

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062112.D
 Acq On : 23 Mar 2019 11:54
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 12:39:54 PM

Quant Time: Mar 25 03:56:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	267710	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	416012	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	356908	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	180042	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	107830	54.15	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	108.30%	
35) Dibromofluoromethane	4.12	113	156016	55.44	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	110.88%	
50) Toluene-d8	7.56	98	455190	54.19	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	108.38%	
62) 4-Bromofluorobenzene	11.42	95	177026	54.59	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	109.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	175016	51.032	ug/l	97
3) Chloromethane	1.09	50	167945	46.800	ug/l	98
4) Vinyl Chloride	1.14	62	168144	50.656	ug/l	97
5) Bromomethane	1.32	94	116598	48.866	ug/l	95
6) Chloroethane	1.40	64	75235	45.025	ug/l	96
7) Trichlorofluoromethane	1.48	101	201069	50.156	ug/l	99
8) Diethyl Ether	1.63	74	42620	46.542	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.84	101	137153	50.149	ug/l	97
10) Methyl Iodide	1.92	142	259914m	50.010	ug/l	
11) Tert butyl alcohol	2.58	59	25791	235.400	ug/l #	89
12) 1,1-Dichloroethene	1.80	96	132982	51.533	ug/l	93
13) Acrolein	2.01	56	31925	242.317	ug/l	87
14) Allyl chloride	2.10	41	141956	51.525	ug/l	95
15) Acrylonitrile	2.94	53	85594	222.165	ug/l	97
16) Acetone	2.24	43	125677	299.881	ug/l	97
17) Carbon Disulfide	1.82	76	408330m	51.891	ug/l	
18) Methyl Acetate	2.34	43	42470	42.483	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	197766	48.490	ug/l	100
20) Methylene Chloride	2.19	84	121634m	48.153	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	107549	43.316	ug/l	98
22) Diisopropyl ether	2.81	45	350762	48.559	ug/l	98
23) Vinyl Acetate	3.19	43	770404	260.493	ug/l	100
24) 1,1-Dichloroethane	2.88	63	218217	50.376	ug/l	99
25) 2-Butanone	4.35	43	224841	256.989	ug/l	98
26) 2,2-Dichloropropane	3.61	77	93098	53.007	ug/l	98
27) cis-1,2-Dichloroethene	3.48	96	156083	47.440	ug/l	97
28) Bromochloromethane	3.72	49	93709	52.947	ug/l	95
29) Tetrahydrofuran	4.08	42	87672	230.476	ug/l	99
30) Chloroform	3.86	83	239182	52.247	ug/l	96
31) Cyclohexane	3.69	56	223816m	49.472	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	137151	49.251	ug/l	97
36) 1,1-Dichloropropene	4.28	75	199318	50.301	ug/l	95
37) Ethyl Acetate	4.11	43	80364	46.407	ug/l #	79
38) Carbon Tetrachloride	3.99	117	134558	49.823	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062112.D
 Acq On : 23 Mar 2019 11:54
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 12:39:54 PM

Quant Time: Mar 25 03:56:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	235318	51.168	ug/l	99
40) Benzene	4.63	78	506248	47.657	ug/l	99
41) Methacrylonitrile	4.75	41	43535	47.513	ug/l	94
42) 1,2-Dichloroethane	4.95	62	126798	50.477	ug/l	98
43) Isopropyl Acetate	6.96	43	93422	44.546	ug/l #	99
44) Trichloroethene	5.51	130	160463	49.408	ug/l	98
45) 1,2-Dichloropropane	6.24	63	123026	48.557	ug/l	92
46) Dibromomethane	6.09	93	76195	49.185	ug/l	98
47) Bromodichloromethane	6.39	83	177005	51.585	ug/l	97
48) Methyl methacrylate	6.72	41	57811	48.414	ug/l	94
49) 1,4-Dioxane	6.72	88	11518	1099.277	ug/l	95
51) 4-Methyl-2-Pentanone	8.26	43	339998	242.217	ug/l	99
52) Toluene	7.63	92	312288	50.756	ug/l	98
53) t-1,3-Dichloropropene	8.28	75	143623	53.319	ug/l	93
54) cis-1,3-Dichloropropene	7.30	75	191984	49.812	ug/l	93
55) 1,1,2-Trichloroethane	8.50	97	83394	47.718	ug/l	94
56) Ethyl methacrylate	8.62	69	101009	48.462	ug/l	99
57) 1,3-Dichloropropane	8.85	76	144100	49.679	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.29	63	83501	264.014	ug/l	99
59) 2-Hexanone	9.49	43	247389	240.469	ug/l	97
60) Dibromochloromethane	8.72	129	126055	51.884	ug/l	95
61) 1,2-Dibromoethane	8.99	107	91295	48.964	ug/l	97
64) Tetrachloroethene	8.15	164	139284	50.513	ug/l	96
65) Chlorobenzene	9.80	112	351984	52.708	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.94	131	136178	50.766	ug/l	97
67) Ethyl Benzene	9.90	91	605079	52.101	ug/l	99
68) m/p-Xylenes	10.13	106	430240	99.118	ug/l	98
69) o-Xylene	10.72	106	239204	52.616	ug/l	98
70) Styrene	10.79	104	332053	48.206	ug/l	98
71) Bromoform	10.77	173	66589	48.533	ug/l	99
73) Isopropylbenzene	11.13	105	671538	53.007	ug/l	99
74) N-amyl acetate	11.38	43	151565	50.209	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	110168	50.645	ug/l	97
76) 1,2,3-Trichloropropane	11.80	75	73422	47.961	ug/l	96
77) Bromobenzene	11.49	156	158635	51.252	ug/l	88
78) n-propylbenzene	11.59	91	750740	51.033	ug/l	99
79) 2-Chlorotoluene	11.72	91	438476	53.625	ug/l	98
80) 1,3,5-Trimethylbenzene	11.83	105	528948	50.759	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	29841m	47.838	ug/l	
82) 4-Chlorotoluene	11.90	91	426860	50.915	ug/l	99
83) tert-Butylbenzene	12.14	119	578442	53.026	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	530260	51.907	ug/l	97
85) sec-Butylbenzene	12.30	105	710145	50.322	ug/l	98
86) p-Isopropyltoluene	12.46	119	638654	52.236	ug/l	100
87) 1,3-Dichlorobenzene	12.48	146	292749	50.908	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	291269	51.907	ug/l	98
89) n-Butylbenzene	12.85	91	604860	51.855	ug/l	99
90) Hexachloroethane	12.91	117	154933	53.219	ug/l	95
91) 1,2-Dichlorobenzene	12.94	146	273243	50.603	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	16807	50.993	ug/l	99

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032319\
Data File : VF062112.D
Acq On : 23 Mar 2019 11:54
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:39:54 PM

Quant Time: Mar 25 03:56:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
Quant Title : SW846 8260
QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	196893	52.319	ug/l	95
94) Hexachlorobutadiene	14.20	225	132999	53.152	ug/l	94
95) Naphthalene	14.46	128	329580	49.975	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	177395	50.358	ug/l	99

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

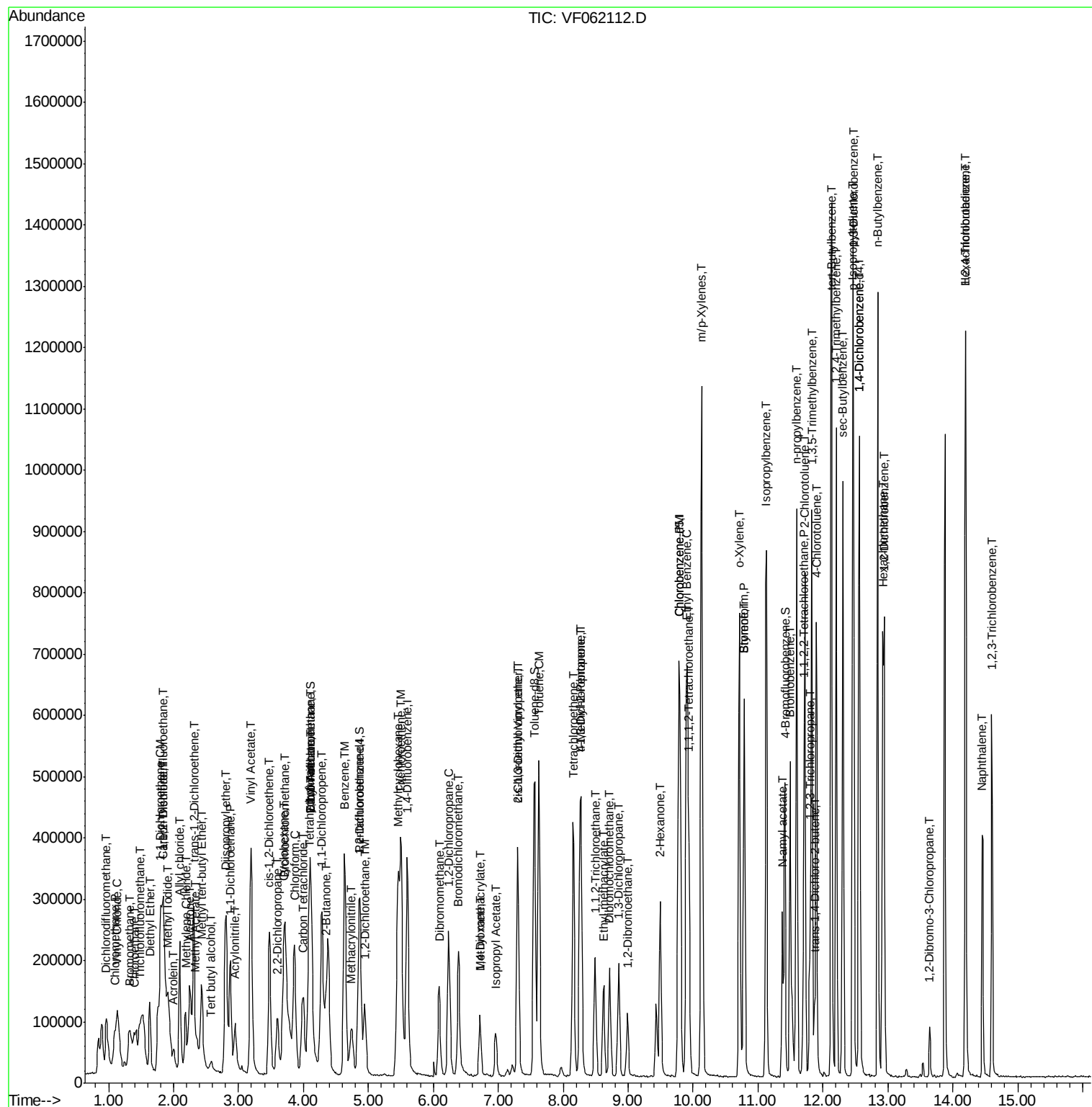
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062112.D
 Acq On : 23 Mar 2019 11:54
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

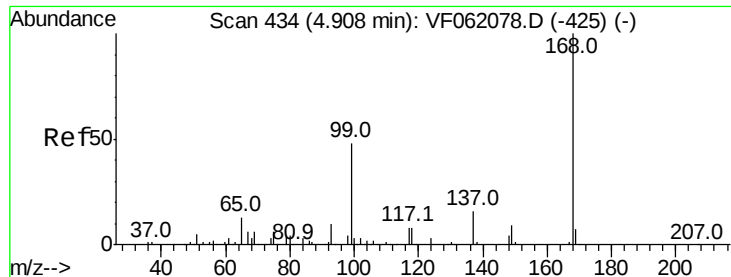
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 12:39:54 PM

Quant Time: Mar 25 03:56:22 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 267710

Ion Ratio Lower Upper

168 100

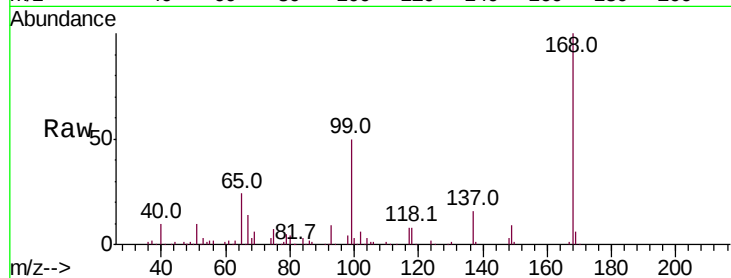
99 49.5 38.2 57.4

Manual Integrations

APPROVED

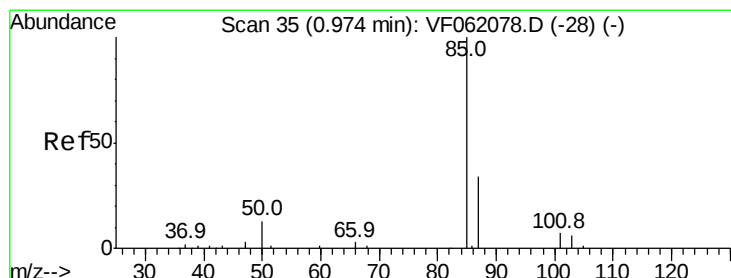
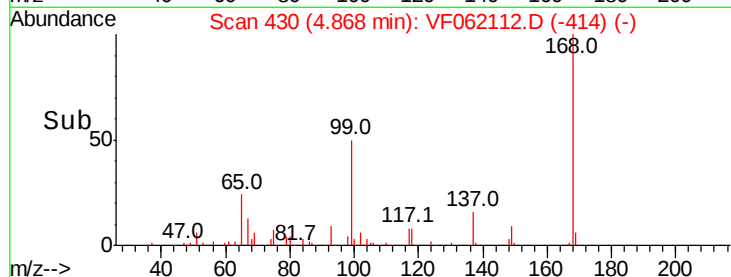
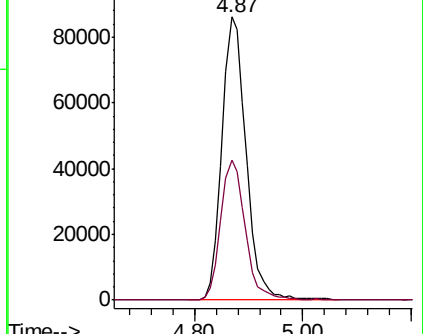
MMDadoda

3/25/2019 12:39:54 PM



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 51.032 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062112.D

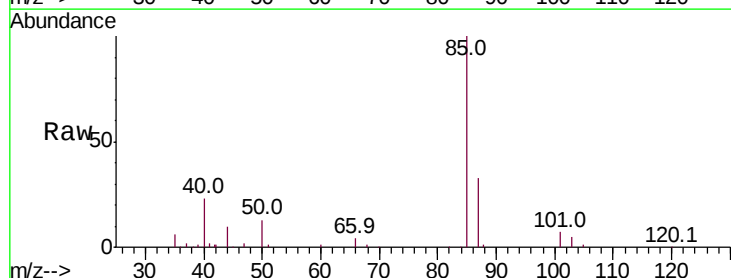
Acq: 23 Mar 2019 11:54

Tgt Ion: 85 Resp: 175016

Ion Ratio Lower Upper

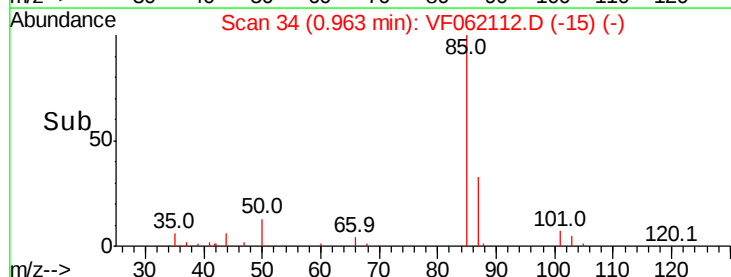
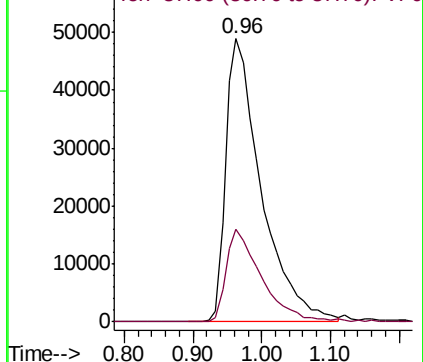
85 100

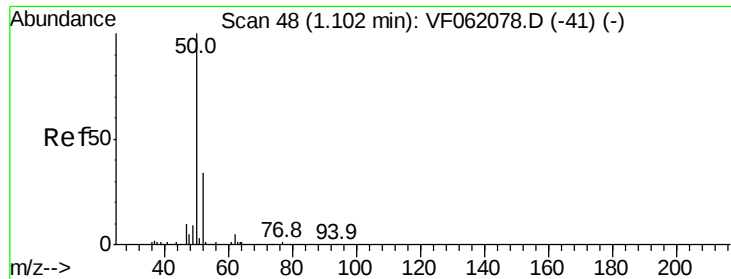
87 32.5 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 46.800 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 167945

Ion Ratio Lower Upper

50 100

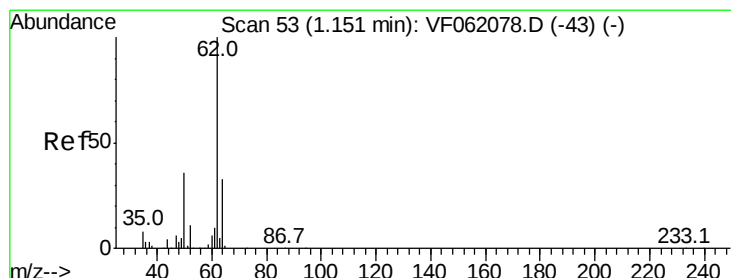
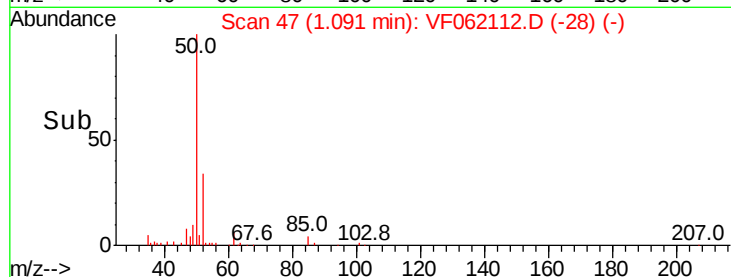
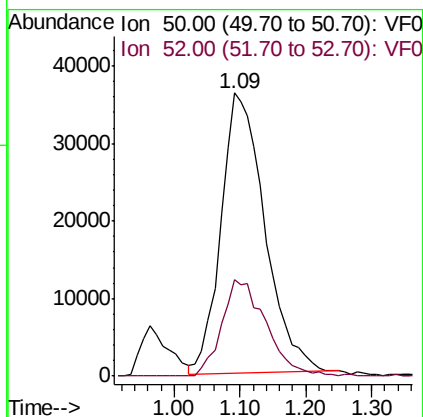
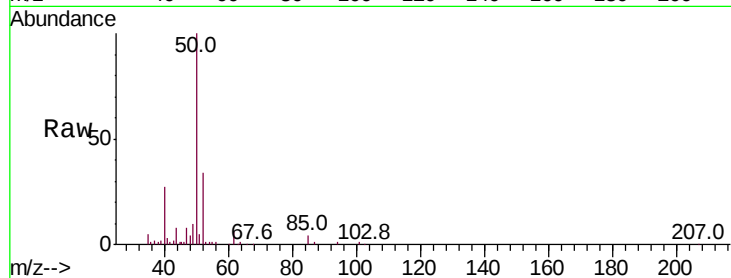
52 33.9 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#4

Vinyl Chloride

Concen: 50.656 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062112.D

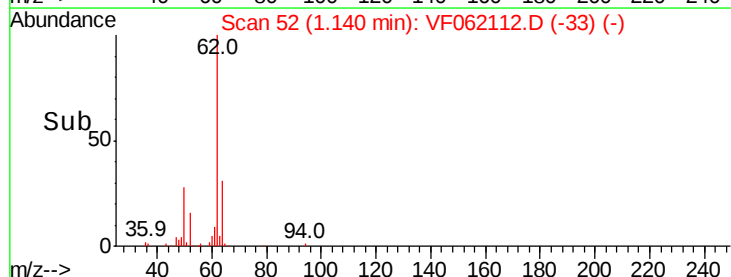
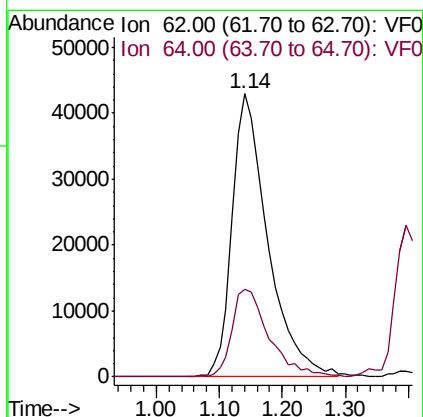
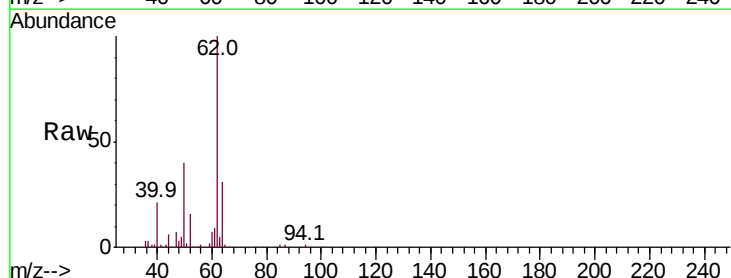
Acq: 23 Mar 2019 11:54

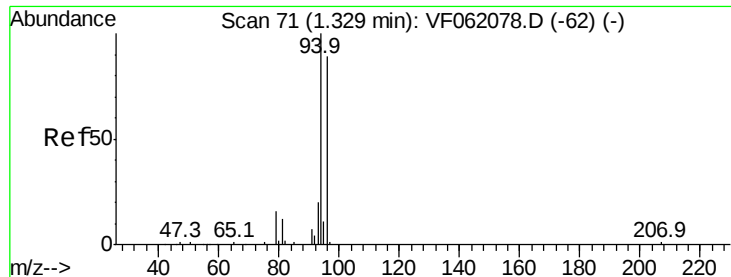
Tgt Ion: 62 Resp: 168144

Ion Ratio Lower Upper

62 100

64 31.1 26.2 39.2





#5

Bromomethane

Concen: 48.866 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tot Ion: 94 Resp: 116598

Ion Ratio Lower Upper

94 100

96 84.3 70.9 106.3

Instrument :

MSVOA_F

ClientSampleId :

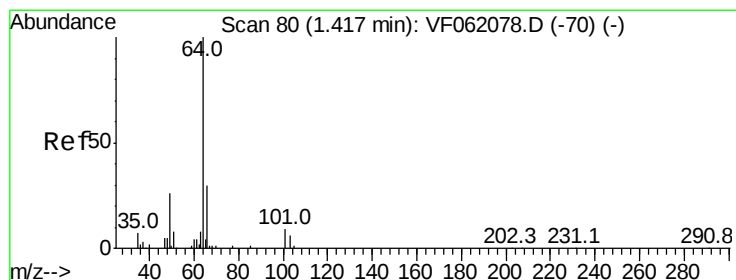
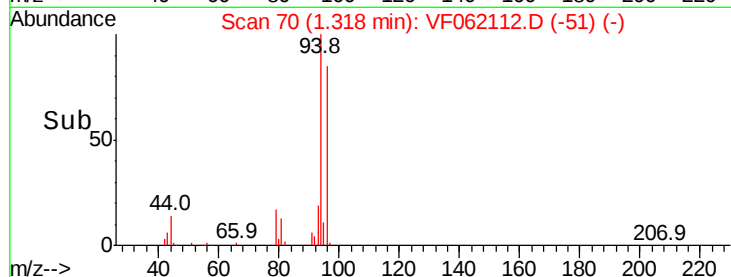
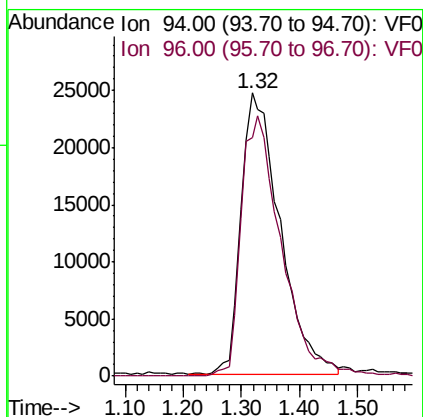
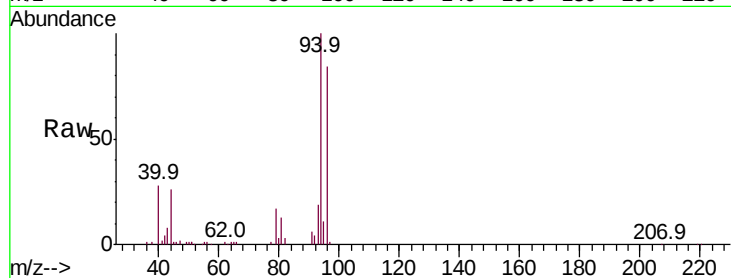
VSTDCCC050

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#6

Chloroethane

Concen: 45.025 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.02 min

Lab File: VF062112.D

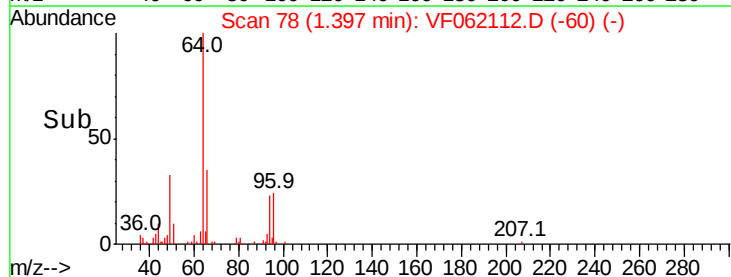
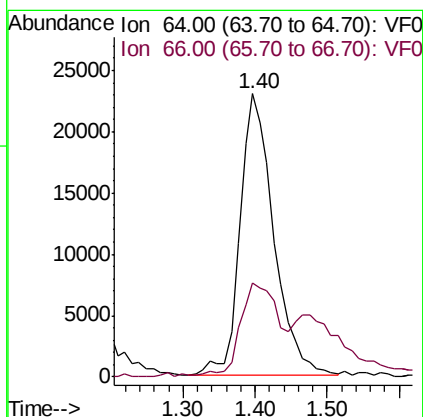
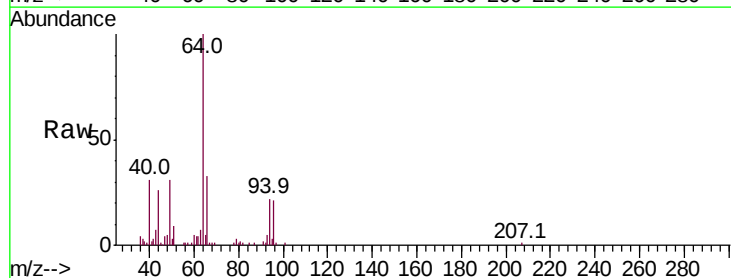
Acq: 23 Mar 2019 11:54

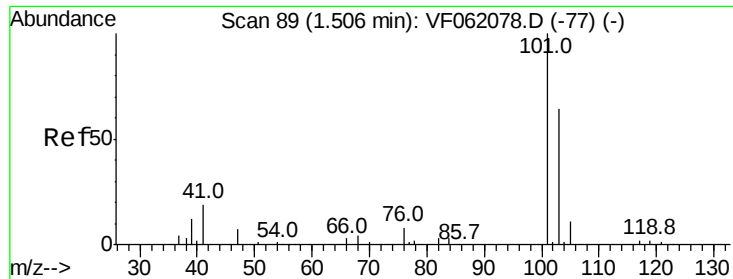
Tgt Ion: 64 Resp: 75235

Ion Ratio Lower Upper

64 100

66 33.0 24.5 36.7





#7

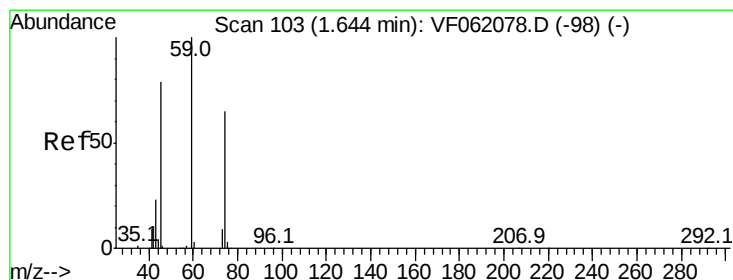
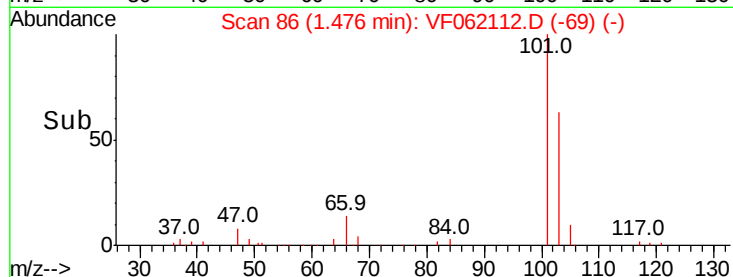
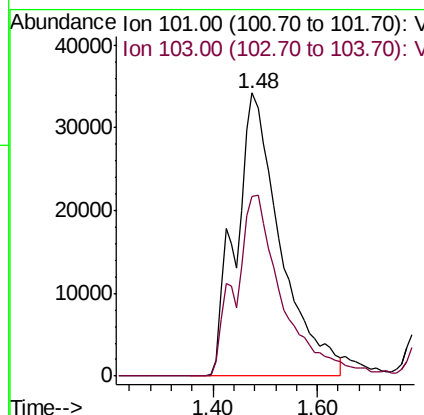
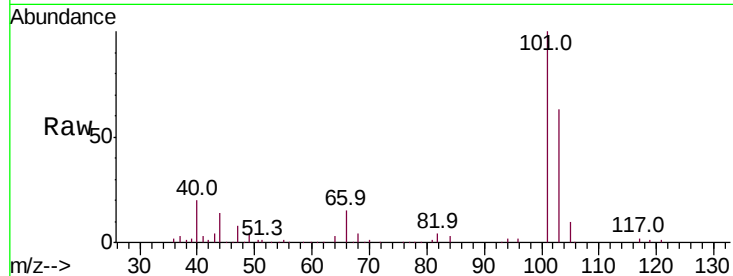
Trichlorofluoromethane
 Concen: 50.156 ug/l
 RT: 1.48 min Scan# 86
 Delta R.T. -0.03 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:101 Resp: 201069
 Ion Ratio Lower Upper
 101 100
 103 63.3 51.5 77.3

Manual Integrations
 APPROVED

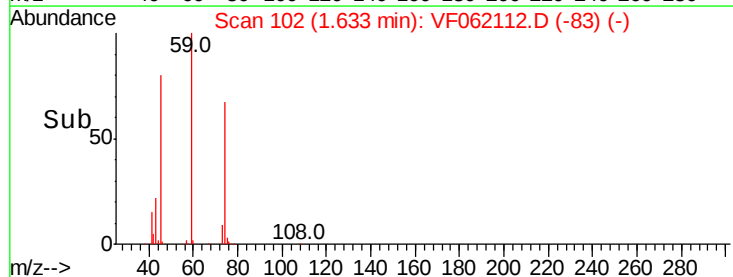
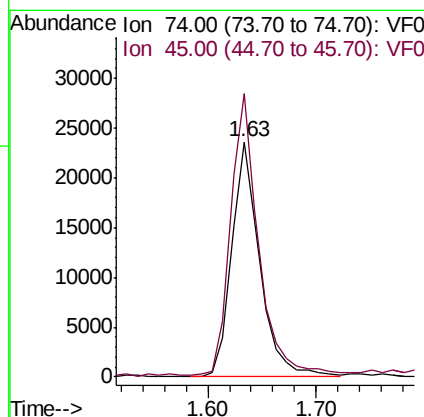
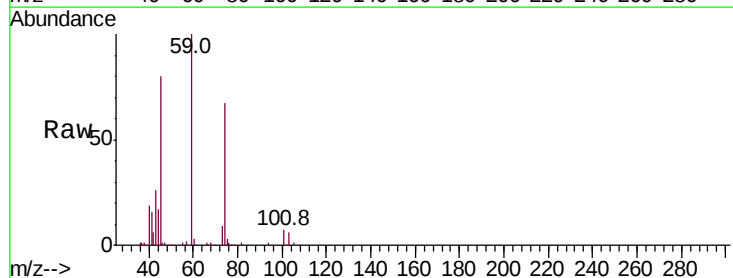
MMDadoda
 3/25/2019 12:39:54 PM

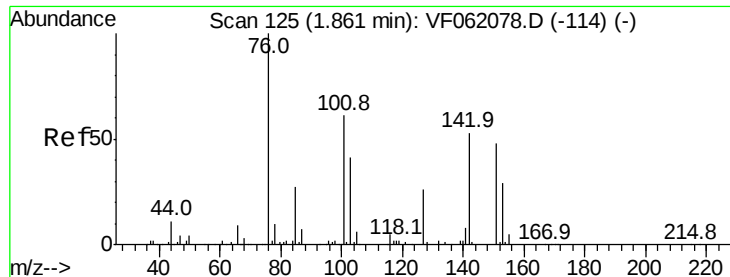


#8

Diethyl Ether
 Concen: 46.542 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. -0.01 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Tgt Ion: 74 Resp: 42620
 Ion Ratio Lower Upper
 74 100
 45 120.5 61.4 184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.149 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

