

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\
 Data File : VF062216.D
 Acq On : 18 Apr 2019 21:01
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 10:52:51 AM

Quant Time: Apr 19 03:31:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 07:43:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	431616	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.78	114	600278	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	483428	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	259792	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	198028	50.04	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.08%	
35) Dibromofluoromethane	4.31	113	249361	47.49	ug/l	0.01
Spiked Amount	50.000		Recovery	=	94.98%	
50) Toluene-d8	7.71	98	694884	52.28	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.56%	
62) 4-Bromofluorobenzene	11.49	95	270919	52.98	ug/l	0.01
Spiked Amount	50.000		Recovery	=	105.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	309763	47.226	ug/l	97
3) Chloromethane	1.14	50	305571	45.072	ug/l	99
4) Vinyl Chloride	1.19	62	272166	46.727	ug/l	100
5) Bromomethane	1.40	94	181140	53.534	ug/l	95
6) Chloroethane	1.44	64	119734	49.173	ug/l	98
7) Trichlorofluoromethane	1.56	101	369905	49.990	ug/l	94
8) Diethyl Ether	1.72	74	68510	44.485	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.90	101	245003	48.467	ug/l	99
10) Methyl Iodide	1.98	142	444370	49.483	ug/l	90
11) Tert butyl alcohol	2.71	59	65947	239.717	ug/l	94
12) 1,1-Dichloroethene	1.87	96	219986	45.754	ug/l	96
13) Acrolein	2.10	56	29186	241.871	ug/l	88
14) Allyl chloride	2.20	41	238545	43.232	ug/l	100
15) Acrylonitrile	3.10	53	191104	228.074	ug/l	99
16) Acetone	2.36	43	222566	235.272	ug/l	98
17) Carbon Disulfide	1.92	76	643279m	48.148	ug/l	
18) Methyl Acetate	2.46	43	95281	46.327	ug/l	99
19) Methyl tert-butyl Ether	2.55	73	428523	50.480	ug/l	96
20) Methylene Chloride	2.34	84	226775	48.639	ug/l	96
21) trans-1,2-Dichloroethene	2.43	96	228908	48.143	ug/l	98
22) Diisopropyl ether	2.95	45	675175	47.835	ug/l	99
23) Vinyl Acetate	3.35	43	1660071	246.856	ug/l	99
24) 1,1-Dichloroethane	3.02	63	376373	48.746	ug/l	99
25) 2-Butanone	4.53	43	450145	237.977	ug/l	97
26) 2,2-Dichloropropane	3.78	77	173709	44.561	ug/l	99
27) cis-1,2-Dichloroethene	3.65	96	299288	48.607	ug/l	98
28) Bromochloromethane	3.90	49	162529	43.943	ug/l #	96
29) Tetrahydrofuran	4.28	42	196171	229.123	ug/l	97
30) Chloroform	4.05	83	475403	50.100	ug/l	97
31) Cyclohexane	3.88	56	420371	45.431	ug/l	99
32) 1,1,1-Trichloroethane	4.29	97	362153	52.140	ug/l #	90
36) 1,1-Dichloropropene	4.48	75	374408	52.023	ug/l	99
37) Ethyl Acetate	4.31	43	166938	49.155	ug/l #	96
38) Carbon Tetrachloride	4.19	117	329834m	51.776	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\
 Data File : VF062216.D
 Acq On : 18 Apr 2019 21:01
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 10:52:51 AM

Quant Time: Apr 19 03:31:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 07:43:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	429104	49.797	ug/l	95
40) Benzene	4.83	78	935671	49.566	ug/l	99
41) Methacrylonitrile	4.94	41	89977	45.931	ug/l	95
42) 1,2-Dichloroethane	5.14	62	261800	52.460	ug/l	99
43) Isopropyl Acetate	7.12	43	197897	55.404	ug/l	97
44) Trichloroethene	5.69	130	265731	52.094	ug/l	97
45) 1,2-Dichloropropane	6.41	63	222935	53.613	ug/l	99
46) Dibromomethane	6.26	93	146387	52.913	ug/l	95
47) Bromodichloromethane	6.56	83	327991	52.537	ug/l	98
48) Methyl methacrylate	6.88	41	123568	52.640	ug/l	99
49) 1,4-Dioxane	6.88	88	27498	1021.435	ug/l	99
51) 4-Methyl-2-Pentanone	8.41	43	681844	256.650	ug/l	98
52) Toluene	7.78	92	535803	53.846	ug/l	100
53) t-1,3-Dichloropropene	8.43	75	257422	54.898	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	338651	53.392	ug/l	97
55) 1,1,2-Trichloroethane	8.64	97	153595	55.099	ug/l	98
56) Ethyl methacrylate	8.75	69	186627	58.885	ug/l	99
57) 1,3-Dichloropropane	9.00	76	248402	55.184	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.45	63	266501	289.620	ug/l	99
59) 2-Hexanone	9.62	43	455072	274.668	ug/l	95
60) Dibromochloromethane	8.86	129	233986	56.440	ug/l	98
61) 1,2-Dibromoethane	9.14	107	178599	56.868	ug/l	97
64) Tetrachloroethene	8.31	164	251729	57.683	ug/l	99
65) Chlorobenzene	9.94	112	556560	53.993	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.06	131	240460	49.813	ug/l	99
67) Ethyl Benzene	10.03	91	974700	52.001	ug/l	100
68) m/p-Xylenes	10.26	106	705354	102.223	ug/l	97
69) o-Xylene	10.82	106	386841	50.495	ug/l	98
70) Styrene	10.89	104	582879	53.914	ug/l	99
71) Bromoform	10.88	173	139098	54.576	ug/l #	98
73) Isopropylbenzene	11.22	105	1109867	49.734	ug/l	99
74) N-amyl acetate	11.44	43	294294	55.837	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	193331	50.375	ug/l	98
76) 1,2,3-Trichloropropane	11.87	75	132400	50.143	ug/l #	64
77) Bromobenzene	11.58	156	265437	55.524	ug/l	92
78) n-propylbenzene	11.67	91	1183293	50.264	ug/l	98
79) 2-Chlorotoluene	11.80	91	721114	50.497	ug/l	97
80) 1,3,5-Trimethylbenzene	11.90	105	926103	49.826	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	68410m	50.801	ug/l	
82) 4-Chlorotoluene	11.98	91	704600	51.055	ug/l	97
83) tert-Butylbenzene	12.20	119	938473	48.825	ug/l	99
84) 1,2,4-Trimethylbenzene	12.27	105	863448	48.006	ug/l	98
85) sec-Butylbenzene	12.37	105	1211000	48.529	ug/l	98
86) p-Isopropyltoluene	12.52	119	1053521	49.770	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	455254	51.318	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	451179	52.727	ug/l	99
89) n-Butylbenzene	12.90	91	932548	53.982	ug/l	99
90) Hexachloroethane	12.97	117	272136	50.065	ug/l	94
91) 1,2-Dichlorobenzene	13.00	146	439643	51.324	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	36689	48.657	ug/l	89

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\
Data File : VF062216.D
Acq On : 18 Apr 2019 21:01
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

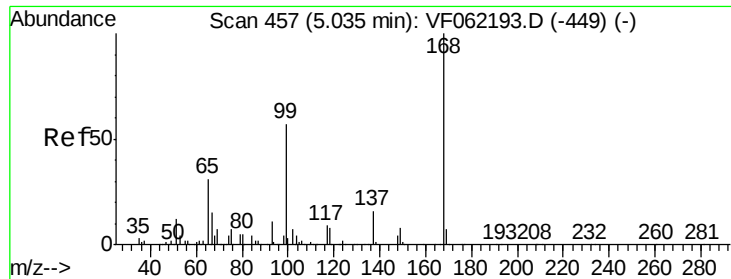
Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM

Quant Time: Apr 19 03:31:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 18 07:43:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	360697	50.327	ug/l	98
94) Hexachlorobutadiene	14.23	225	258267	52.553	ug/l	99
95) Naphthalene	14.49	128	657177	52.441	ug/l	100
96) 1,2,3-Trichlorobenzene	14.64	180	358590	52.116	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 431616

Ion Ratio Lower Upper

168 100

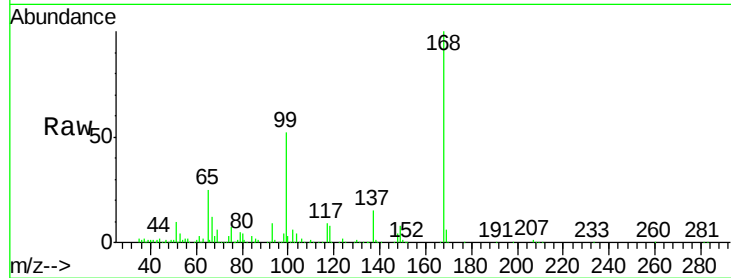
99 51.8 45.5 68.3

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:51 AM



Abundance Ion 167.90 (167.60 to 168.60): VF062216.D

Ion 98.90 (98.60 to 99.60): VF062216.D

5.06

150000

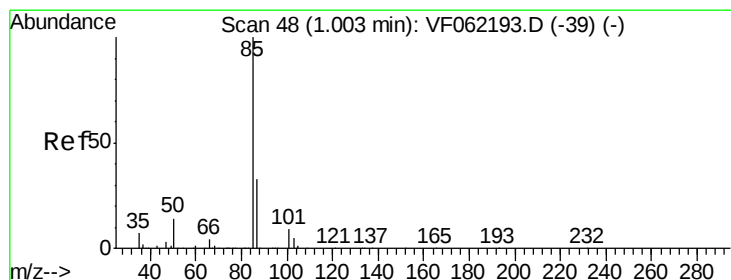
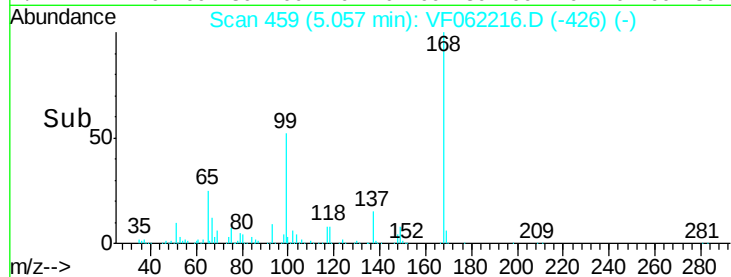
100000

50000

0

5.00 5.20 5.40

Time-->



#2

Dichlorodifluoromethane

Concen: 47.226 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062216.D

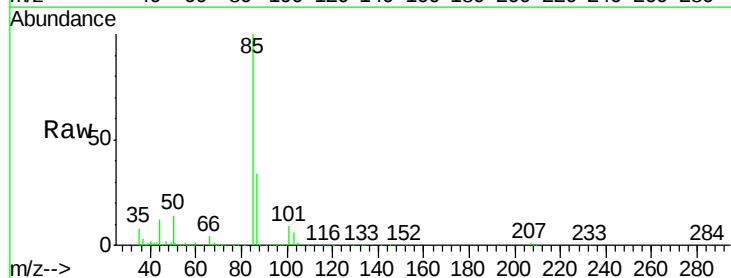
Acq: 18 Apr 2019 21:01

Tgt Ion: 85 Resp: 309763

Ion Ratio Lower Upper

85 100

87 34.3 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF062216.D

Ion 86.90 (86.60 to 87.60): VF062216.D

1.01

100000

80000

60000

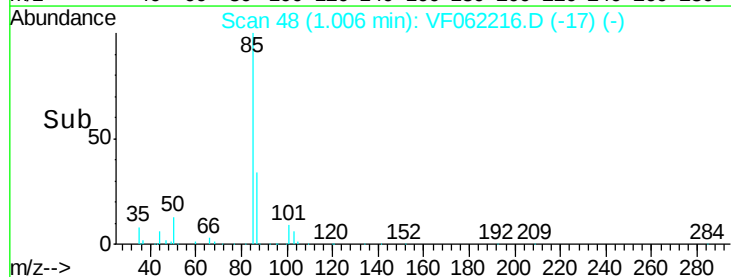
40000

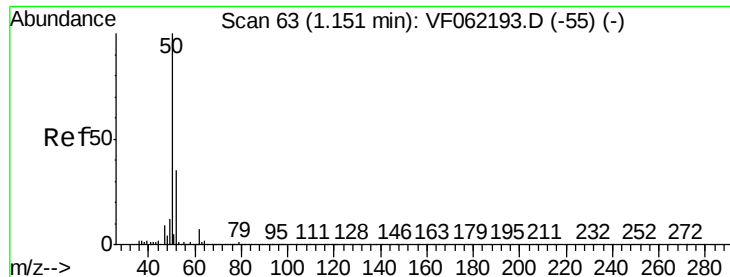
20000

0

0.80 1.00 1.20

Time-->





#3

Chloromethane

Concen: 45.072 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 305571

Ion Ratio Lower Upper

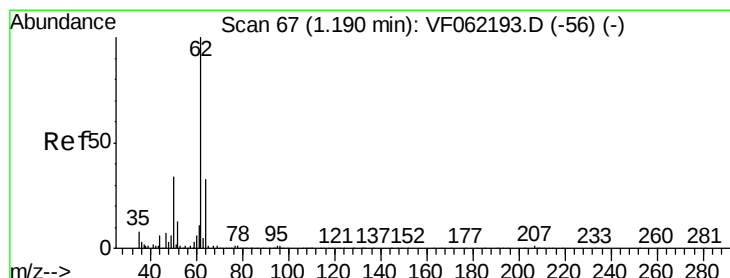
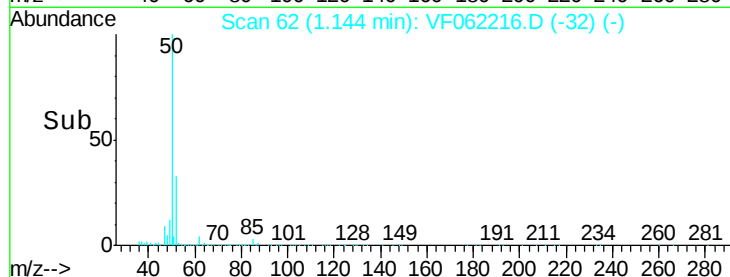
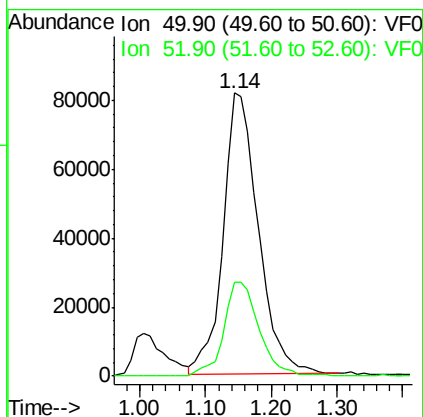
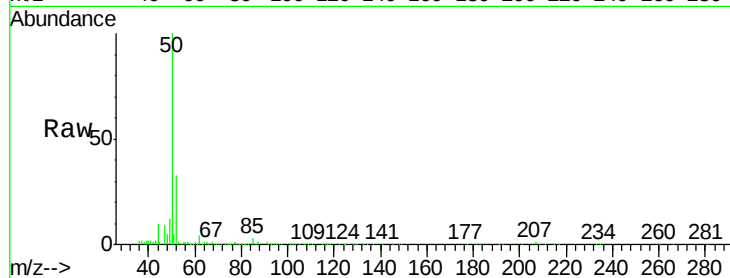
50 100

52 33.2 27.0 40.4

Manual Integrations
APPROVED

MMDadoda

4/19/2019 10:52:51 AM



#4

Vinyl Chloride

Concen: 46.727 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062216.D

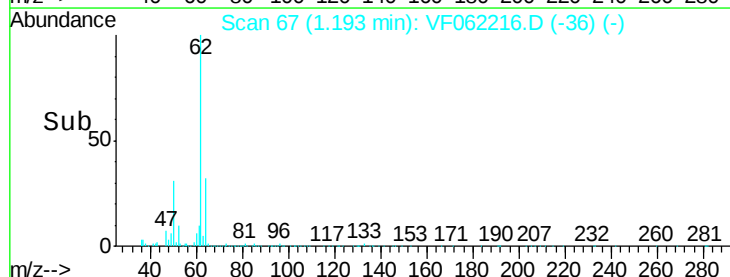
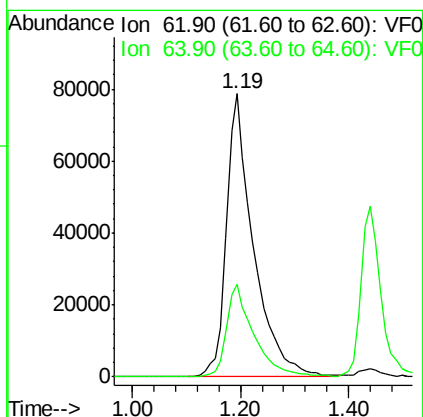
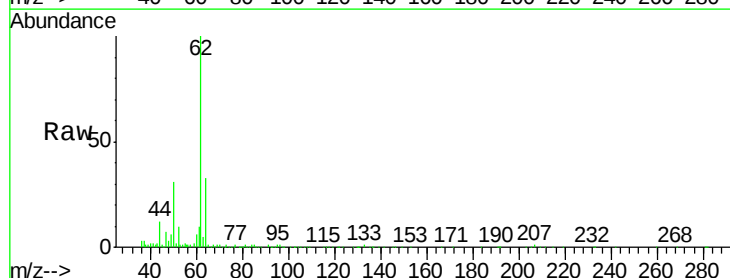
Acq: 18 Apr 2019 21:01

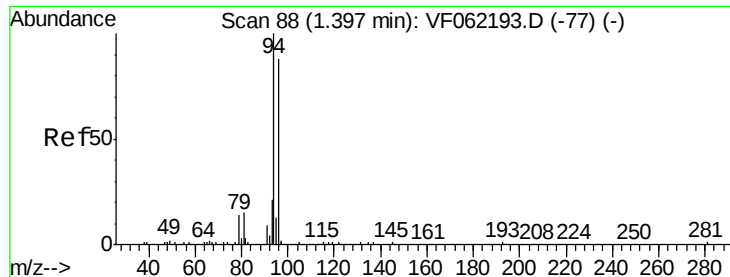
Tgt Ion: 62 Resp: 272166

Ion Ratio Lower Upper

62 100

64 32.6 26.2 39.4





#5

Bromomethane

Concen: 53.534 ug/l

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tot Ion: 94 Resp: 181140

Ion Ratio Lower Upper

94 100

96 92.8 70.2 105.4

Instrument :

MSVOA_F

ClientSampleId :

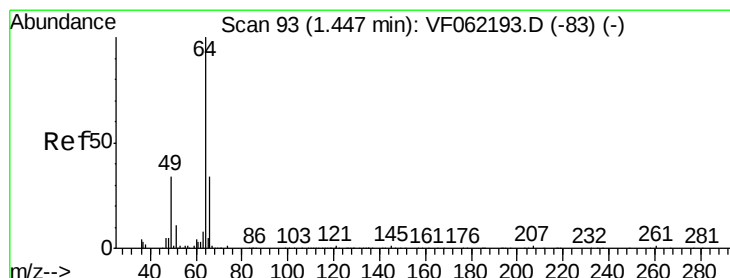
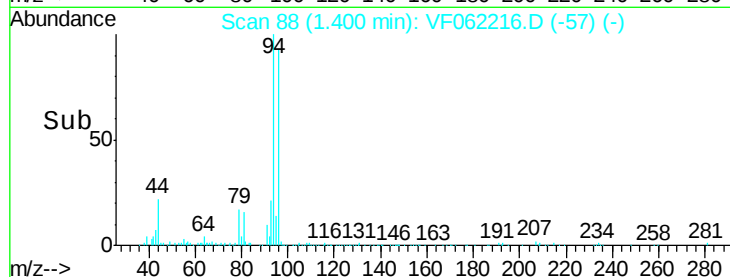
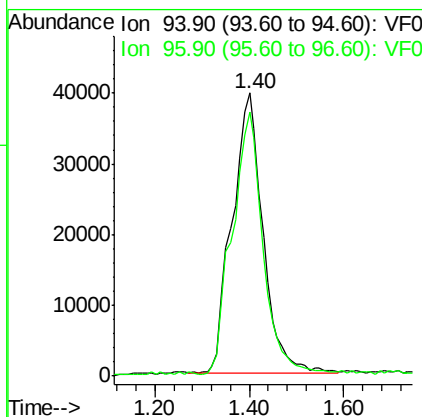
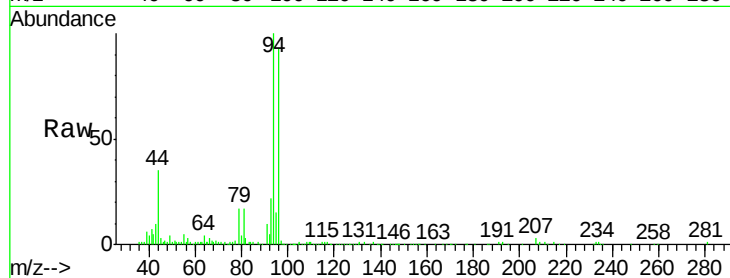
VSTDCCC050EC

