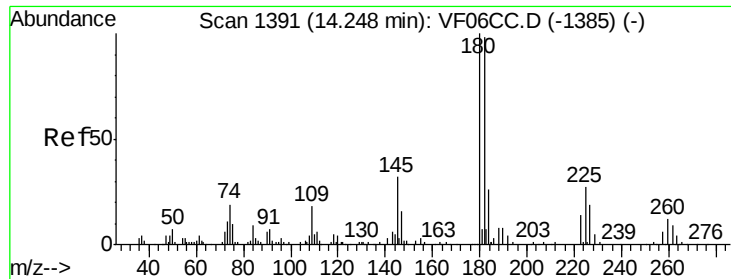
Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	75	Resp:	48484
Ion Ratio	Lower	Upper	
75	100		
155	94.5	51.7	155.1
157	117.1	66.8	200.6





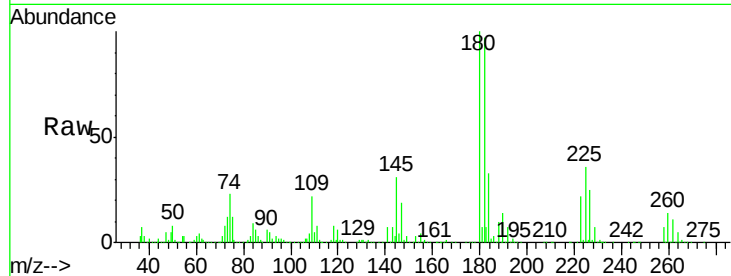
#93
1,2,4-Trichlorobenzene
Concen: 51.981 ug/l
RT: 14.23 min Scan# 1389
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

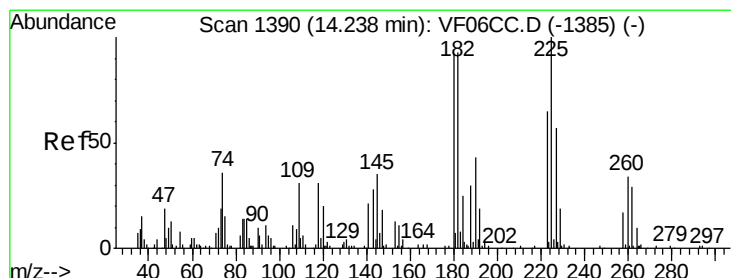
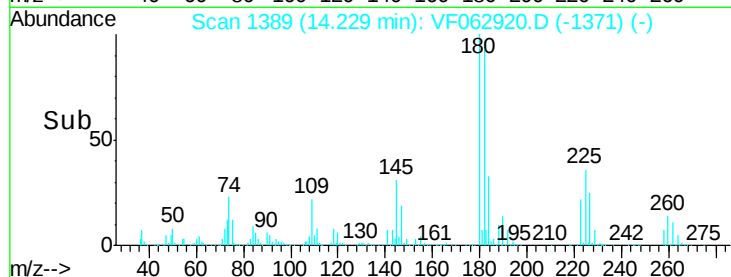
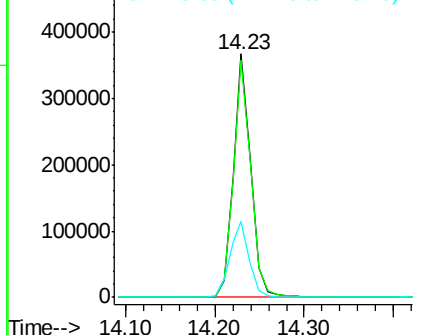
Tot Ion	Ratio	Resp	Lower	Upper
180	100	507655		
182	97.2	50.3	150.9	
145	31.1	15.4	46.2	

Manual Integrations
APPROVED

MMDadoda
6/13/2019 11:32:50 AM

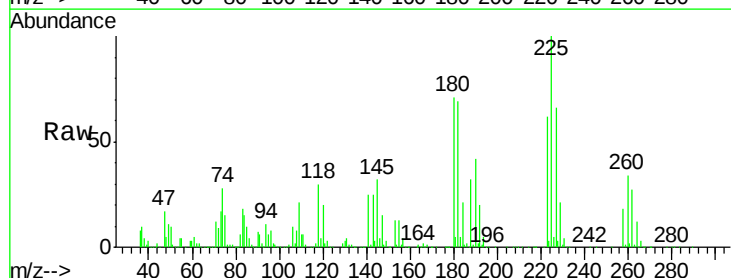


Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

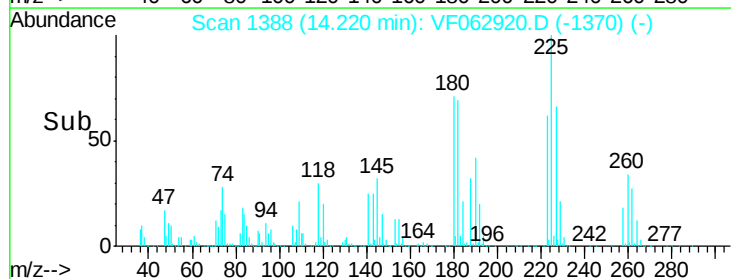
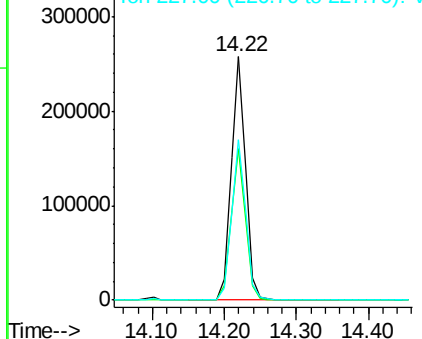