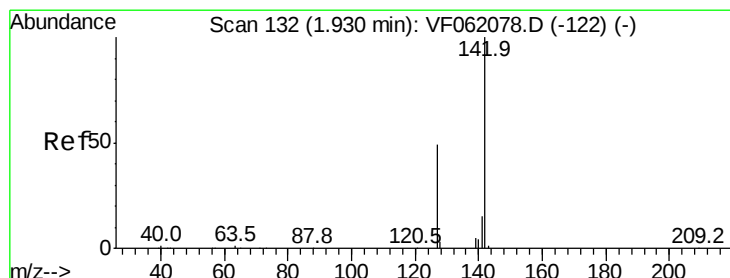
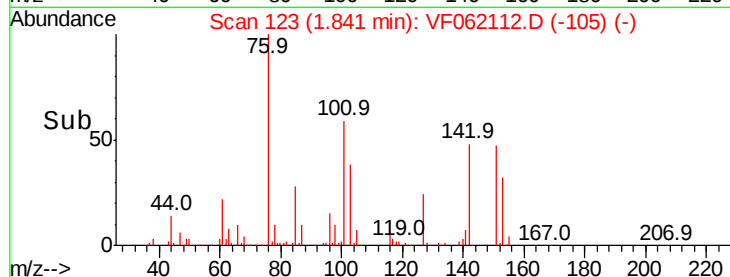
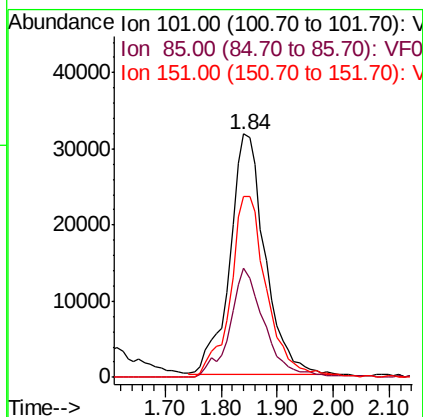
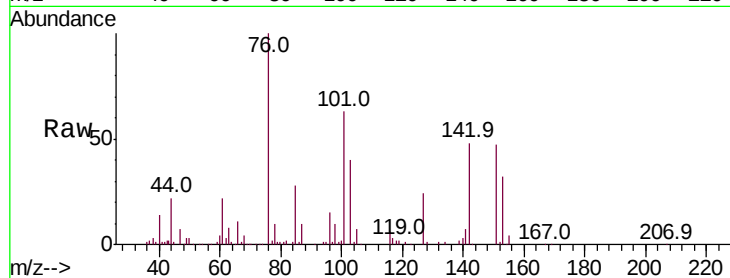
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	137153
Ion Ratio	Lower	Upper	
101	100		
85	45.0	34.6	52.0
151	74.1	61.7	92.5

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:39:54 PM



#10

Methyl Iodide

Concen: 50.010 ug/l m

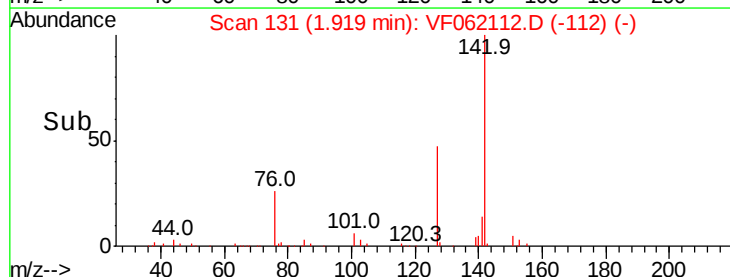
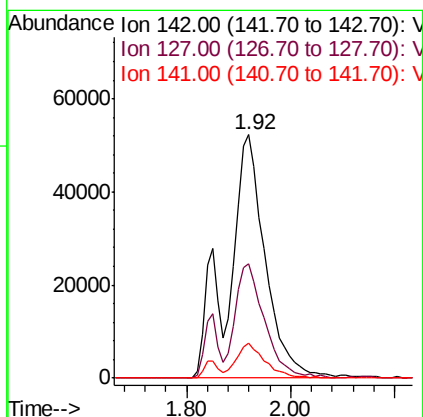
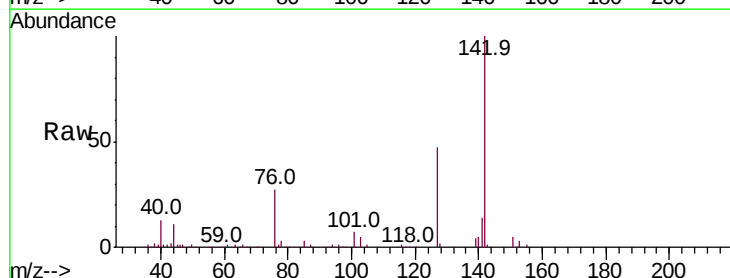
RT: 1.92 min Scan# 131

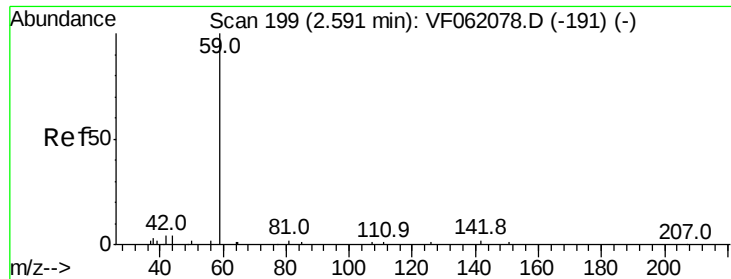
Delta R.T. -0.01 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tgt Ion:	142	Resp:	259914
Ion Ratio	Lower	Upper	
142	100		
127	47.2	39.1	58.7
141	14.5	12.2	18.4





#11

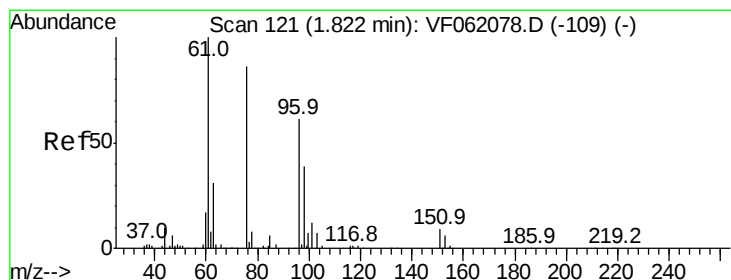
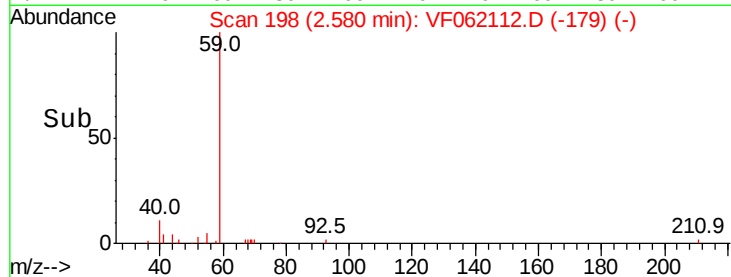
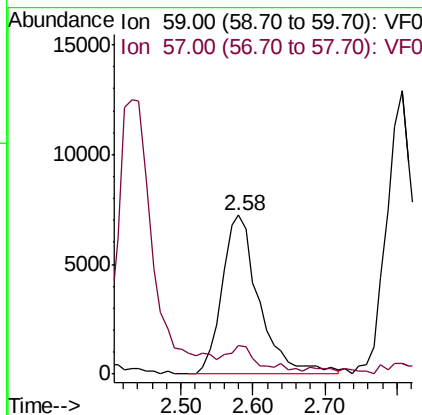
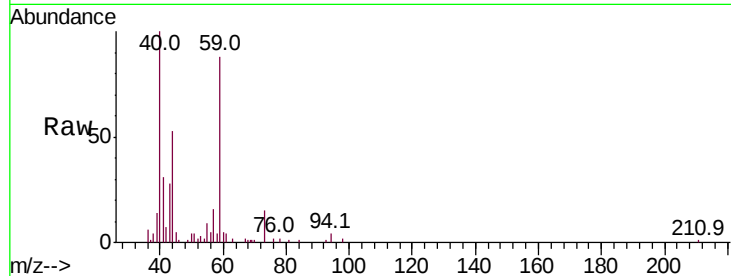
Tert butyl alcohol
Concen: 235.400 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.01 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	18.0	11.0	16.4#

Manual Integrations
APPROVED

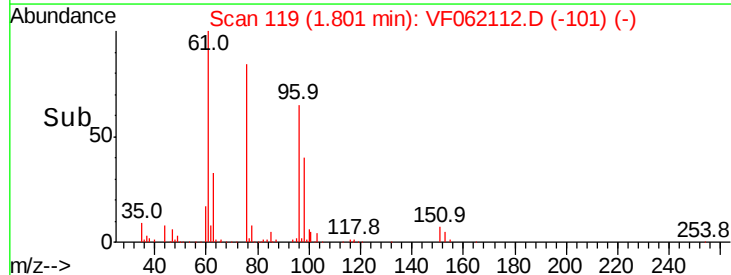
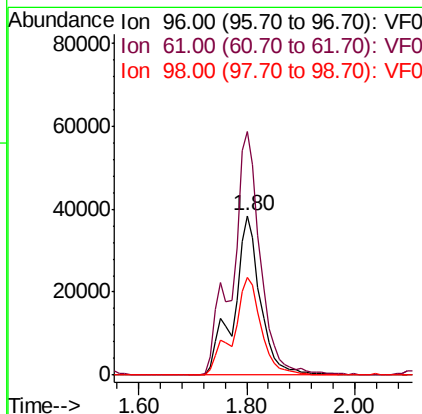
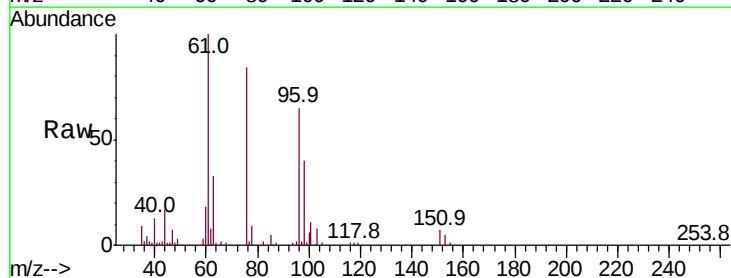
MMDadoda
3/25/2019 12:39:54 PM

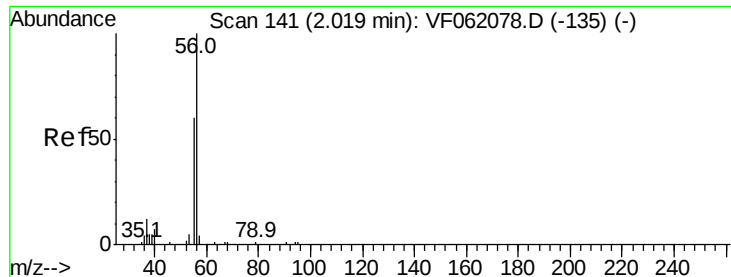


#12

1,1-Dichloroethene
Concen: 51.533 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.9	131.0	196.6
98	61.6	51.5	77.3





#13

Acrolein

Concen: 242.317 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 31925

Ion Ratio Lower Upper

56 100

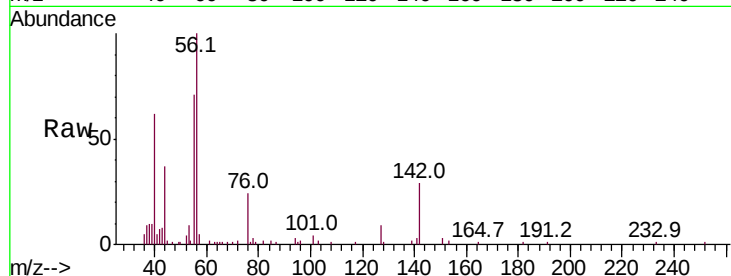
55 70.9 49.0 73.4

Manual Integrations

APPROVED

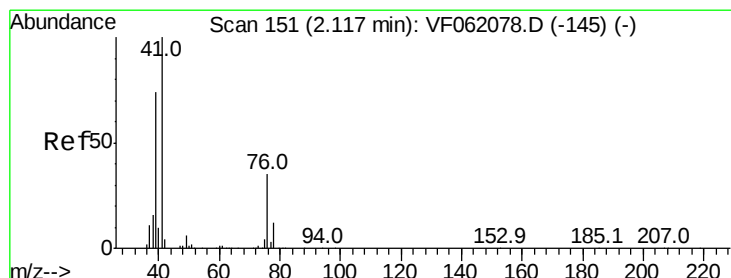
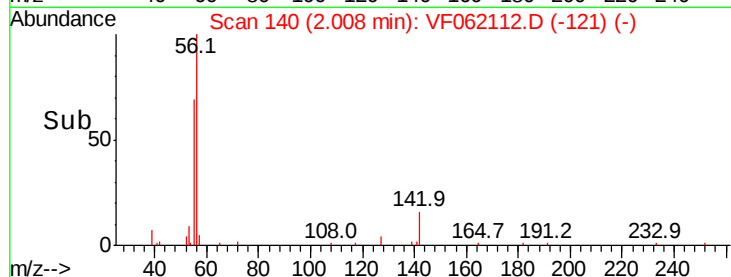
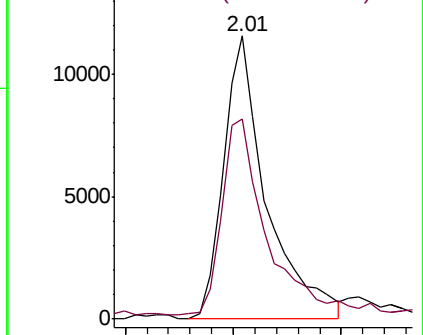
MMDadoda

3/25/2019 12:39:54 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 51.525 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

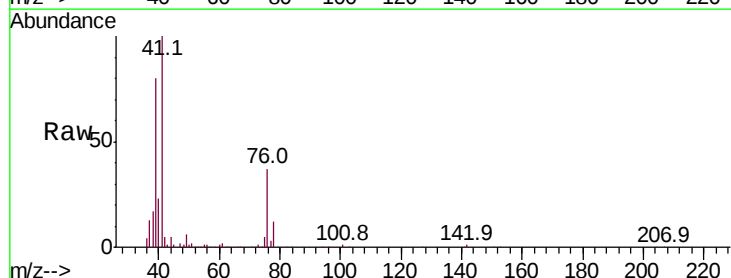
Tgt Ion: 41 Resp: 141956

Ion Ratio Lower Upper

41 100

39 80.5 59.8 89.8

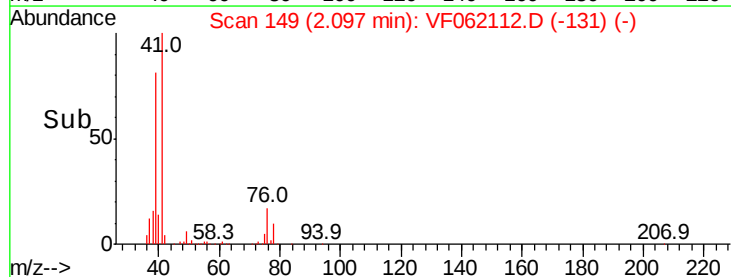
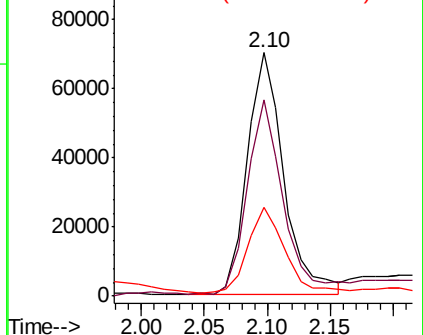
76 36.6 30.0 45.0

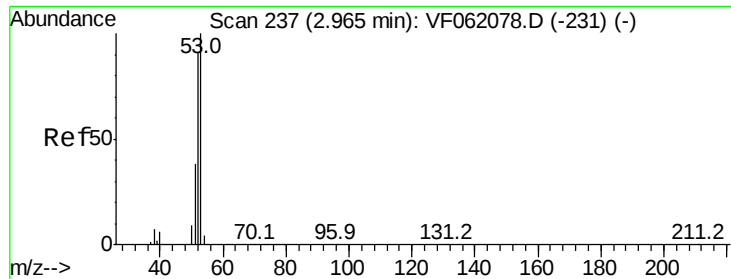


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





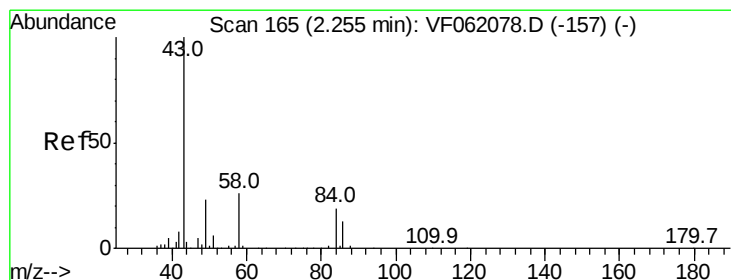
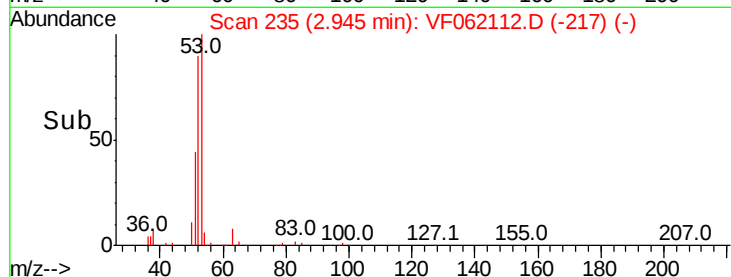
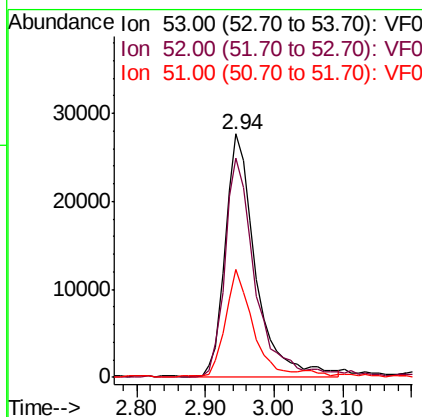
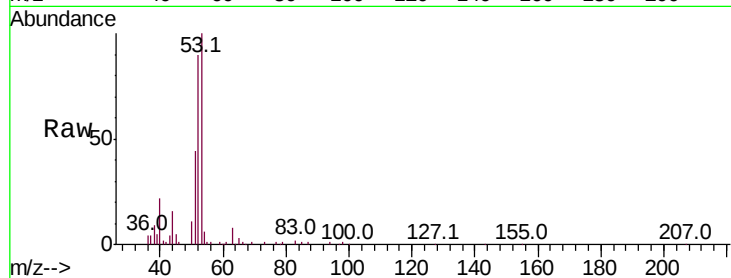
#15
 Acrylonitrile
 Concen: 222.165 ug/l
 RT: 2.94 min Scan# 235
 Delta R.T. -0.02 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	90.0	72.3	108.5
51	44.1	30.4	45.6

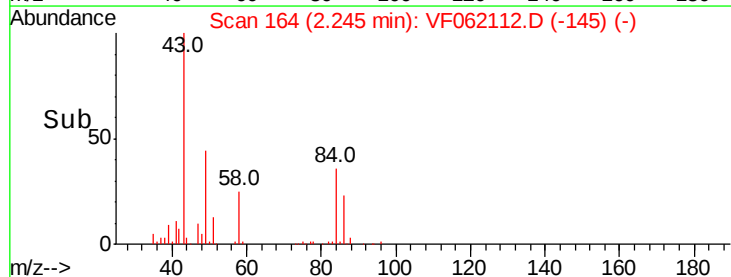
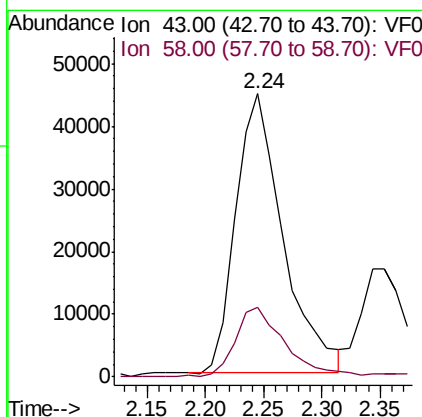
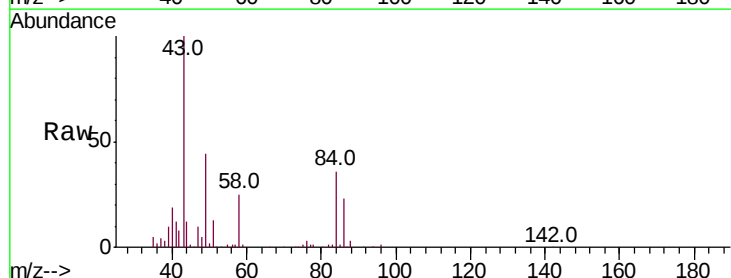
Manual Integrations
 APPROVED

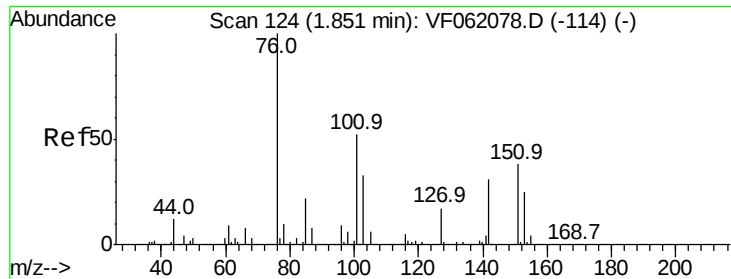
MMDadoda
 3/25/2019 12:39:54 PM



#16
 Acetone
 Concen: 299.881 ug/l
 RT: 2.24 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.7	20.8	31.2





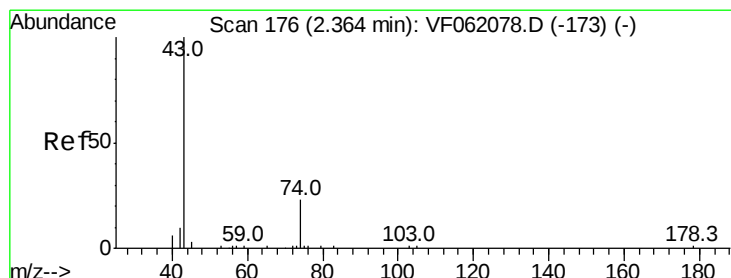
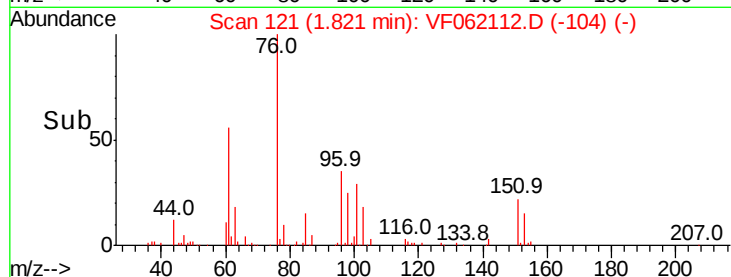
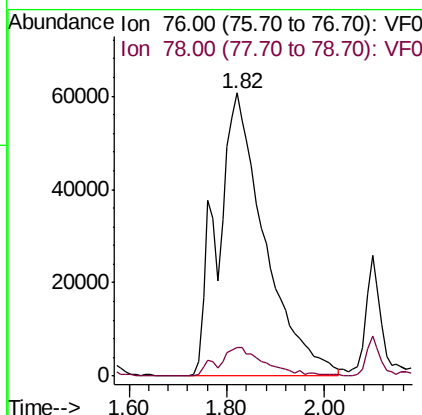
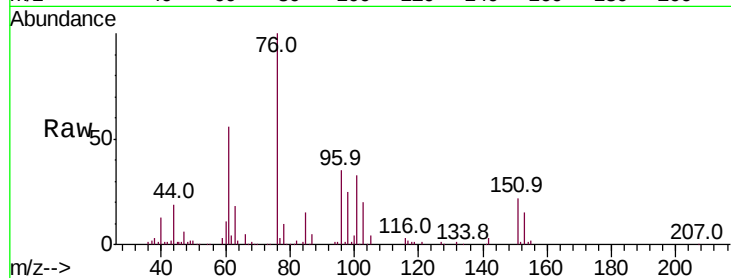
#17
Carbon Disulfide
Concen: 51.891 ug/l m
RT: 1.82 min Scan# 121
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 408330
Ion Ratio Lower Upper
76 100
78 10.2 7.9 11.9

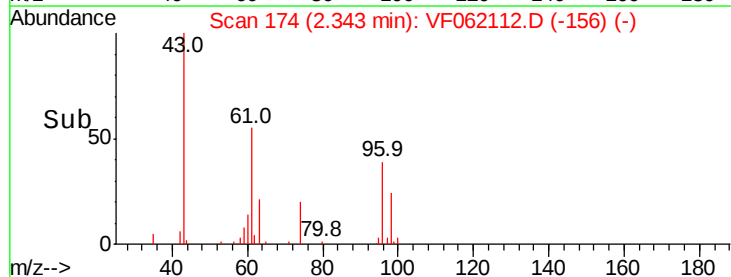
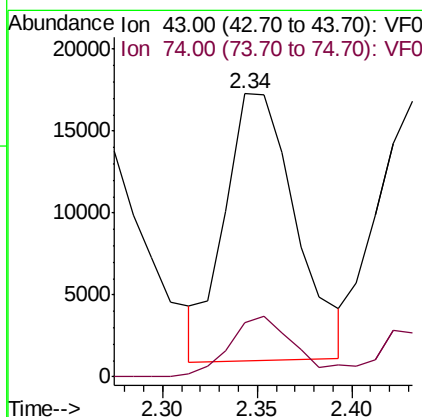
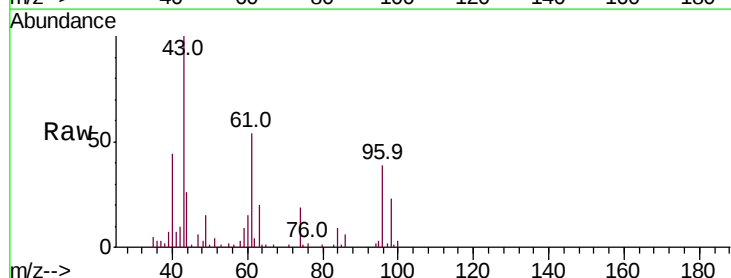
Manual Integrations
APPROVED

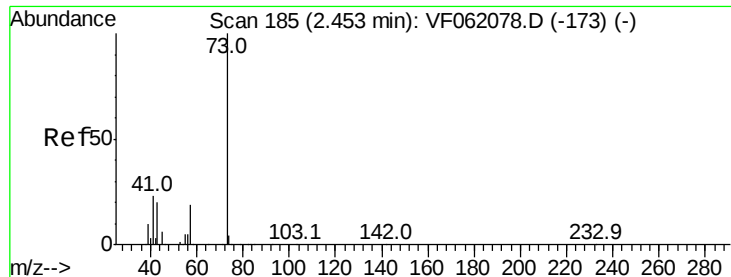
MMDadoda
3/25/2019 12:39:54 PM



#18
Methyl Acetate
Concen: 42.483 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion: 43 Resp: 42470
Ion Ratio Lower Upper
43 100
74 19.2 16.3 24.5





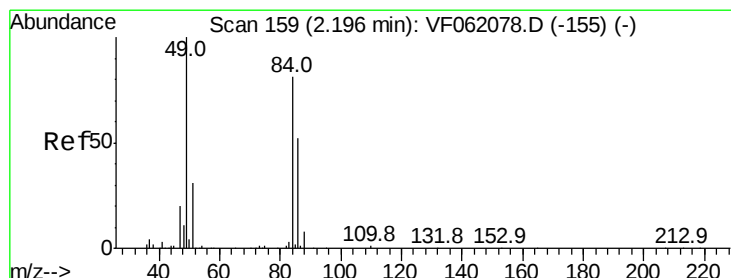
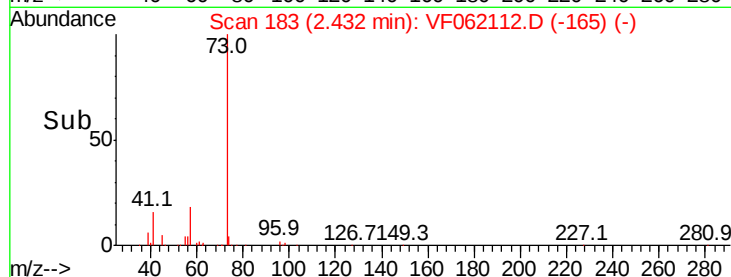
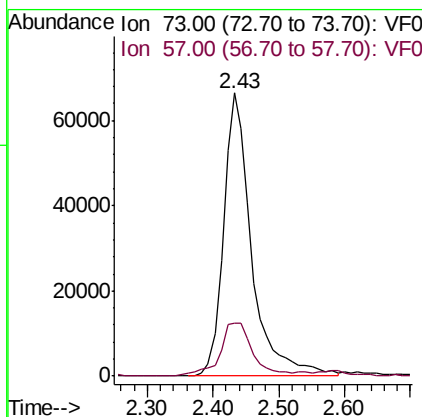
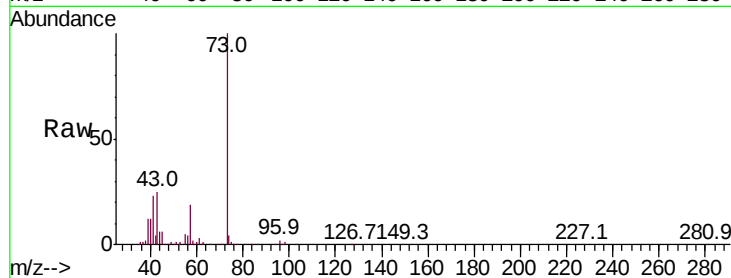
#19
Methyl tert-butyl Ether
Concen: 48.490 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 197766
Ion Ratio Lower Upper
73 100
57 18.8 15.1 22.7

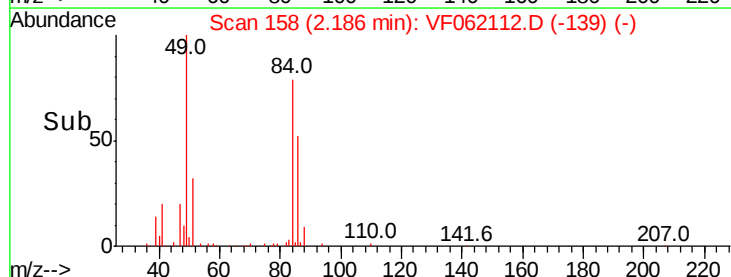
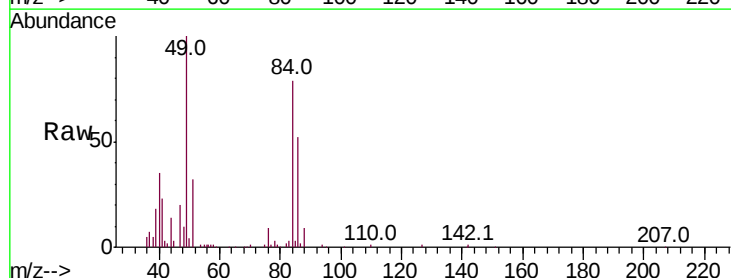
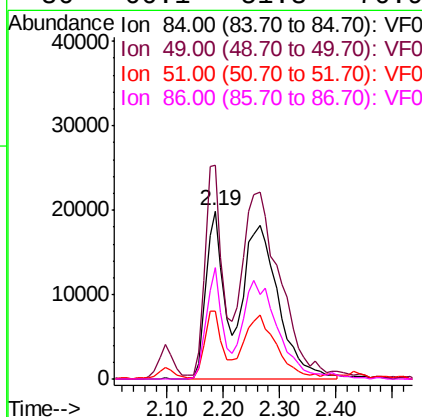
Manual Integrations
APPROVED

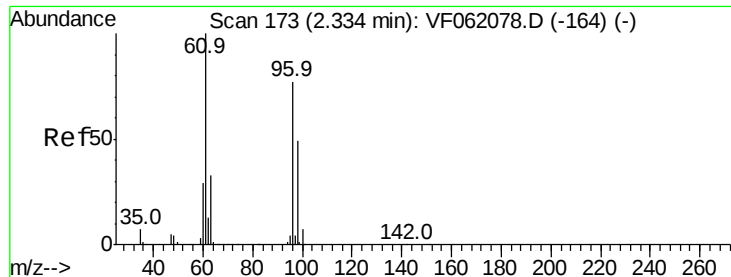
MMDadoda
3/25/2019 12:39:54 PM



#20
Methylene Chloride
Concen: 48.153 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion: 84 Resp: 121634
Ion Ratio Lower Upper
84 100
49 126.9 100.4 150.6
51 40.0 31.0 46.6
86 66.1 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 43.316 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 96 Resp: 107549

Ion Ratio Lower Upper

96 100

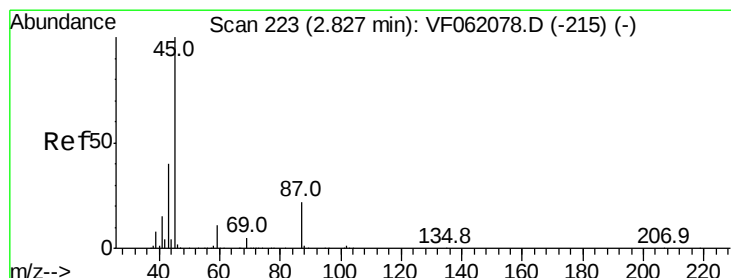
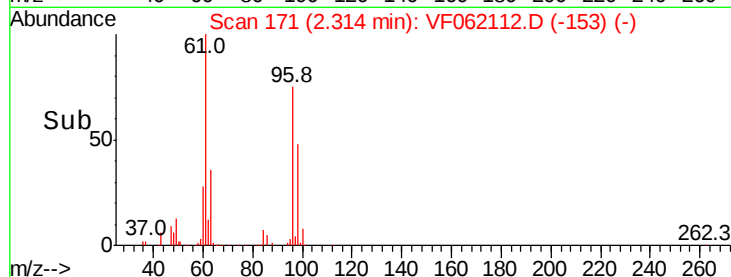
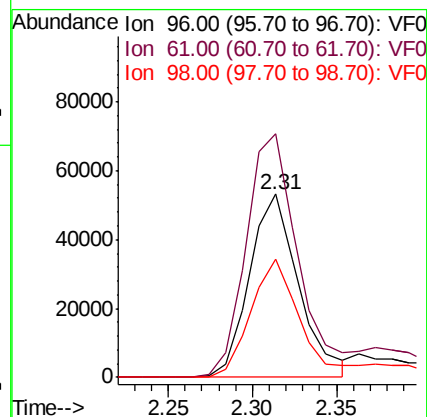
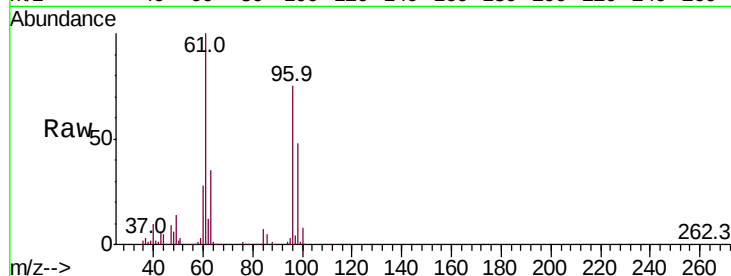
61 133.0 104.5 156.7