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:51 AM



#6

Chloroethane

Concen: 49.173 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062216.D

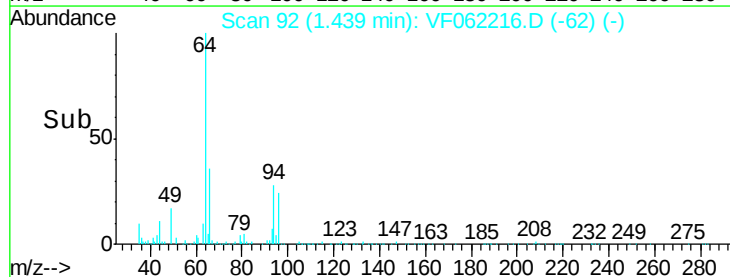
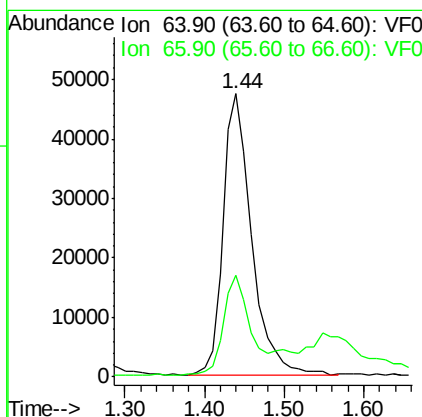
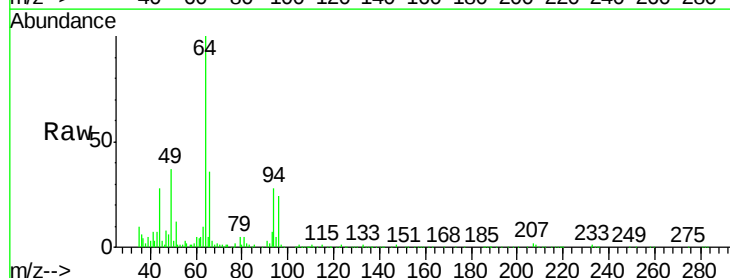
Acq: 18 Apr 2019 21:01

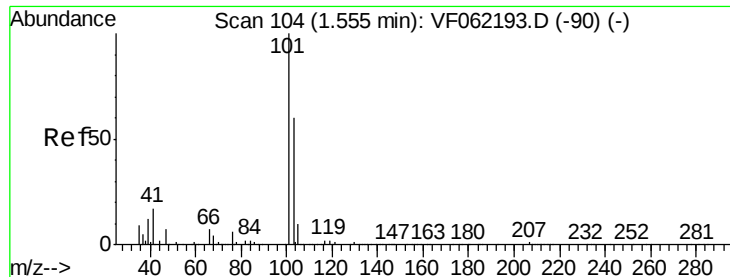
Tgt Ion: 64 Resp: 119734

Ion Ratio Lower Upper

64 100

66 35.0 27.0 40.4





#7

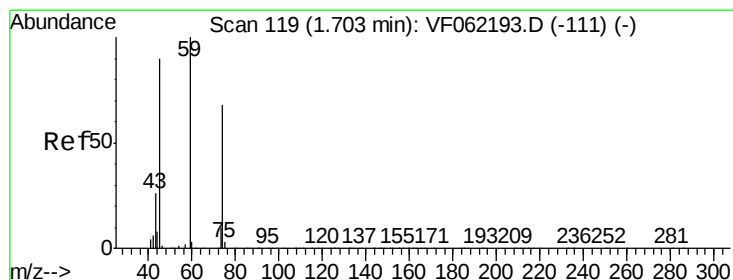
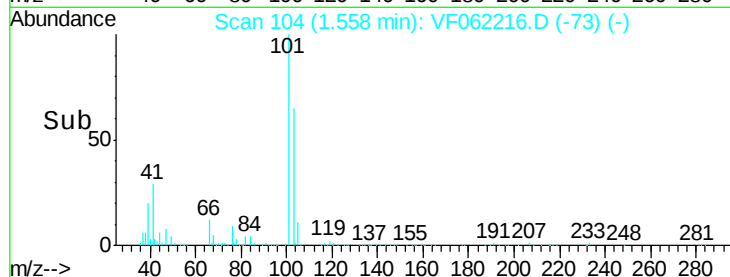
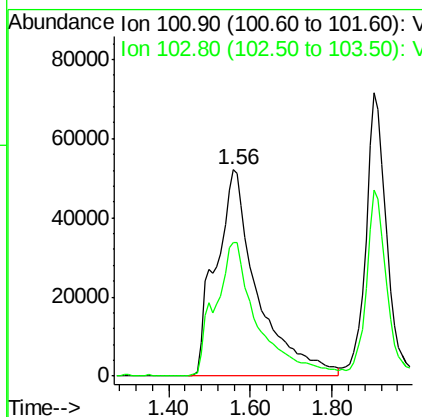
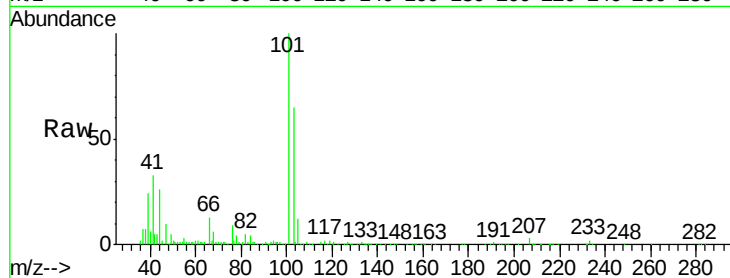
Trichlorofluoromethane
Concen: 49.990 ug/l
RT: 1.56 min Scan# 104
Delta R.T. 0.00 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	48.2	72.4

Manual Integrations
APPROVED

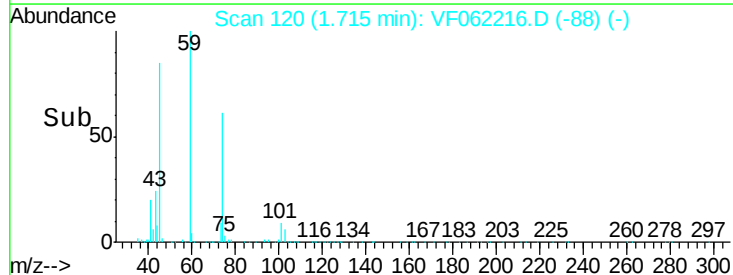
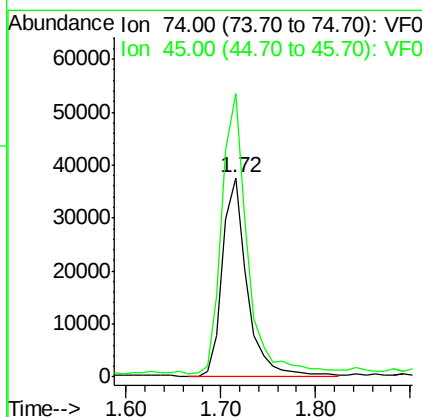
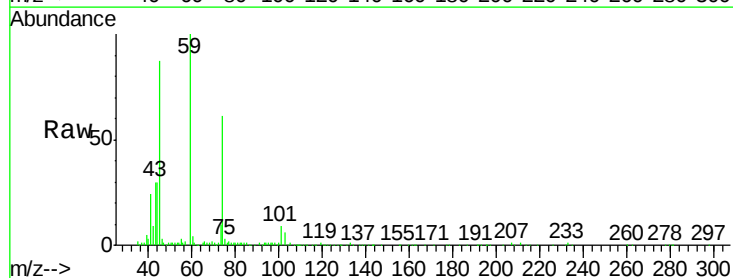
MMDadoda
4/19/2019 10:52:51 AM

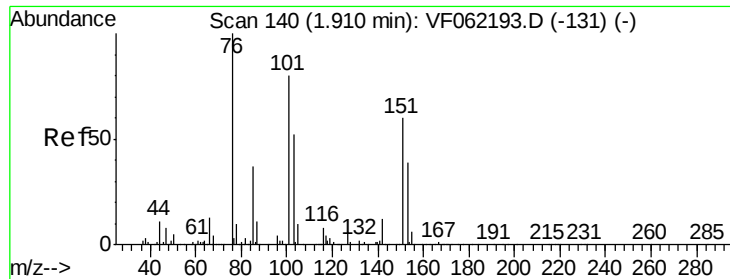


#8

Diethyl Ether
Concen: 44.485 ug/l
RT: 1.72 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
74	100		
45	143.5	70.0	210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.467 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

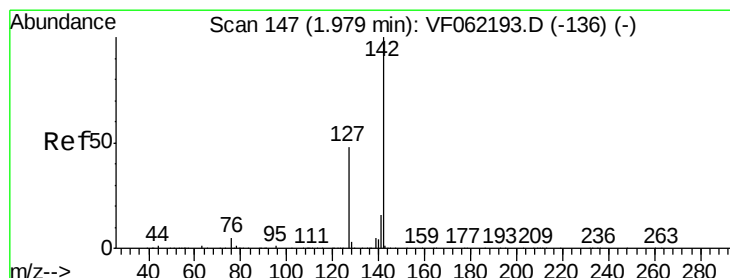
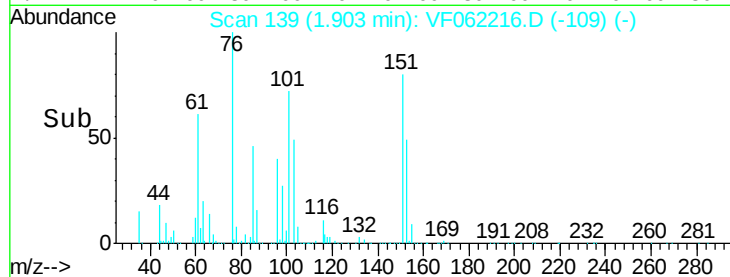
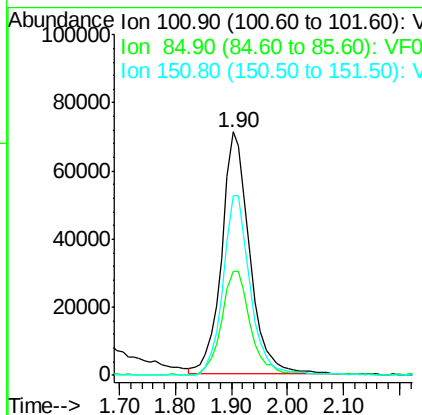
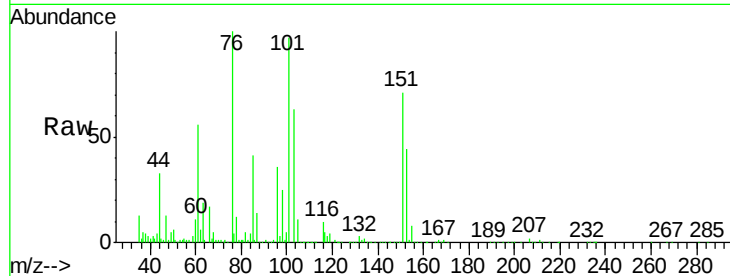
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	245003
Ion Ratio	Lower	Upper	
101	100		
85	44.0	35.3	52.9
151	72.9	57.5	86.3

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#10

Methyl Iodide

Concen: 49.483 ug/l

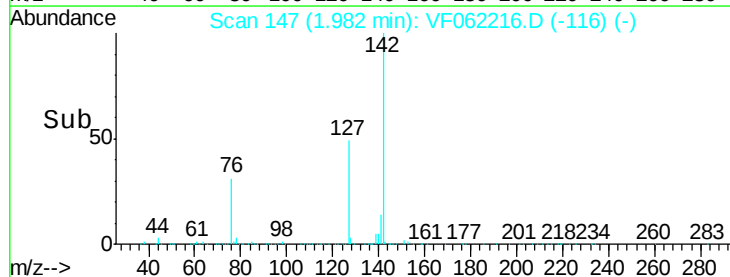
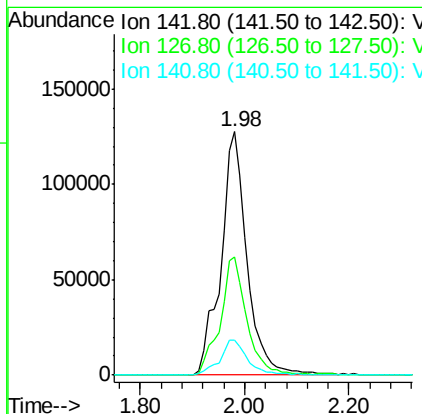
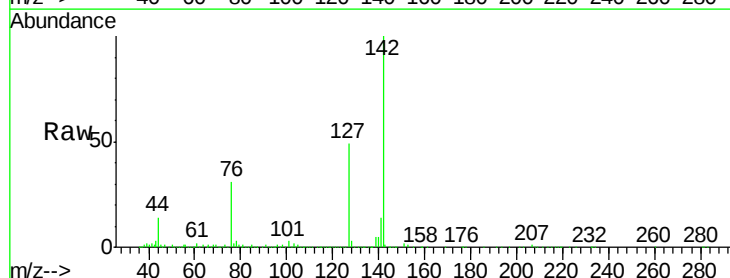
RT: 1.98 min Scan# 147

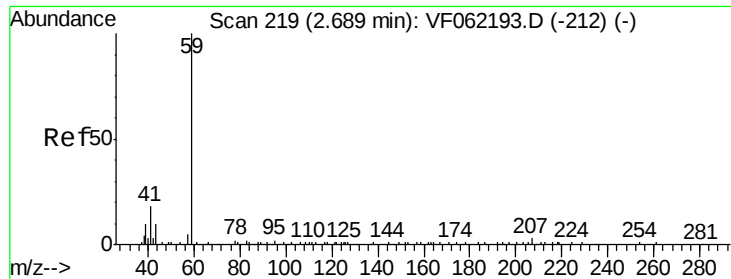
Delta R.T. 0.00 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	142	Resp:	444370
Ion Ratio	Lower	Upper	
142	100		
127	49.3	33.0	49.4
141	14.8	12.7	19.1





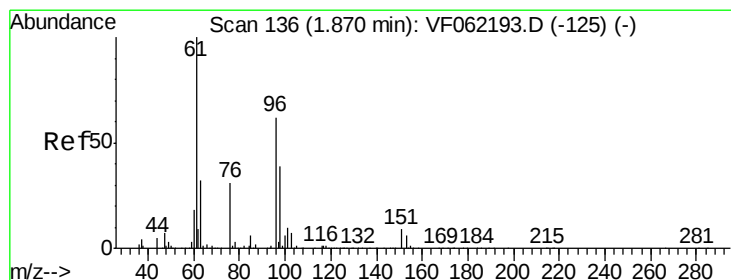
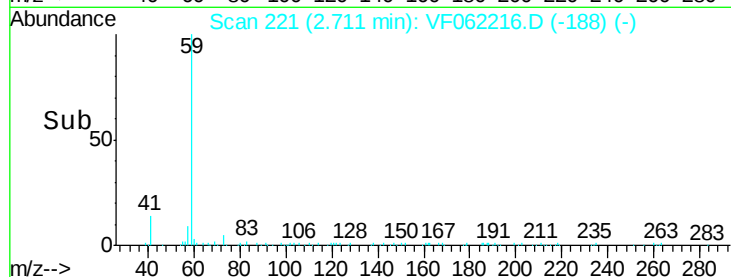
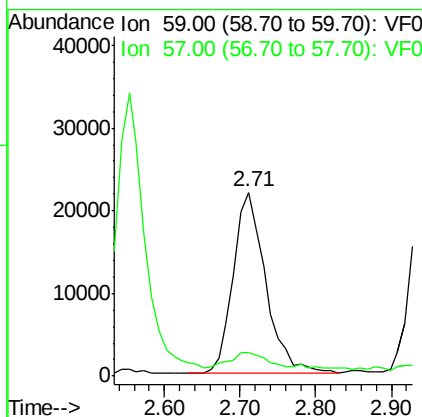
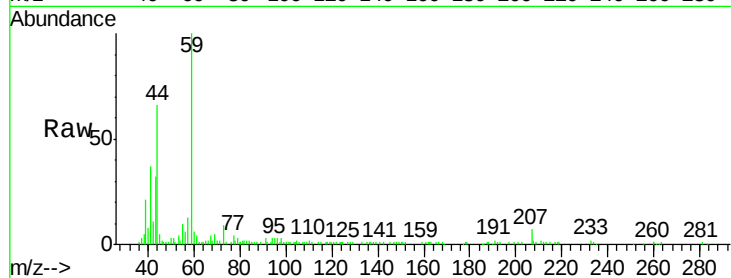
#11
Tert butyl alcohol
Concen: 239.717 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.3	9.3	13.9

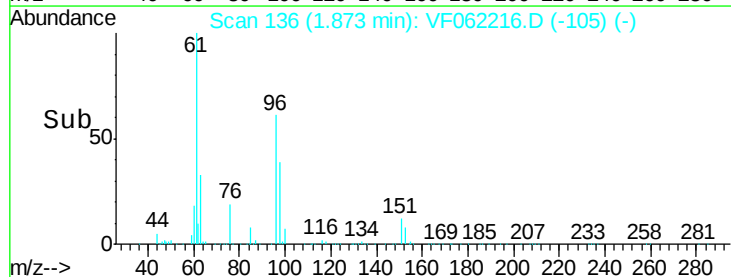
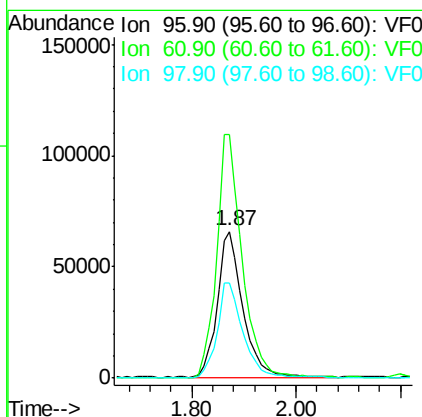
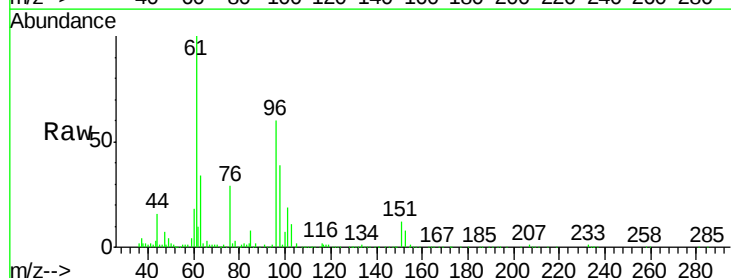
Manual Integrations
APPROVED

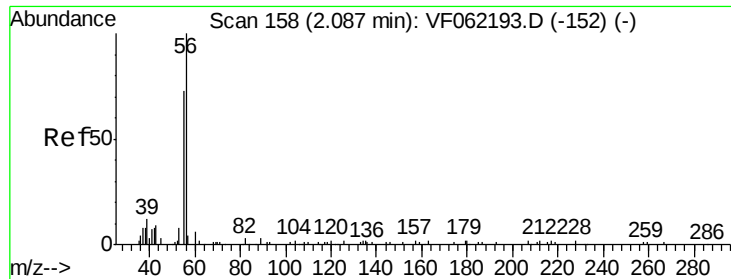
MMDadoda
4/19/2019 10:52:51 AM



#12
1,1-Dichloroethene
Concen: 45.754 ug/l
RT: 1.87 min Scan# 136
Delta R.T. 0.00 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.0	129.1	193.7
98	64.5	50.0	75.0