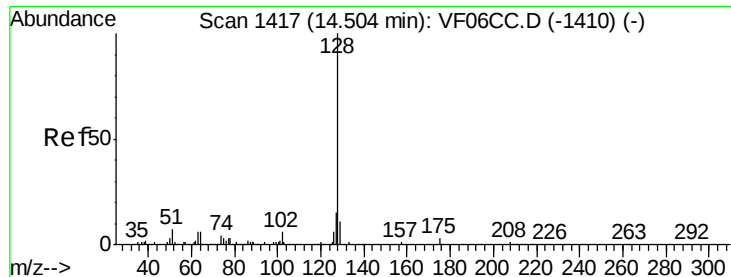
#94
Hexachlorobutadiene
Concen: 52.409 ug/l
RT: 14.22 min Scan# 1388
Delta R.T. -0.02 min
Lab File: VF062920.D
Acq: 12 Jun 2019 10:59

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	354087		
223	62.0	30.8	92.4	
227	65.8	31.9	95.5	



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: 56.025 ug/l

RT: 14.49 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Instrument :

MSVOA_F

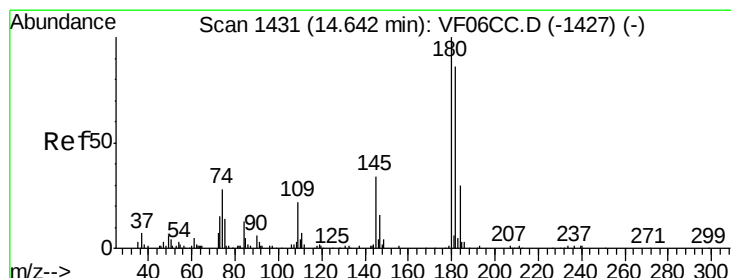
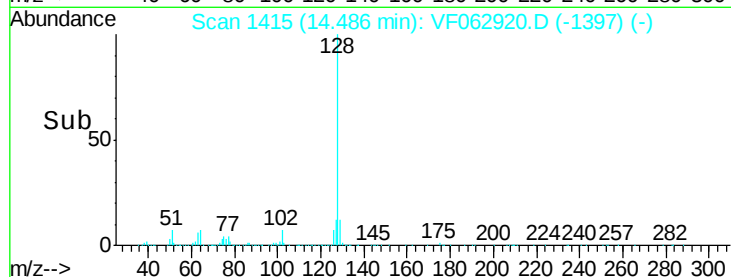
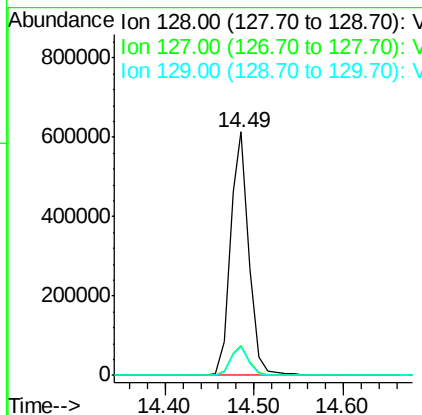
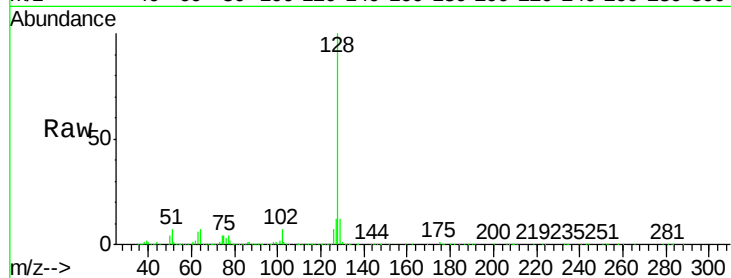
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	896394
Ion Ratio	Lower	Upper	
128	100		
127	12.1	9.7	14.5
129	11.9	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
6/13/2019 11:32:50 AM



#96

1,2,3-Trichlorobenzene

Concen: 52.039 ug/l

RT: 14.63 min Scan# 1430

Delta R.T. -0.01 min

Lab File: VF062920.D

Acq: 12 Jun 2019 10:59

Tgt Ion:	180	Resp:	463913
Ion Ratio	Lower	Upper	
180	100		
182	98.3	48.6	145.9
145	28.8	15.7	47.0