98 64.3 51.2 76.8

Manual Integrations
APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#22

Diisopropyl ether

Concen: 48.559 ug/l

RT: 2.81 min Scan# 221

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tgt Ion: 45 Resp: 350762

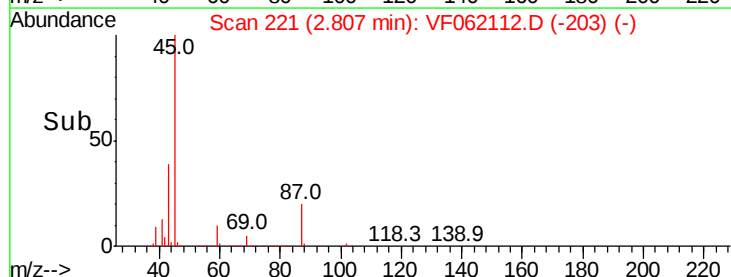
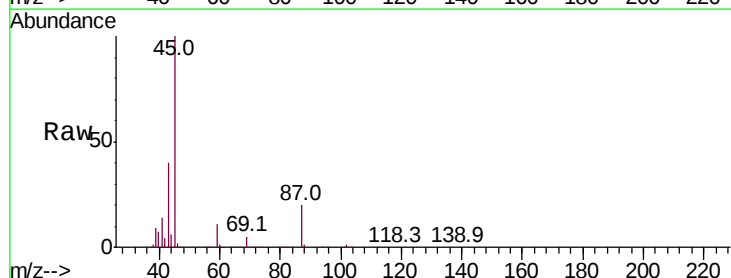
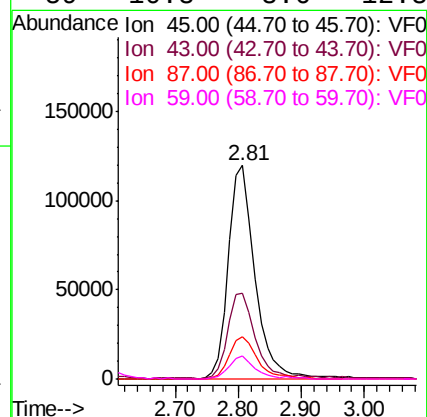
Ion Ratio Lower Upper

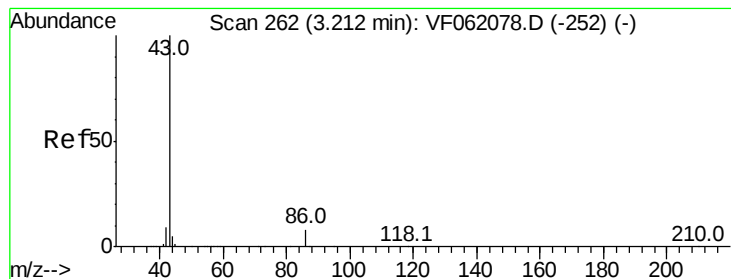
45 100

43 40.3 32.5 48.7

87 19.5 17.4 26.2

59 10.8 8.6 12.8





#23

Vinyl Acetate

Concen: 260.493 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 770404

Ion Ratio Lower Upper

43 100

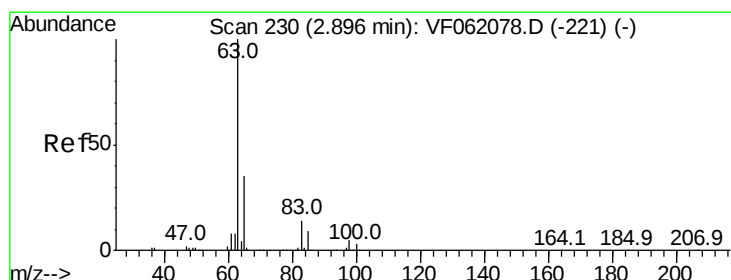
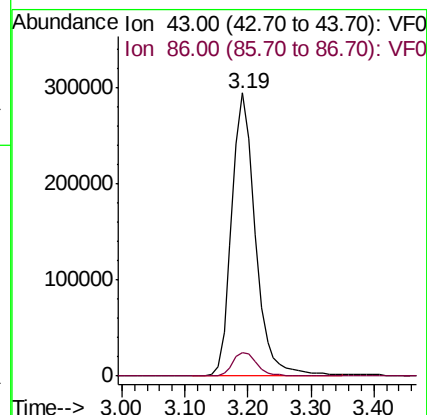
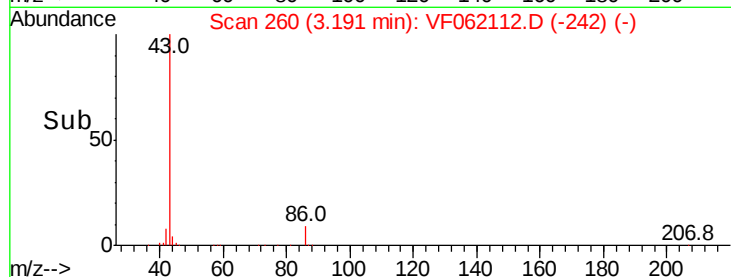
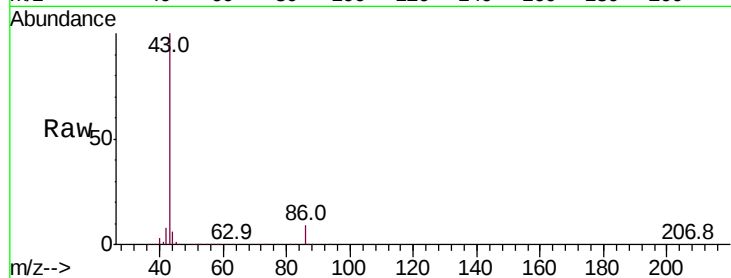
86 8.5 6.8 10.2

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#24

1,1-Dichloroethane

Concen: 50.376 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

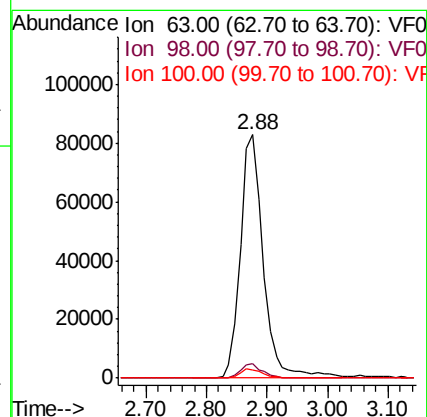
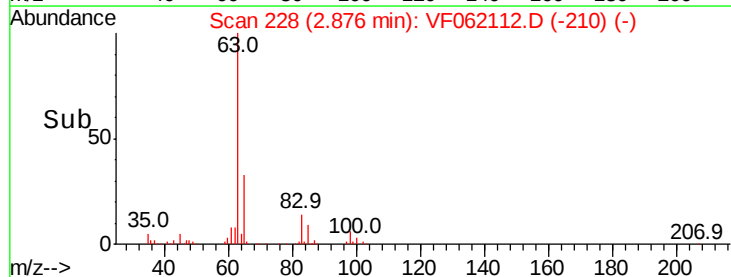
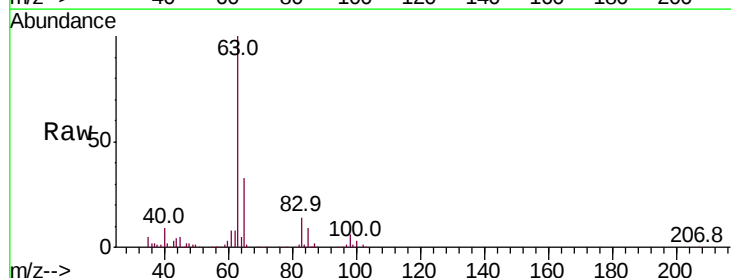
Tgt Ion: 63 Resp: 218217

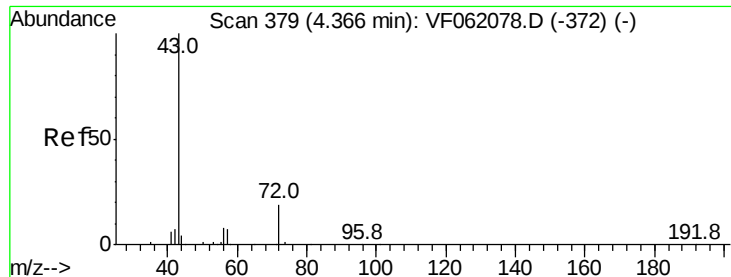
Ion Ratio Lower Upper

63 100

98 6.0 2.7 8.1

100 3.5 1.7 5.1





#25

2-Butanone

Concen: 256.989 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 224841

Ion Ratio Lower Upper

43 100

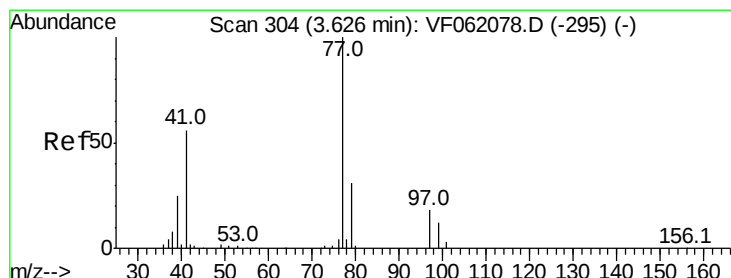
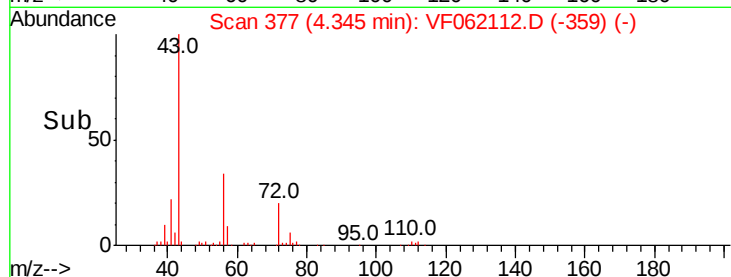
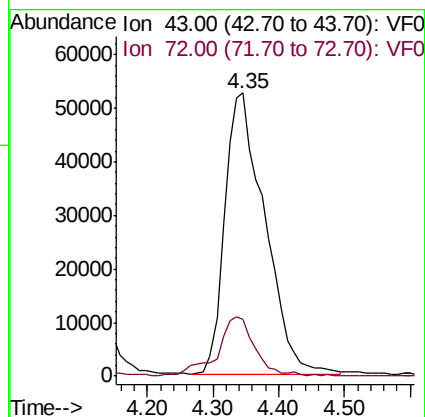
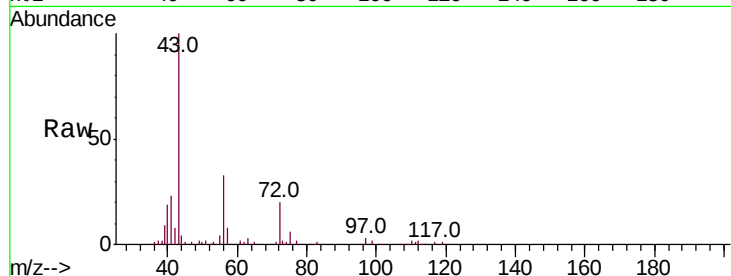
72 20.1 16.7 25.1

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#26

2,2-Dichloropropane

Concen: 53.007 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.02 min

Lab File: VF062112.D

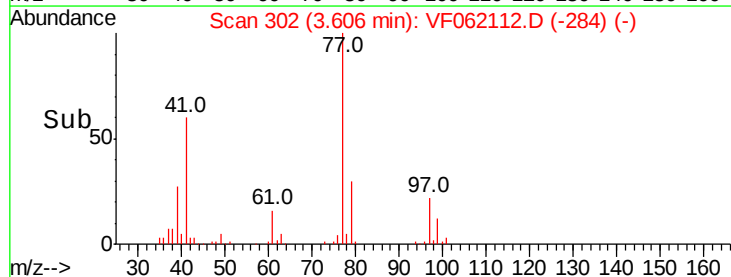
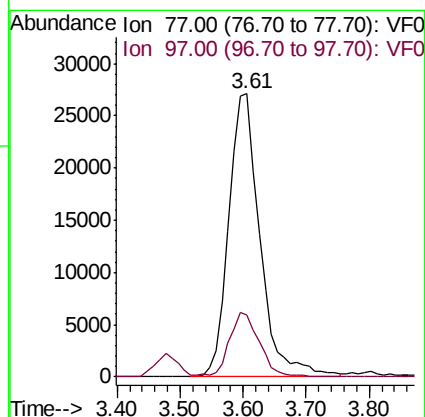
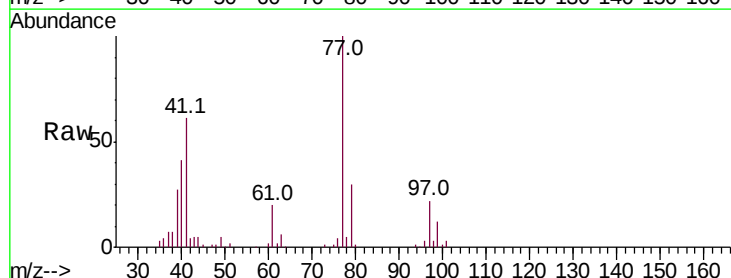
Acq: 23 Mar 2019 11:54

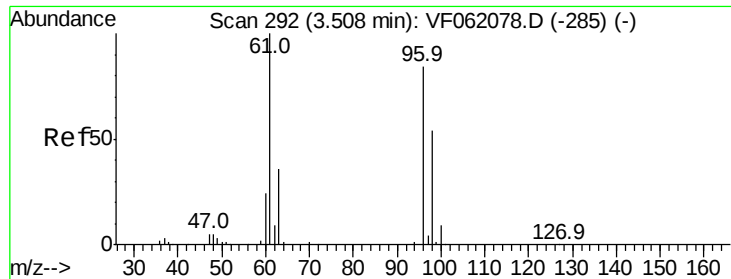
Tgt Ion: 77 Resp: 93098

Ion Ratio Lower Upper

77 100

97 21.7 10.3 30.9





#27

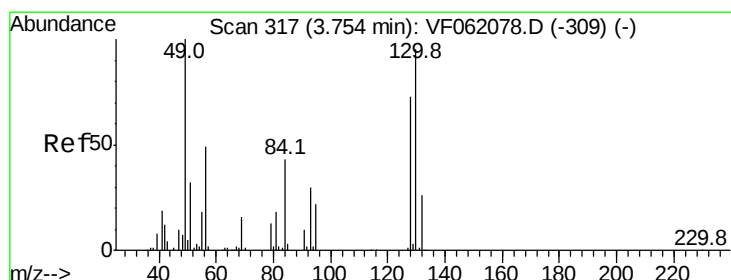
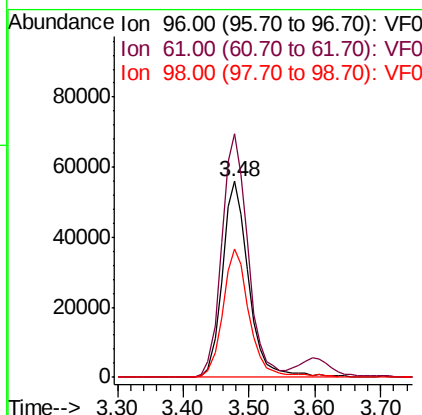
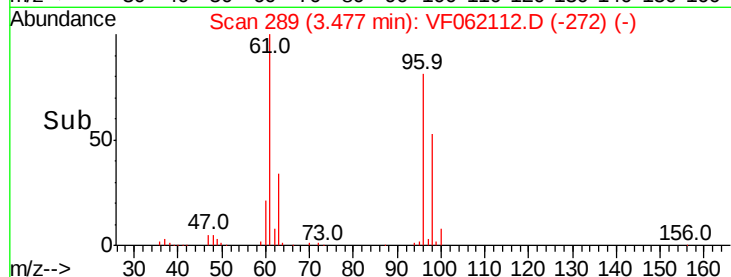
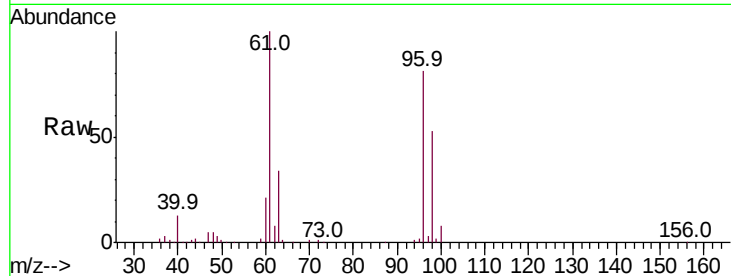
cis-1,2-Dichloroethene
Concen: 47.440 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	156083		
61	124.2	0.0	239.0	
98	65.4	0.0	128.2	

Manual Integrations
APPROVED

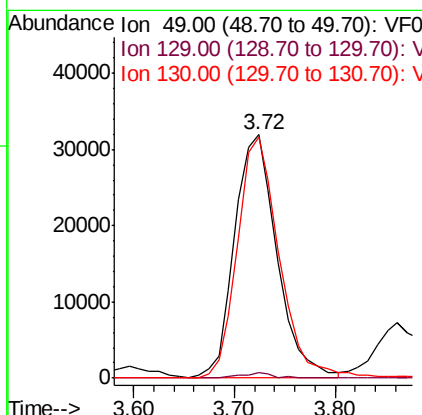
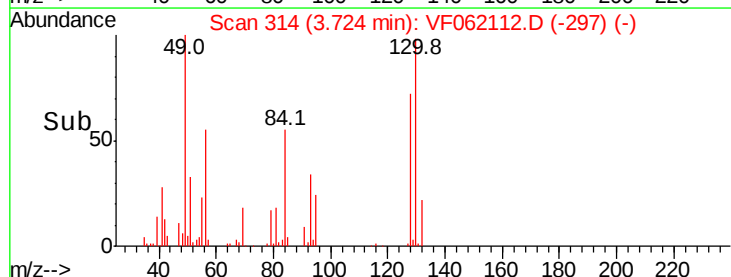
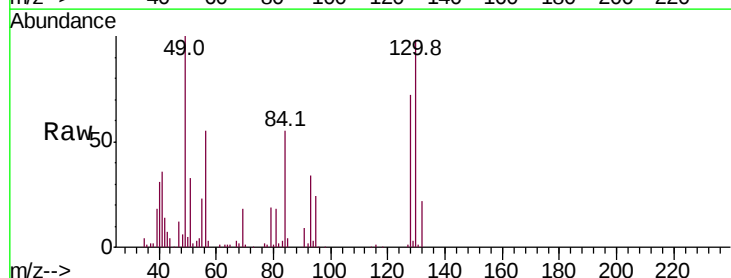
MMDadoda
3/25/2019 12:39:54 PM

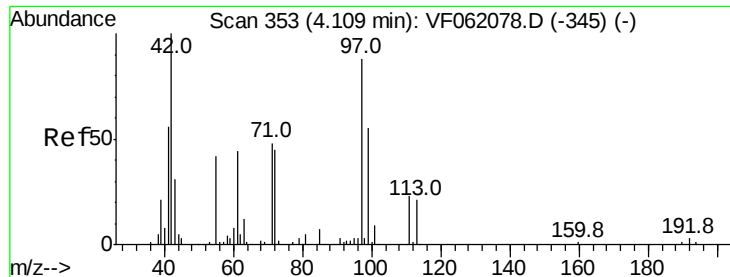


#28

Bromochloromethane
Concen: 52.947 ug/l
RT: 3.72 min Scan# 314
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	93709		
129	2.5	0.0	5.6	
130	99.0	75.5	113.3	





#29

Tetrahydrofuran

Concen: 230.476 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

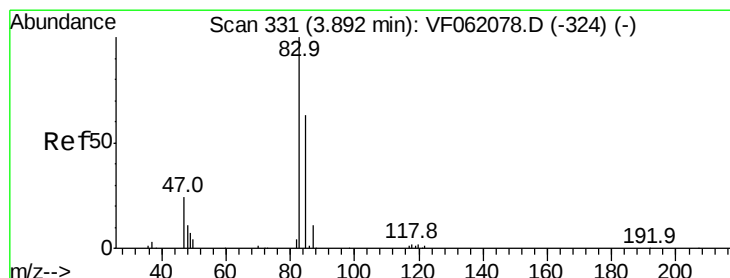
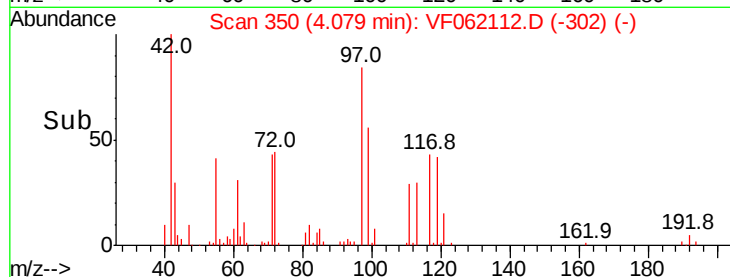
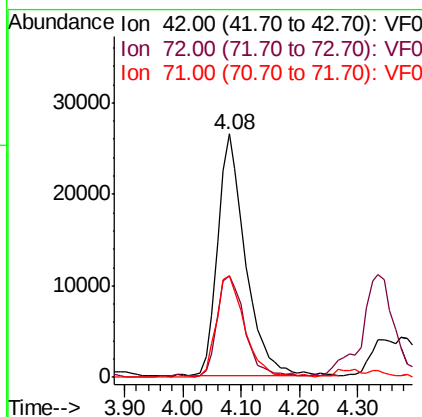
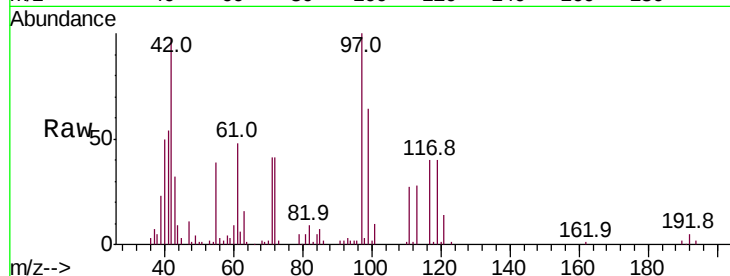
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	87672
Ion Ratio	Lower	Upper	
42	100		
72	42.3	33.3	49.9
71	43.0	35.0	52.4

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:39:54 PM



#30

Chloroform

Concen: 52.247 ug/l

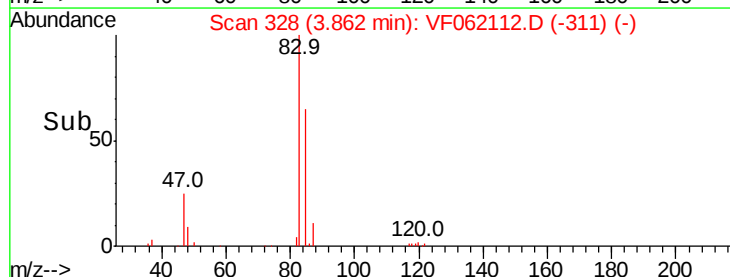
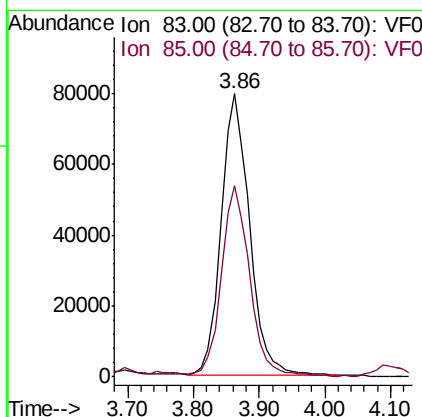
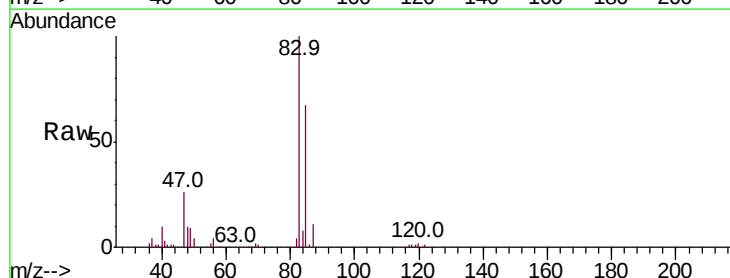
RT: 3.86 min Scan# 328

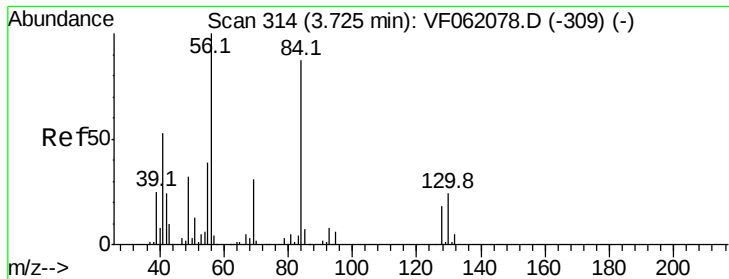
Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tgt Ion:	83	Resp:	239182
Ion Ratio	Lower	Upper	
83	100		
85	67.4	51.5	77.3





#31

Cyclohexane

Concen: 49.472 ug/l

RT: 3.69 min Scan# 311

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

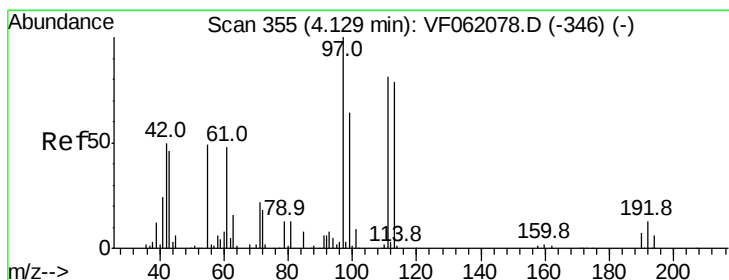
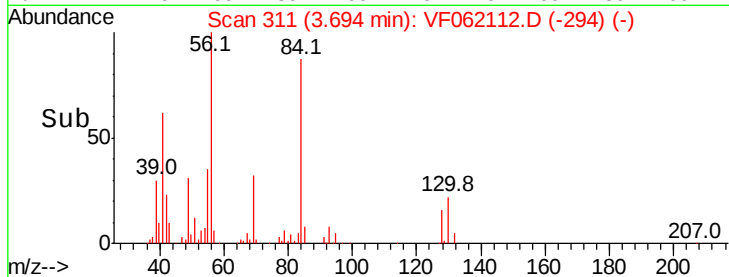
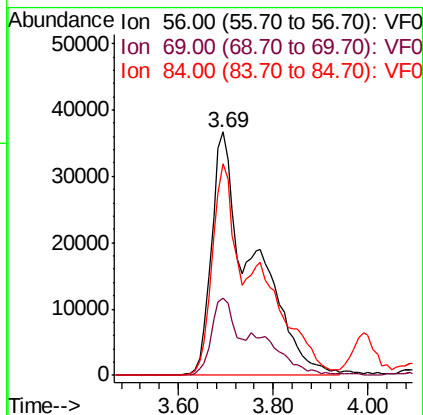
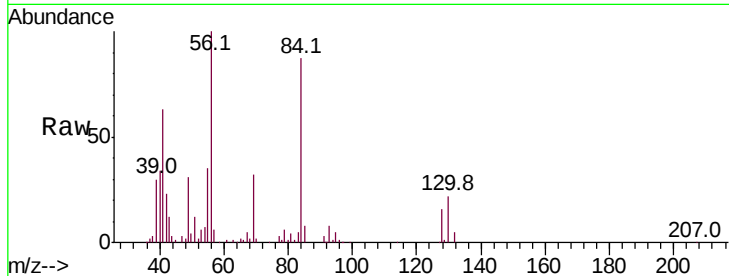
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	223816
Ion	Ratio	Lower	Upper
56	100		
69	31.9	25.9	38.9
84	87.0	71.1	106.7

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:39:54 PM



#32

1,1,1-Trichloroethane

Concen: 49.251 ug/l

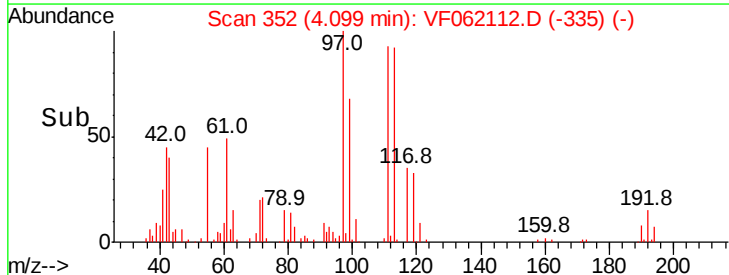
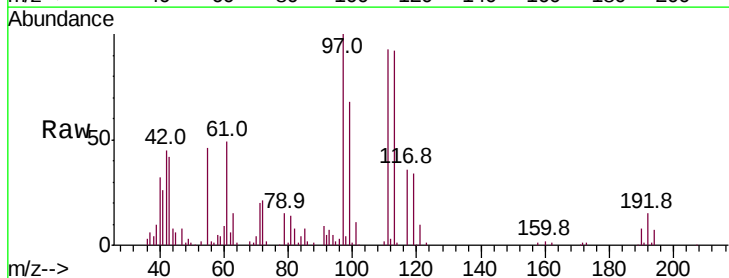
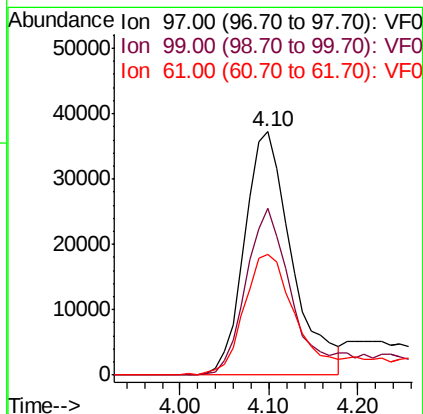
RT: 4.10 min Scan# 352

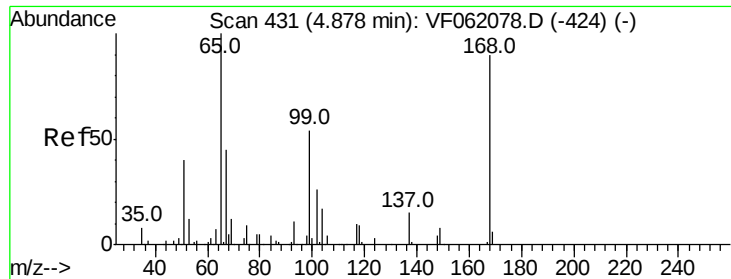
Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tgt Ion:	97	Resp:	137151
Ion	Ratio	Lower	Upper
97	100		
99	68.4	51.3	76.9
61	49.4	39.0	58.6





#33

1,2-Dichloroethane-d4

Concen: 54.152 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 107830

Ion Ratio Lower Upper

65 100

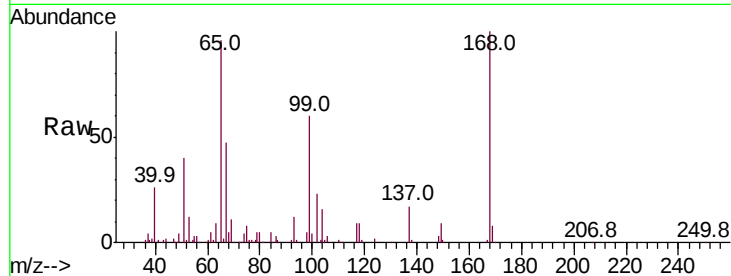
67 48.9 0.0 106.2

Manual Integrations

APPROVED

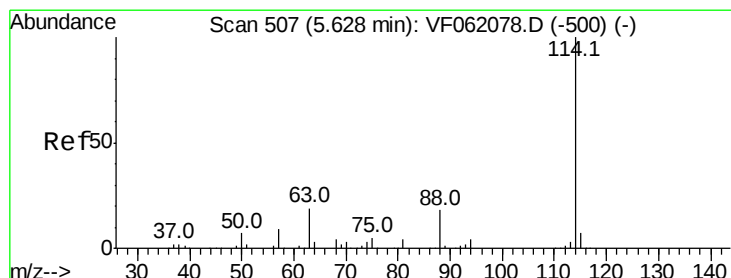
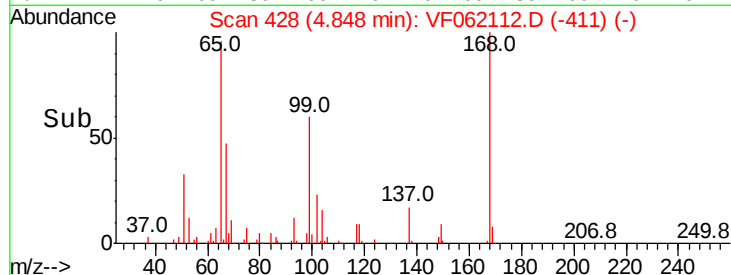
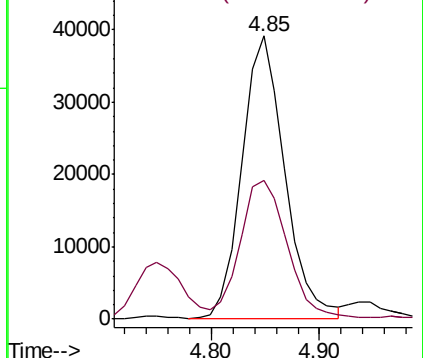
MMDadoda