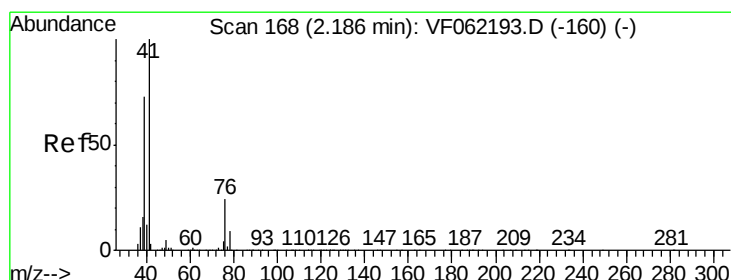
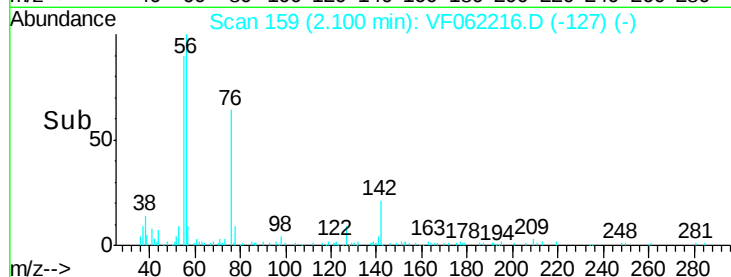
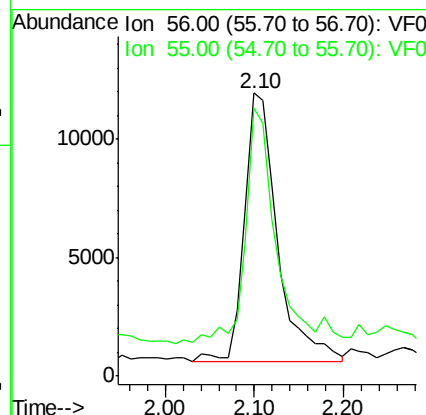
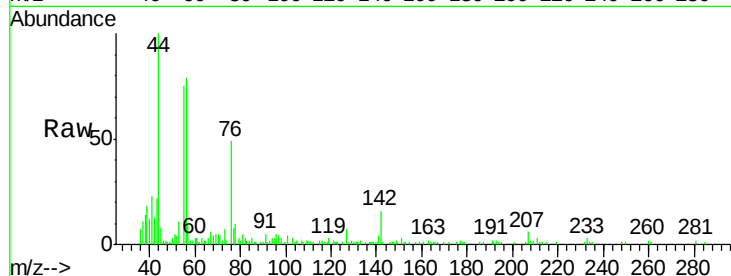
#13
Acrolein
Concen: 241.871 ug/l
RT: 2.10 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
55	81.4	57.4	86.0

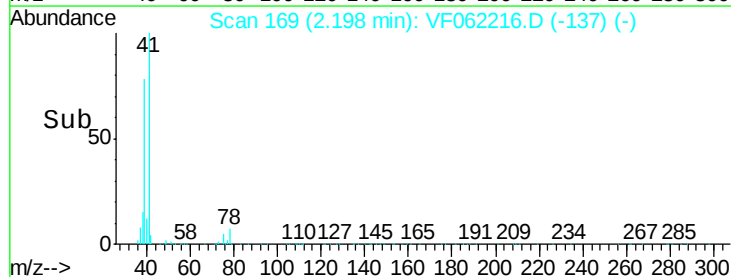
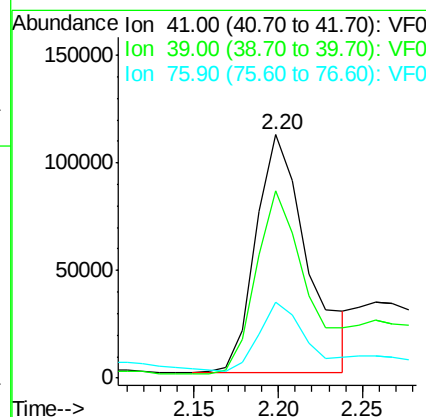
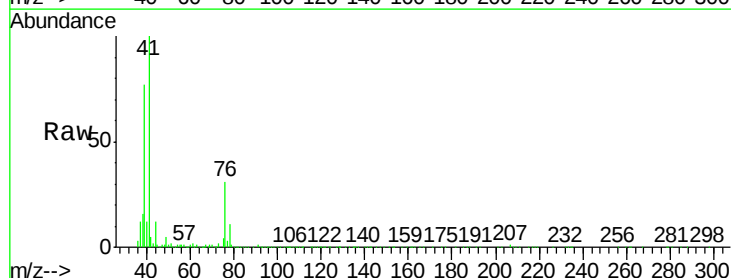
Manual Integrations
APPROVED

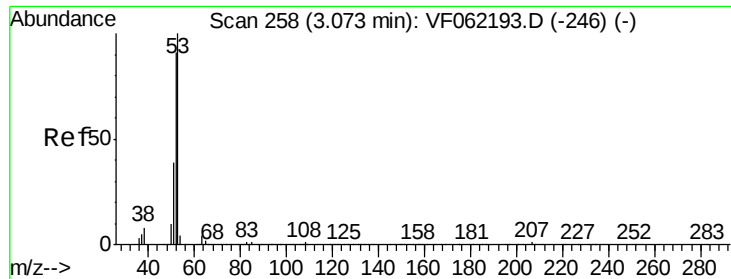
MMDadoda
4/19/2019 10:52:51 AM



#14
Allyl chloride
Concen: 43.232 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	74.9	60.0	90.0
76	25.8	20.6	30.8





#15

Acrylonitrile

Concen: 228.074 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

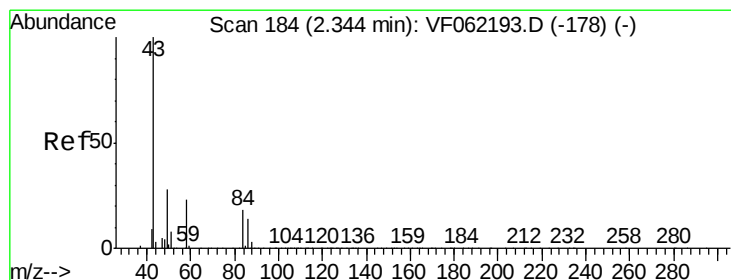
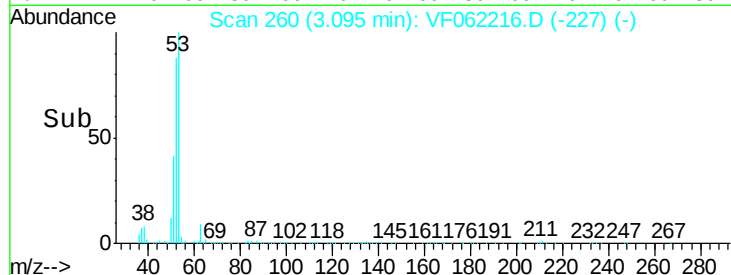
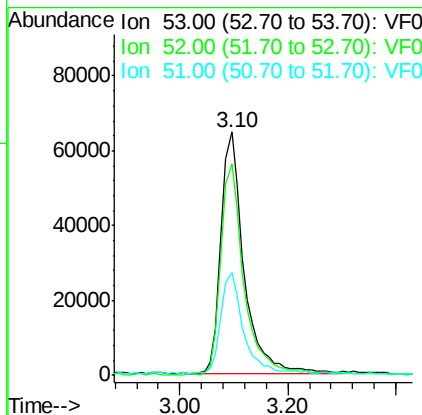
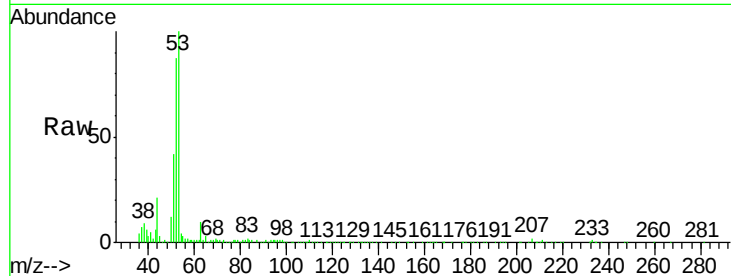
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	191104
Ion Ratio		Lower	Upper
53	100		
52	87.6	69.5	104.3
51	41.3	31.8	47.8

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#16

Acetone

Concen: 235.272 ug/l

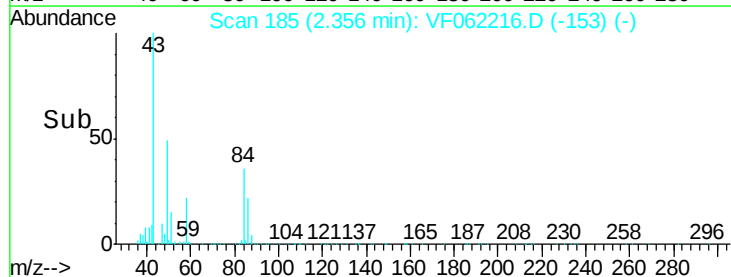
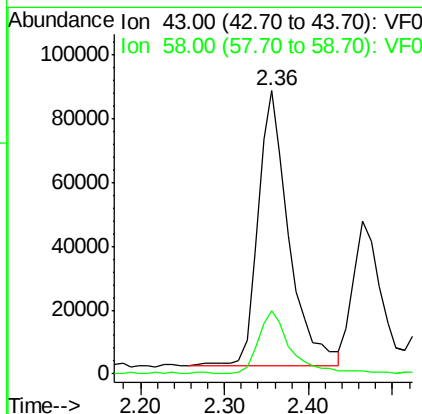
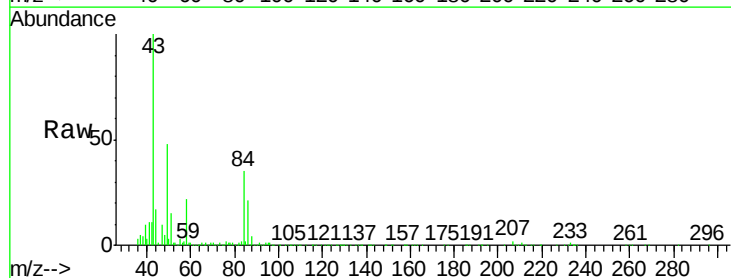
RT: 2.36 min Scan# 185

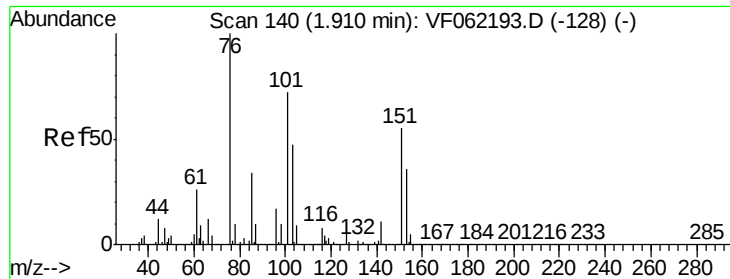
Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	43	Resp:	222566
Ion Ratio		Lower	Upper
43	100		
58	22.5	18.8	28.2





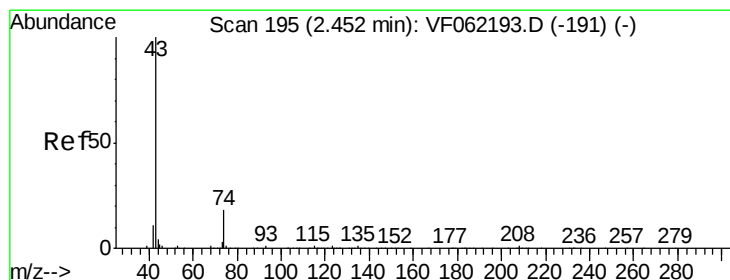
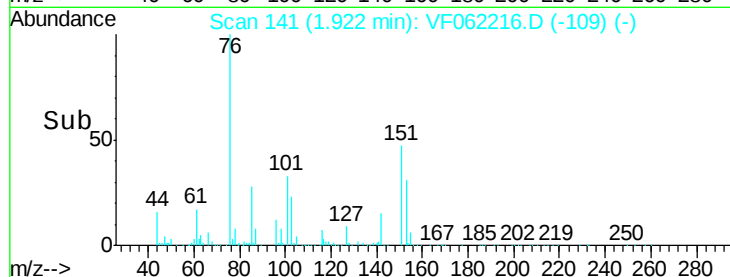
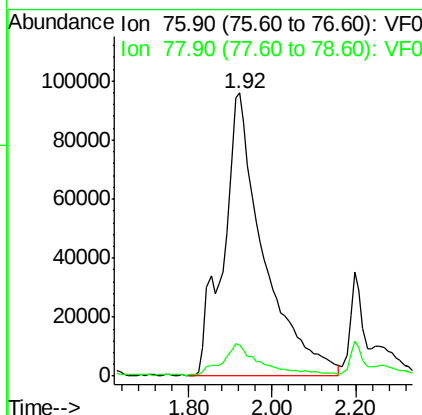
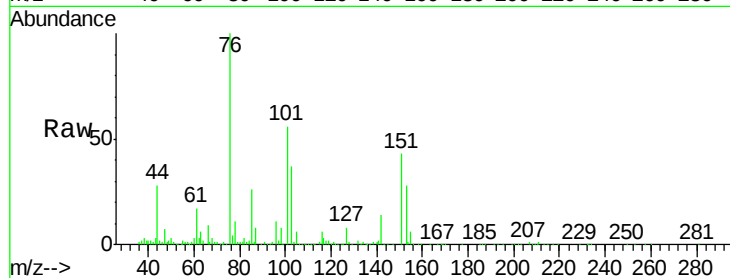
#17
Carbon Disulfide
Concen: 48.148 ug/l m
RT: 1.92 min Scan# 141
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 76 Resp: 643279
Ion Ratio Lower Upper
76 100
78 10.9 8.7 13.1

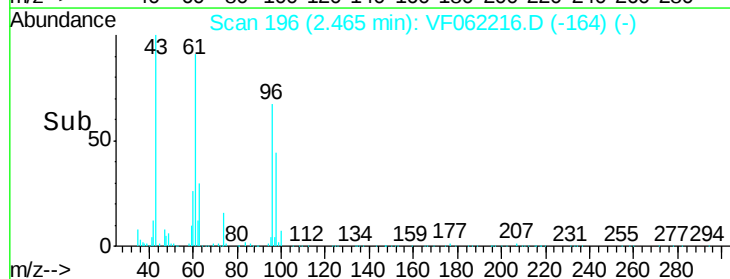
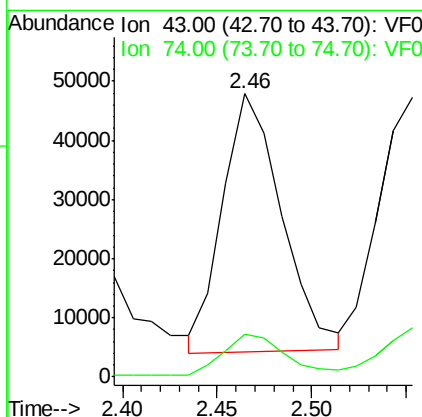
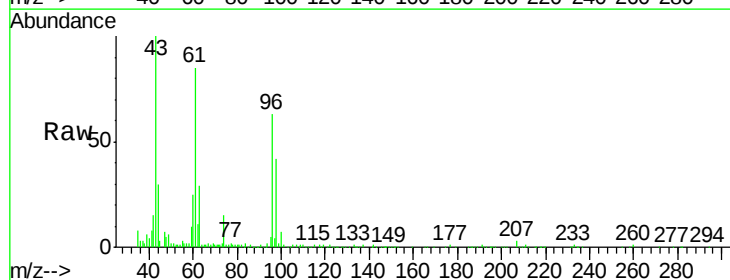
Manual Integrations
APPROVED

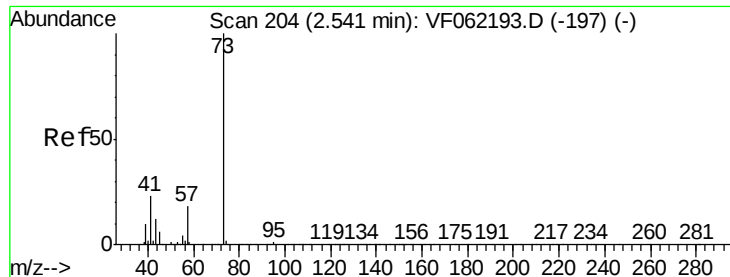
MMDadoda
4/19/2019 10:52:51 AM



#18
Methyl Acetate
Concen: 46.327 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion: 43 Resp: 95281
Ion Ratio Lower Upper
43 100
74 17.6 14.5 21.7





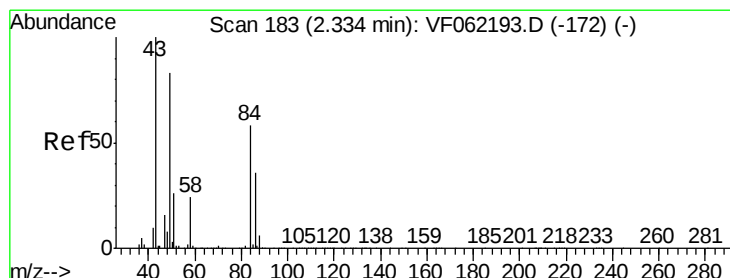
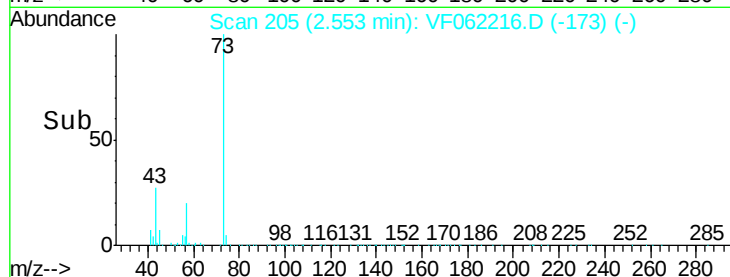
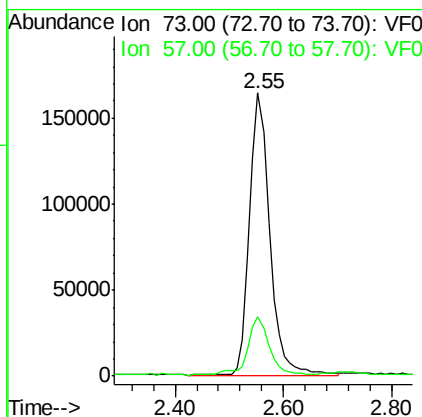
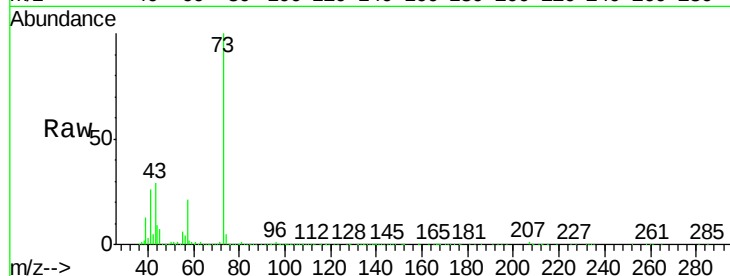
#19
Methvl tert-butvl Ether
Concen: 50.480 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.5	15.1	22.7

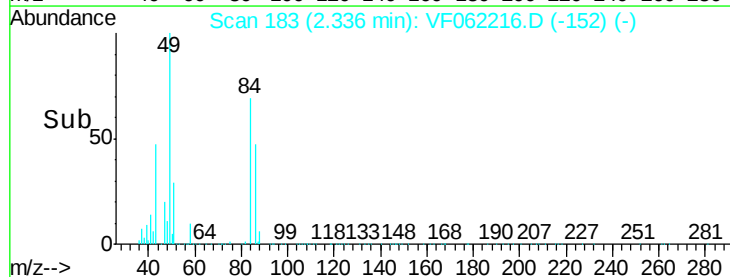
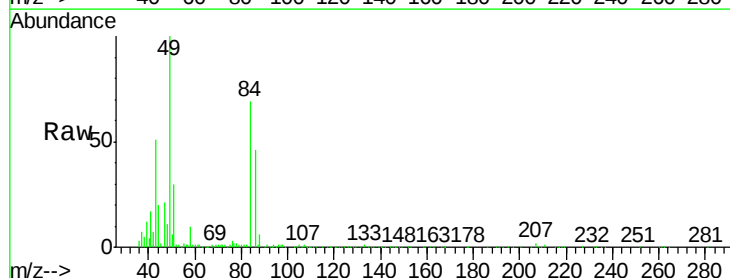
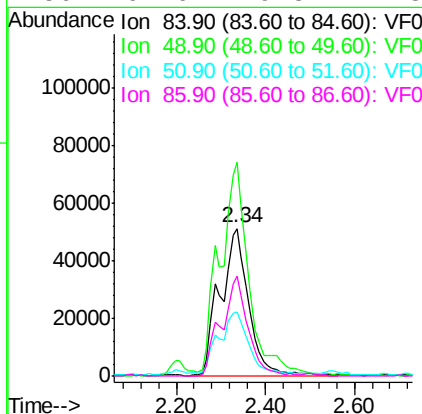
Manual Integrations
APPROVED

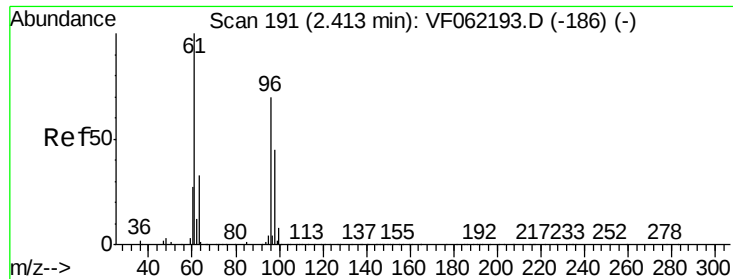
MMDadoda
4/19/2019 10:52:51 AM



#20
Methylene Chloride
Concen: 48.639 ug/l
RT: 2.34 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.0	114.0	171.0
51	41.3	37.0	55.4
86	67.6	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 48.143 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062216.D

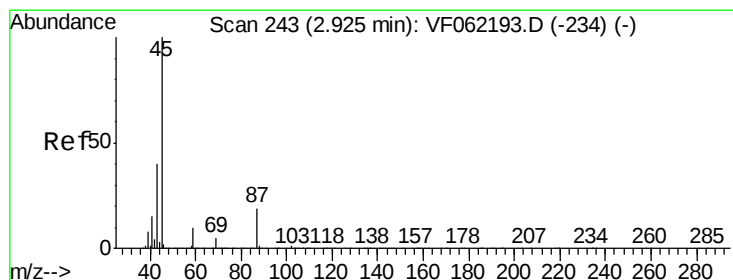
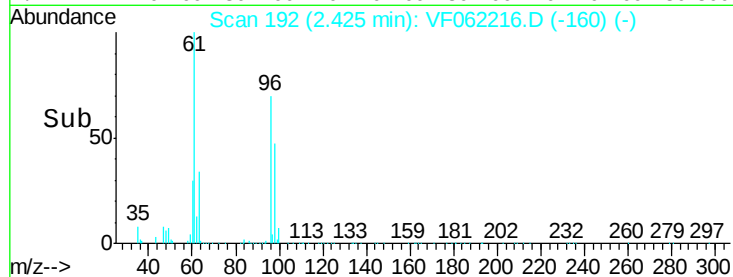
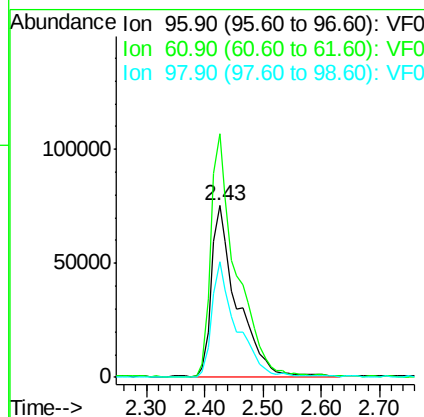
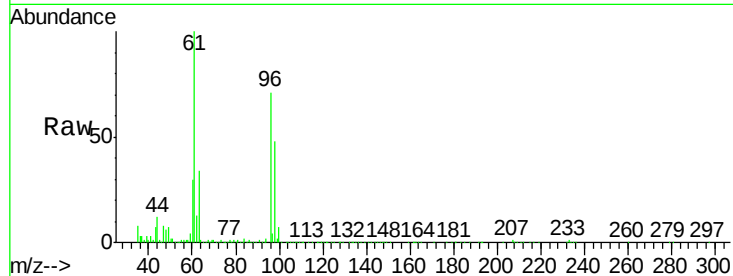
Acq: 18 Apr 2019 21:01

Tot Ion:	96	Resp:	228908
Ion Ratio	Lower	Upper	
96	100		
61	142.1	114.6	172.0
98	67.3	51.2	76.8

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#22

Diisopropyl ether

Concen: 47.835 ug/l

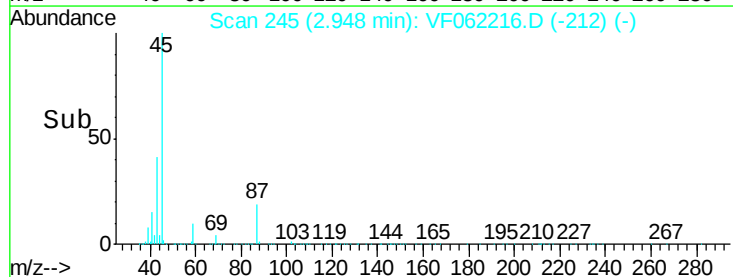
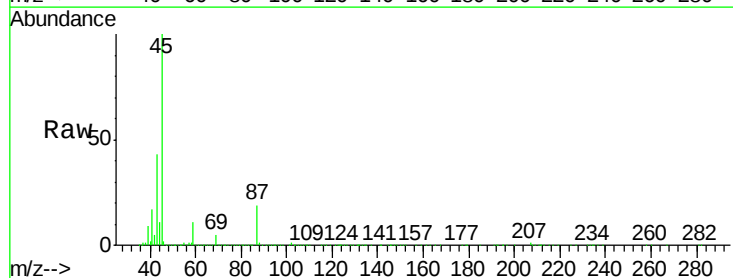
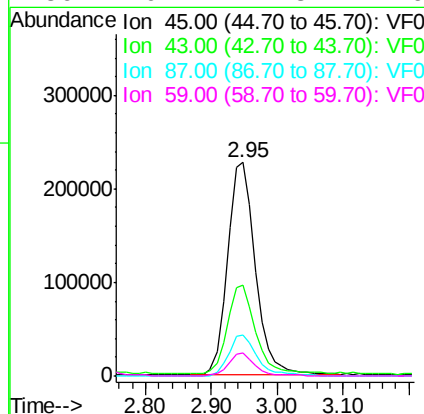
RT: 2.95 min Scan# 245

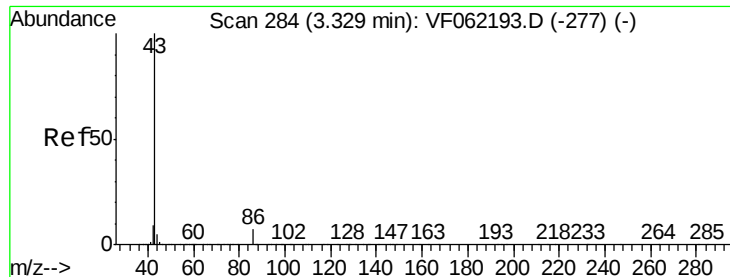
Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	45	Resp:	675175
Ion Ratio	Lower	Upper	
45	100		
43	41.3	32.8	49.2
87	19.0	15.2	22.8
59	10.4	7.8	11.6





#23

Vinyl Acetate

Concen: 246.856 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1660071

Ion Ratio Lower Upper

43 100

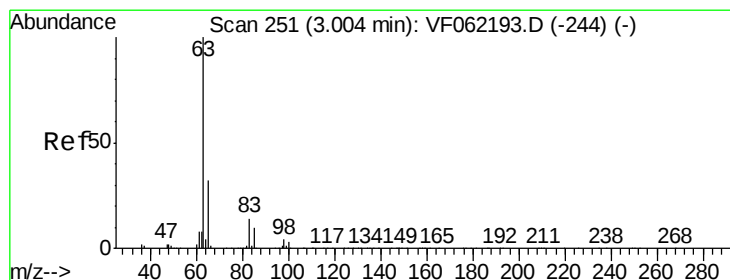
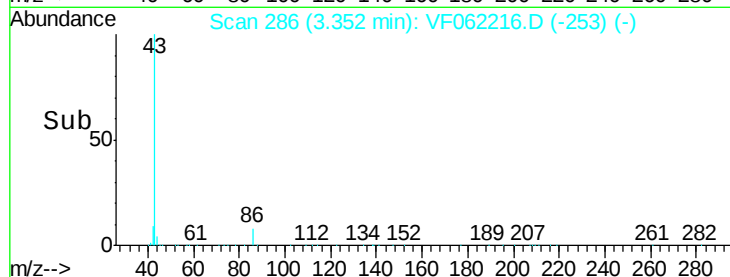
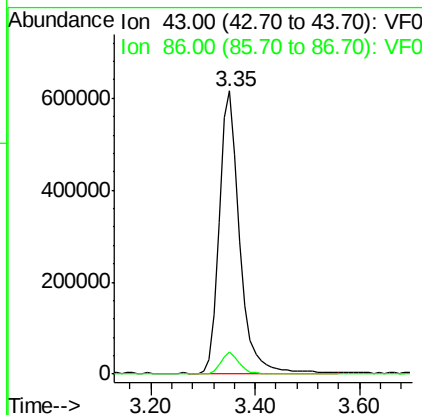
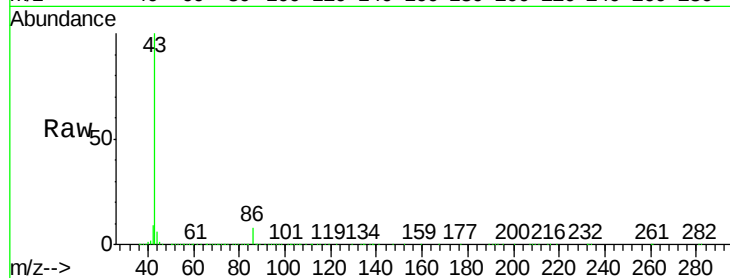
86 7.7 5.9 8.9

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:51 AM



#24

1,1-Dichloroethane

Concen: 48.746 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

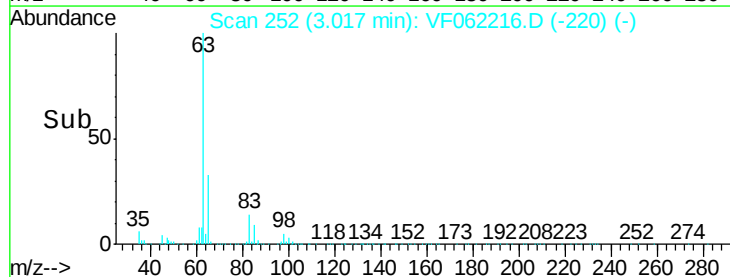
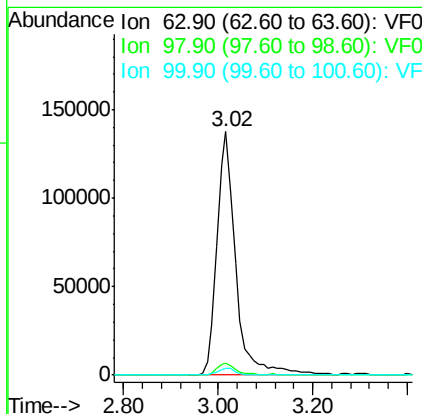
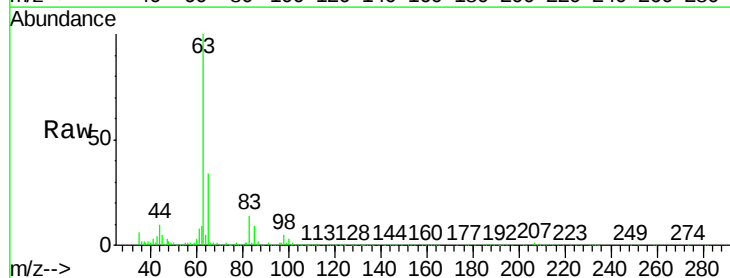
Tgt Ion: 63 Resp: 376373

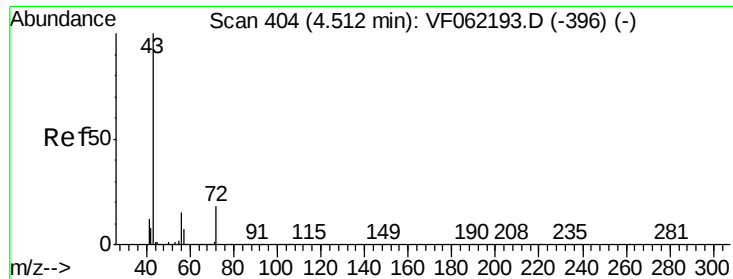
Ion Ratio Lower Upper

63 100

98 4.7 2.3 6.8

100 3.0 1.7 5.0





#25

2-Butanone

Concen: 237.977 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 450145

Ion Ratio Lower Upper

43 100

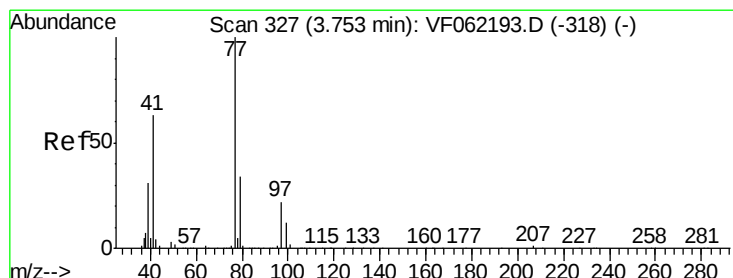
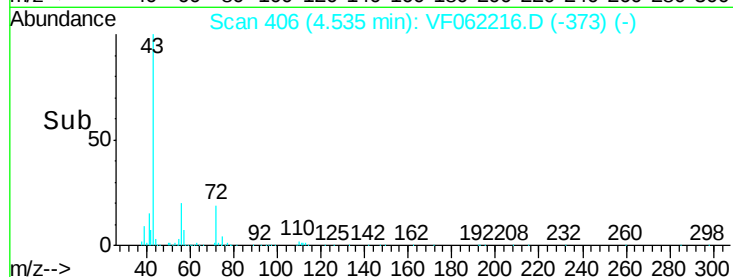
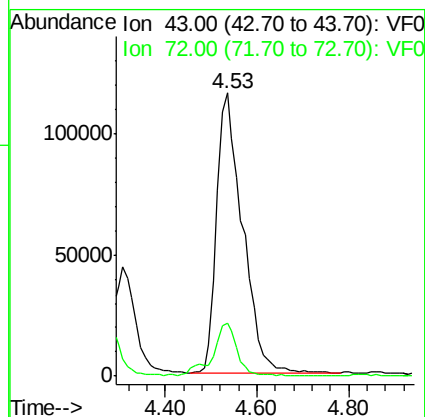
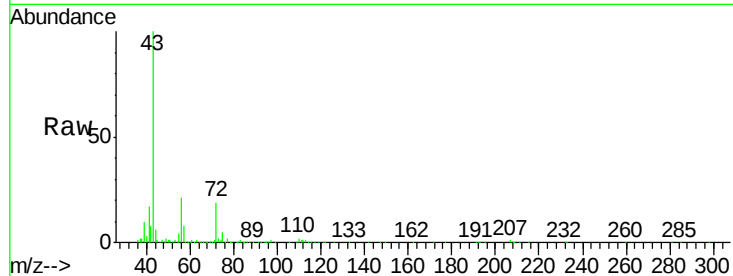
72 18.9 16.1 24.1

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:51 AM



#26

2,2-Dichloropropane

Concen: 44.561 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.02 min

Lab File: VF062216.D

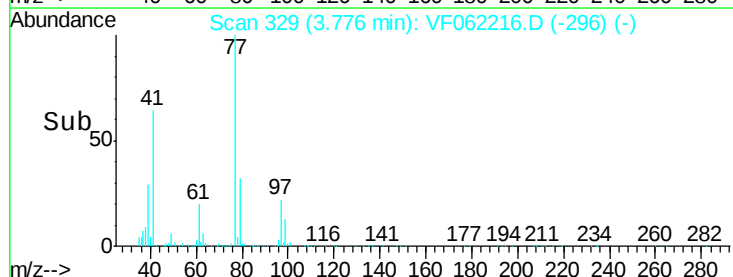
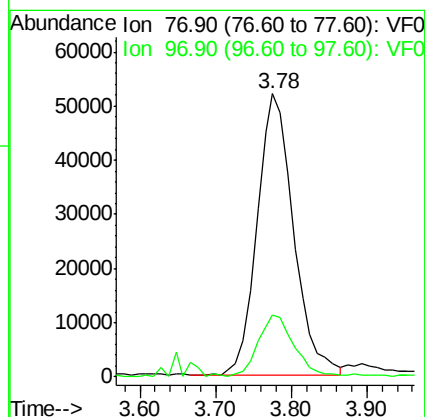
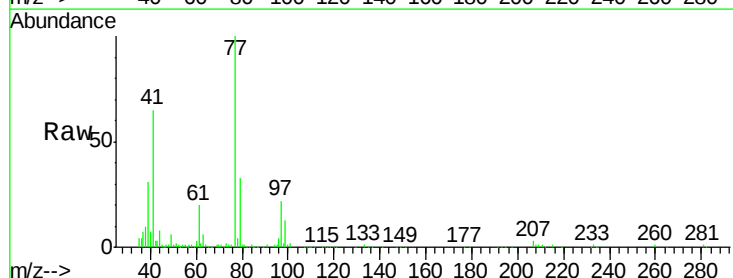
Acq: 18 Apr 2019 21:01

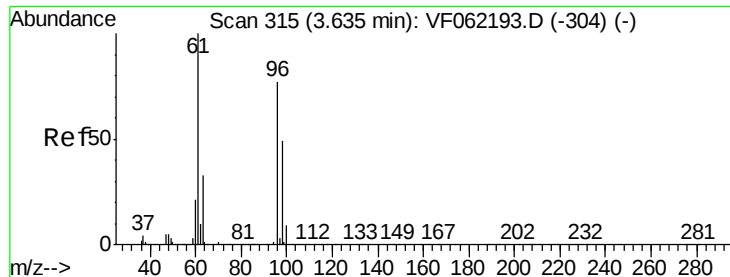
Tgt Ion: 77 Resp: 173709

Ion Ratio Lower Upper

77 100

97 21.9 11.1 33.3





#27

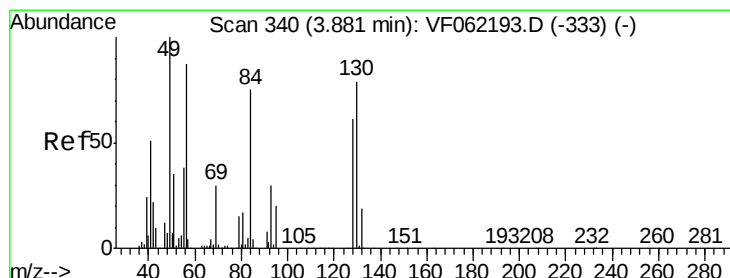
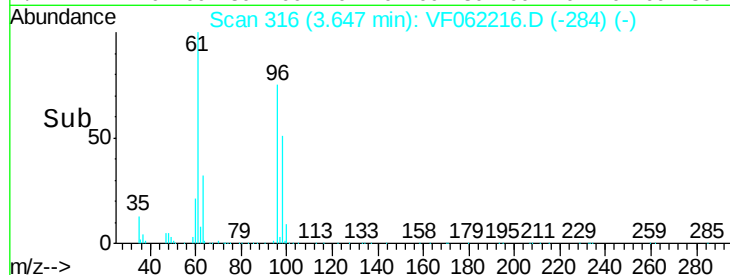
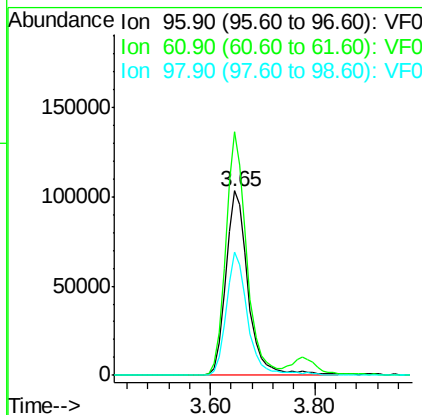
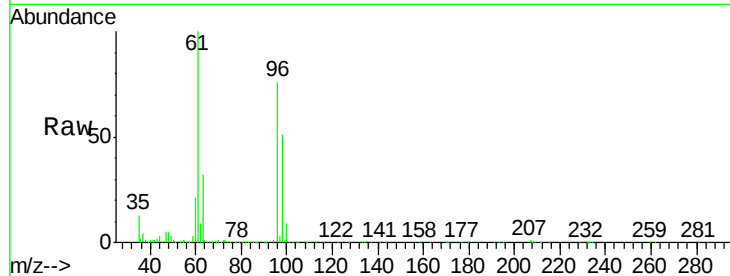
cis-1,2-Dichloroethene
Concen: 48.607 ug/l
RT: 3.65 min Scan# 316
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	299288		
61	123.7		0.0	253.6
98	63.4		0.0	124.8