3/25/2019 12:39:54 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

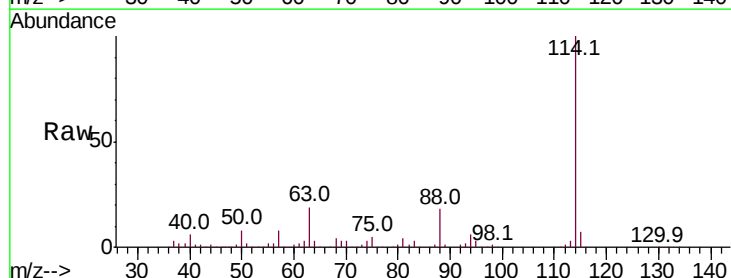
Tgt Ion: 114 Resp: 416012

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.8

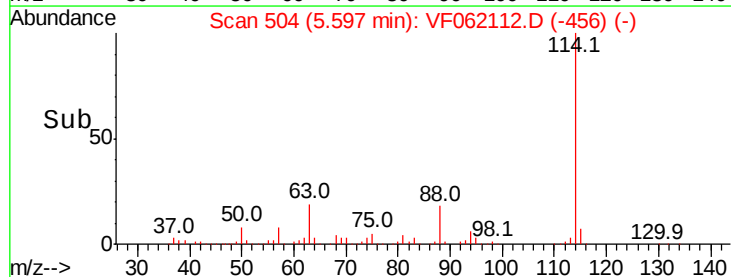
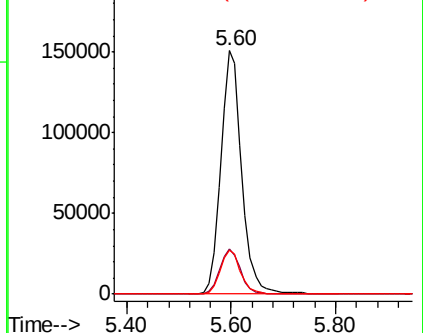
88 18.3 0.0 36.4

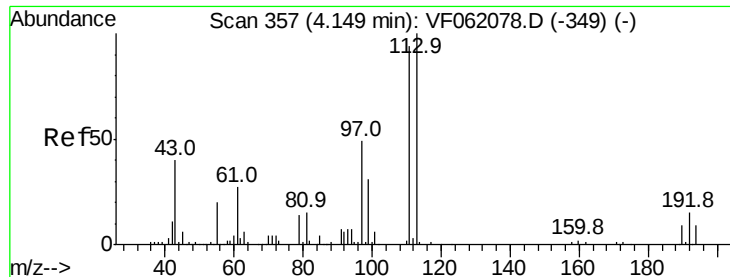


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 55.440 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

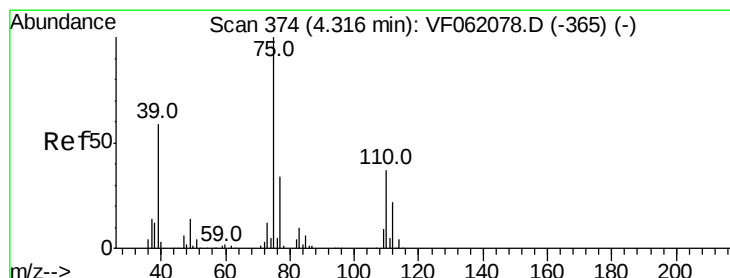
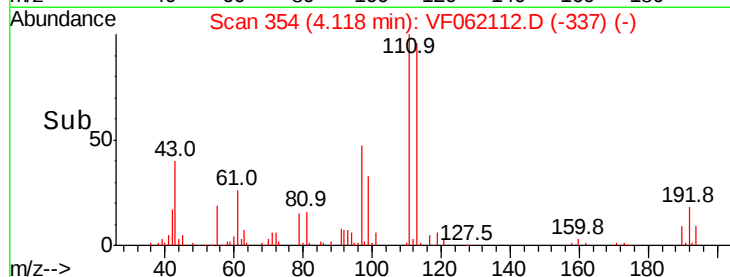
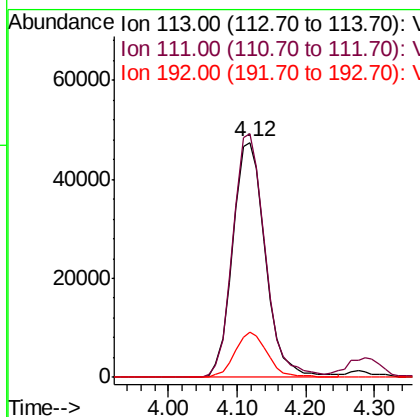
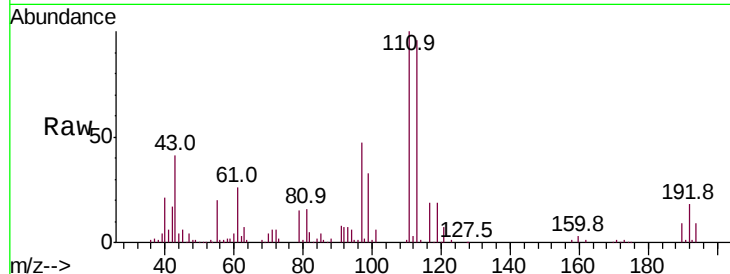
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	156016		
111	103.7	75.4	113.0	
192	19.7	12.3	18.5#	

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:39:54 PM



#36

1,1-Dichloropropene

Concen: 50.301 ug/l

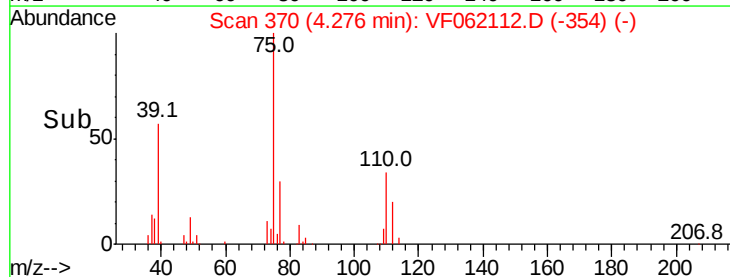
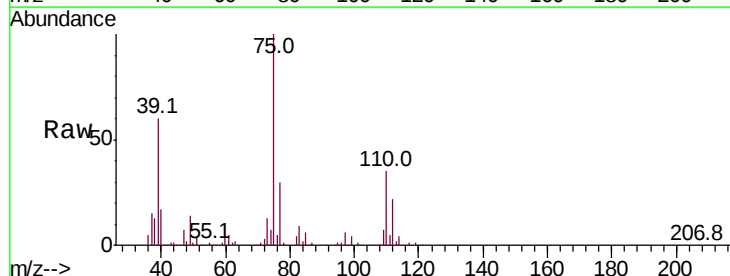
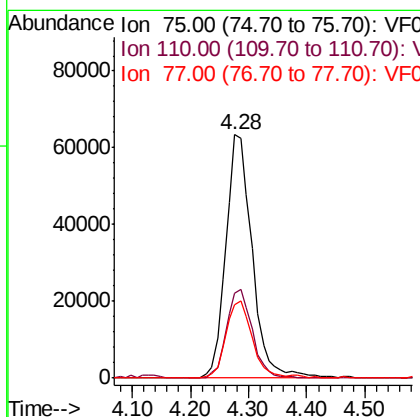
RT: 4.28 min Scan# 370

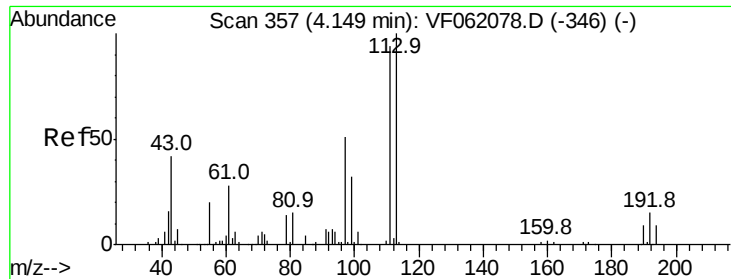
Delta R.T. -0.04 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	199318		
110	34.7	18.5	55.5	
77	30.1	27.4	41.0	





#37

Ethyl Acetate

Concen: 46.407 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF062112.D

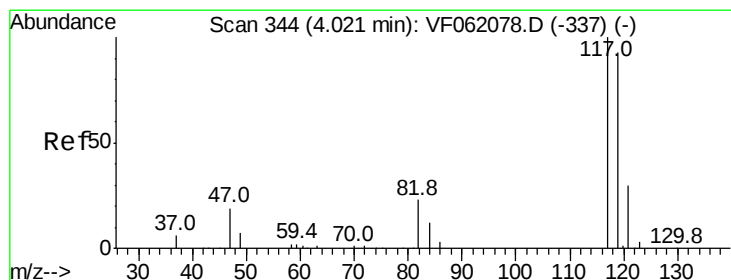
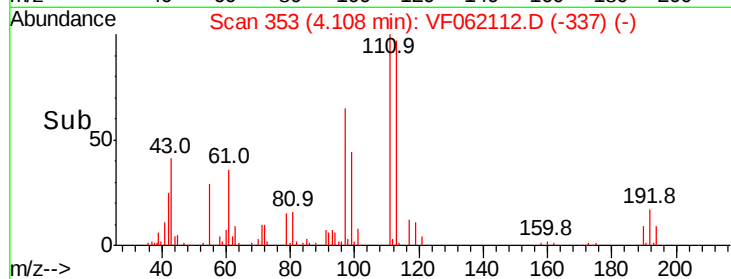
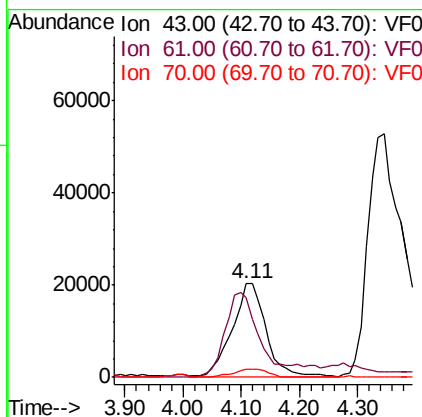
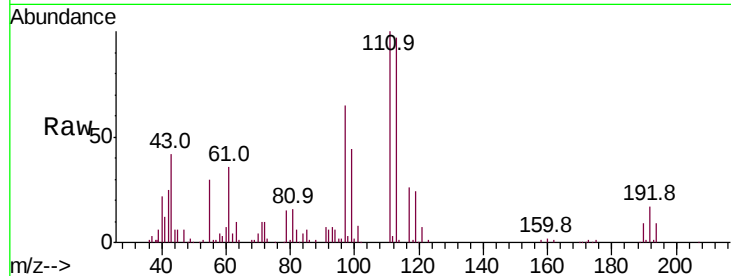
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	43	Resp:	80364
Ion	Ratio	Lower	Upper
43	100		
61	85.3	53.6	80.4#
70	8.4	9.0	13.6#

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:39:54 PM



#38

Carbon Tetrachloride

Concen: 49.823 ug/l

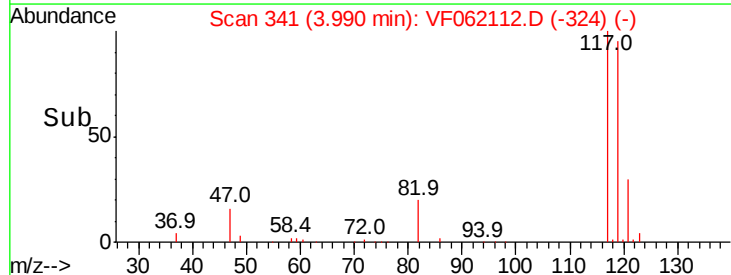
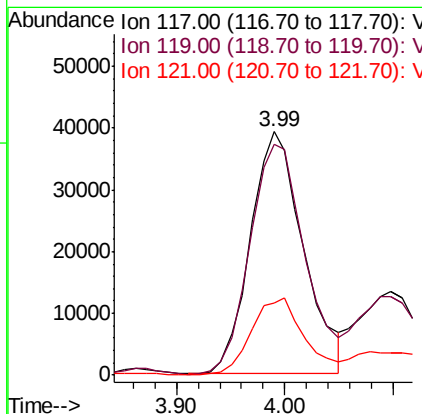
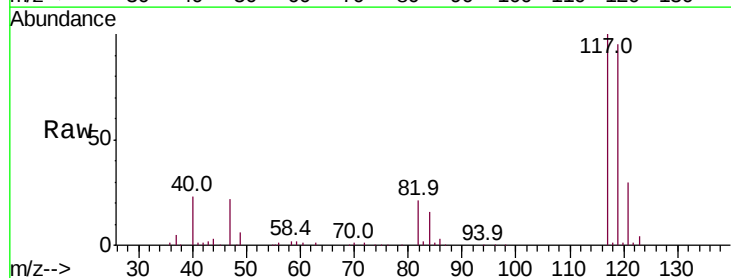
RT: 3.99 min Scan# 341

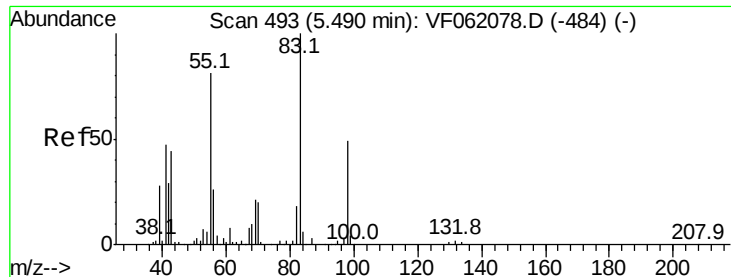
Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tgt Ion:	117	Resp:	134558
Ion	Ratio	Lower	Upper
117	100		
119	94.9	74.7	112.1
121	29.5	23.6	35.4





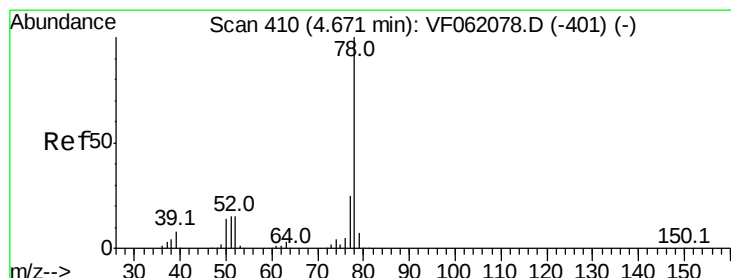
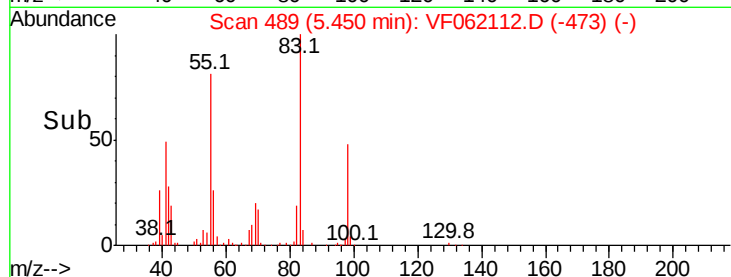
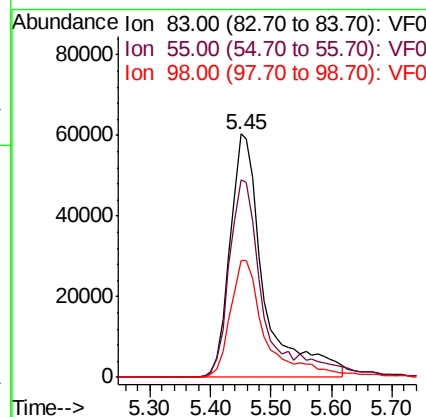
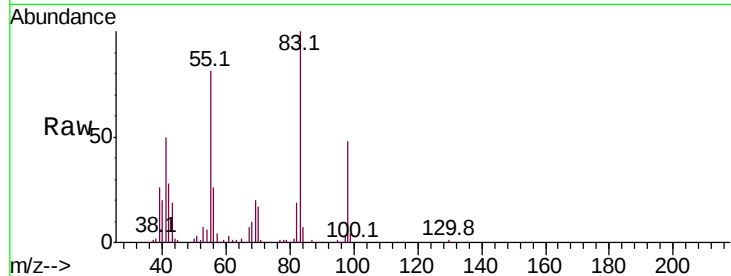
#39
Methvlcvclohexane
Concen: 51.168 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.04 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	235318		
55	80.9	64.5	96.7	
98	47.8	39.1	58.7	

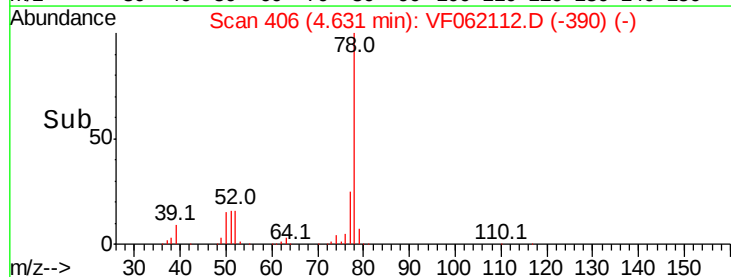
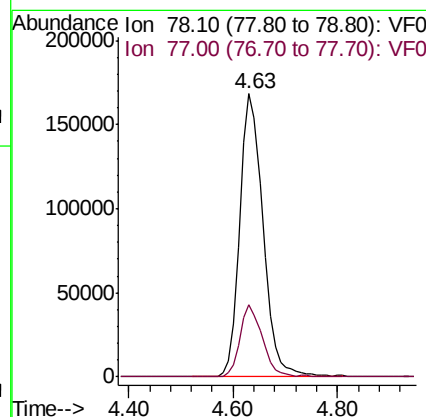
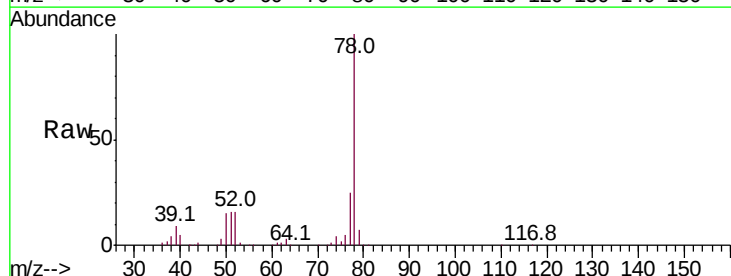
Manual Integrations
APPROVED

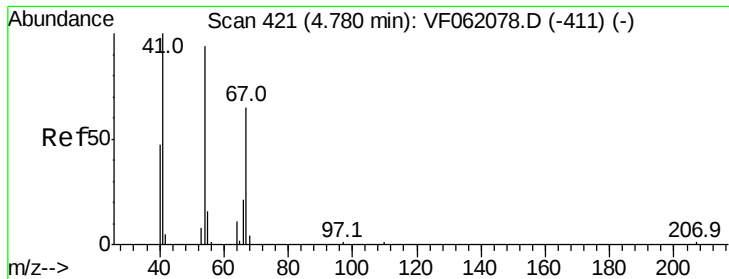
MMDadoda
3/25/2019 12:39:54 PM



#40
Benzene
Concen: 47.657 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	506248		
77	25.4	19.8	29.6	





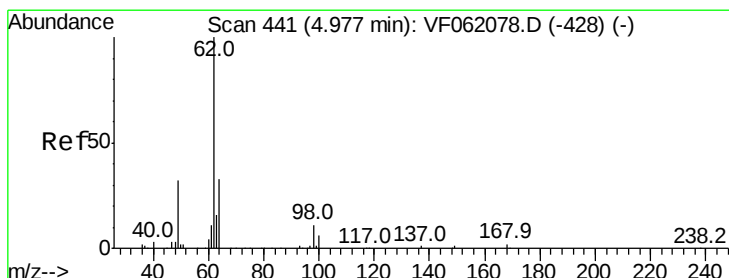
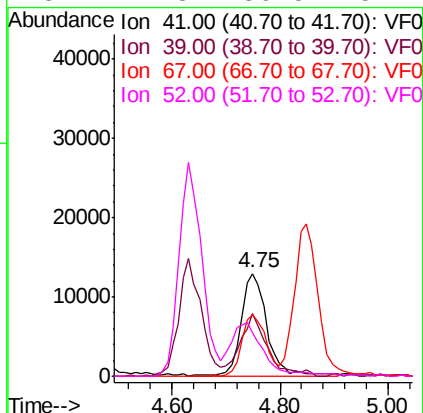
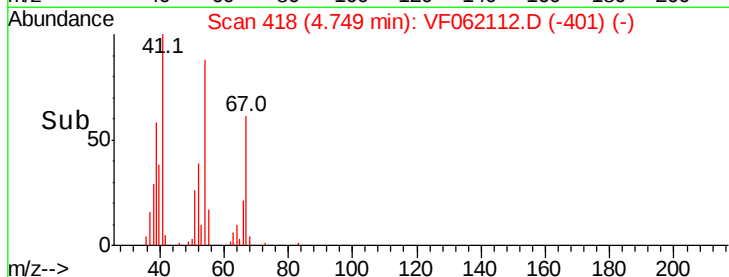
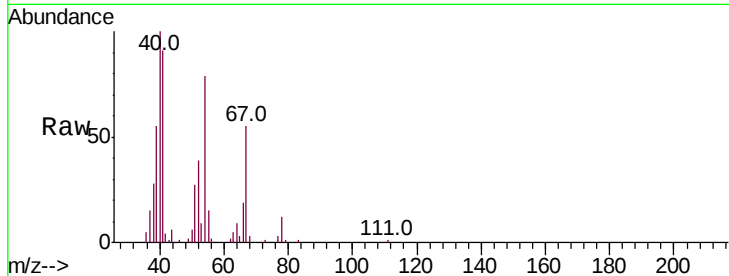
#41
Methacrylonitrile
Concen: 47.513 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.6	43.5	65.3
67	60.4	51.6	77.4
52	42.3	36.5	54.7

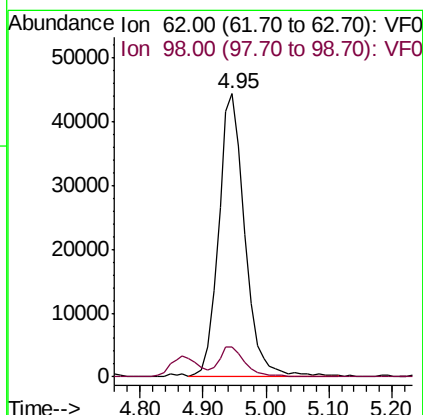
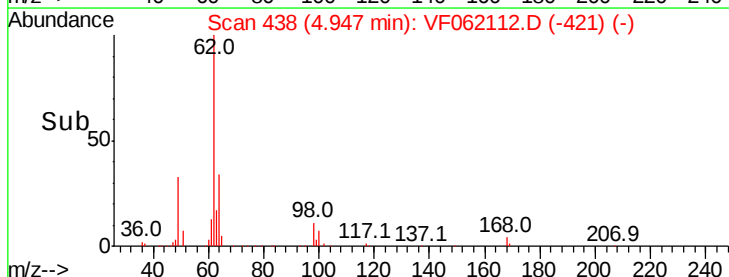
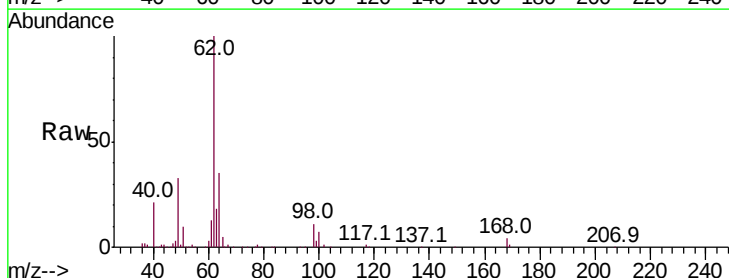
Manual Integrations
APPROVED

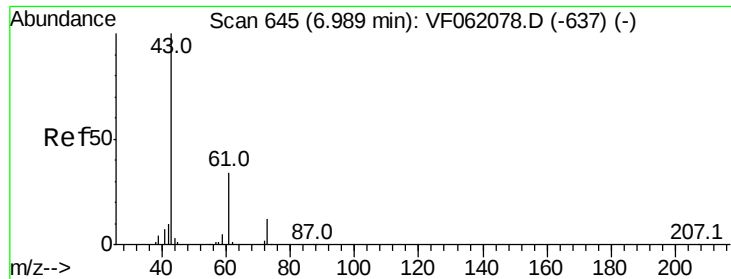
MMDadoda
3/25/2019 12:39:54 PM



#42
1,2-Dichloroethane
Concen: 50.477 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	23.2





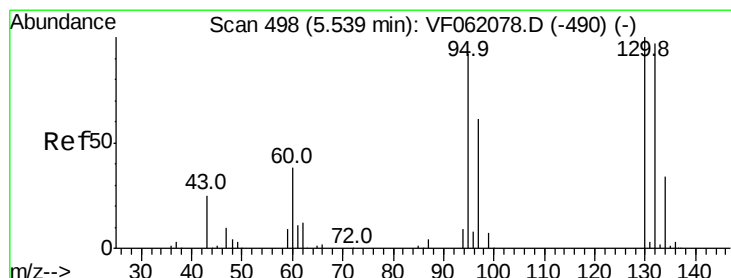
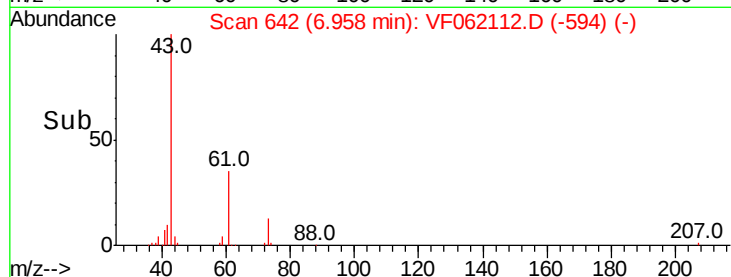
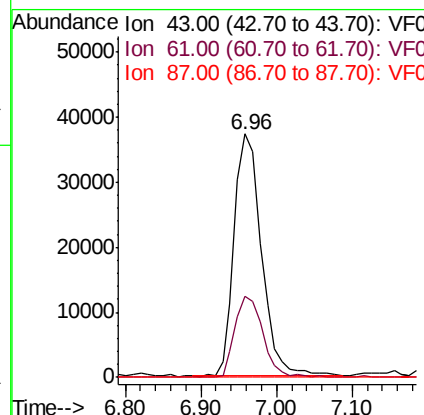
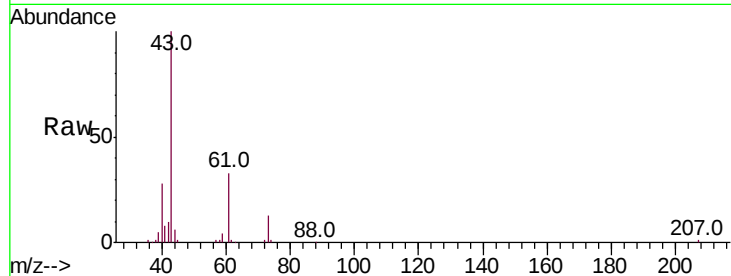
#43
Isopropyl Acetate
Concen: 44.546 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.2	27.0	40.4
87	0.0	0.4	0.6

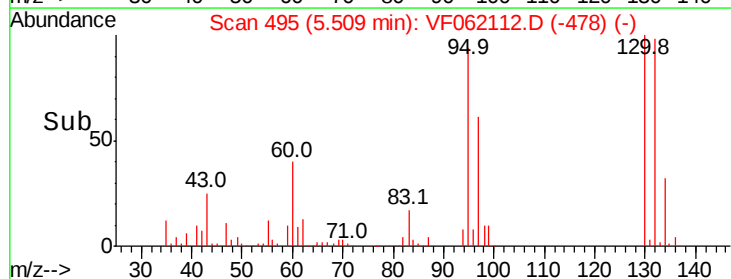
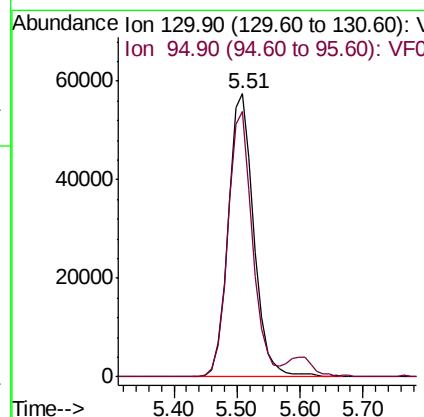
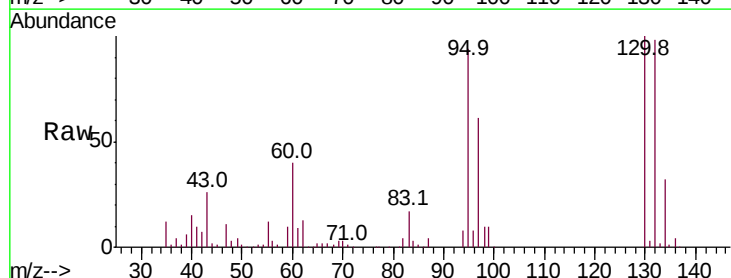
Manual Integrations
APPROVED

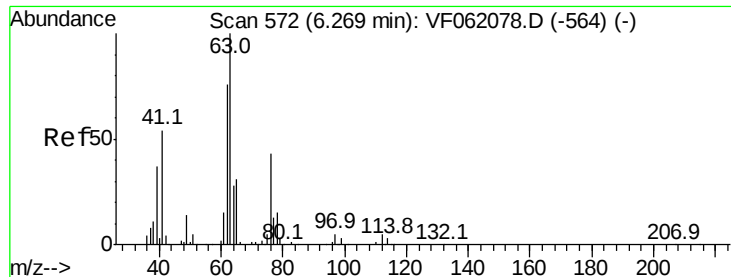
MMDadoda
3/25/2019 12:39:54 PM



#44
Trichloroethene
Concen: 49.408 ug/l
RT: 5.51 min Scan# 495
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.6	0.0	183.4





#45

1,2-Dichloropropane

Concen: 48.557 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 123026

Ion Ratio Lower Upper

63 100

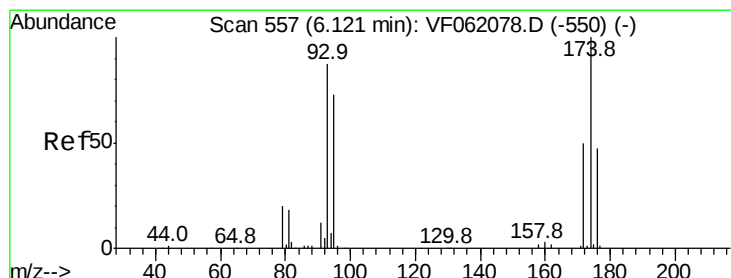
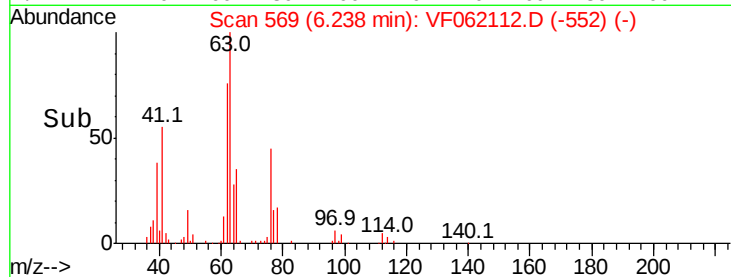
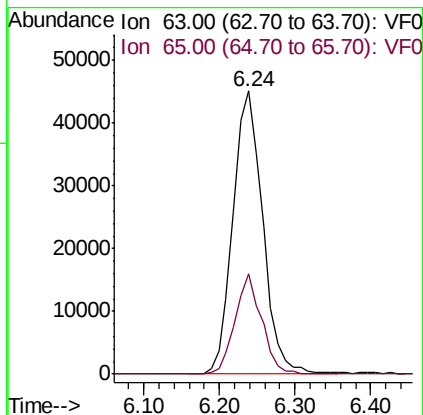
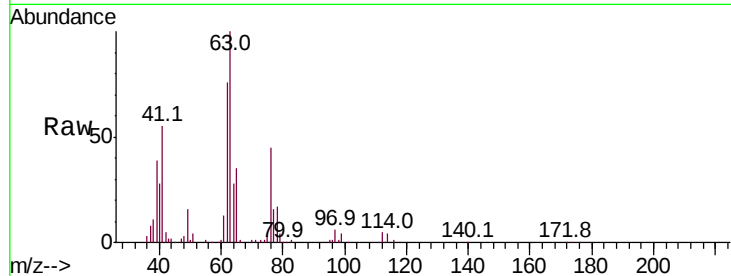
65 35.4 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#46

Dibromomethane

Concen: 49.185 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

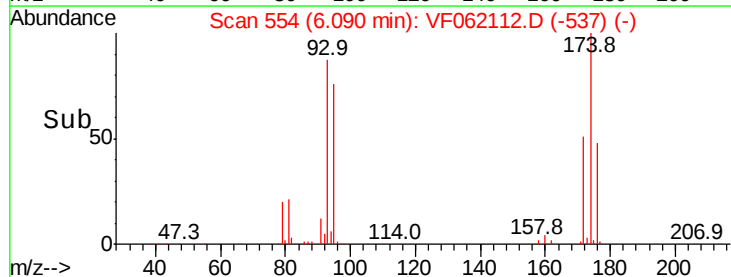
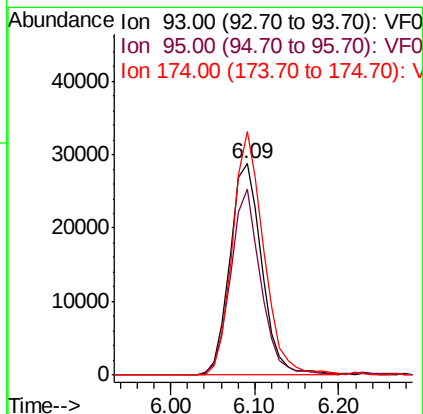
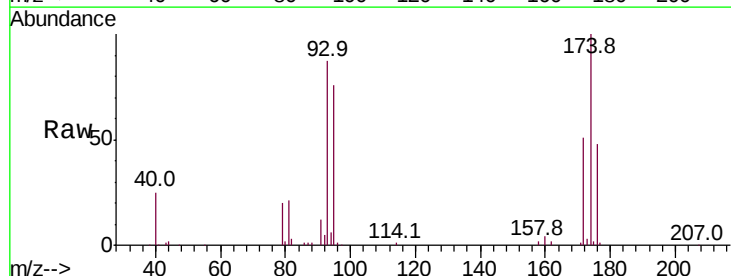
Tgt Ion: 93 Resp: 76195