Manual Integrations
APPROVED

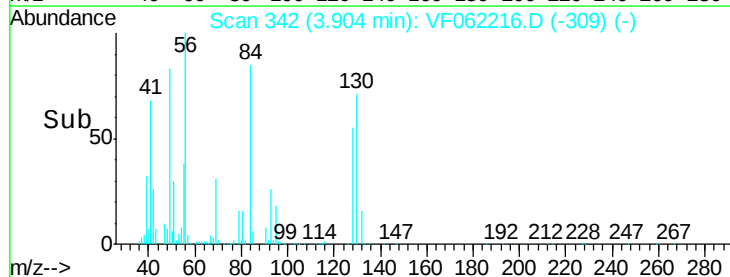
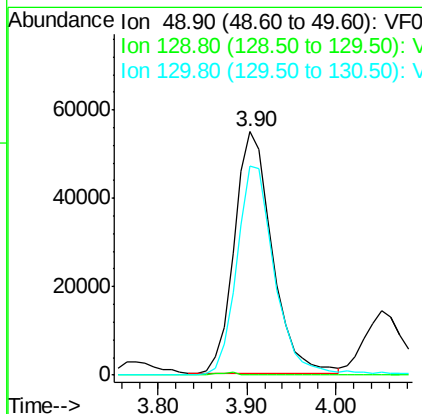
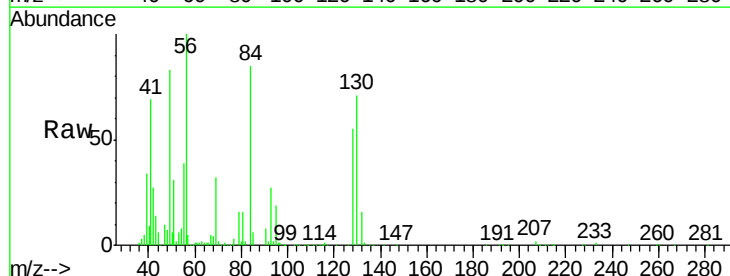
MMDadoda
4/19/2019 10:52:51 AM



#28

Bromochloromethane
Concen: 43.943 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	162529		
129	0.6		0.0	0.0#
130	86.8		66.6	100.0





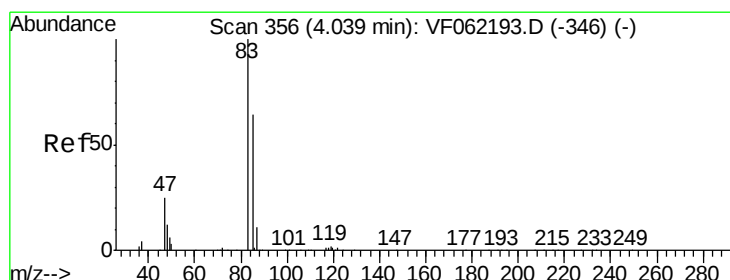
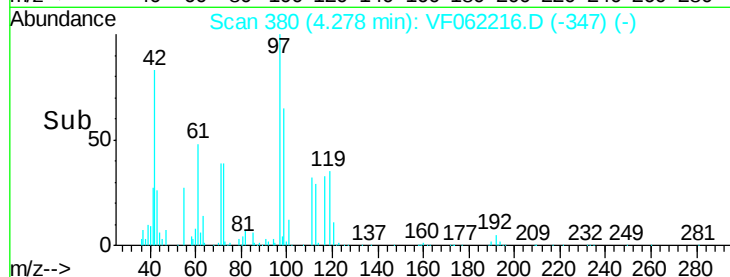
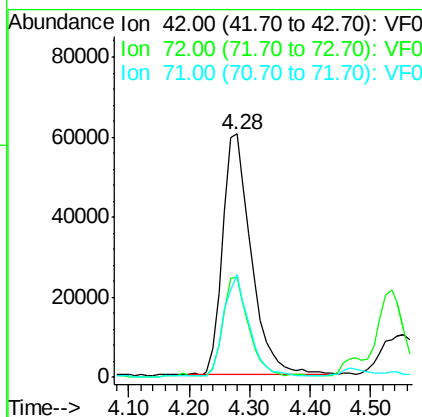
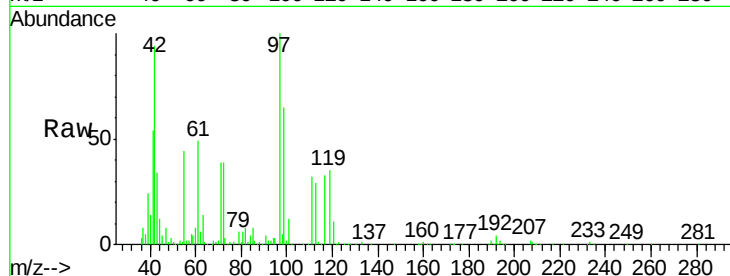
#29
Tetrahydrofuran
Concen: 229.123 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	28.6	43.0
71	37.5	29.2	43.8

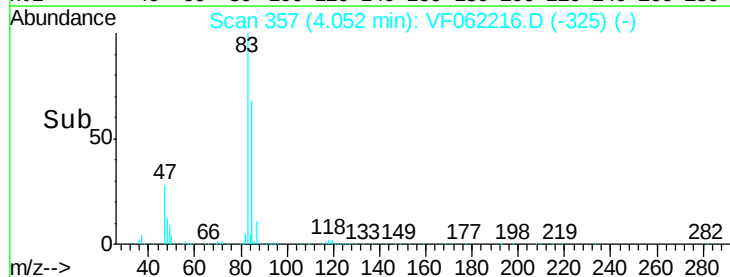
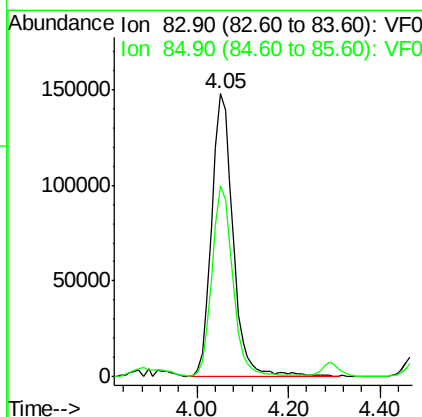
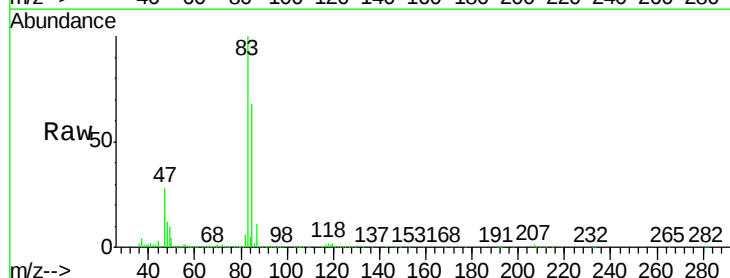
Manual Integrations
APPROVED

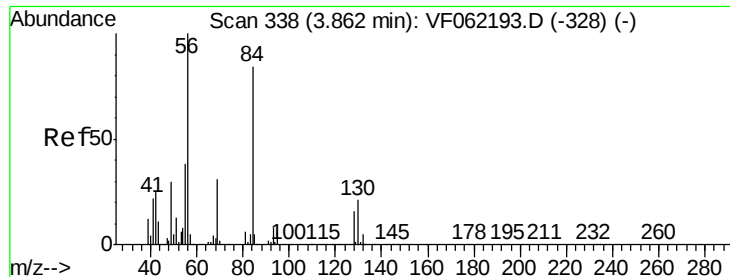
MMDadoda
4/19/2019 10:52:51 AM



#30
Chloroform
Concen: 50.100 ug/l
RT: 4.05 min Scan# 357
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.8	77.8





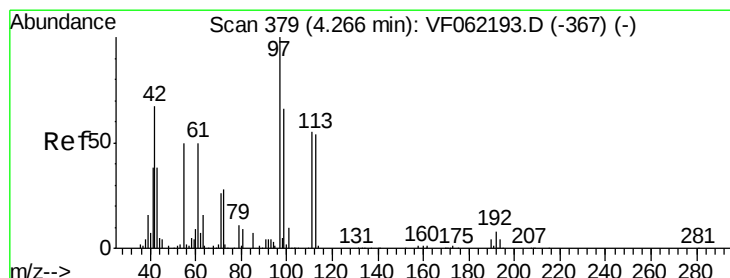
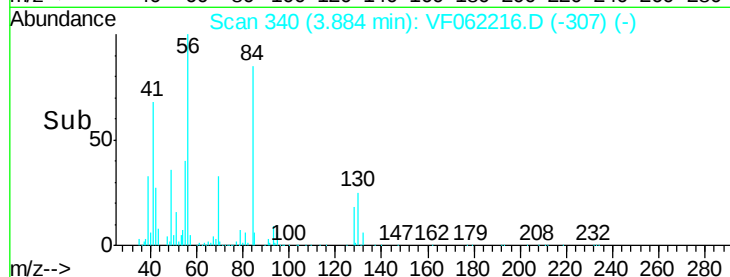
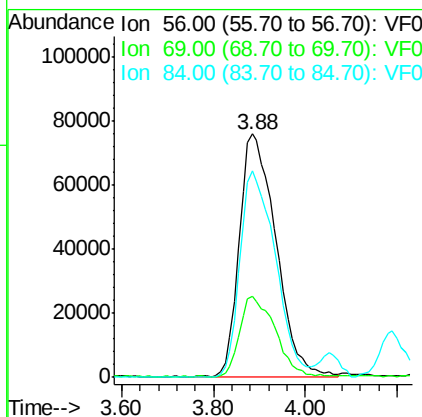
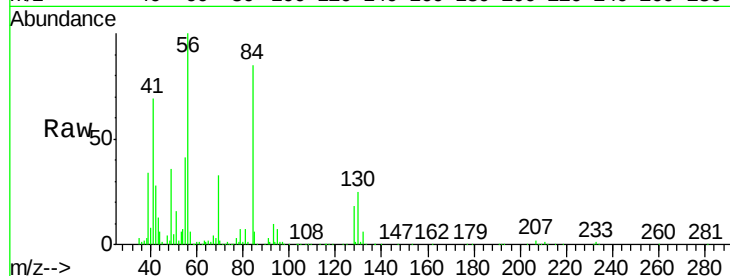
#31
Cyclohexane
Concen: 45.431 ug/l
RT: 3.88 min Scan# 340
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.1	37.7
84	84.6	67.8	101.6

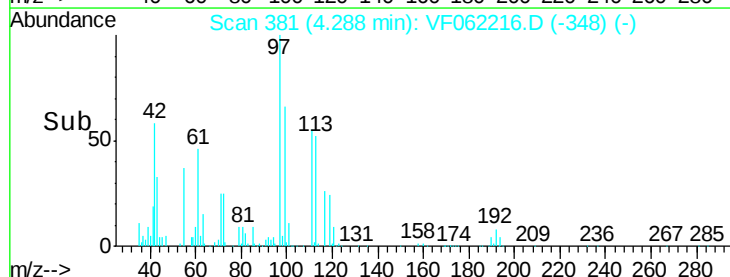
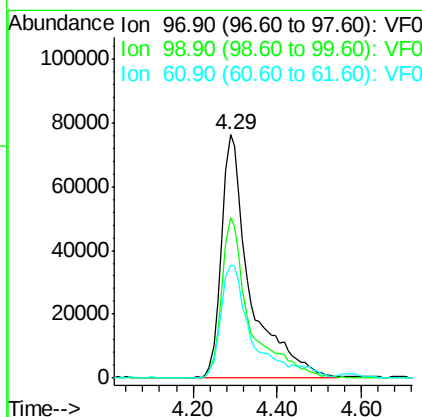
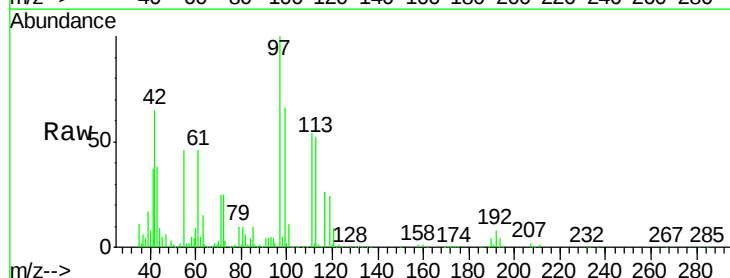
Manual Integrations
APPROVED

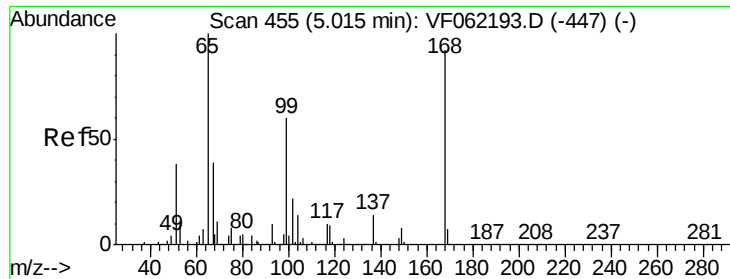
MMDadoda
4/19/2019 10:52:51 AM



#32
1,1,1-Trichloroethane
Concen: 52.140 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.7	79.1
61	51.2	53.0	79.4#





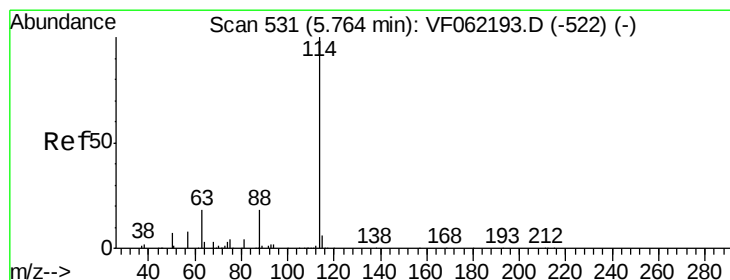
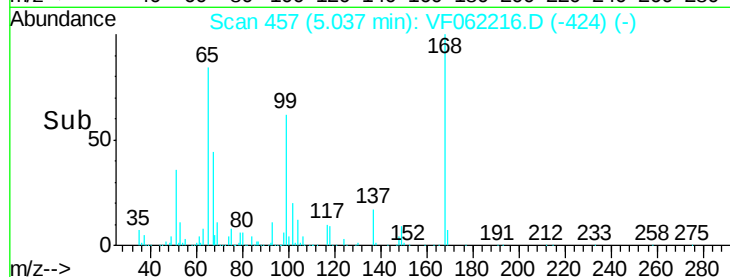
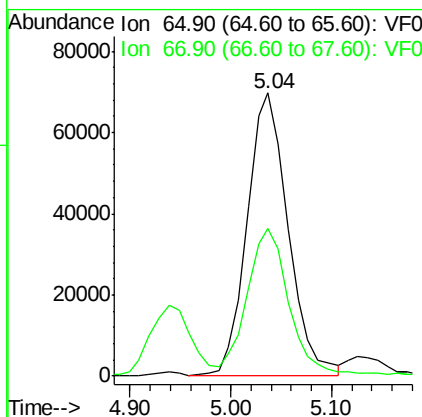
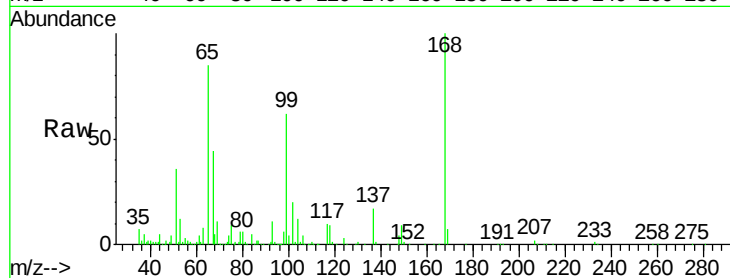
#33
 1,2-Dichloroethane-d4
 Concen: 50.036 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.02 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	198028		
67	51.6	0.0	109.4	

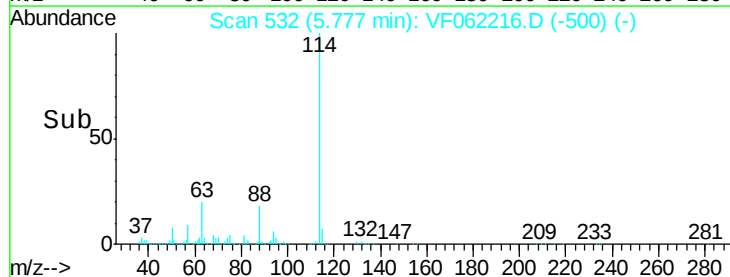
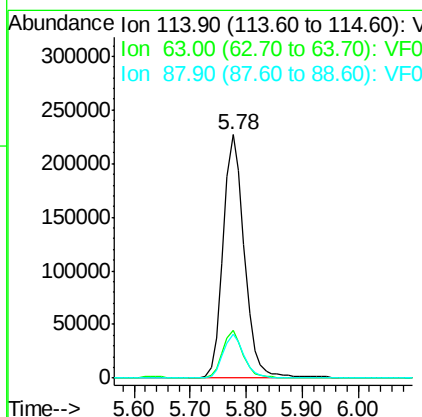
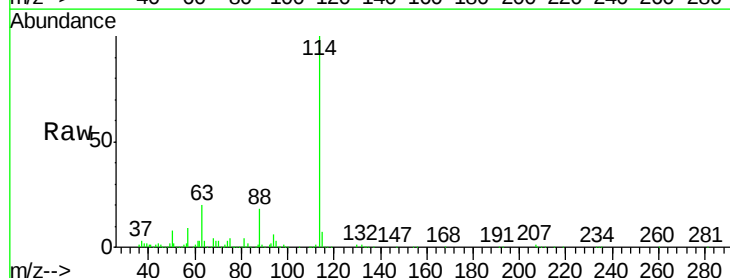
Manual Integrations
 APPROVED

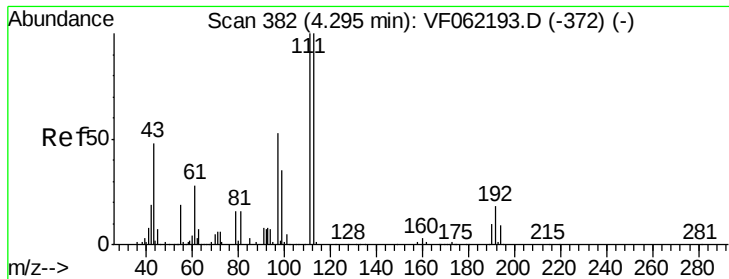
MMDadoda
 4/19/2019 10:52:51 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	600278		
63	19.6	0.0	36.6	
88	18.0	0.0	35.8	





#35

Dibromofluoromethane

Concen: 47.490 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

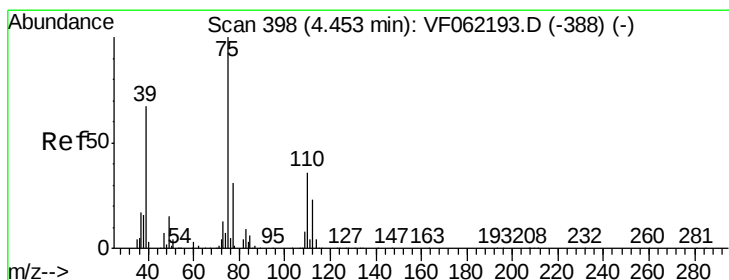
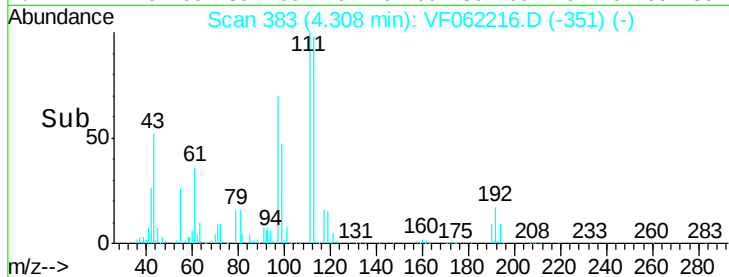
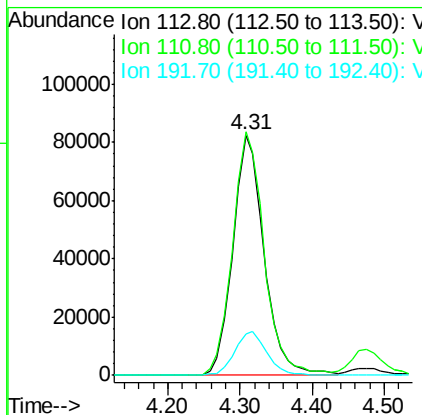
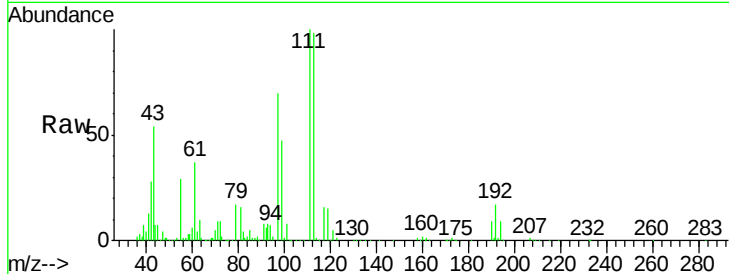
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	249361
Ion Ratio	Lower	Upper	
113	100		
111	103.1	81.1	121.7
192	19.3	14.7	22.1

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#36

1,1-Dichloropropene

Concen: 52.023 ug/l

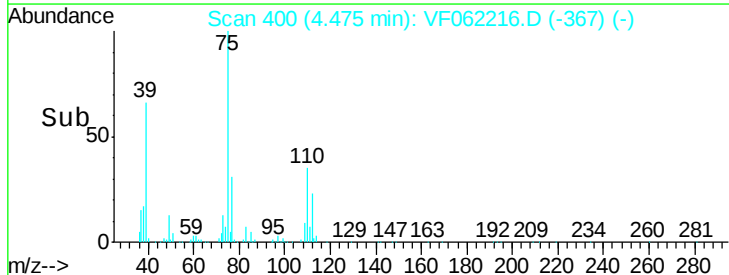
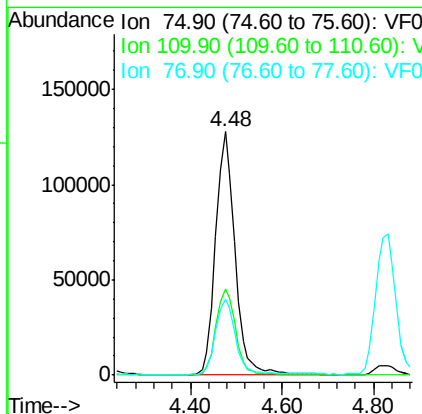
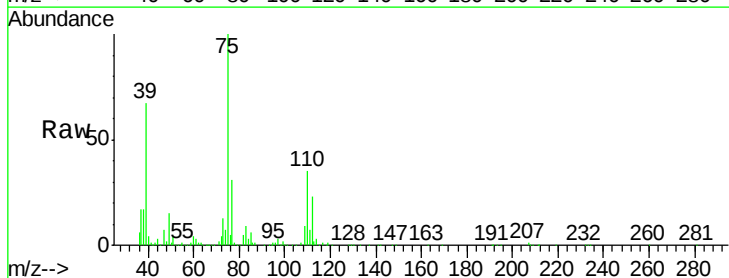
RT: 4.48 min Scan# 400

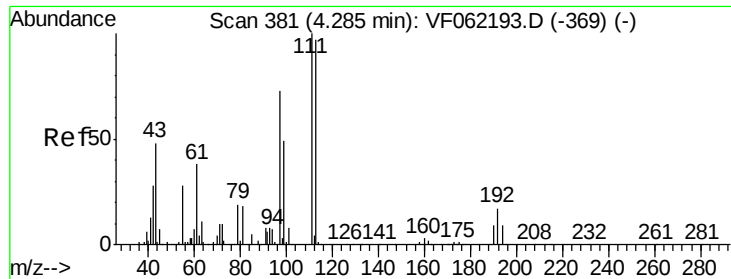
Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	75	Resp:	374408
Ion Ratio	Lower	Upper	
75	100		
110	36.0	18.4	55.2
77	32.1	25.4	38.2





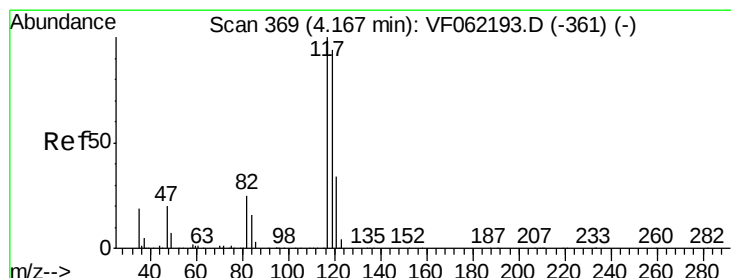
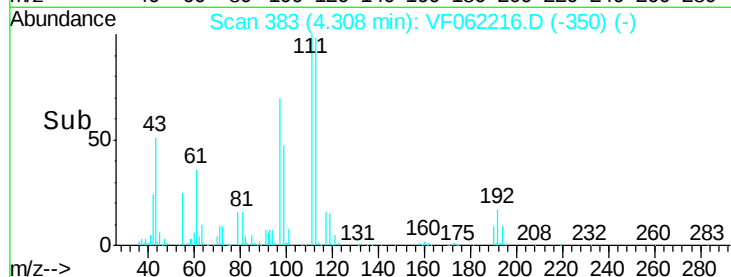
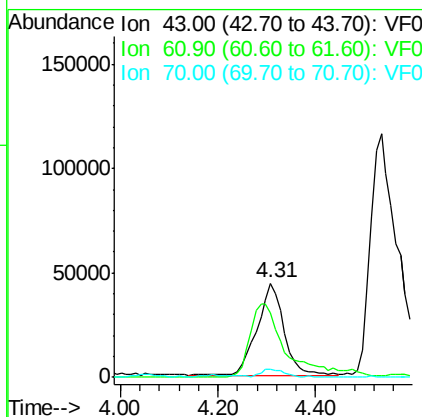
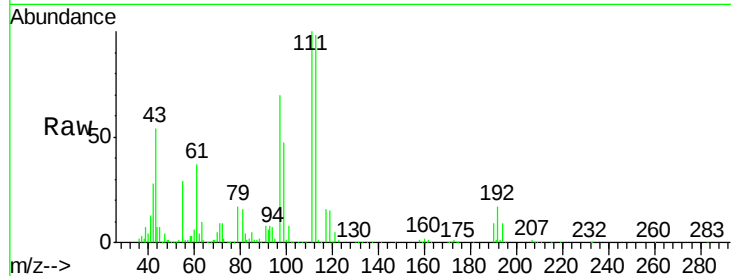
#37
Ethyl Acetate
Concen: 49.155 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	111.1	0.0	0.0#	
70	8.2	7.8	11.6	

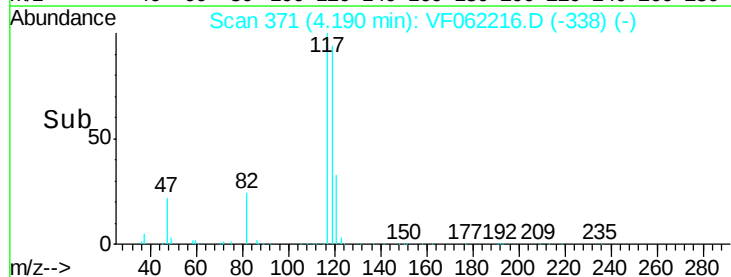
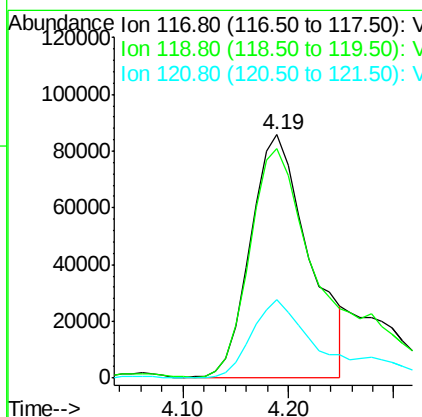
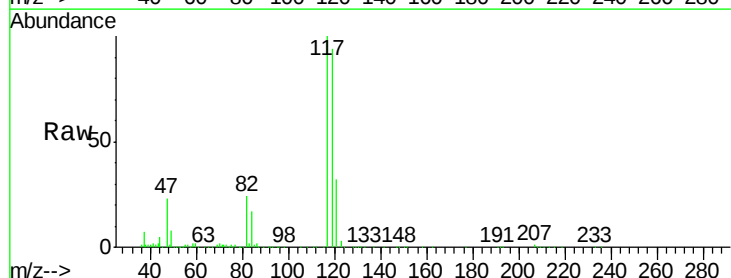
Manual Integrations
APPROVED

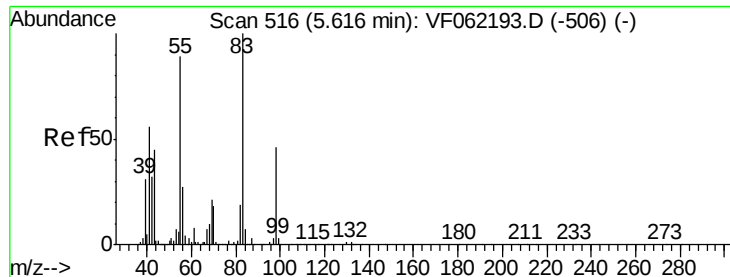
MMDadoda
4/19/2019 10:52:51 AM



#38
Carbon Tetrachloride
Concen: 51.776 ug/l m
RT: 4.19 min Scan# 371
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	94.3	75.0	112.4	
121	32.5	26.9	40.3	





#39

Methvlcvclohexane

Concen: 49.797 ug/l

RT: 5.63 min Scan# 517

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

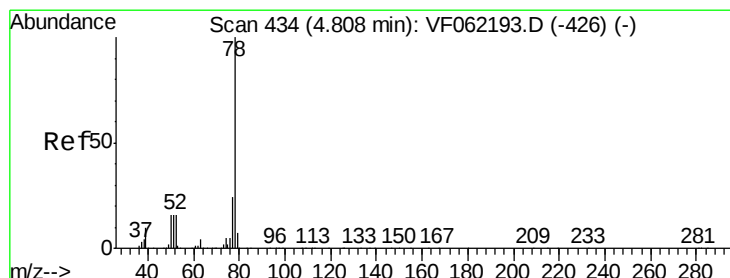
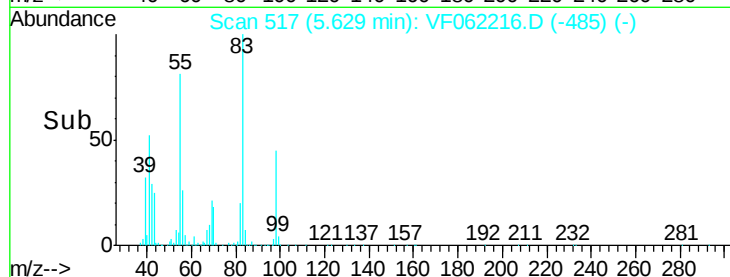
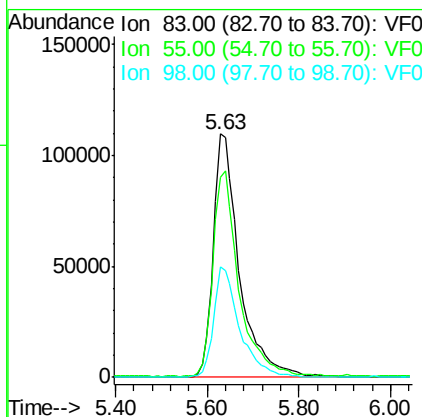
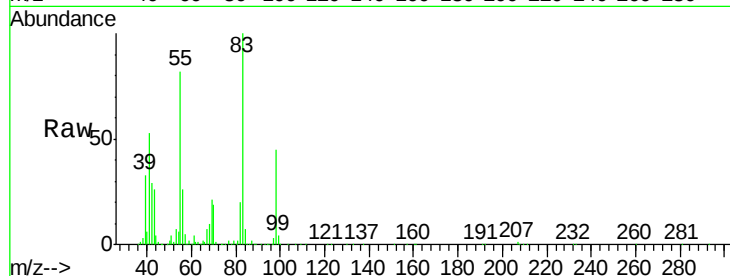
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	429104
Ion	Ratio	Lower	Upper
83	100		
55	81.6	71.0	106.6
98	45.4	36.7	55.1

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#40

Benzene

Concen: 49.566 ug/l

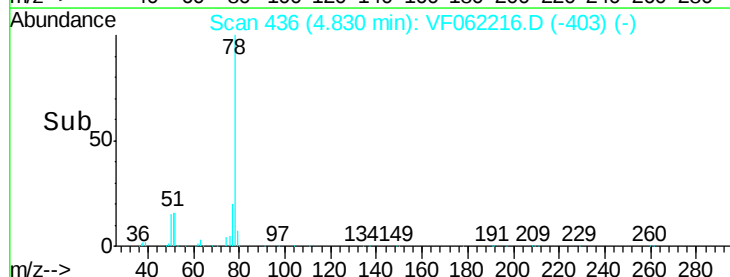
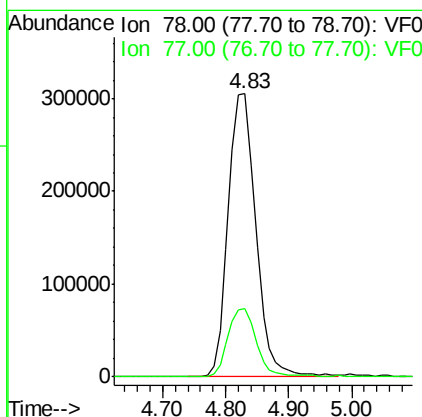
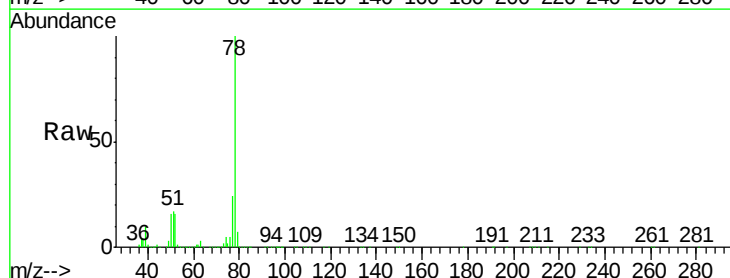
RT: 4.83 min Scan# 436

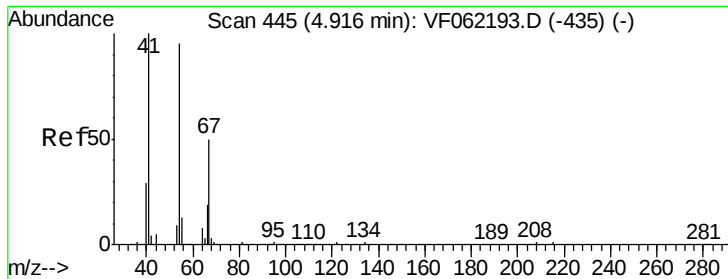
Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	78	Resp:	935671
Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.9	28.3





#41

Methacrylonitrile

Concen: 45.931 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 41 Resp: 89977
Ion Ratio Lower Upper

41 100

39 59.4 44.7 67.1

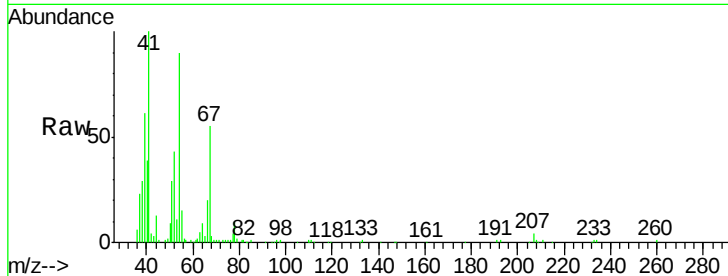
67 55.0 39.1 58.7

52 61.1 49.8 74.8

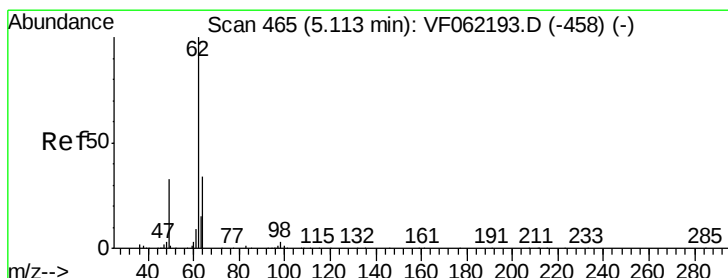
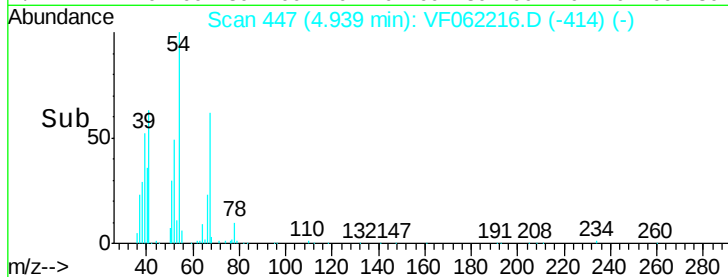
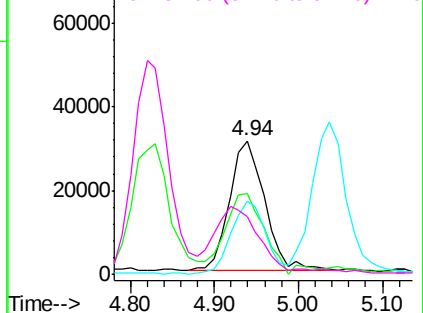
Manual Integrations
APPROVED

MMDadoda

4/19/2019 10:52:51 AM



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 52.460 ug/l

RT: 5.14 min Scan# 467

Delta R.T. 0.02 min

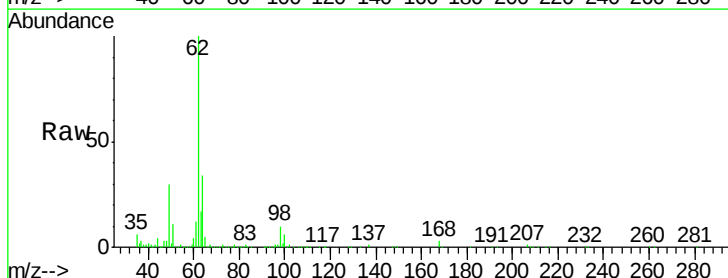
Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