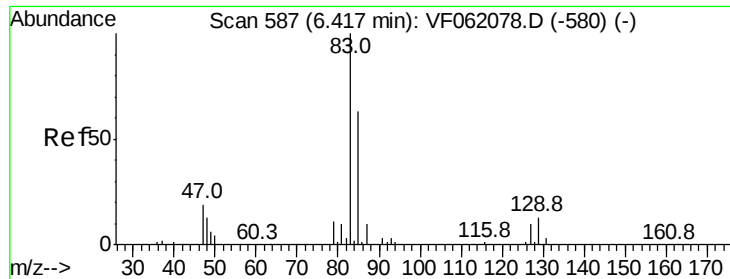
Ion Ratio Lower Upper

93 100

95 87.9 67.4 101.2

174 115.3 92.0 138.0





#47

Bromodichloromethane

Concen: 51.585 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 177005

Ion Ratio Lower Upper

83 100

85 65.6 50.7 76.1

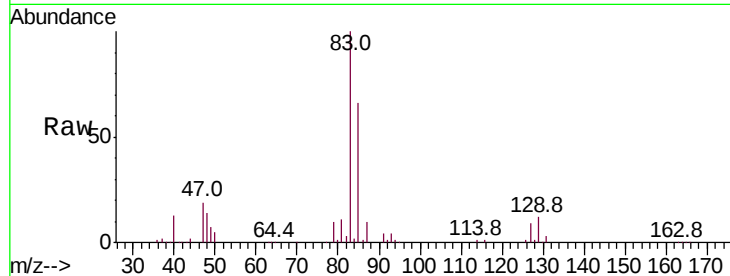
127 9.4 7.8 11.6

Manual Integrations

APPROVED

MMDadoda

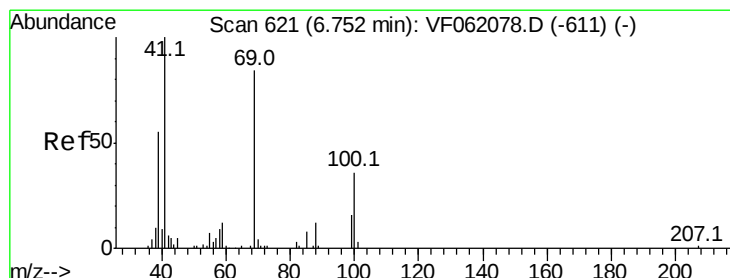
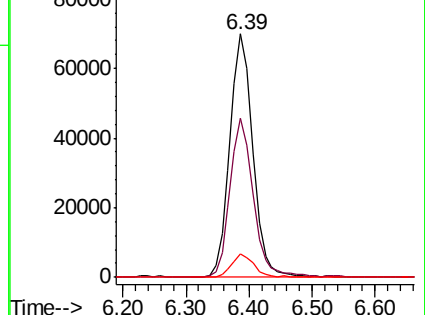
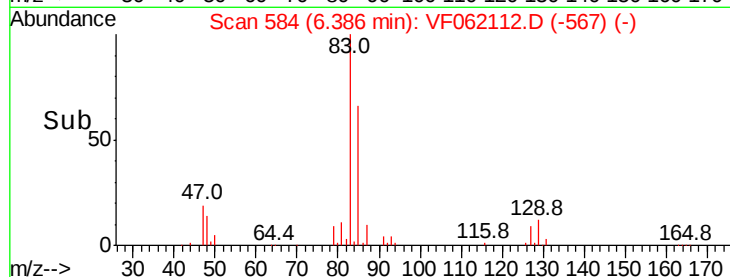
3/25/2019 12:39:54 PM



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 48.414 ug/l

RT: 6.72 min Scan# 618

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

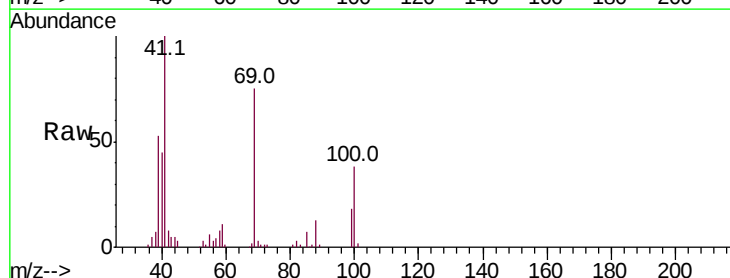
Tgt Ion: 41 Resp: 57811

Ion Ratio Lower Upper

41 100

69 75.5 66.6 100.0

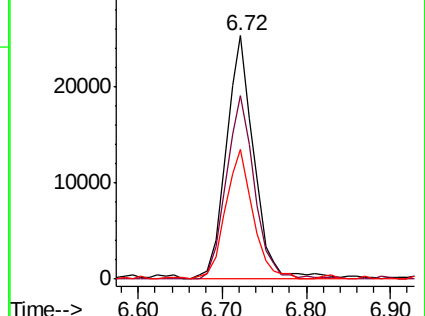
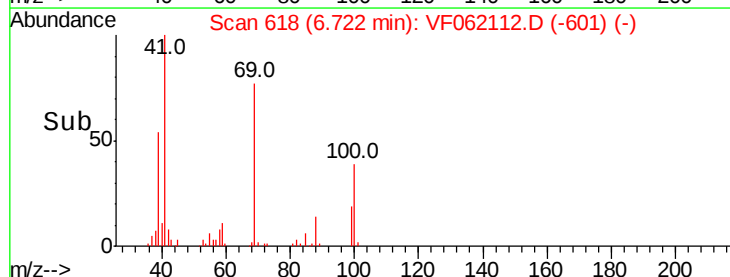
39 53.3 43.6 65.4

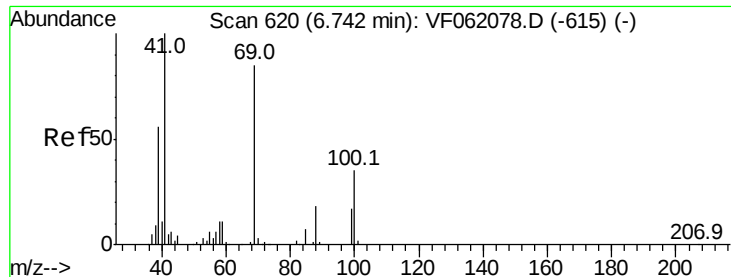


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





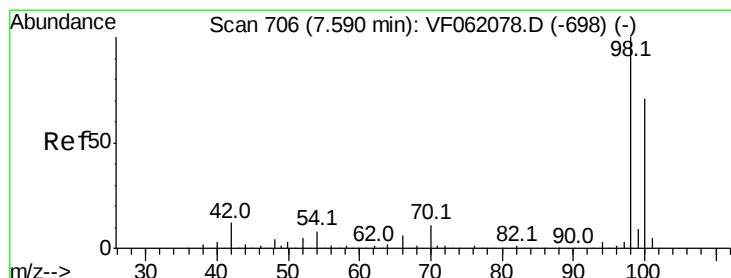
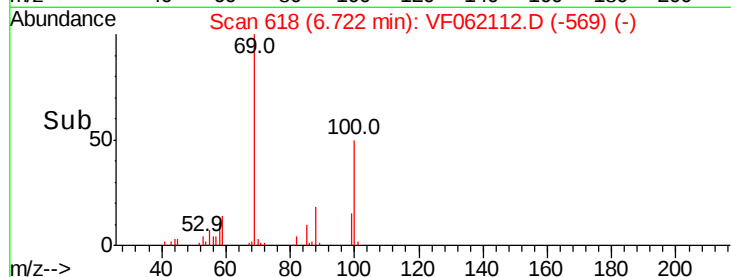
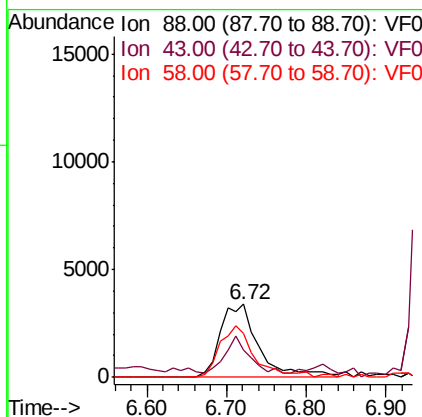
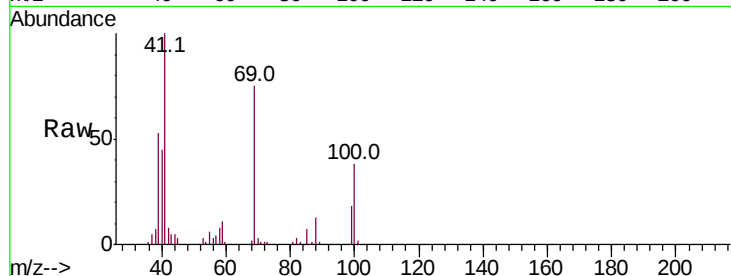
#49
1,4-Dioxane
Concen: 1099.277 ug/l
RT: 6.72 min Scan# 618
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.1	35.0	52.4
58	60.2	49.9	74.9

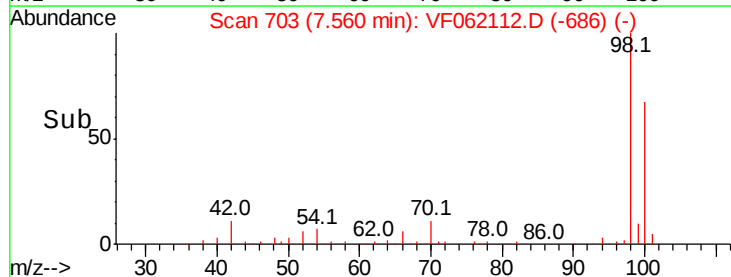
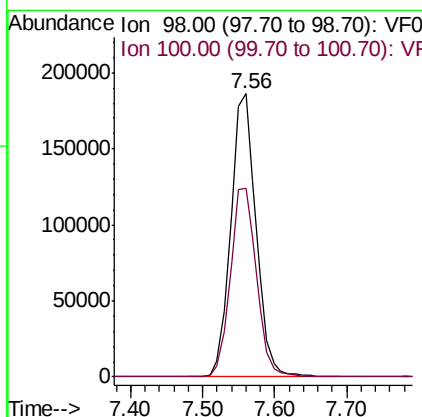
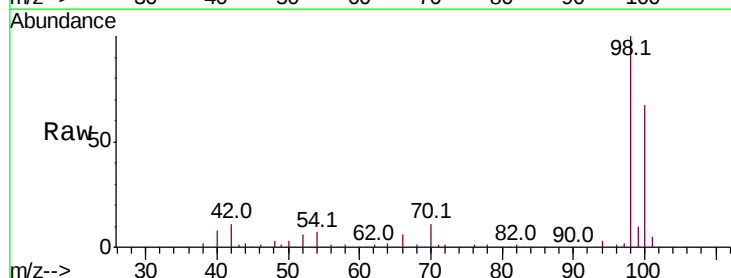
Manual Integrations
APPROVED

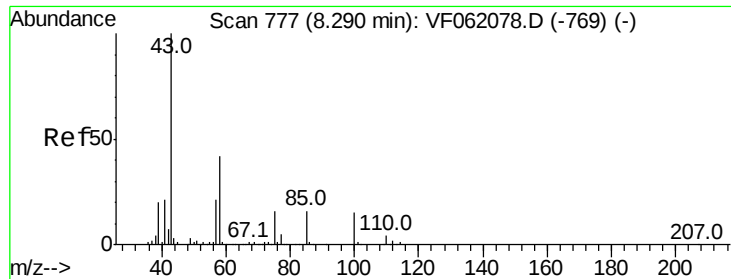
MMDadoda
3/25/2019 12:39:54 PM



#50
Toluene-d8
Concen: 54.187 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.7	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 242.217 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 339998

Ion Ratio Lower Upper

43 100

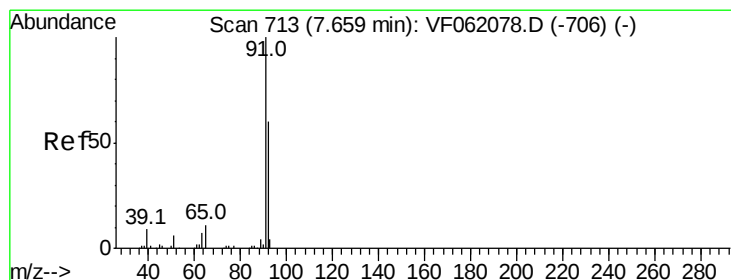
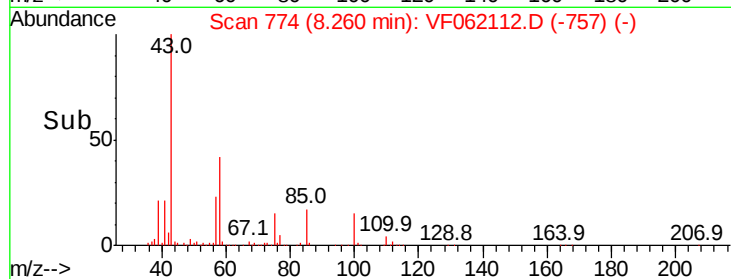
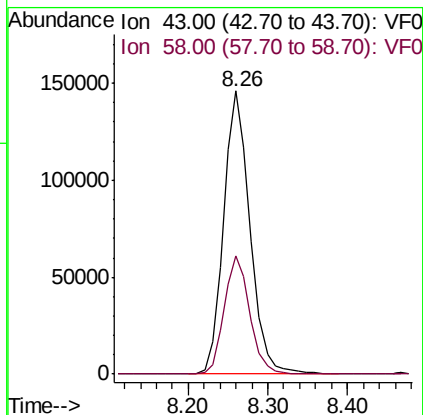
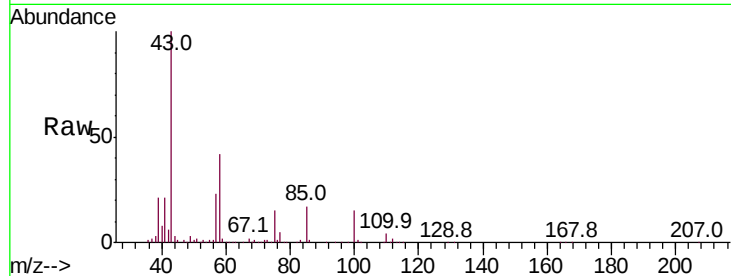
58 41.6 33.8 50.8

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#52

Toluene

Concen: 50.756 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF062112.D

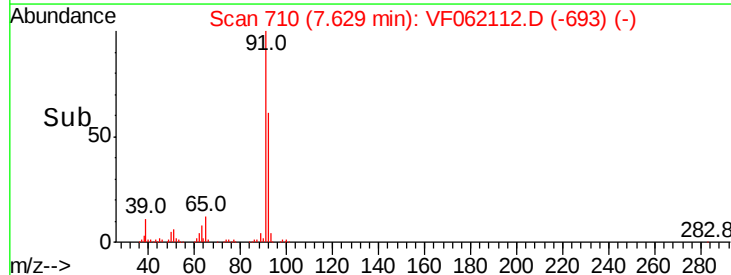
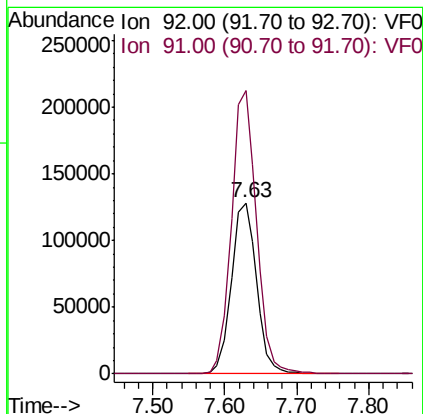
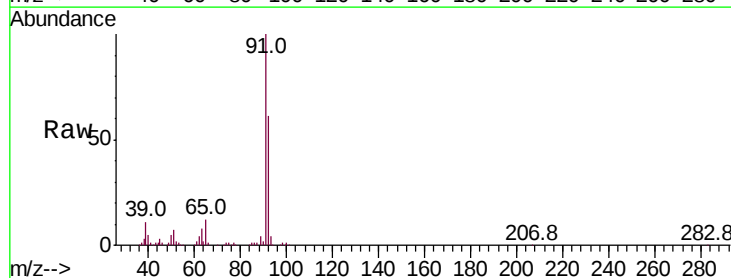
Acq: 23 Mar 2019 11:54

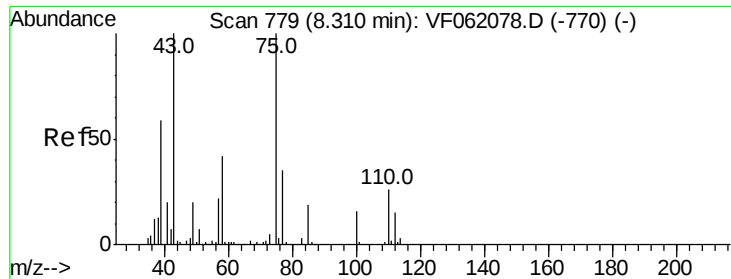
Tgt Ion: 92 Resp: 312288

Ion Ratio Lower Upper

92 100

91 165.3 134.1 201.1





#53

t-1,3-Dichloropropene

Concen: 53.319 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 143623

Ion Ratio Lower Upper

75 100

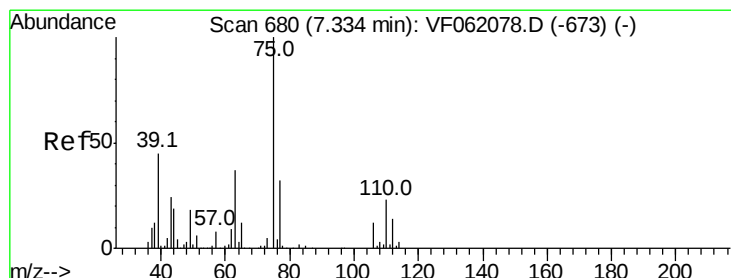
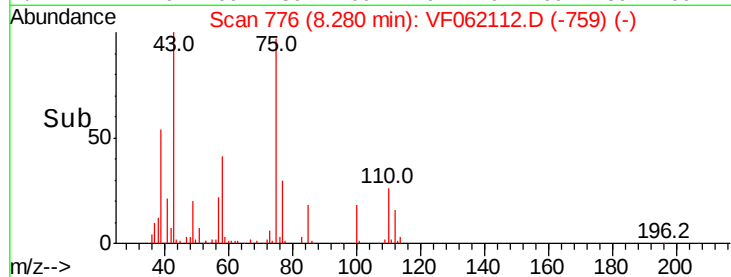
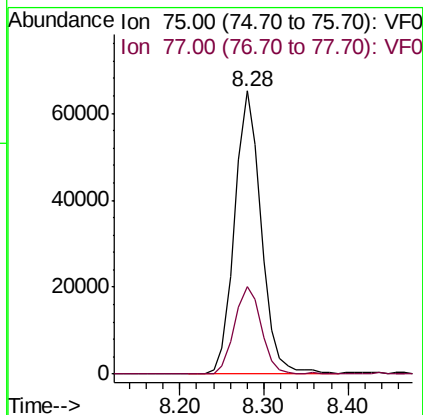
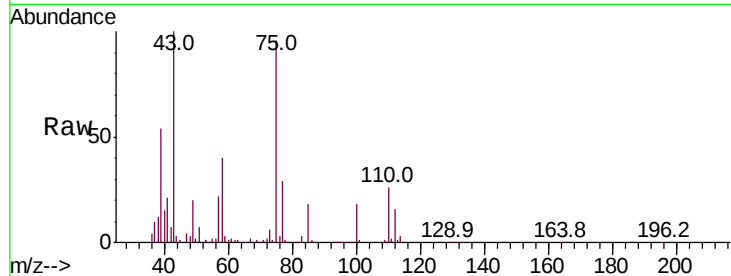
77 30.7 28.0 42.0

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#54

cis-1,3-Dichloropropene

Concen: 49.812 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

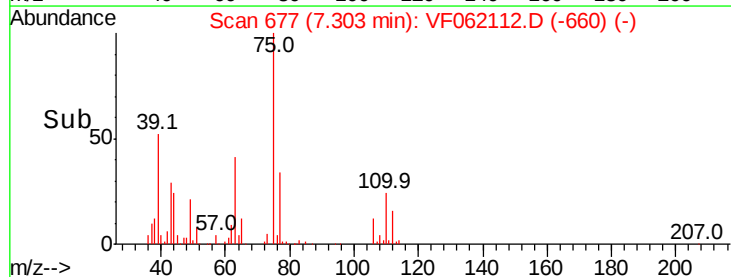
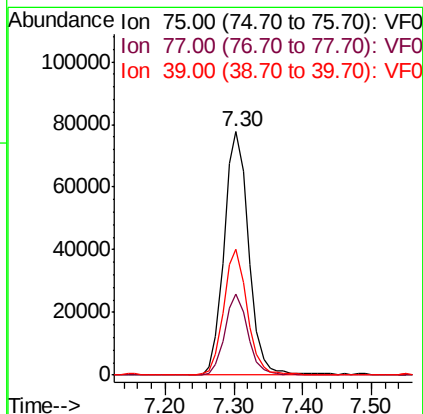
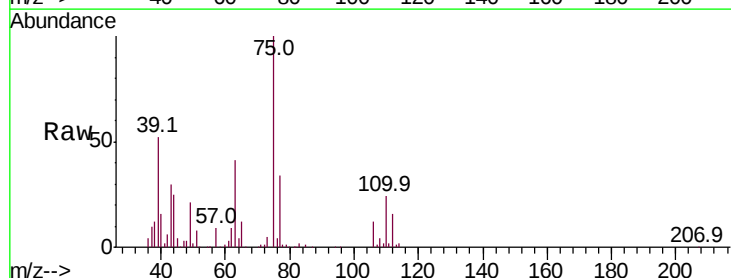
Tgt Ion: 75 Resp: 191984

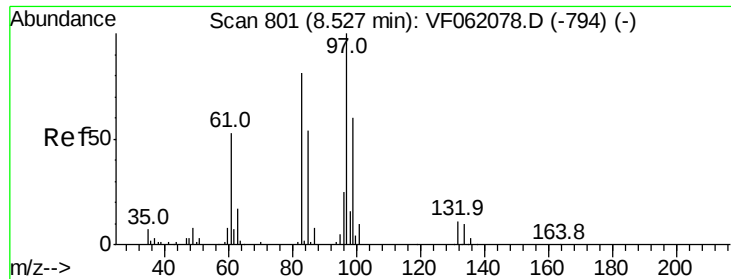
Ion Ratio Lower Upper

75 100

77 33.5 25.8 38.6

39 51.7 35.9 53.9





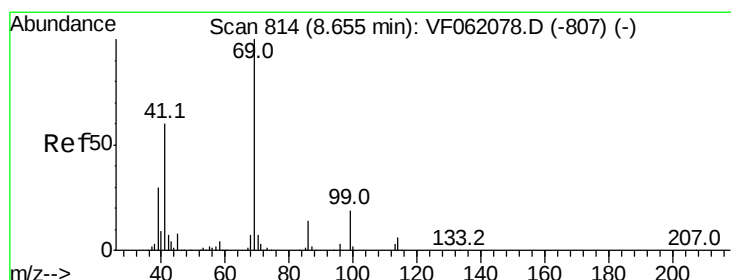
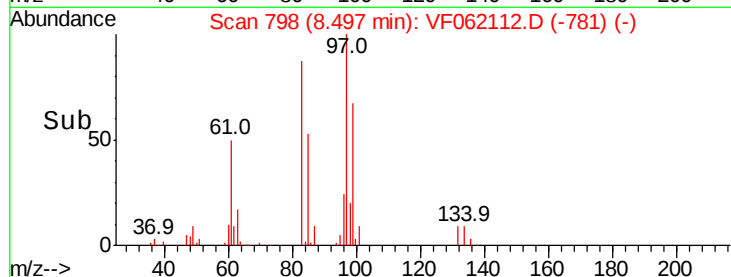
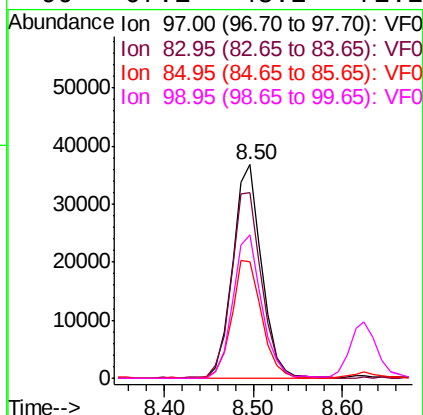
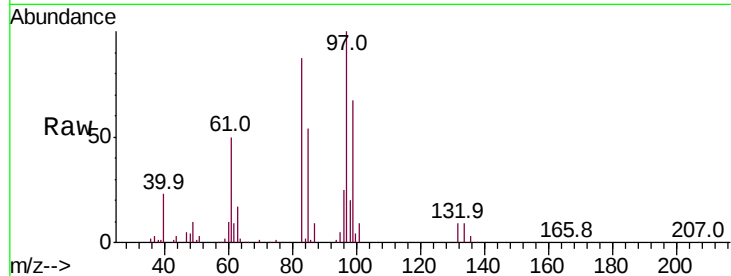
#55
1,1,2-Trichloroethane
Concen: 47.718 ug/l
RT: 8.50 min Scan# 798
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	97	Resp	83394
Ion	Ratio	Lower	Upper
97	100		
83	86.7	64.6	97.0
85	54.3	43.6	65.4
99	67.1	48.2	72.2

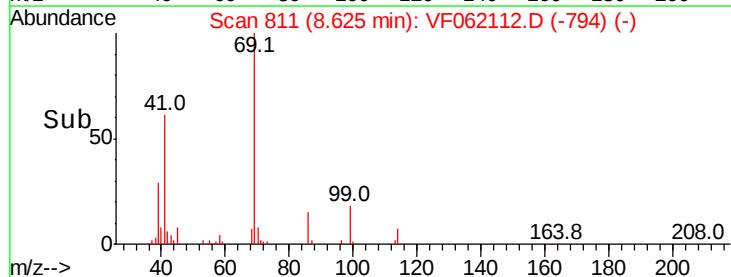
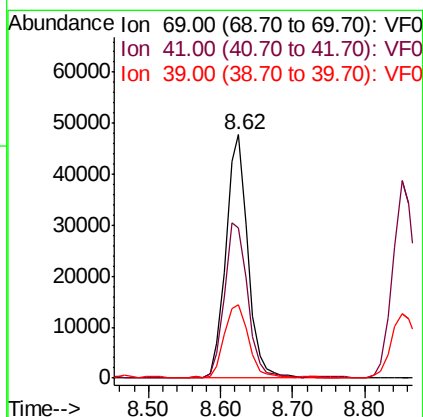
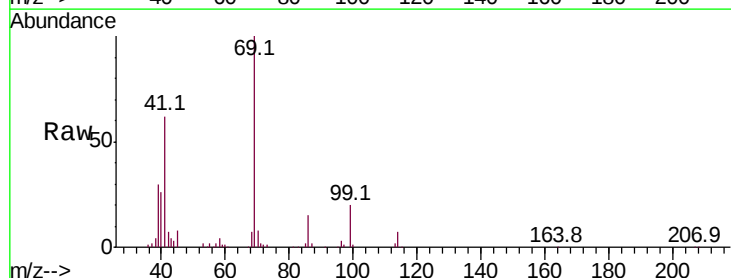
Manual Integrations
APPROVED

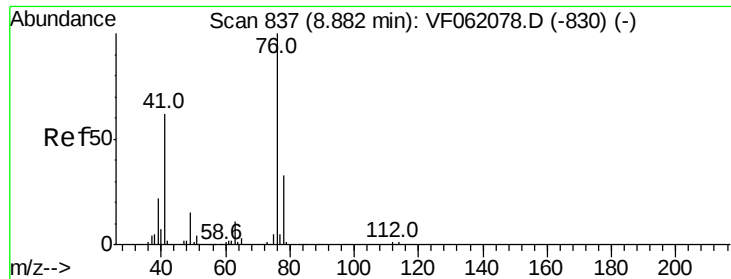
MMDadoda
3/25/2019 12:39:54 PM



#56
Ethyl methacrylate
Concen: 48.462 ug/l
RT: 8.62 min Scan# 811
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	69	Resp	101009
Ion	Ratio	Lower	Upper
69	100		
41	61.6	48.2	72.2
39	30.0	24.0	36.0





#57

1,3-Dichloropropane

Concen: 49.679 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 144100

Ion Ratio Lower Upper

76 100

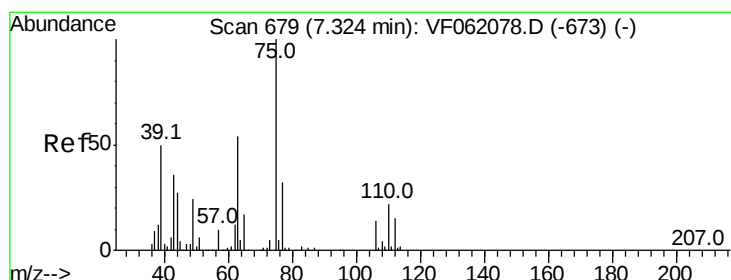
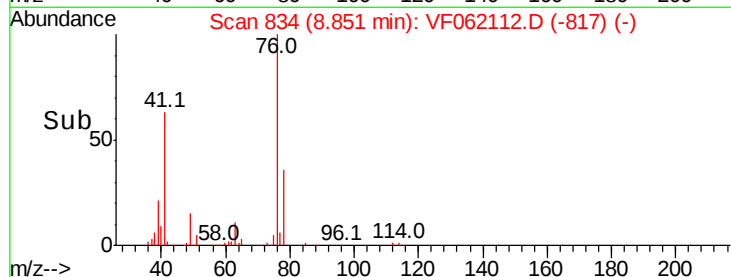
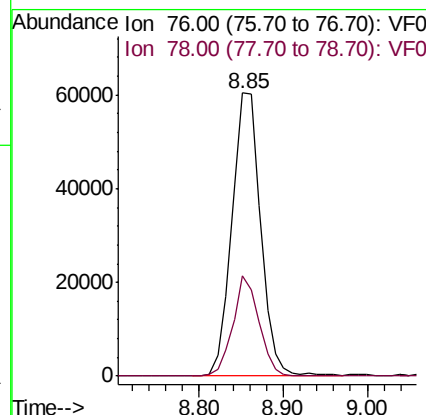
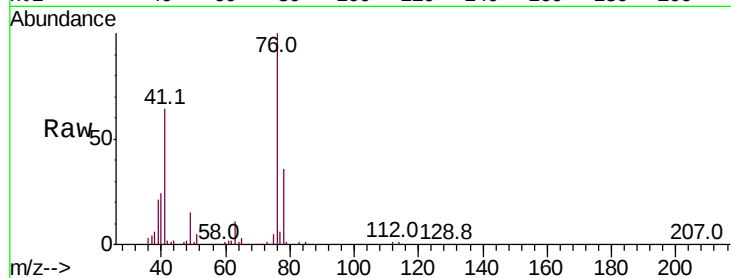
78 35.6 26.6 39.8

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#58

2-Chloroethyl Vinyl ether

Concen: 264.014 ug/l

RT: 7.29 min Scan# 676

Delta R.T. -0.03 min

Lab File: VF062112.D

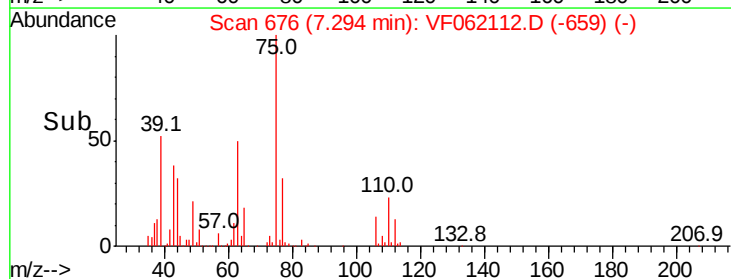
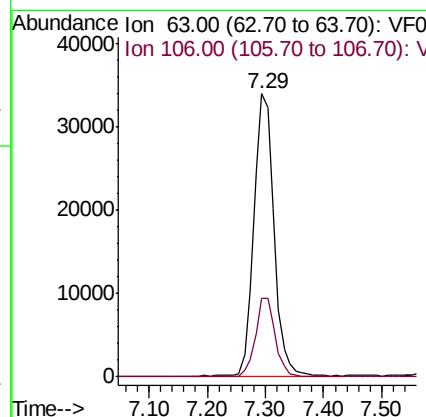
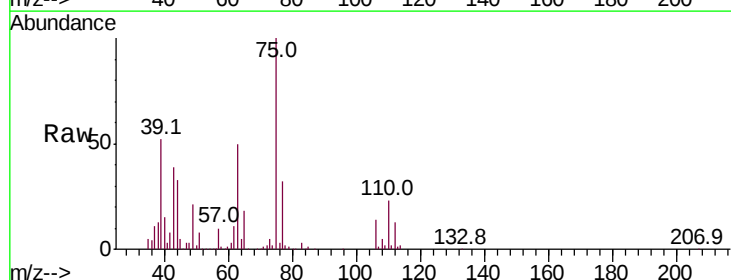
Acq: 23 Mar 2019 11:54