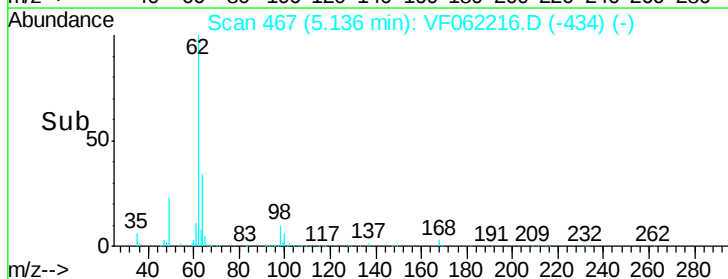
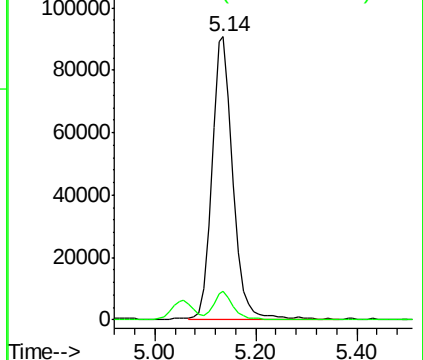
Tgt Ion: 62 Resp: 261800
Ion Ratio Lower Upper

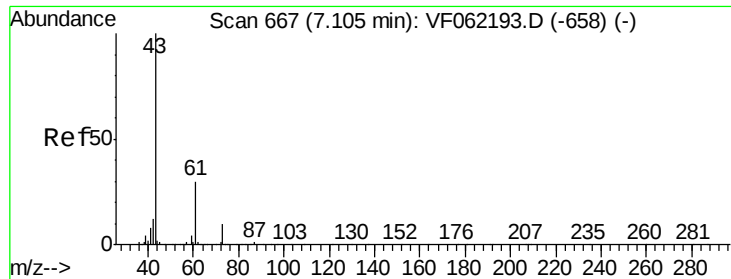
62 100

98 9.2 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VF0
Ion 97.90 (97.60 to 98.60): VF0





#43

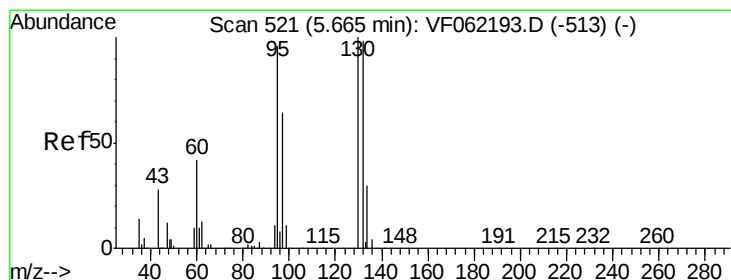
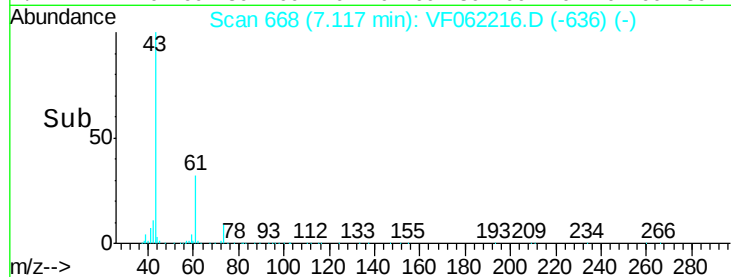
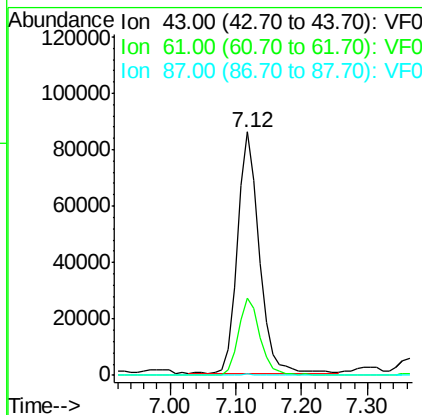
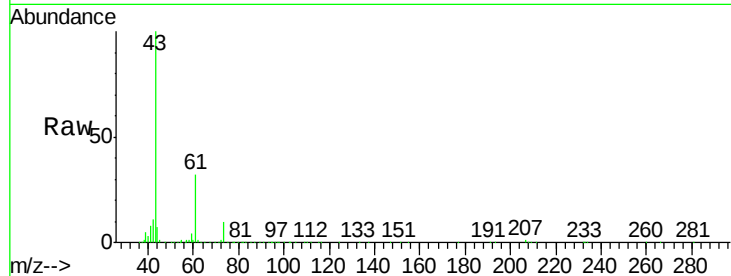
Isopropyl Acetate
 Concen: 55.404 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.0	24.4	36.6
87	0.6	0.4	0.6

Manual Integrations
 APPROVED

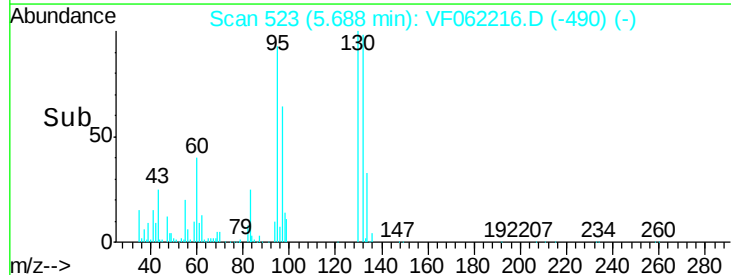
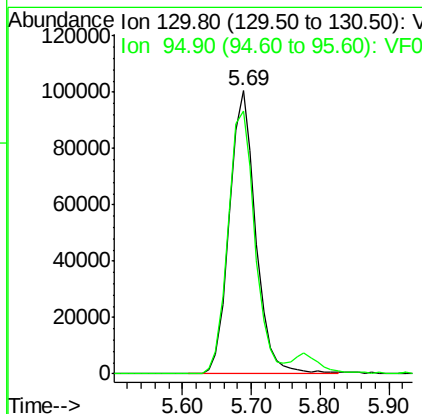
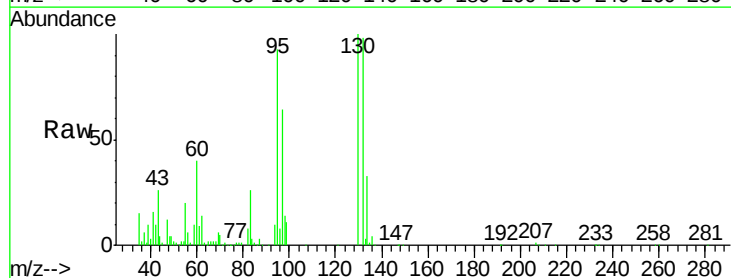
MMDadoda
 4/19/2019 10:52:51 AM

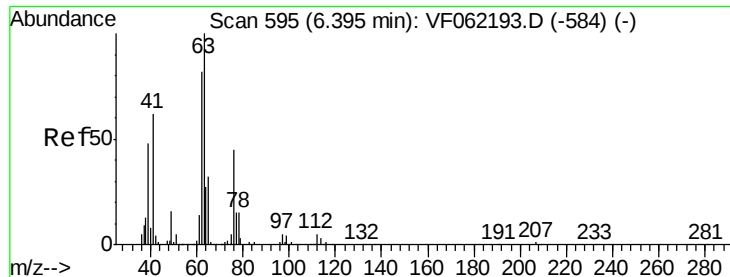


#44

Trichloroethene
 Concen: 52.094 ug/l
 RT: 5.69 min Scan# 523
 Delta R.T. 0.02 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.7	0.0	191.4





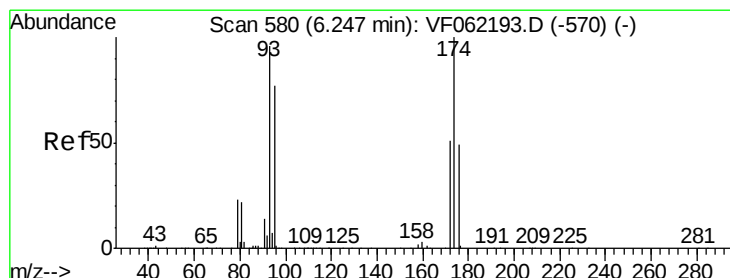
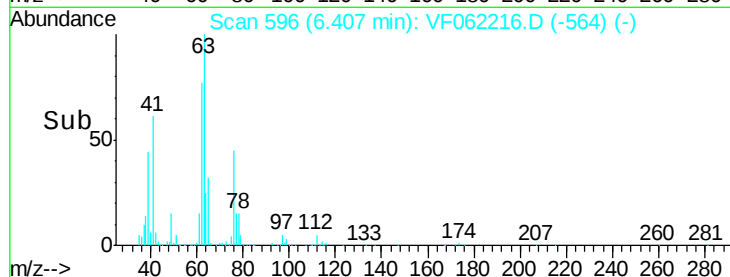
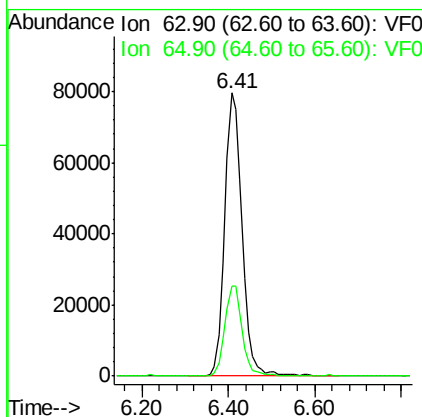
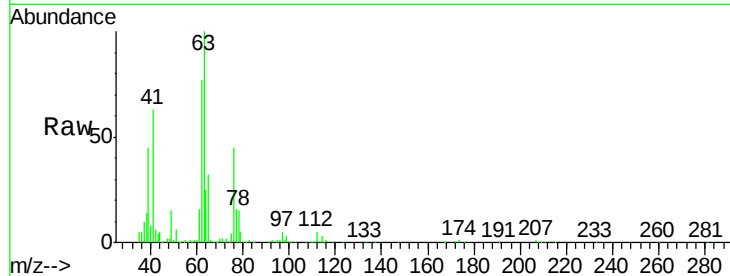
#45
 1,2-Dichloropropane
 Concen: 53.613 ug/l
 RT: 6.41 min Scan# 596
 Delta R.T. 0.01 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.9	38.9

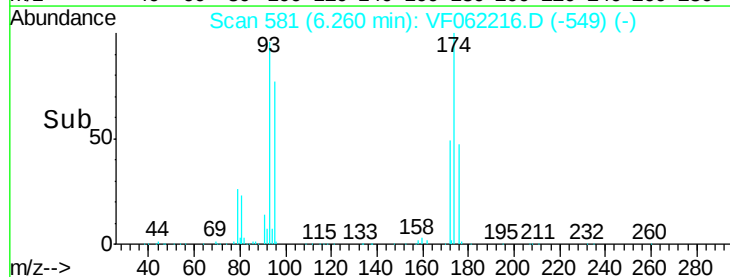
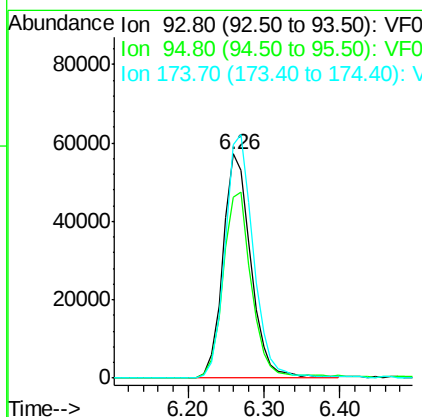
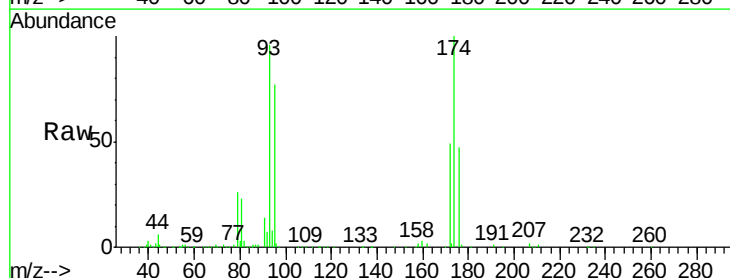
Manual Integrations
 APPROVED

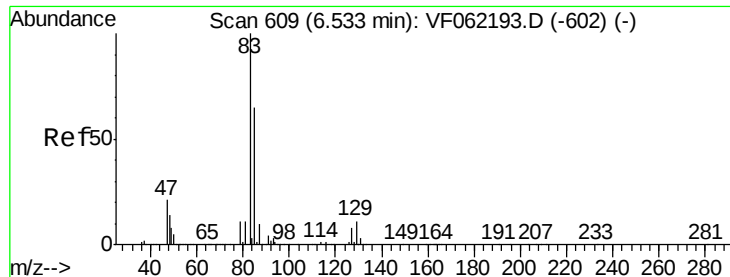
MMDadoda
 4/19/2019 10:52:51 AM



#46
 Dibromomethane
 Concen: 52.913 ug/l
 RT: 6.26 min Scan# 581
 Delta R.T. 0.01 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.1	97.7
174	110.4	81.8	122.6





#47

Bromodichloromethane

Concen: 52.537 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

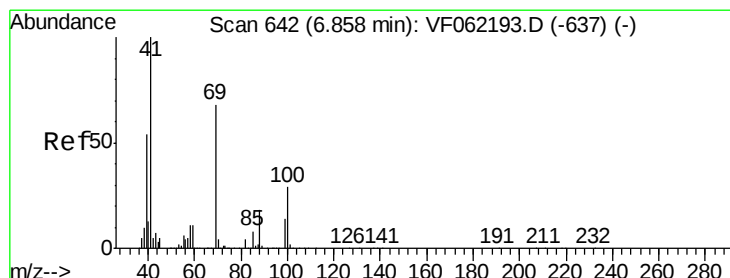
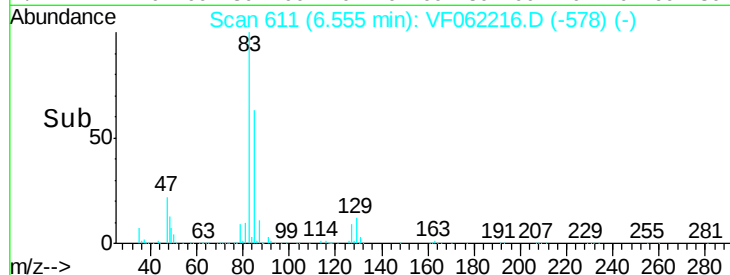
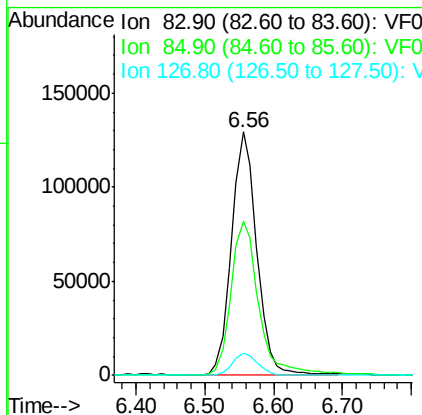
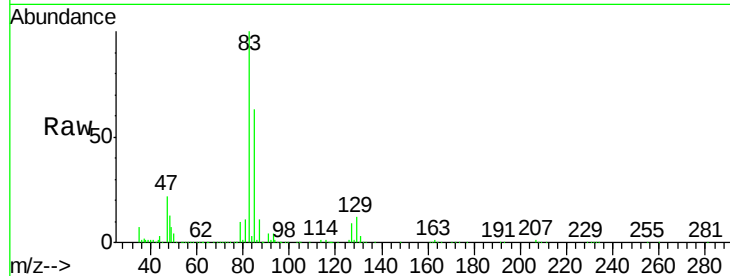
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	327991
Ion Ratio	Lower	Upper	
83	100		
85	63.4	52.2	78.4
127	9.3	6.7	10.1

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#48

Methyl methacrylate

Concen: 52.640 ug/l

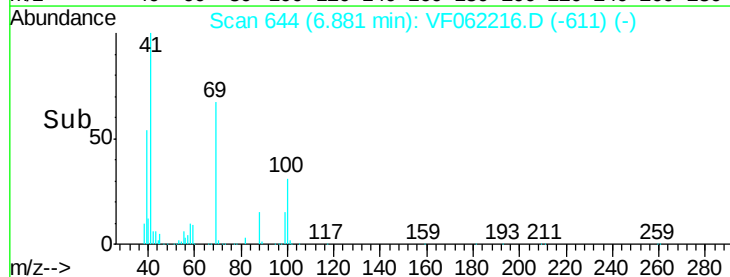
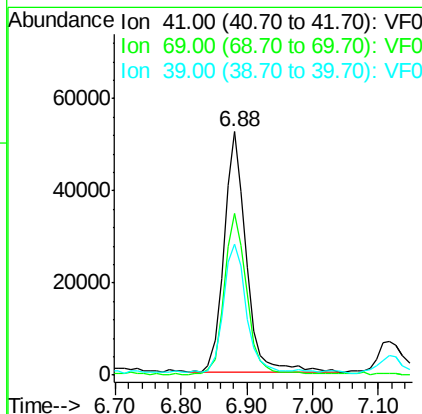
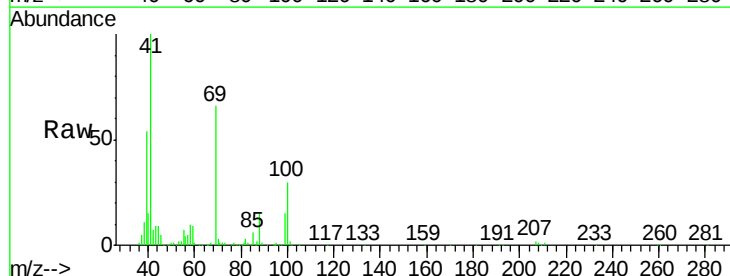
RT: 6.88 min Scan# 644

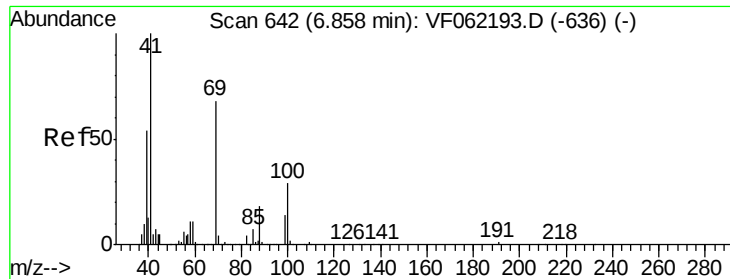
Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	41	Resp:	123568
Ion Ratio	Lower	Upper	
41	100		
69	66.9	54.9	82.3
39	54.1	43.6	65.4





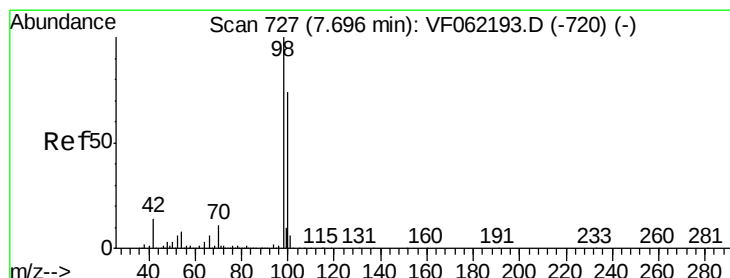
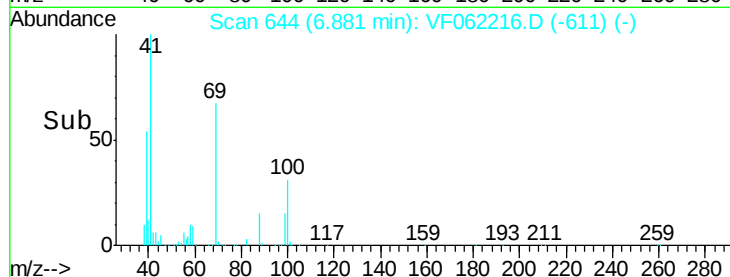
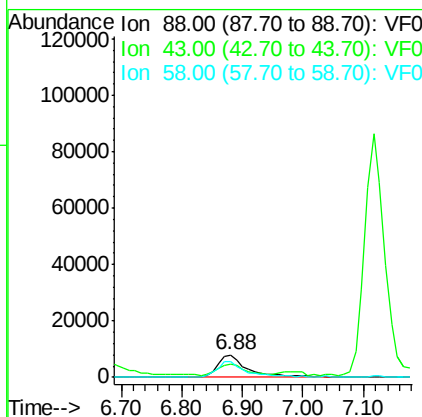
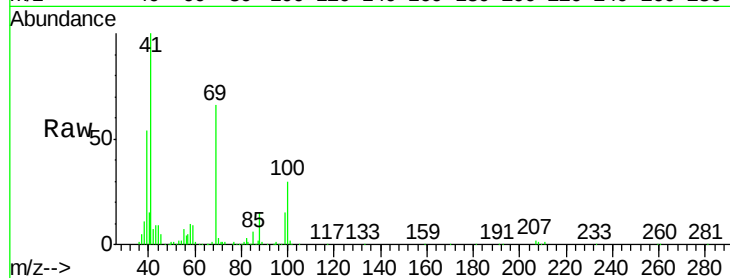
#49
1,4-Dioxane
Concen: 1021.435 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
88	100	27498		
43	46.6		36.9	55.3
58	70.2		56.8	85.2