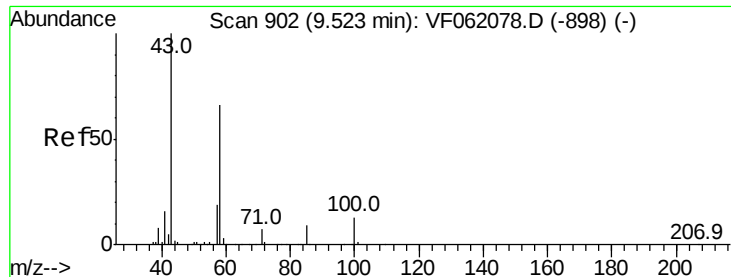
Tgt Ion: 63 Resp: 83501

Ion Ratio Lower Upper

63 100

106 27.6 21.5 32.3





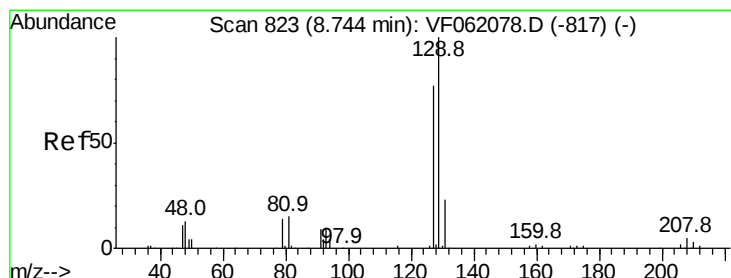
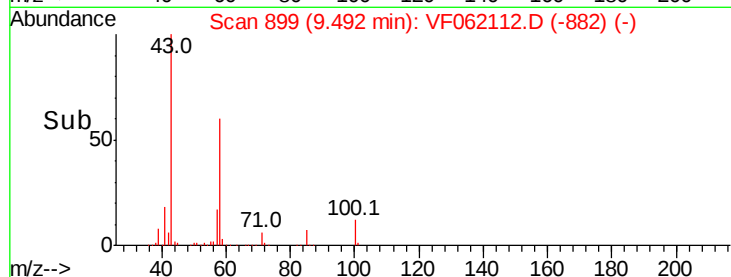
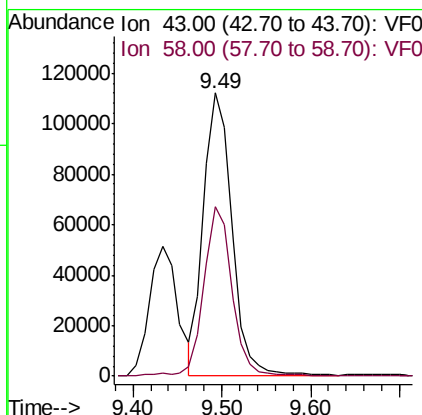
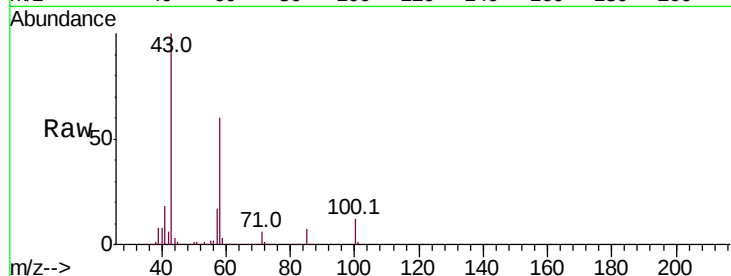
#59
2-Hexanone
Concen: 240.469 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 247389
Ion Ratio Lower Upper
43 100
58 59.8 28.8 86.4

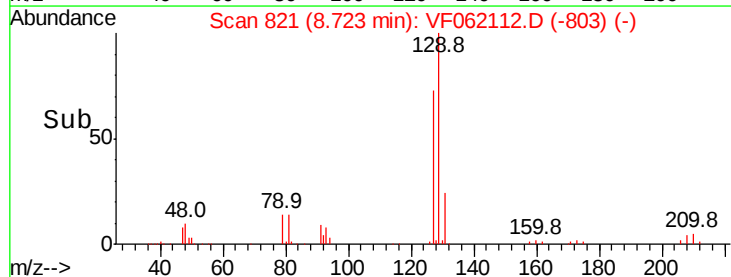
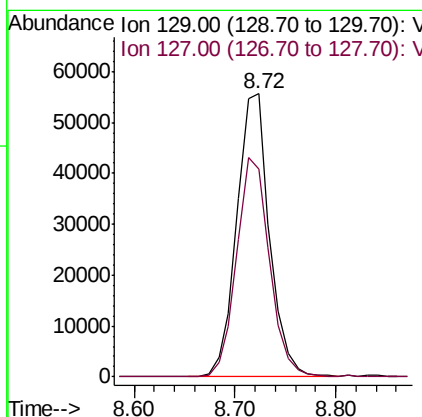
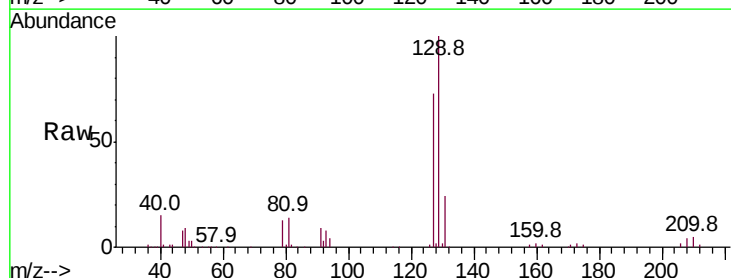
Manual Integrations
APPROVED

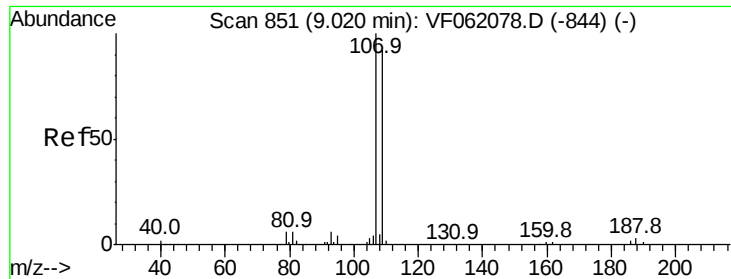
MMDadoda
3/25/2019 12:39:54 PM



#60
Dibromochloromethane
Concen: 51.884 ug/l
RT: 8.72 min Scan# 821
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion: 129 Resp: 126055
Ion Ratio Lower Upper
129 100
127 73.2 38.7 116.1





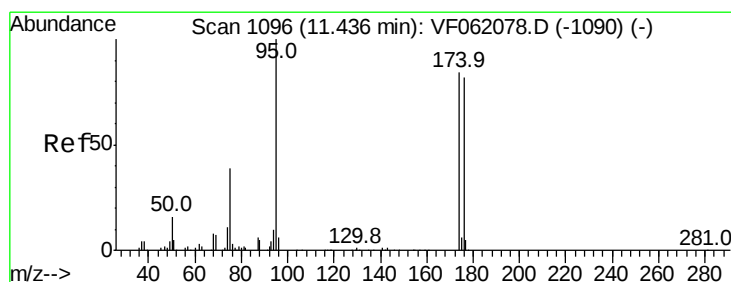
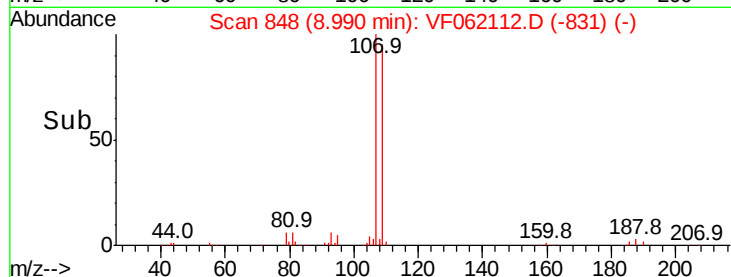
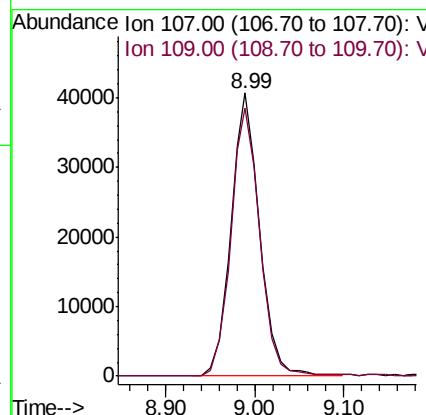
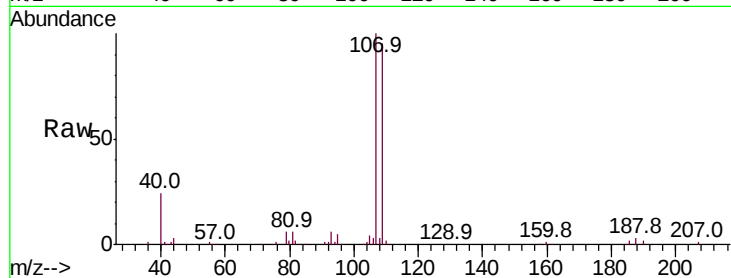
#61
 1,2-Dibromoethane
 Concen: 48.964 ug/l
 RT: 8.99 min Scan# 848
 Delta R.T. -0.03 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.8	73.4	110.0

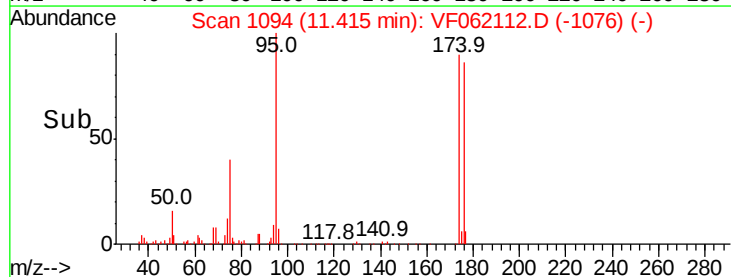
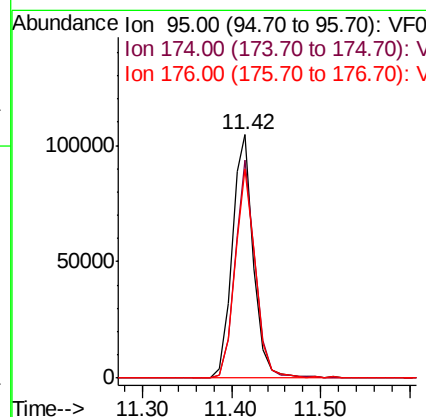
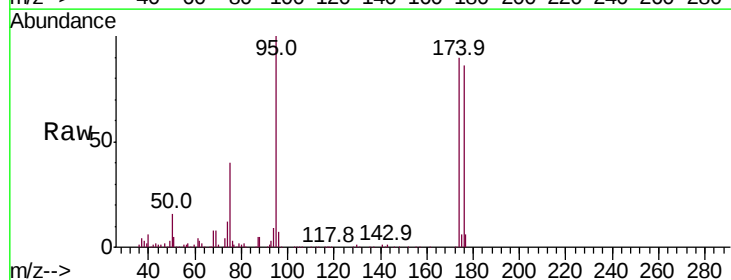
Manual Integrations
 APPROVED

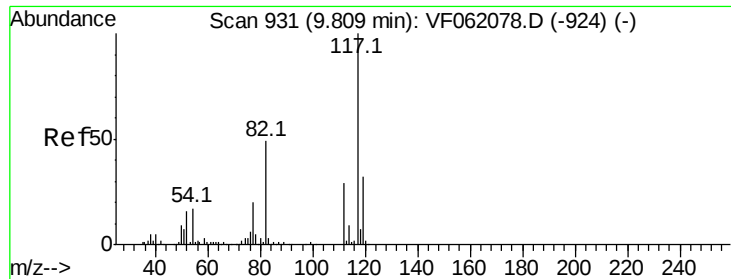
MMDadoda
 3/25/2019 12:39:54 PM



#62
 4-Bromofluorobenzene
 Concen: 54.587 ug/l
 RT: 11.42 min Scan# 1094
 Delta R.T. -0.02 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.6	0.0	168.2
176	85.9	0.0	164.2





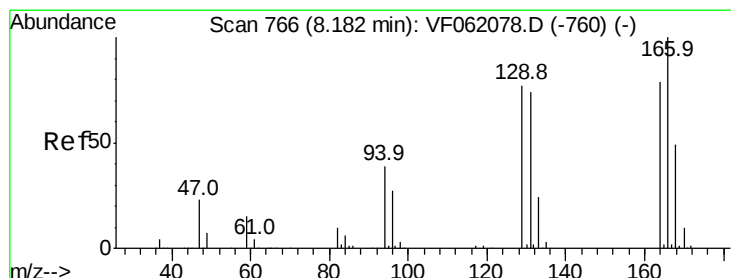
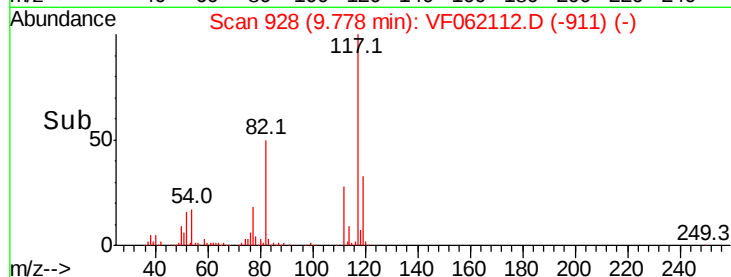
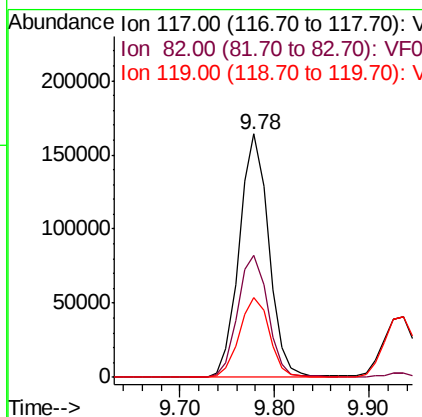
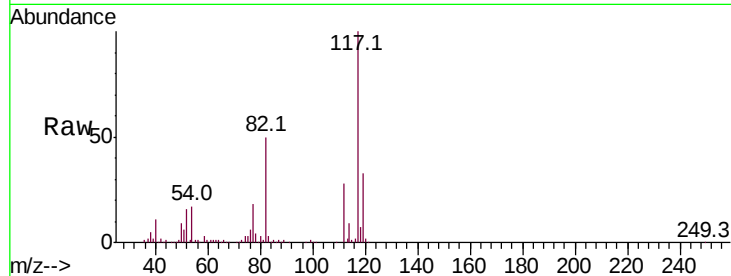
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	356908		
82	50.4		39.2	58.8
119	32.8		25.4	38.2

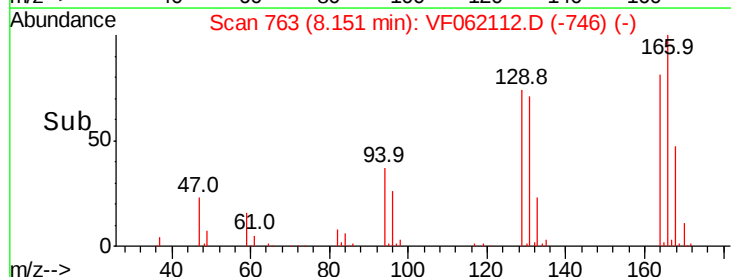
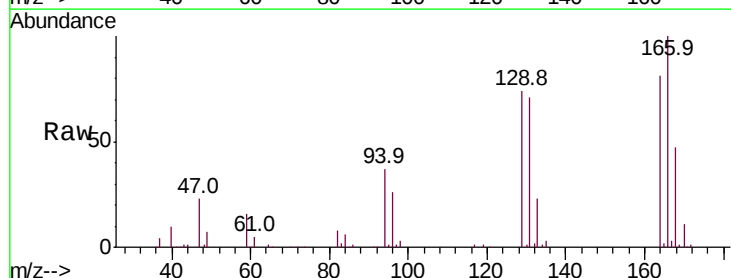
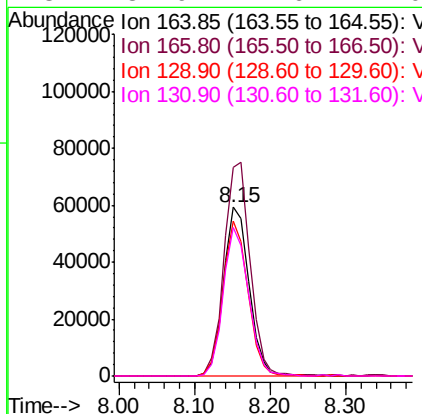
Manual Integrations
APPROVED

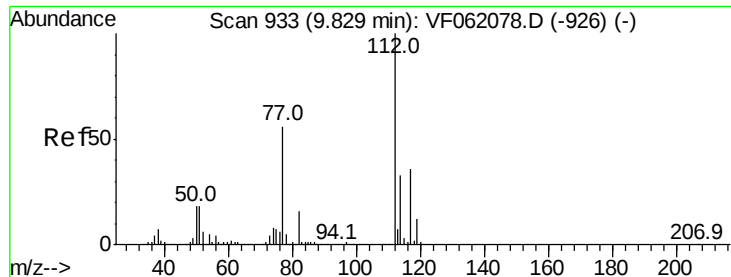
MMDadoda
3/25/2019 12:39:54 PM



#64
Tetrachloroethene
Concen: 50.513 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	139284		
166	123.4		100.9	151.3
129	91.6		77.9	116.9
131	87.9		74.6	112.0





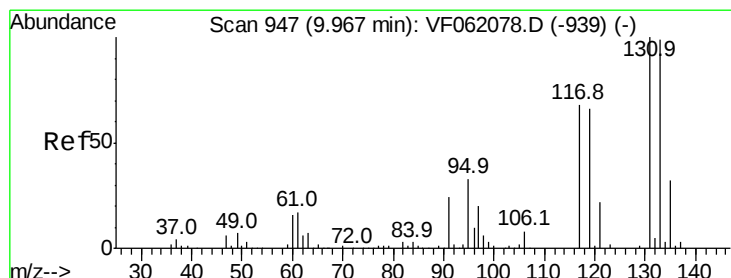
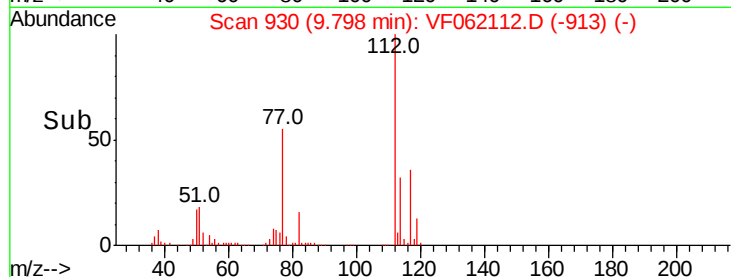
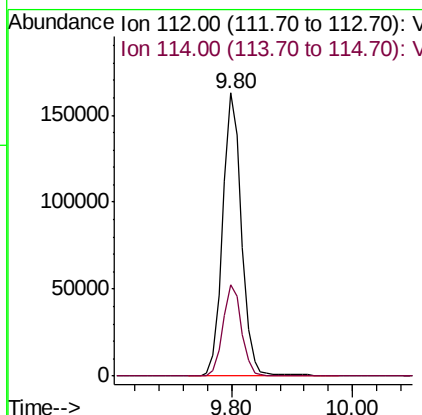
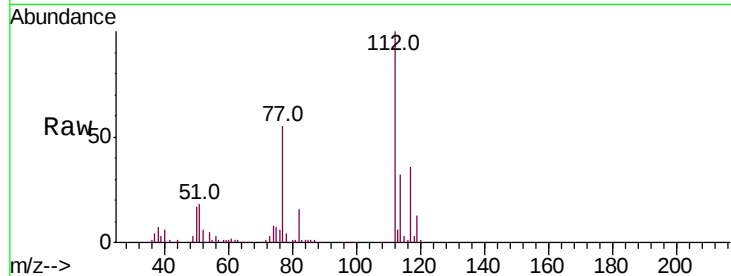
#65
Chlorobenzene
Concen: 52.708 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 351984
Ion Ratio Lower Upper
112 100
114 32.3 26.0 39.0

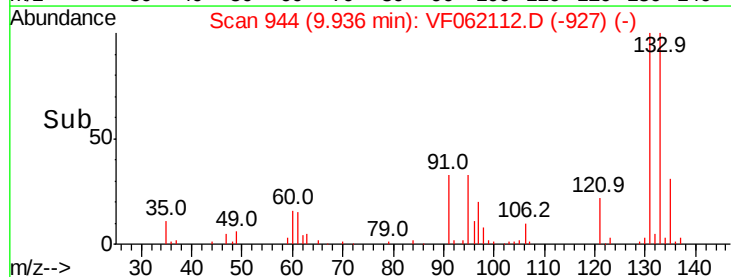
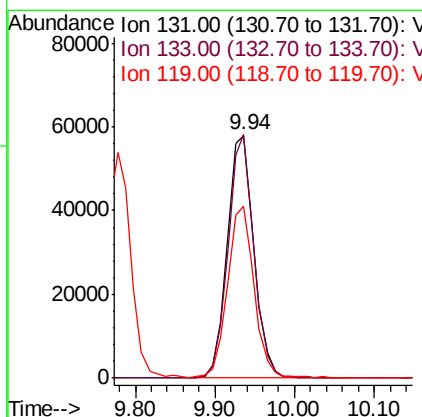
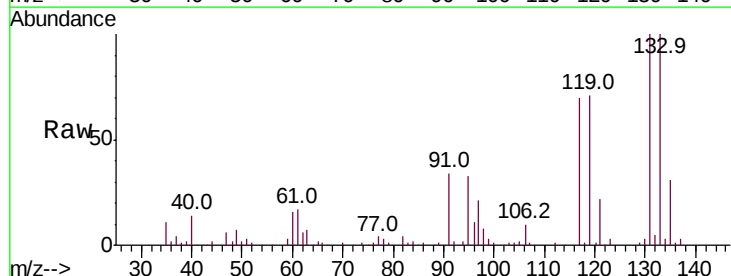
Manual Integrations
APPROVED

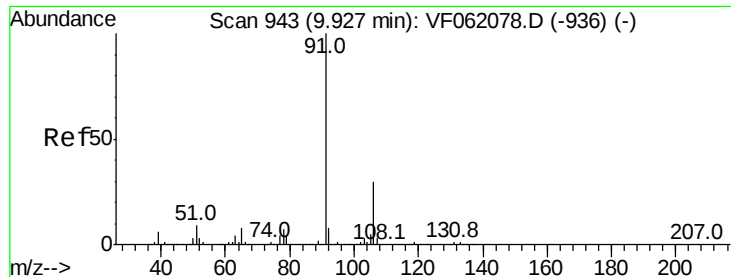
MMDadoda
3/25/2019 12:39:54 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.766 ug/l
RT: 9.94 min Scan# 944
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion:131 Resp: 136178
Ion Ratio Lower Upper
131 100
133 100.4 49.3 147.8
119 71.0 33.5 100.4





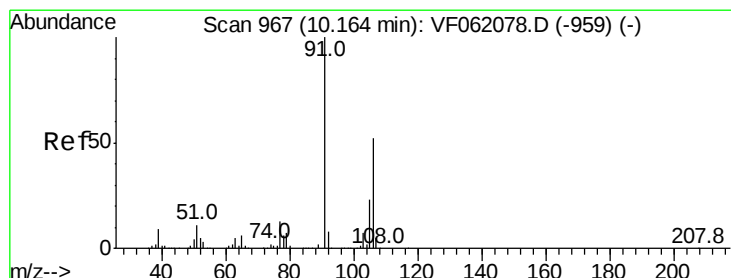
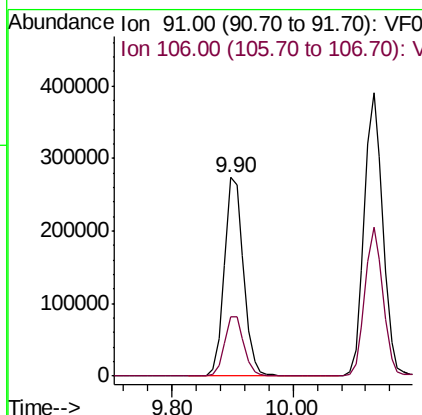
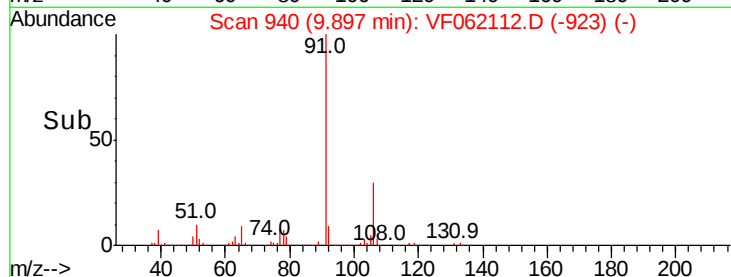
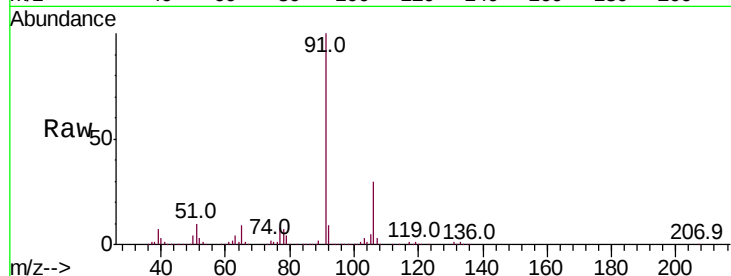
#67
Ethyl Benzene
Concen: 52.101 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 605079
Ion Ratio Lower Upper
91 100
106 29.6 24.0 36.0

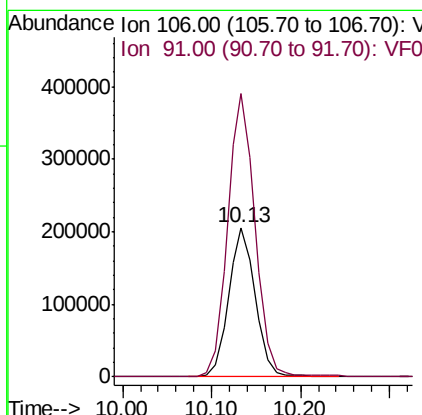
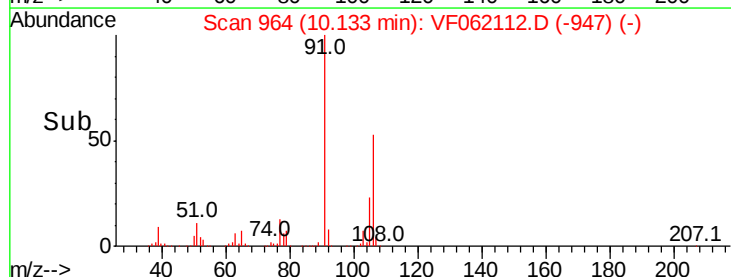
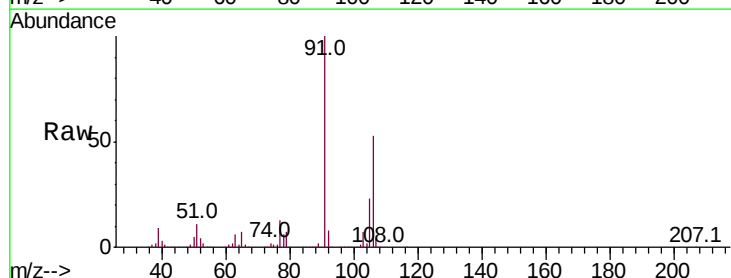
Manual Integrations
APPROVED

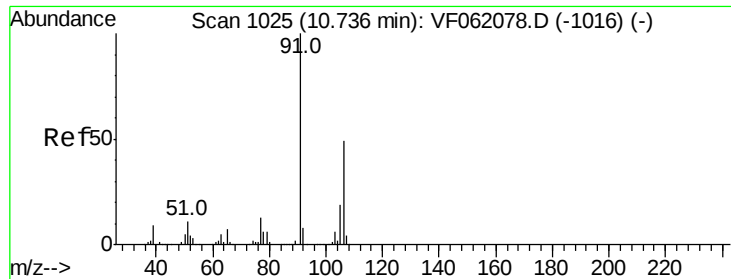
MMDadoda
3/25/2019 12:39:54 PM



#68
m/p-Xylenes
Concen: 99.118 ug/l
RT: 10.13 min Scan# 964
Delta R.T. -0.03 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion: 106 Resp: 430240
Ion Ratio Lower Upper
106 100
91 189.4 154.4 231.6





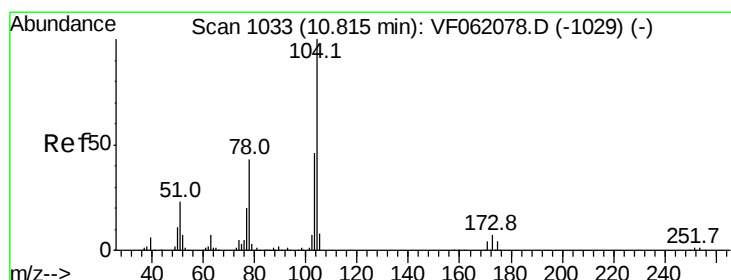
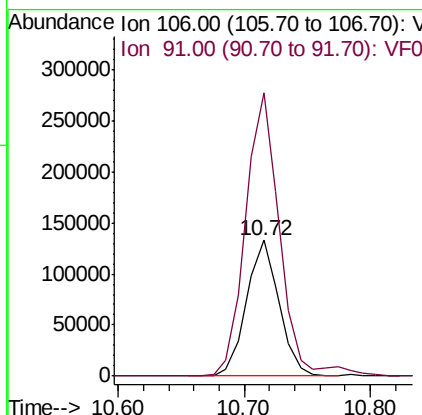
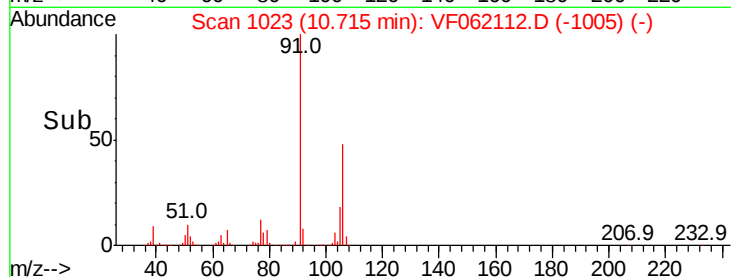
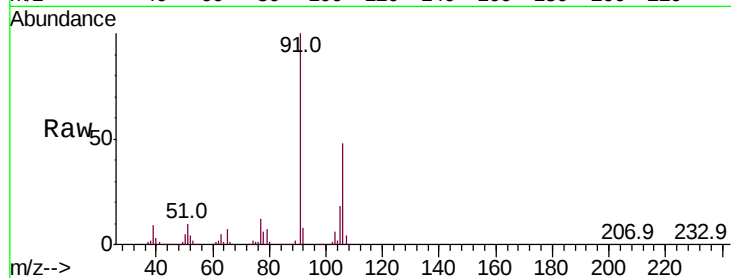
#69
o-Xylene
Concen: 52.616 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	208.2	102.6	307.8

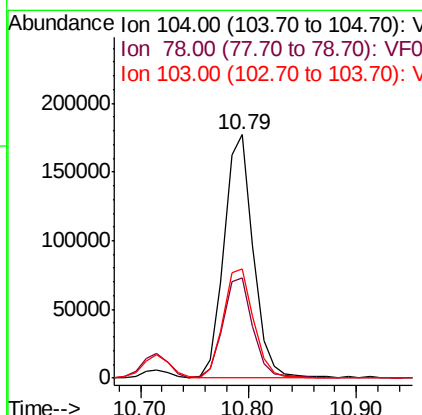
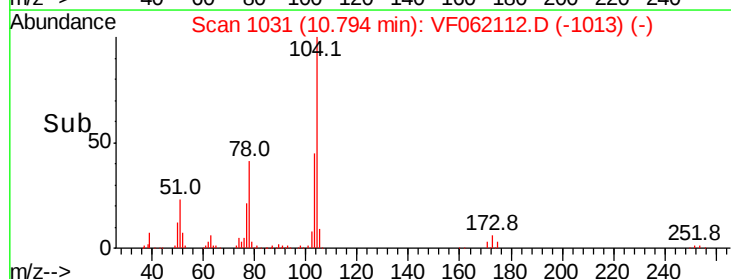
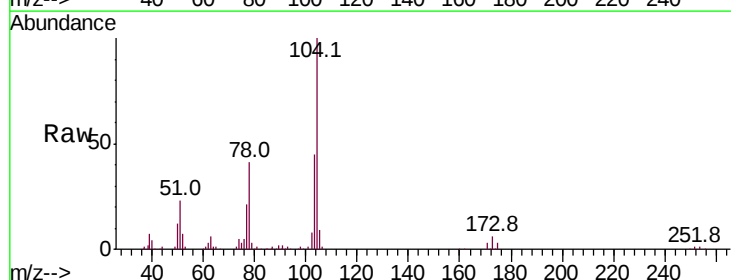
Manual Integrations
APPROVED

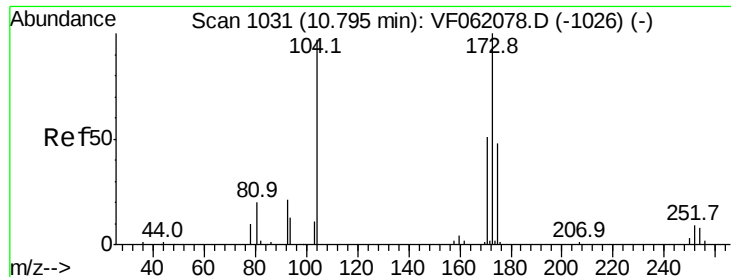
MMDadoda
3/25/2019 12:39:54 PM



#70
Styrene
Concen: 48.206 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.3	34.3	51.5
103	45.0	36.9	55.3





#71

Bromoform

Concen: 48.533 ug/l

RT: 10.77 min Scan# 1029

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 66589

Ion Ratio Lower Upper

173 100

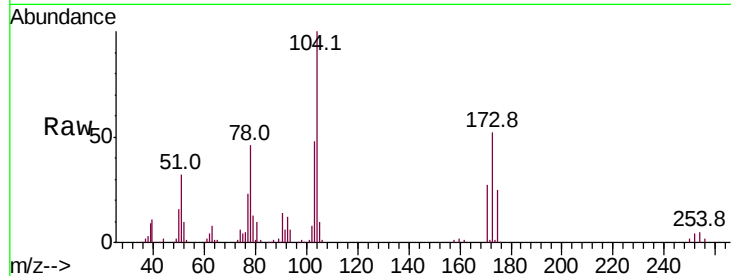
175 48.5 24.1 72.4

254 9.3 6.2 9.4

Manual Integrations
APPROVED

MMDadoda

3/25/2019 12:39:54 PM

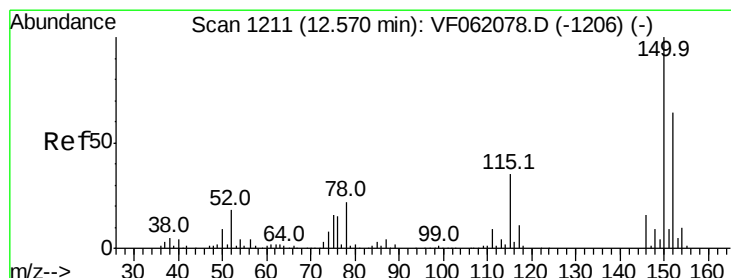
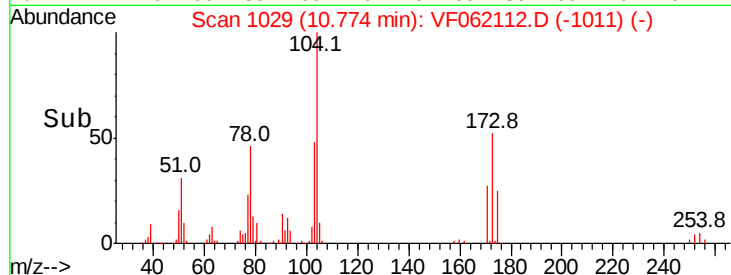
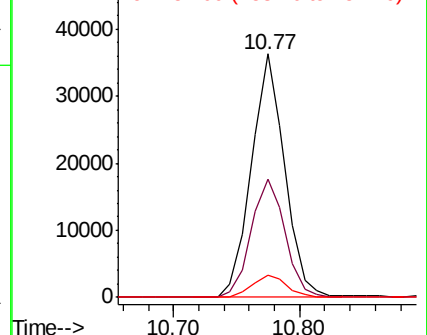


Abundance

Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

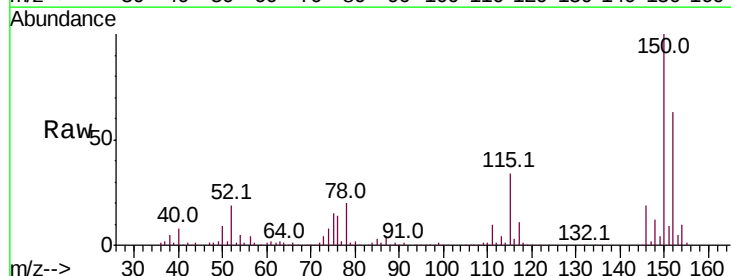
Tgt Ion:152 Resp: 180042

Ion Ratio Lower Upper

152 100

115 54.1 27.7 83.1

150 158.9 0.0 313.2

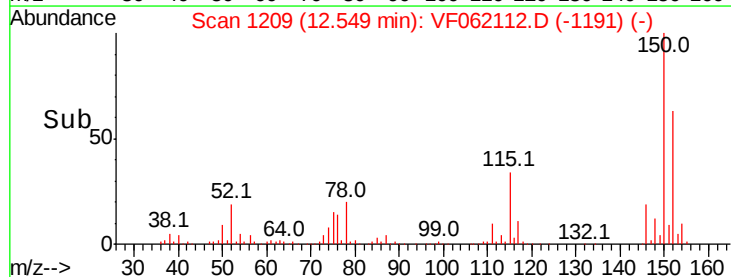
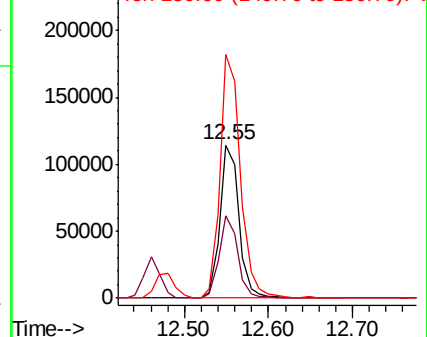


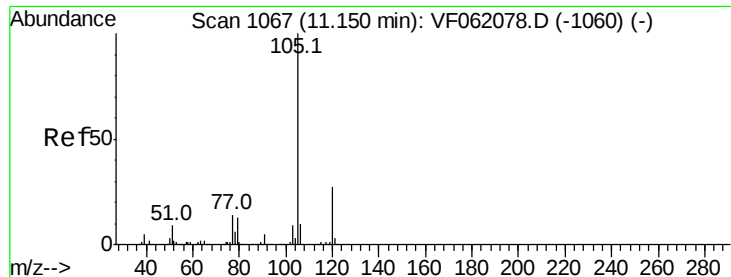
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 53.007 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 671538

Ion Ratio Lower Upper

105 100

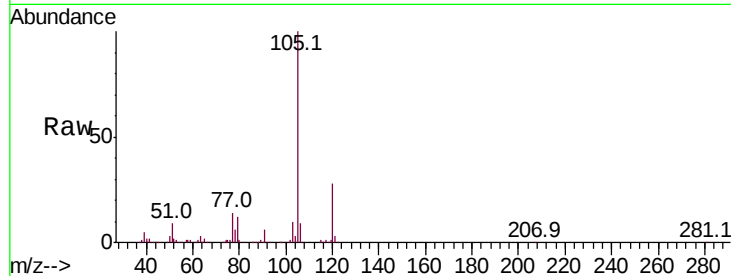
120 27.8 13.8 41.3

Manual Integrations

APPROVED

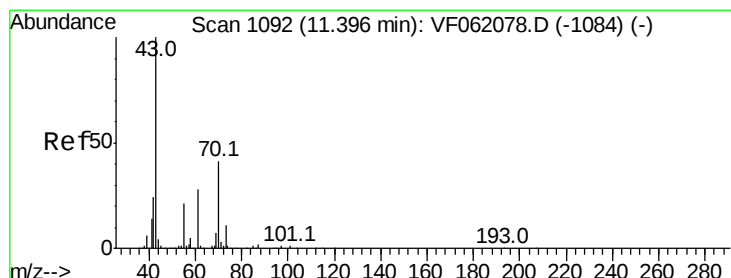
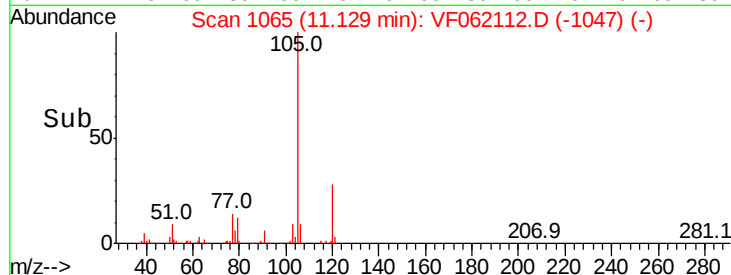
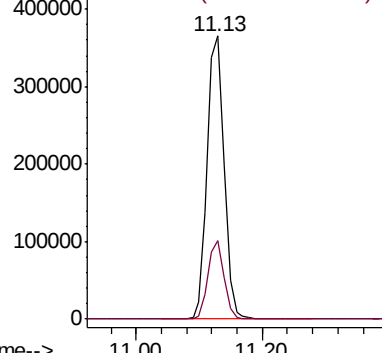
MMDadoda

3/25/2019 12:39:54 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 50.209 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tgt Ion: 43 Resp: 151565

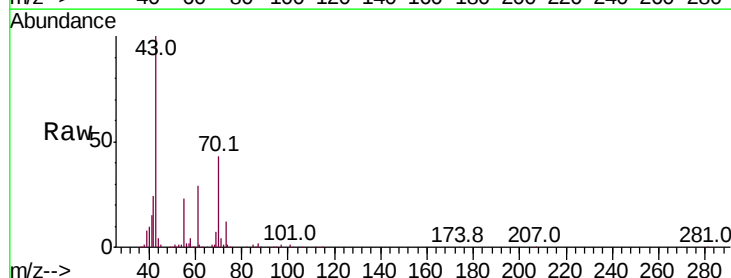
Ion Ratio Lower Upper

43 100

70 43.4 32.9 49.3

55 23.0 17.1 25.7

61 29.3 22.2 33.2

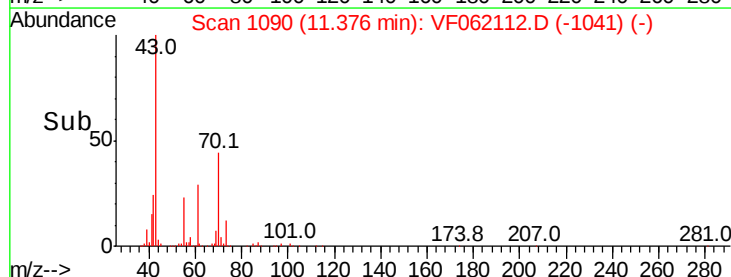
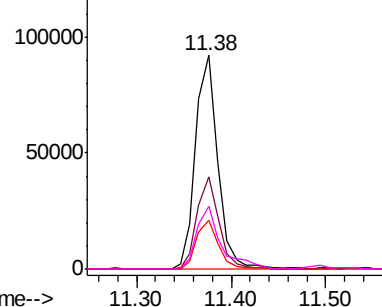


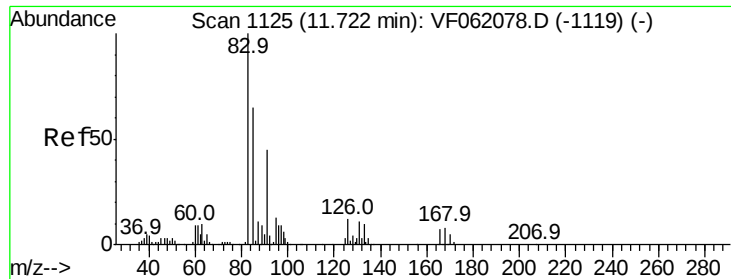
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 50.645 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 110168
Ion Ratio Lower Upper

83 100

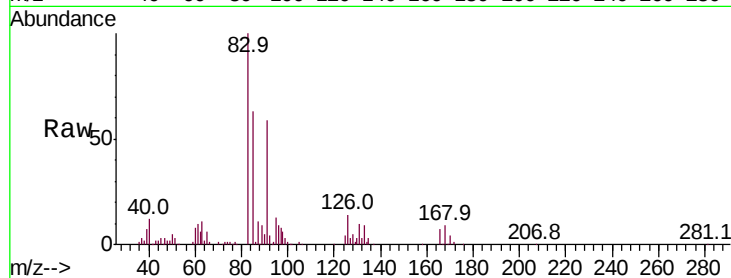
131 9.6 5.3 15.8

85 63.1 32.6 98.0

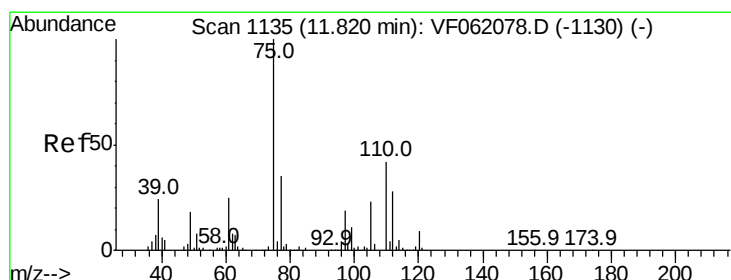
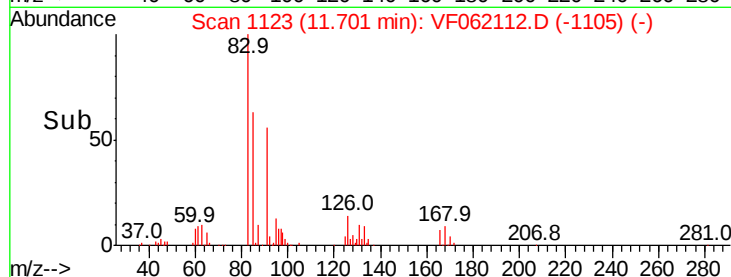
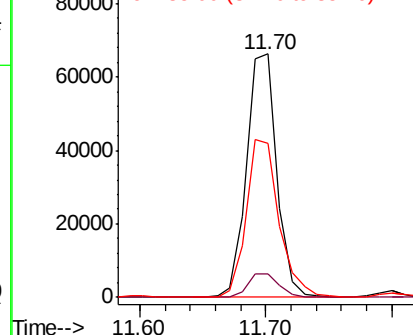
Manual Integrations
APPROVED

MMDadoda

3/25/2019 12:39:54 PM



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



#76

1,2,3-Trichloropropane

Concen: 47.961 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.02 min

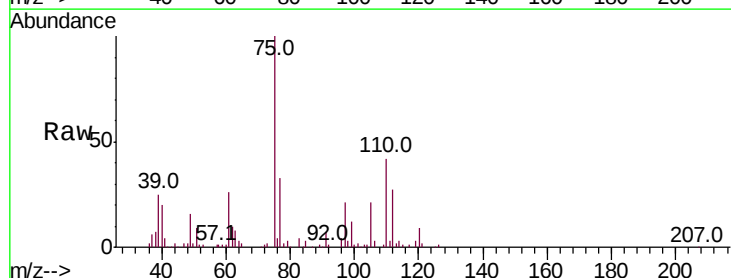
Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

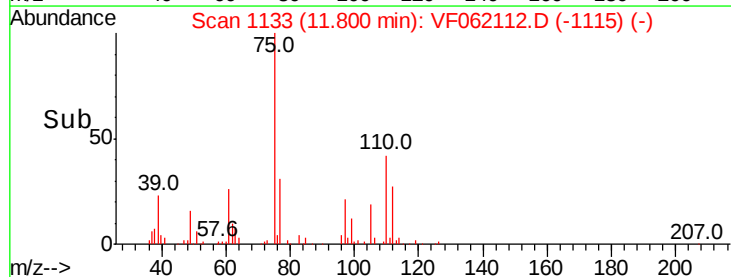
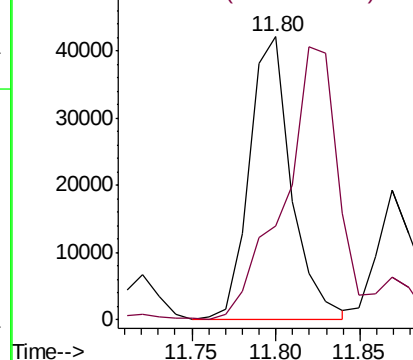
Tgt Ion: 75 Resp: 73422
Ion Ratio Lower Upper

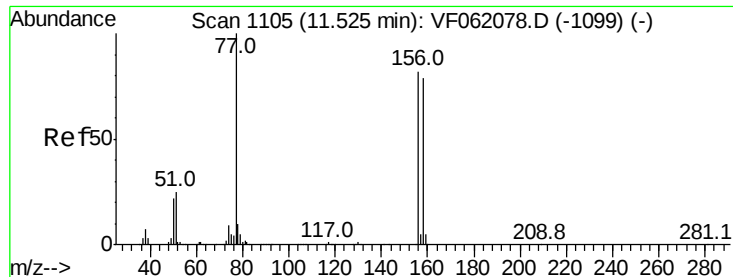
75 100

77 33.0 17.8 53.3



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





#77

Bromobenzene

Concen: 51.252 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

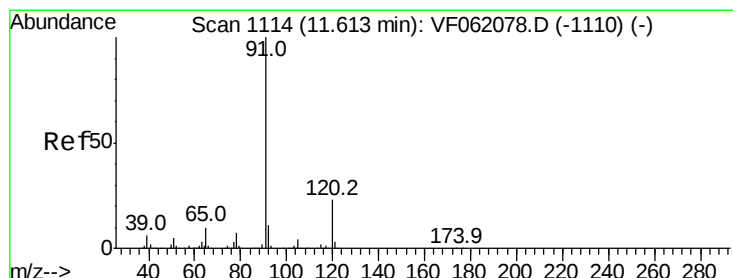
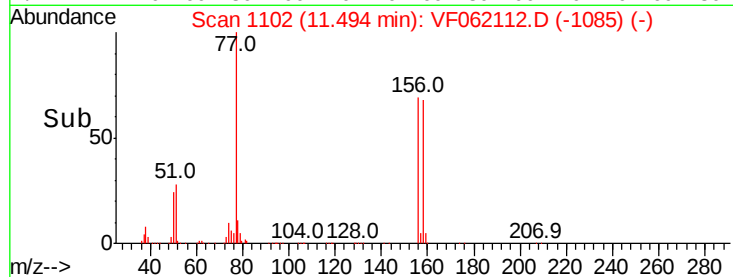
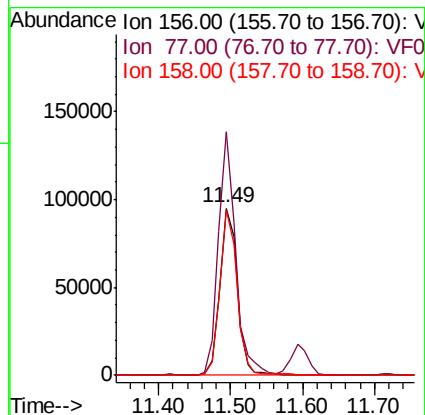
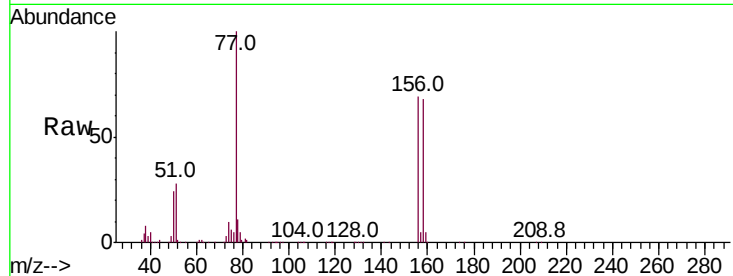
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	158635
Ion Ratio	Lower	Upper	
156	100		
77	145.5	61.3	183.9
158	99.0	48.6	145.9

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:39:54 PM



#78

n-propylbenzene

Concen: 51.033 ug/l

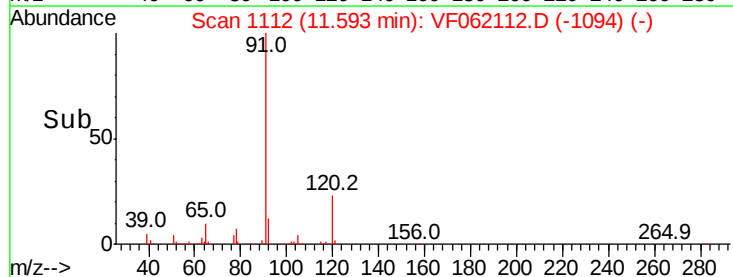
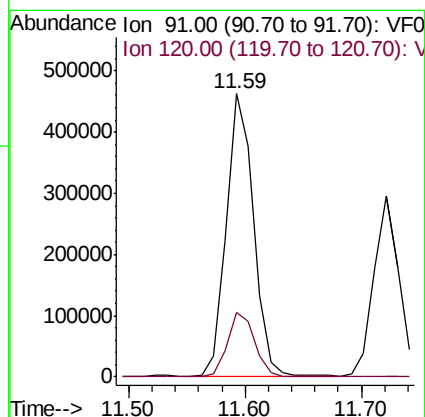
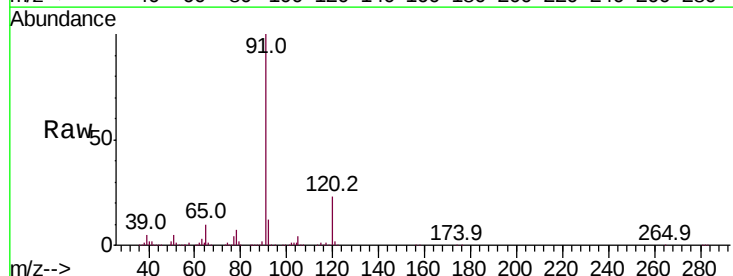
RT: 11.59 min Scan# 1112

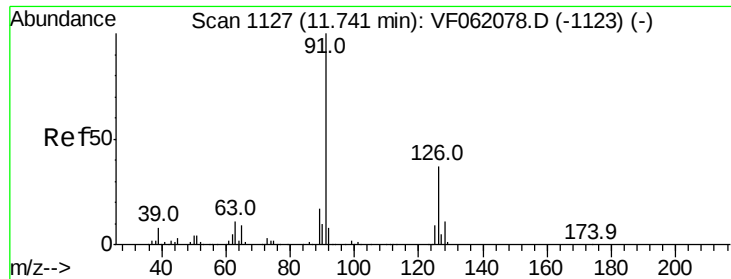
Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Tgt Ion:	91	Resp:	750740
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.3	33.8





#79

2-Chlorotoluene

Concen: 53.625 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 438476

Ion Ratio Lower Upper

91 100

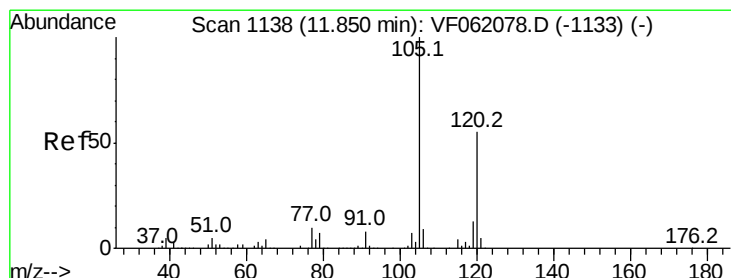
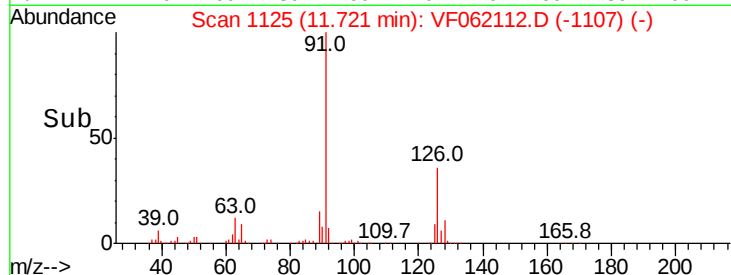
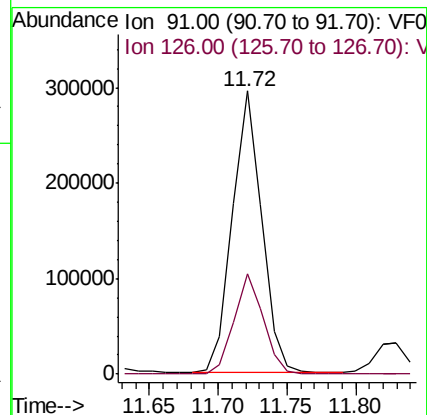
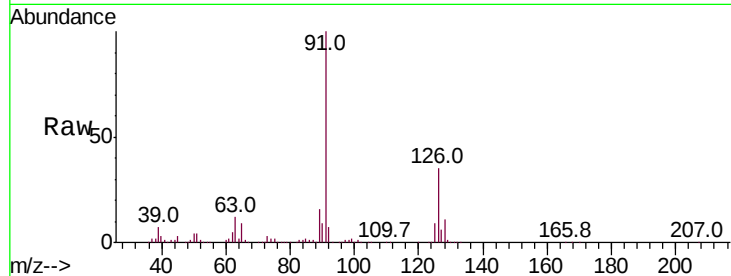
126 35.5 18.3 54.8

Manual Integrations

APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#80

1,3,5-Trimethylbenzene

Concen: 50.759 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.02 min

Lab File: VF062112.D

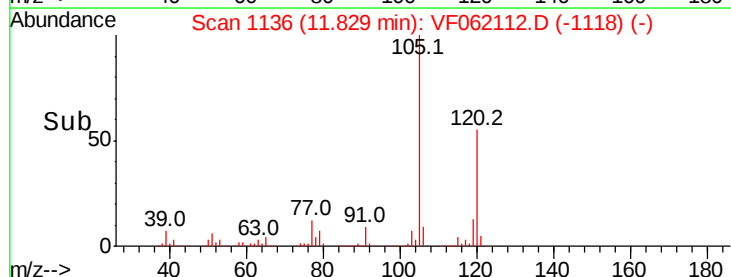
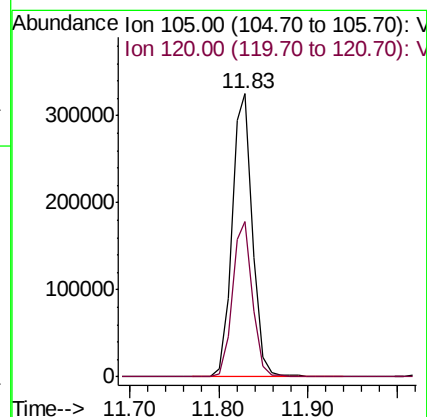
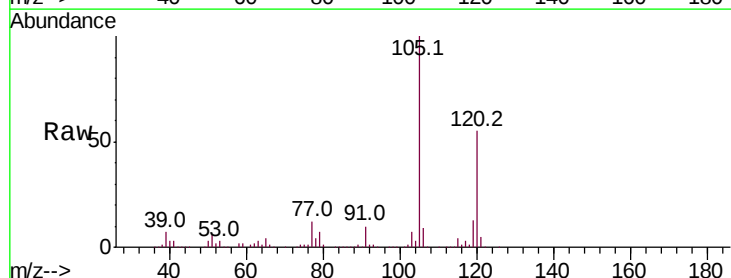
Acq: 23 Mar 2019 11:54

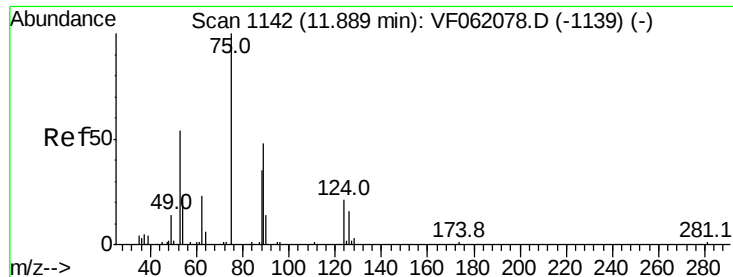
Tgt Ion: 105 Resp: 528948

Ion Ratio Lower Upper

105 100

120 54.9 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 47.838 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF062112.D

Acq: 23 Mar 2019 11:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 29841

Ion Ratio Lower Upper

75 100

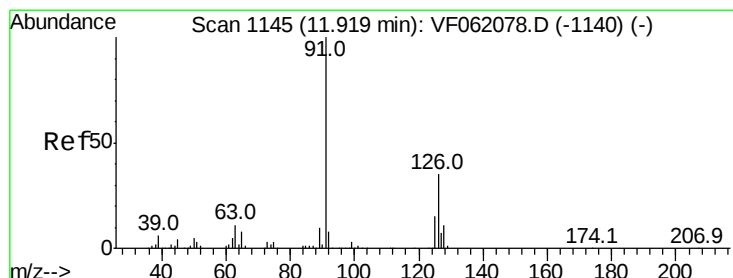
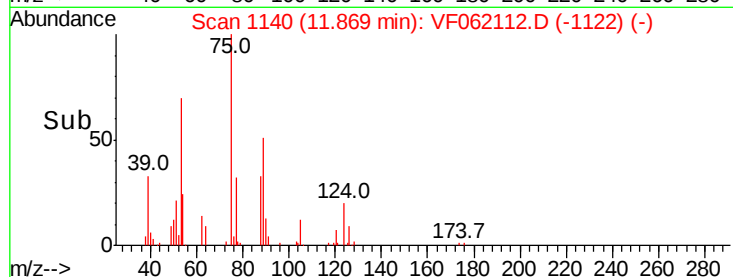
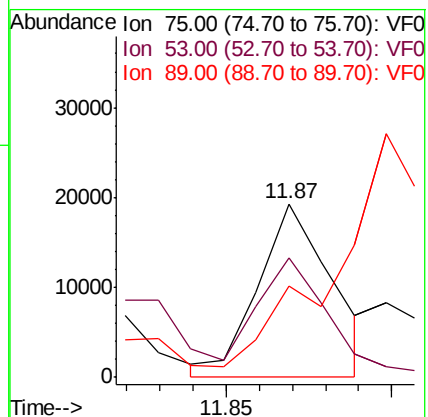
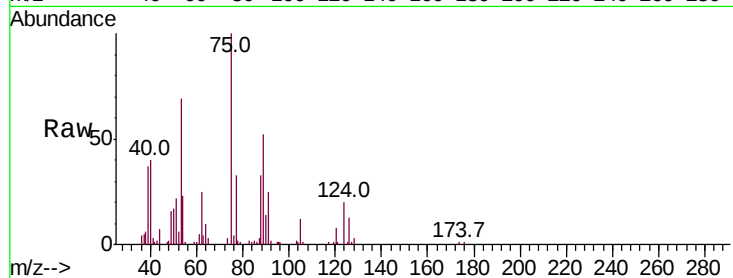
53 68.8 49.4 74.0

89 52.2 40.6 60.8

Manual Integrations
APPROVED

MMDadoda

3/25/2019 12:39:54 PM



#82

4-Chlorotoluene

Concen: 50.915 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.02 min

Lab File: VF062112.D

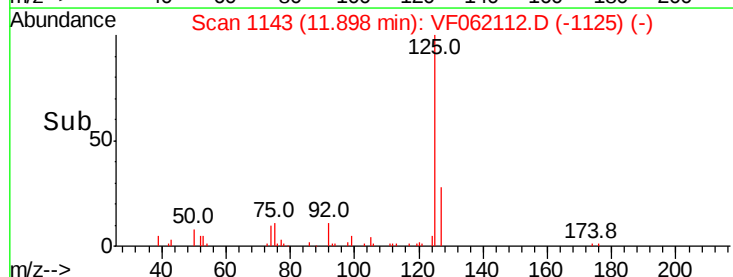
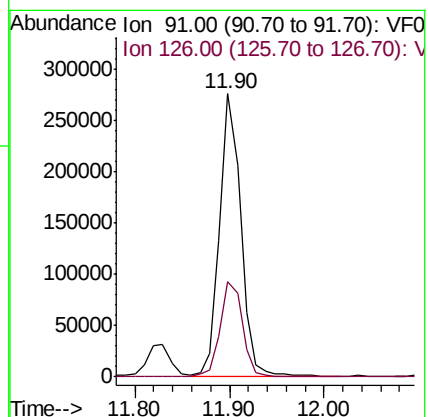
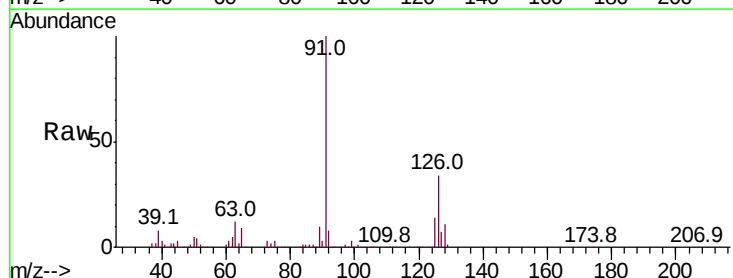
Acq: 23 Mar 2019 11:54

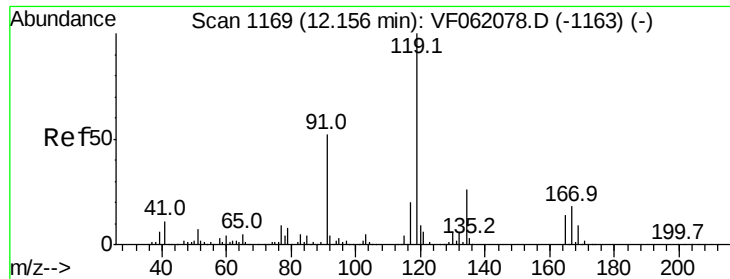
Tgt Ion: 91 Resp: 426860

Ion Ratio Lower Upper

91 100

126 33.6 17.2 51.6





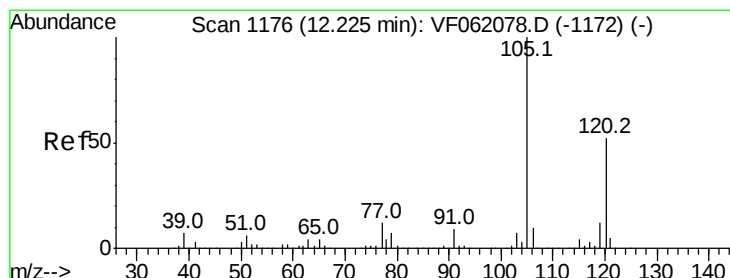
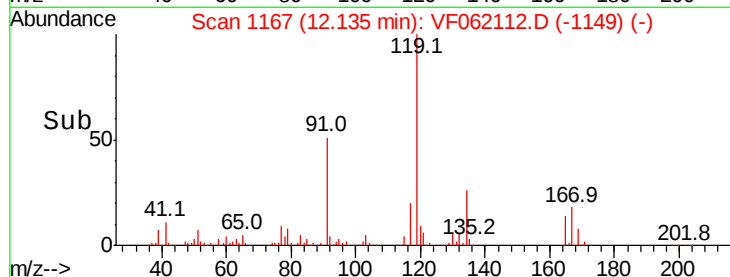
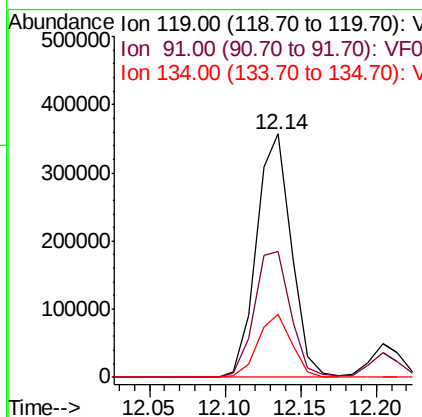
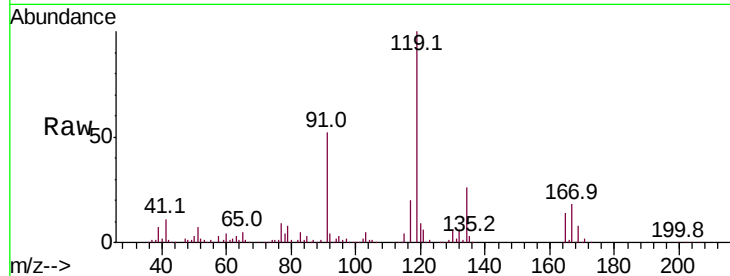
#83
tert-Butylbenzene
Concen: 53.026 ug/l
RT: 12.14 min Scan# 1167
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	578442		
91	51.7		26.1	78.2
134	26.2		12.8	38.4

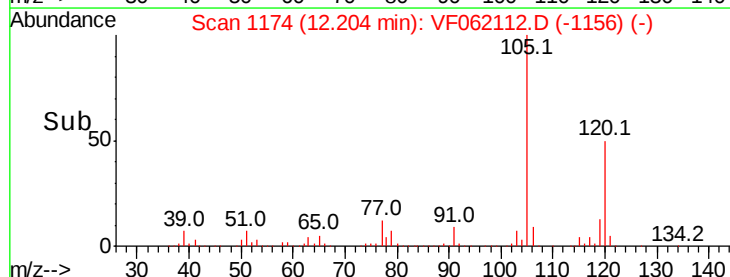
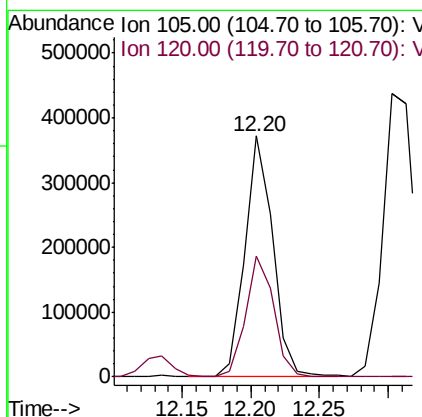
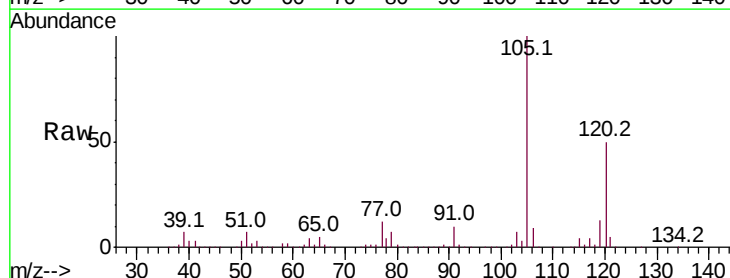
Manual Integrations
APPROVED

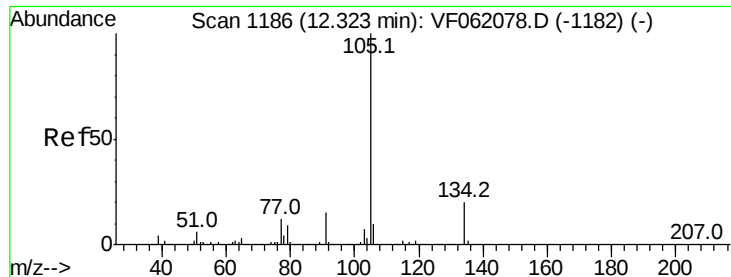
MMDadoda
3/25/2019 12:39:54 PM



#84
1,2,4-Trimethylbenzene
Concen: 51.907 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	530260		
120	50.3		26.1	78.2





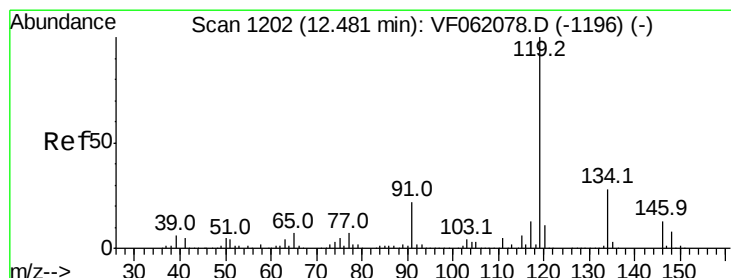
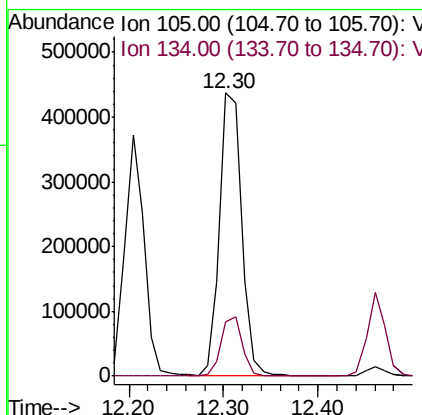
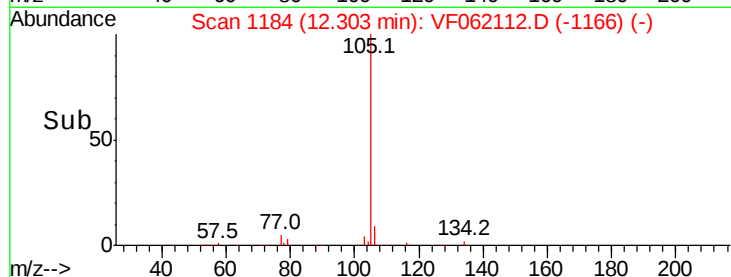
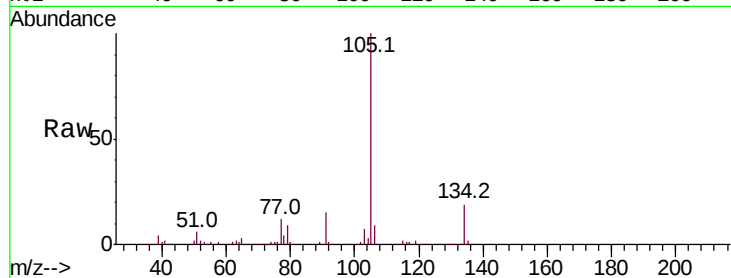
#85
 sec-Butylbenzene
 Concen: 50.322 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.02 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.4	10.2	30.4

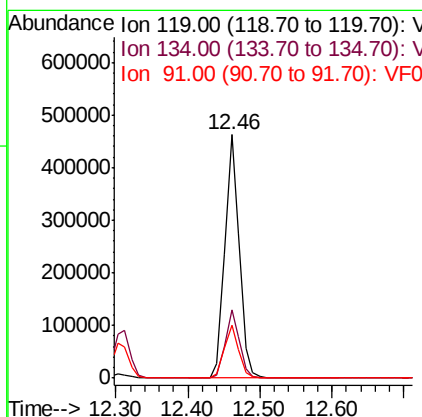
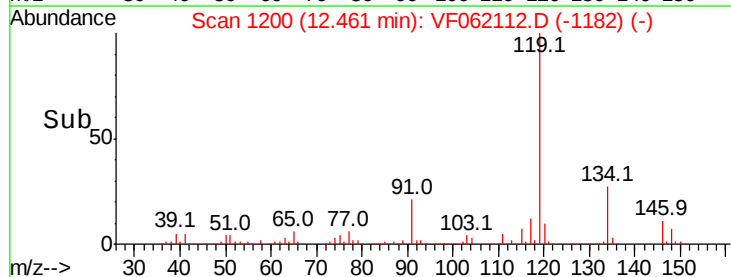
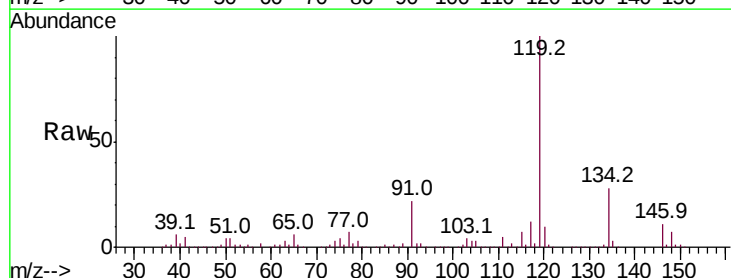
Manual Integrations
 APPROVED

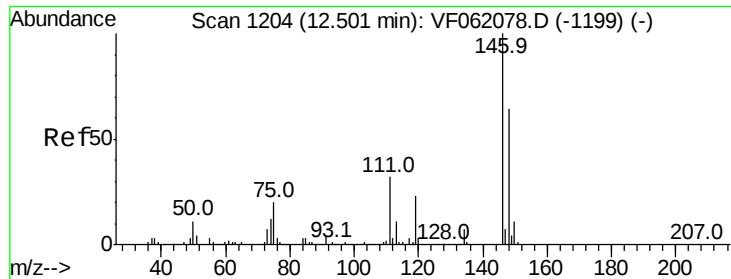
MMDadoda
 3/25/2019 12:39:54 PM



#86
 p-Isopropyltoluene
 Concen: 52.236 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.8	14.0	42.0
91	21.9	10.8	32.4





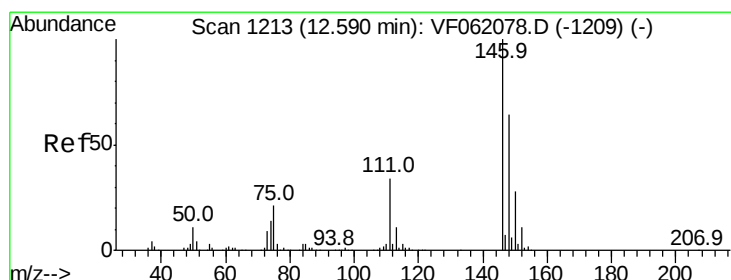
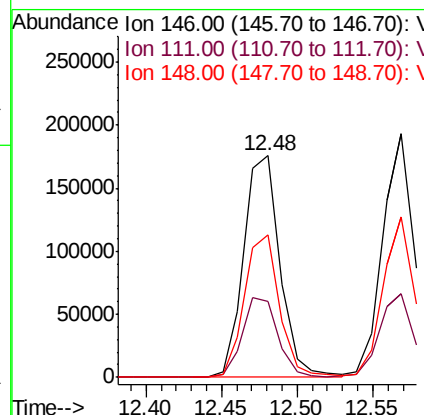
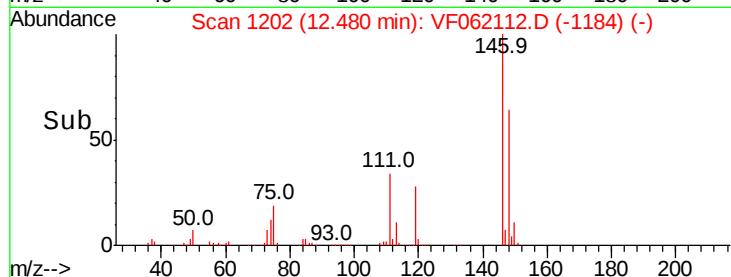
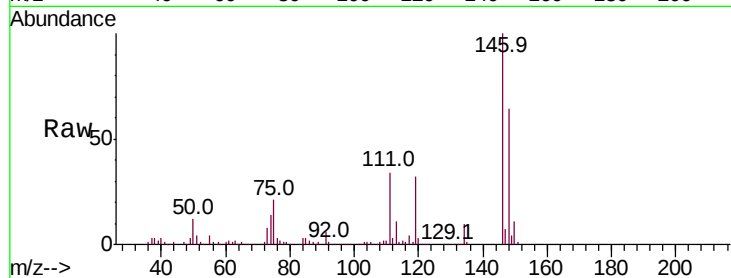
#87
 1,3-Dichlorobenzene
 Concen: 50.908 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.02 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.1	16.1	48.3
148	64.4	31.9	95.7

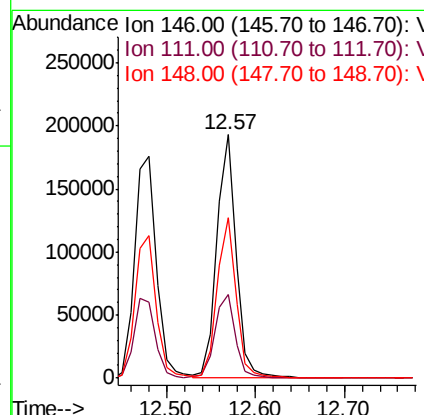
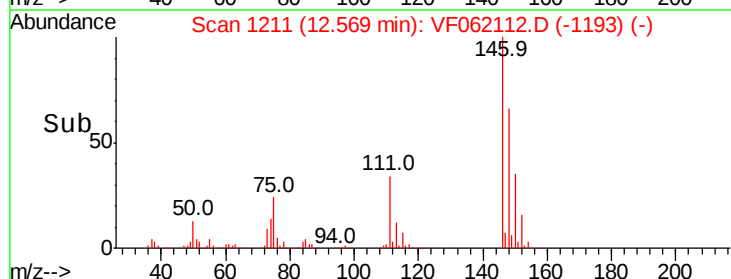
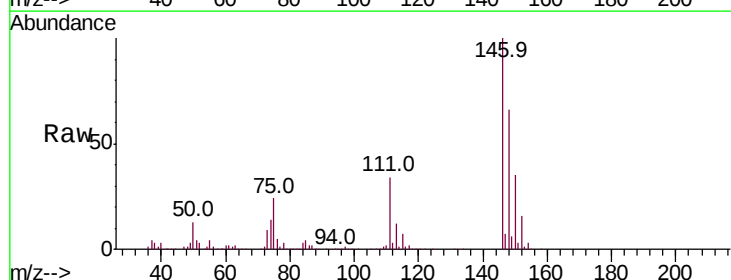
Manual Integrations
 APPROVED

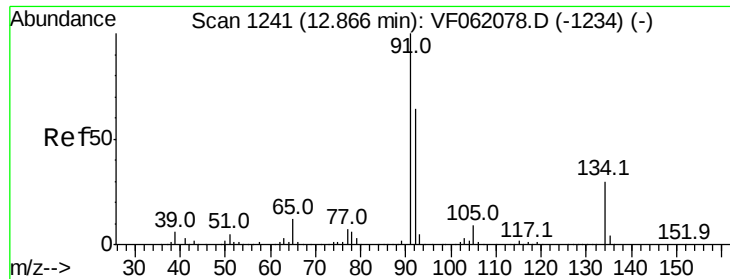
MMDadoda
 3/25/2019 12:39:54 PM



#88
 1,4-Dichlorobenzene
 Concen: 51.907 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.02 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.3	16.9	50.6
148	65.8	31.9	95.7





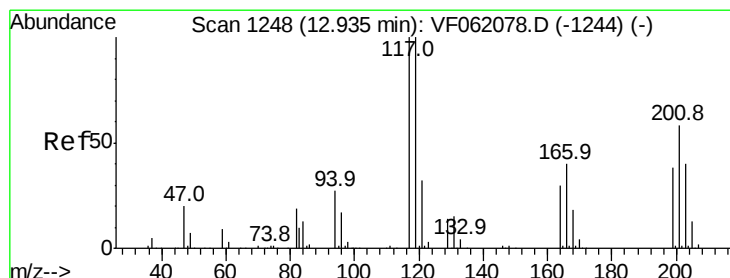
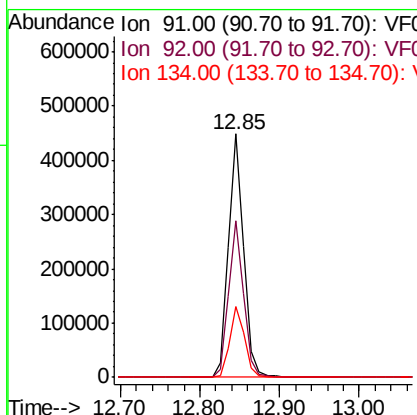
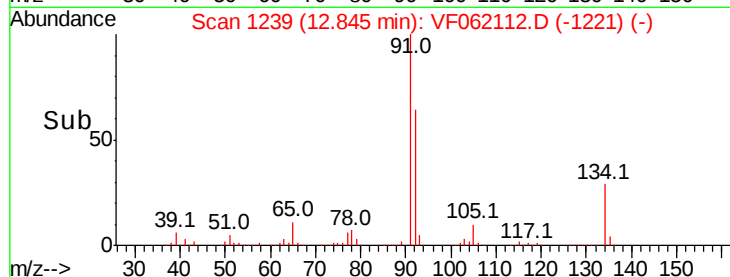
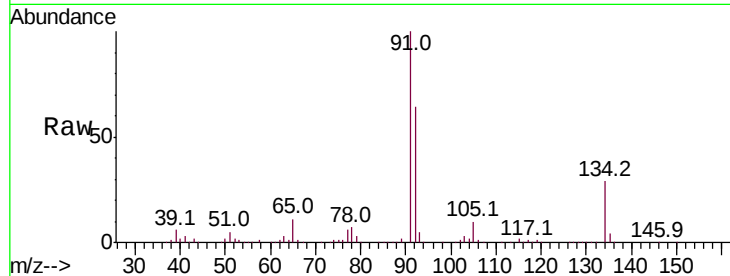
#89
n-Butylbenzene
Concen: 51.855 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.3	31.9	95.5
134	28.8	14.9	44.9

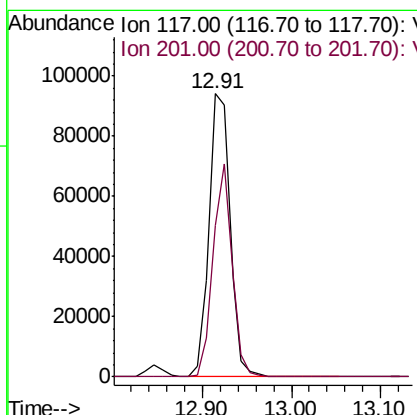
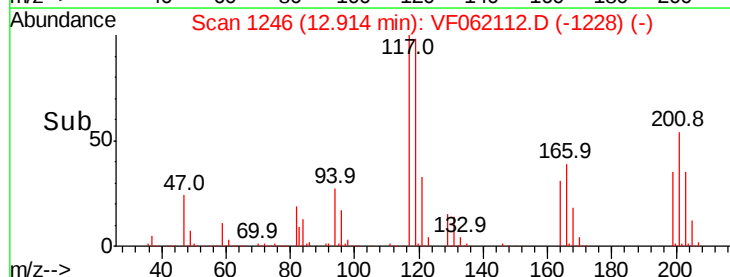
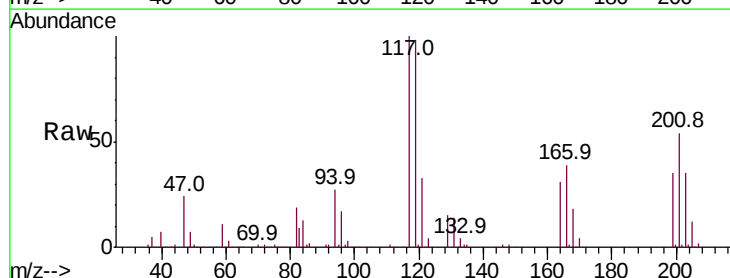
Manual Integrations
APPROVED

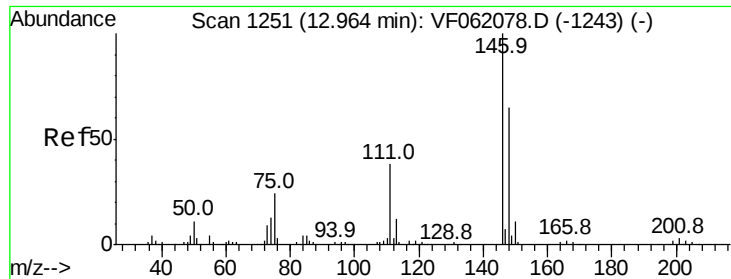
MMDadoda
3/25/2019 12:39:54 PM



#90
Hexachloroethane
Concen: 53.219 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
117	100		
201	53.8	28.7	86.1





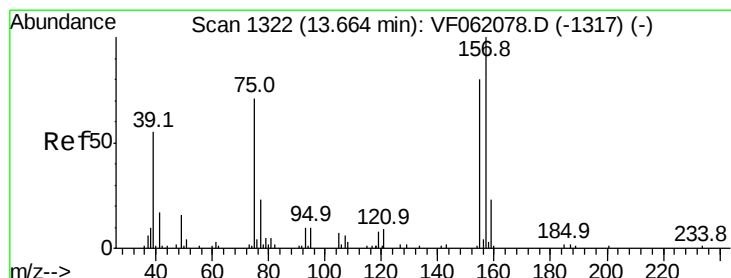
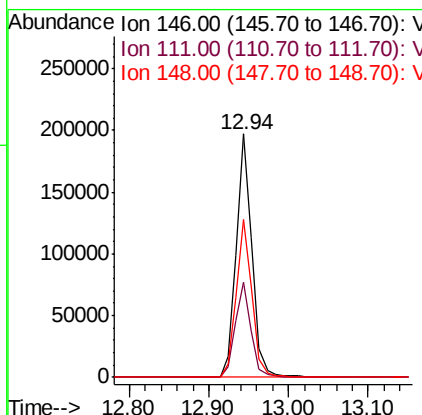
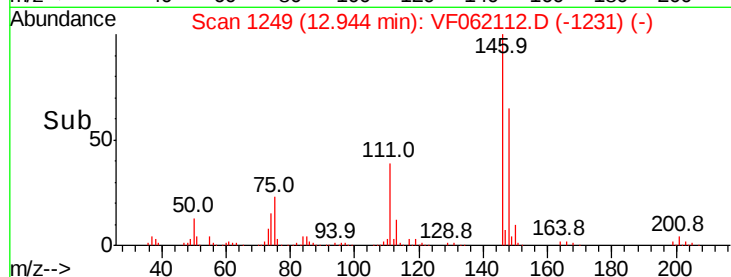
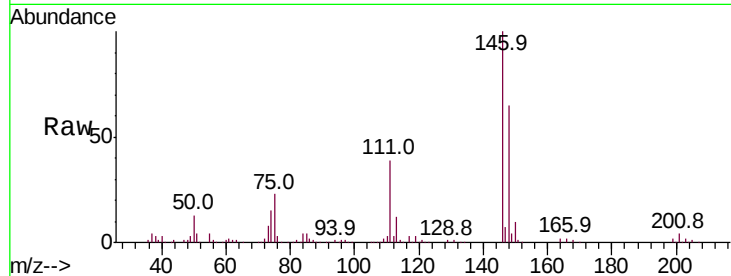
#91
 1,2-Dichlorobenzene
 Concen: 50.603 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.02 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.1	57.3
148	64.8	32.8	98.3

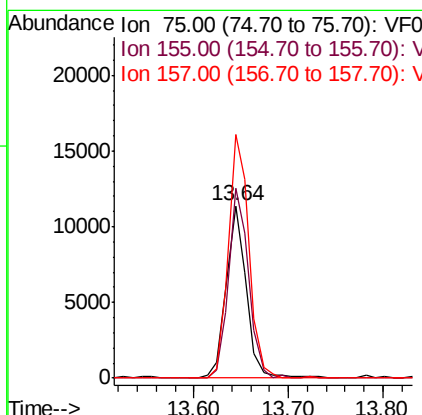
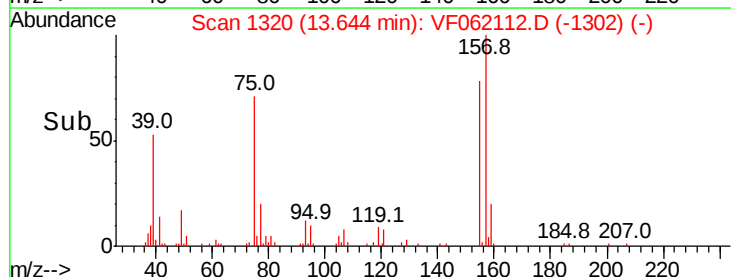
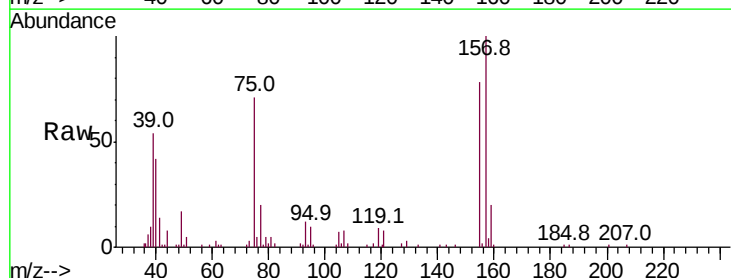
Manual Integrations
 APPROVED

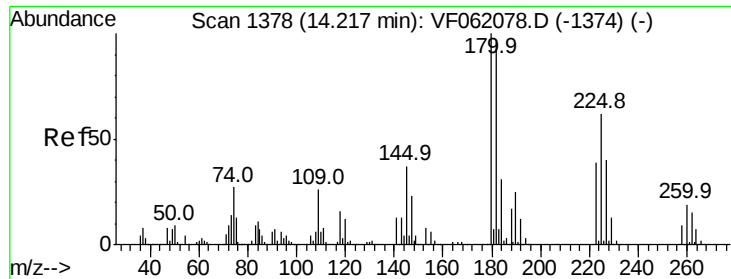
MMDadoda
 3/25/2019 12:39:54 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 50.993 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.02 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	110.6	56.1	168.4
157	141.4	70.4	211.2





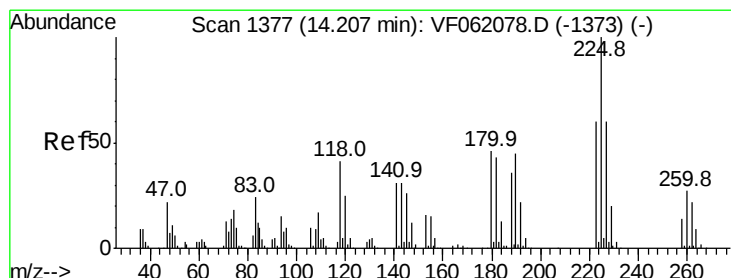
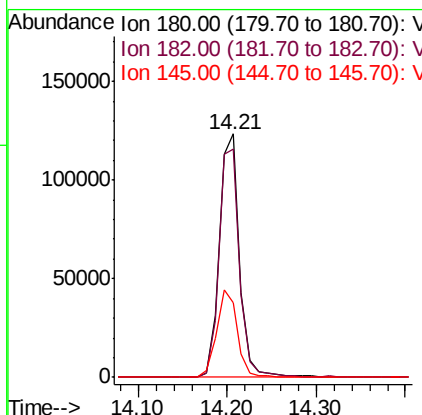
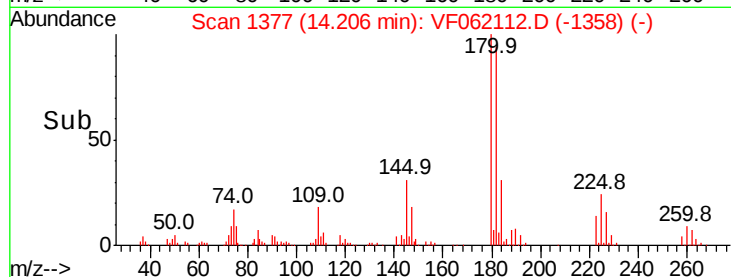
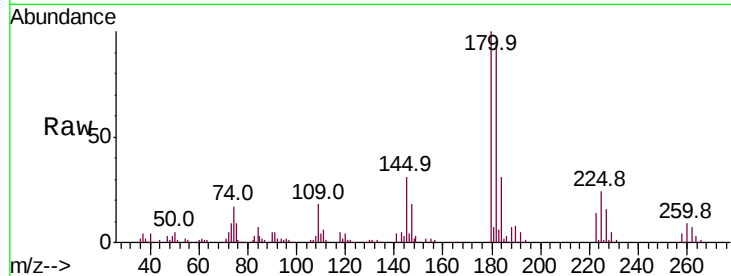
#93
 1,2,4-Trichlorobenzene
 Concen: 52.319 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.01 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	196893		
182	93.6	48.7	146.1	
145	30.9	18.3	54.8	

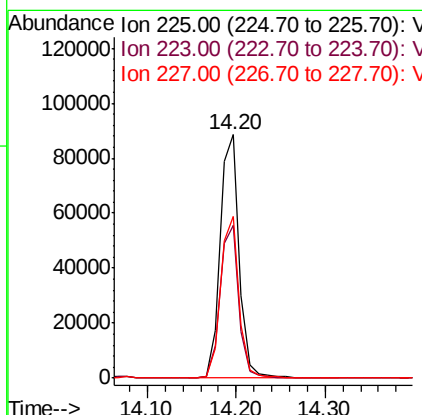
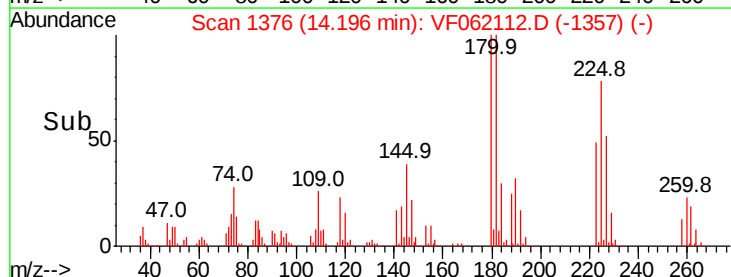
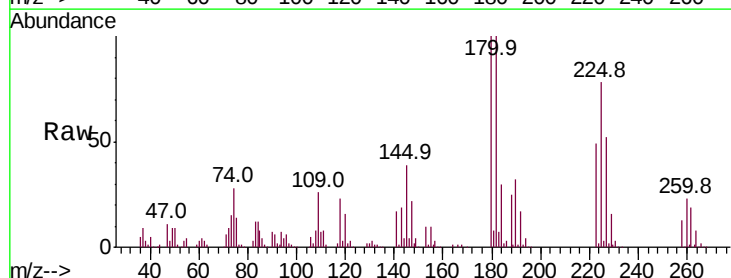
Manual Integrations
 APPROVED

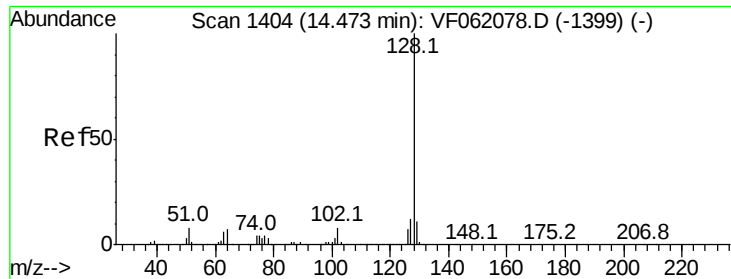
MMDadoda
 3/25/2019 12:39:54 PM



#94
 Hexachlorobutadiene
 Concen: 53.152 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF062112.D
 Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	132999		
223	63.0	30.0	90.0	
227	66.3	30.2	90.6	





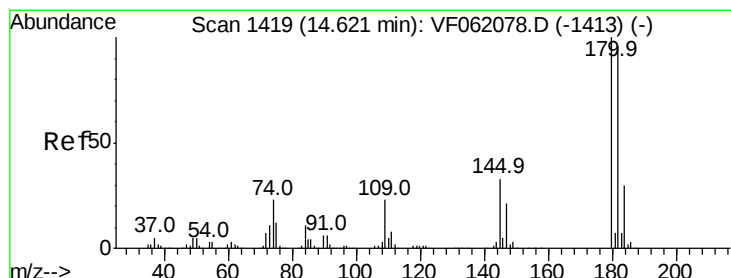
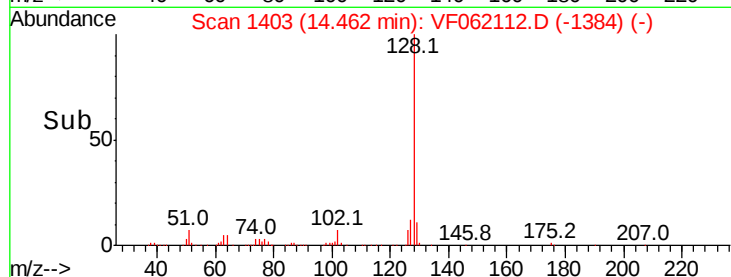
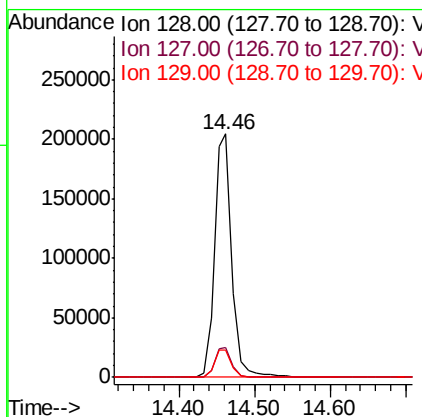
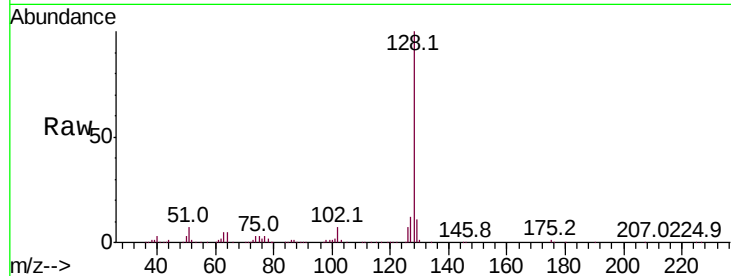
#95
Naphthalene
Concen: 49.975 ug/l
RT: 14.46 min Scan# 1403
Delta R.T. -0.01 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	329580		
127	12.1		9.5	14.3
129	11.4		8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:39:54 PM



#96
1,2,3-Trichlorobenzene
Concen: 50.358 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.02 min
Lab File: VF062112.D
Acq: 23 Mar 2019 11:54

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	177395		
182	95.4		47.9	143.7
145	33.8		16.6	49.7