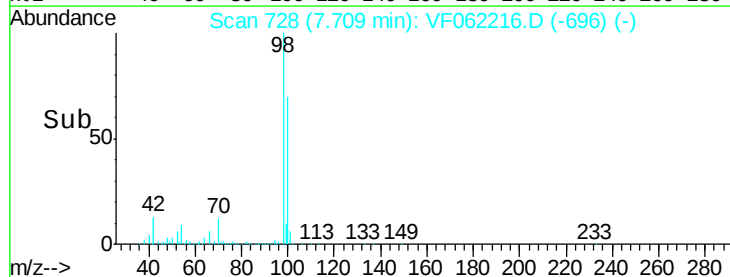
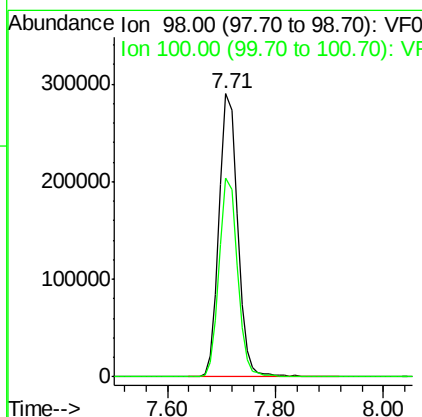
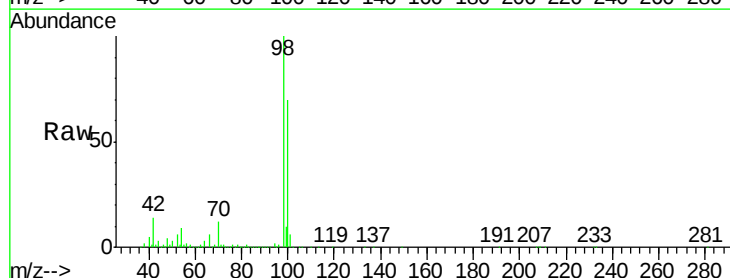
Manual Integrations
APPROVED

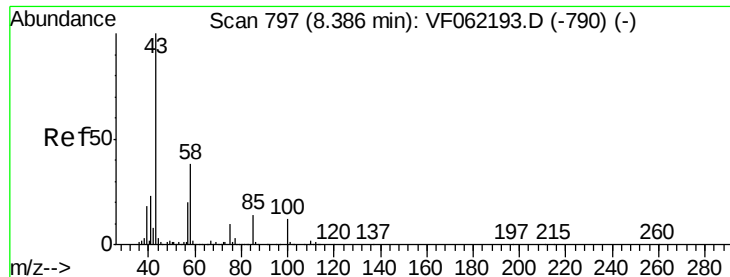
MMDadoda
4/19/2019 10:52:51 AM



#50
Toluene-d8
Concen: 52.279 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	694884		
100	69.2		56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 256.650 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 681844

Ion Ratio Lower Upper

43 100

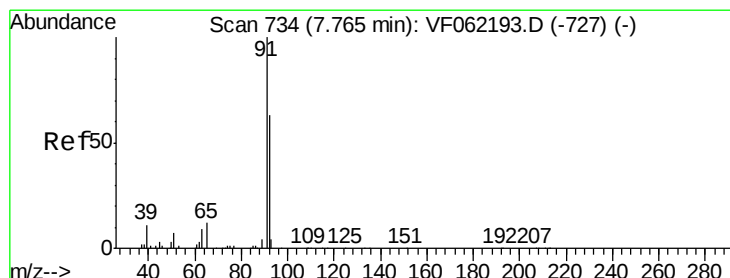
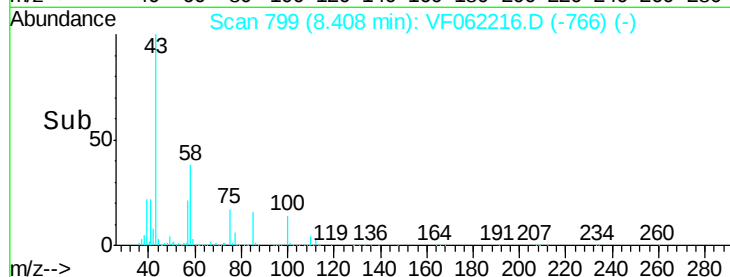
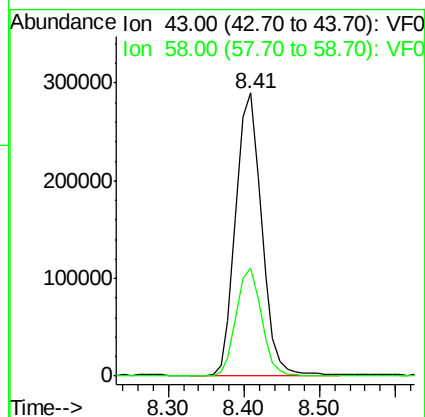
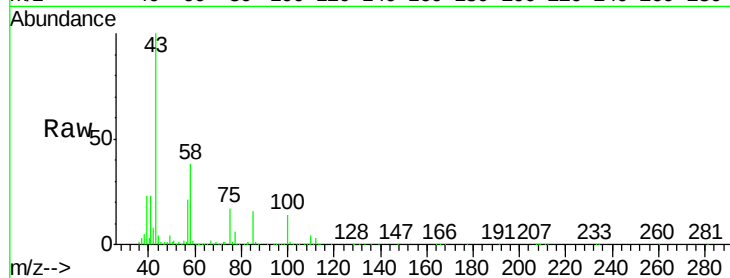
58 37.8 29.3 43.9

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:51 AM



#52

Toluene

Concen: 53.846 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF062216.D

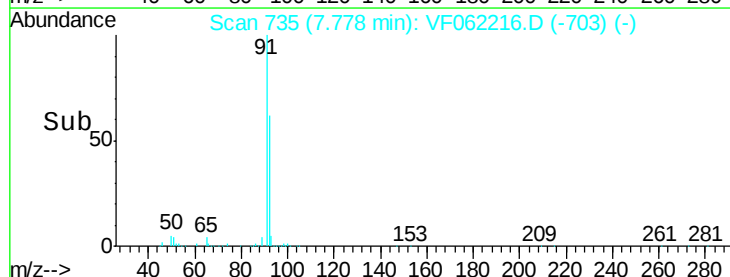
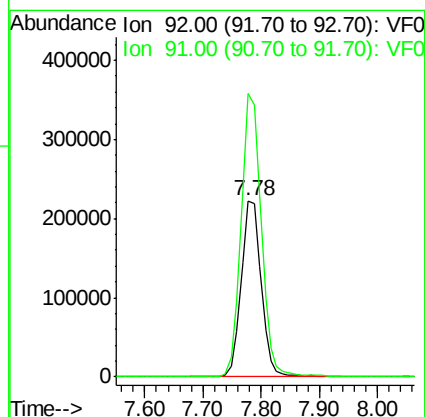
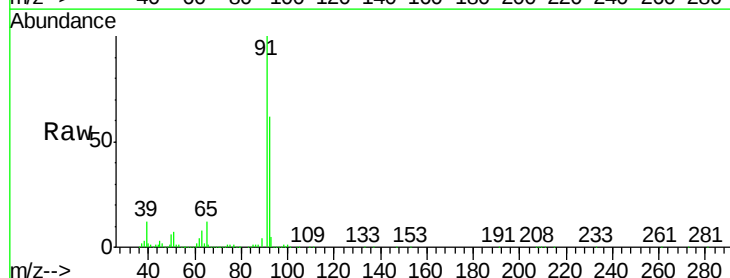
Acq: 18 Apr 2019 21:01

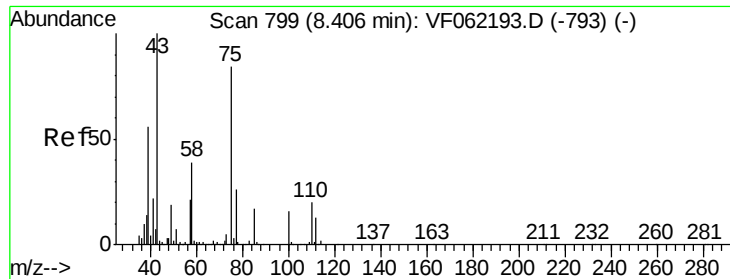
Tgt Ion: 92 Resp: 535803

Ion Ratio Lower Upper

92 100

91 163.1 130.1 195.1





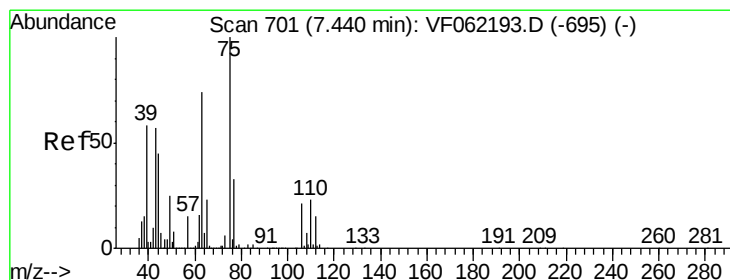
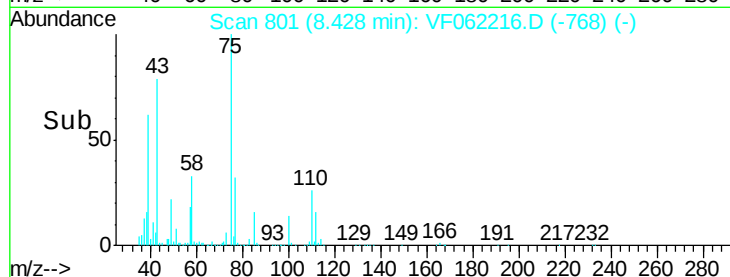
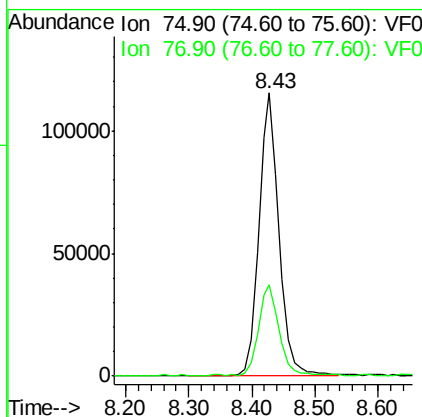
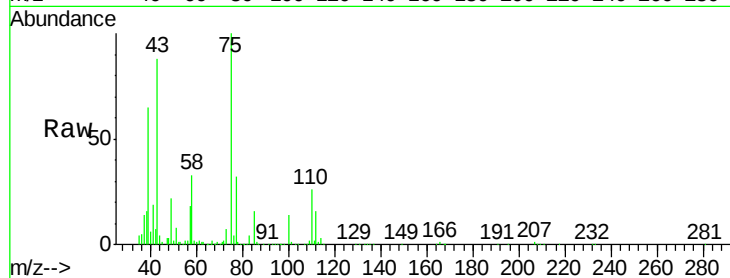
#53
 t-1,3-Dichloropropene
 Concen: 54.898 ug/l
 RT: 8.43 min Scan# 801
 Delta R.T. 0.02 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.6	36.8

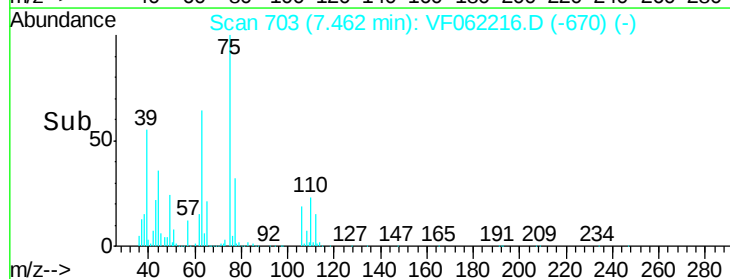
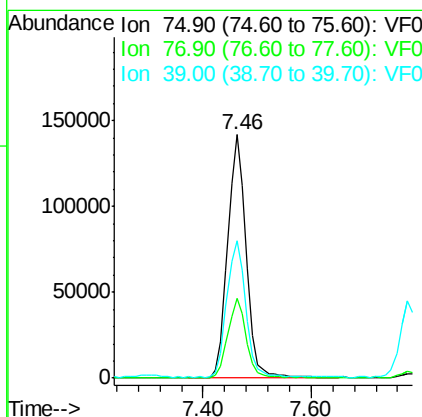
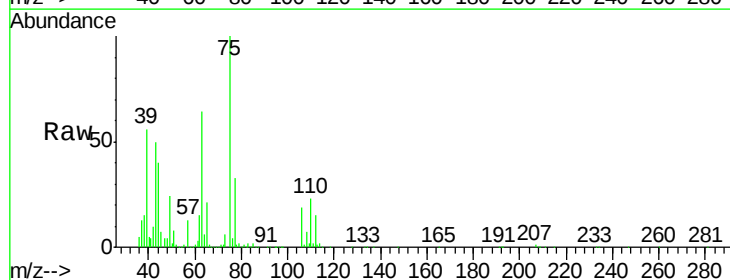
Manual Integrations
 APPROVED

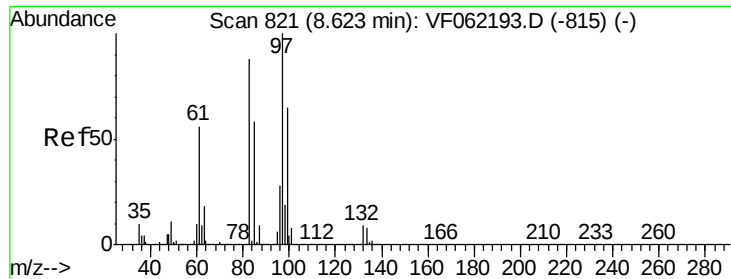
MMDadoda
 4/19/2019 10:52:51 AM



#54
 cis-1,3-Dichloropropene
 Concen: 53.392 ug/l
 RT: 7.46 min Scan# 703
 Delta R.T. 0.02 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.4	39.6
39	55.7	46.7	70.1





#55

1,1,2-Trichloroethane

Concen: 55.099 ug/l

RT: 8.64 min Scan# 822

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

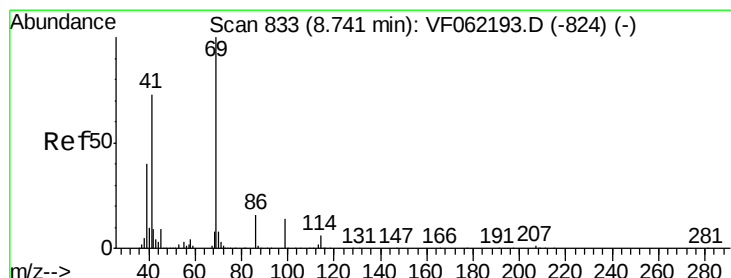
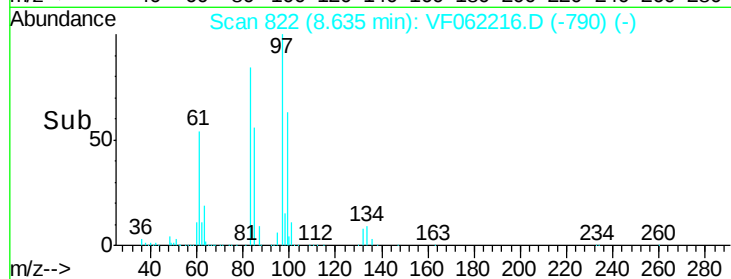
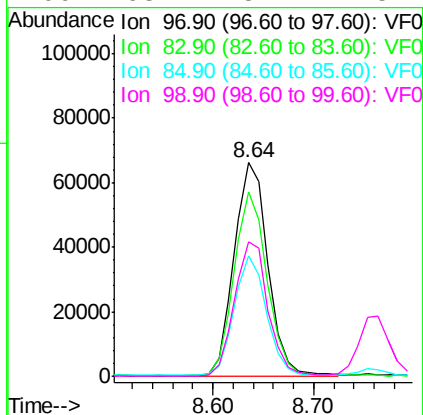
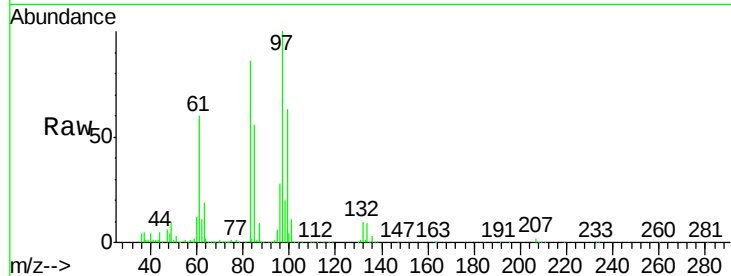
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	153595
Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.2	105.2
85	56.0	46.2	69.4
99	63.2	52.2	78.4

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#56

Ethyl methacrylate

Concen: 58.885 ug/l

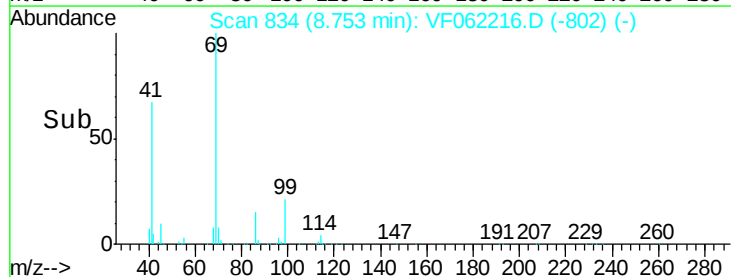
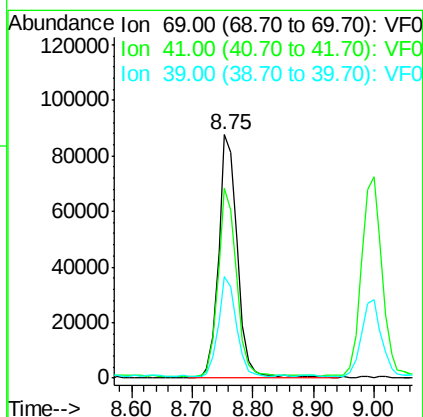
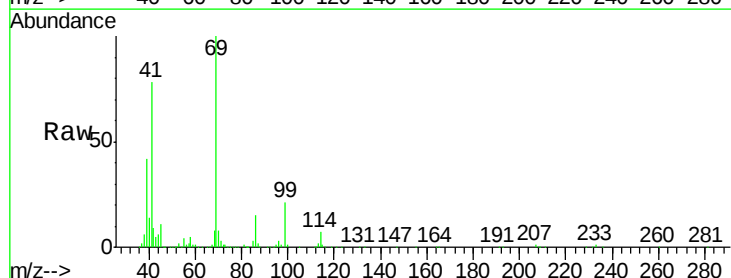
RT: 8.75 min Scan# 834

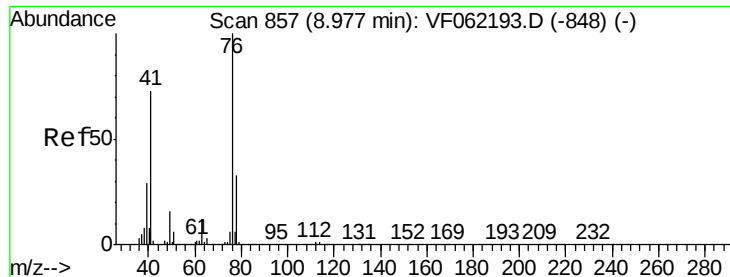
Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	69	Resp:	186627
Ion	Ratio	Lower	Upper
69	100		
41	77.1	61.5	92.3
39	39.4	33.3	49.9





#57

1,3-Dichloropropane

Concen: 55.184 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 248402

Ion Ratio Lower Upper

76 100

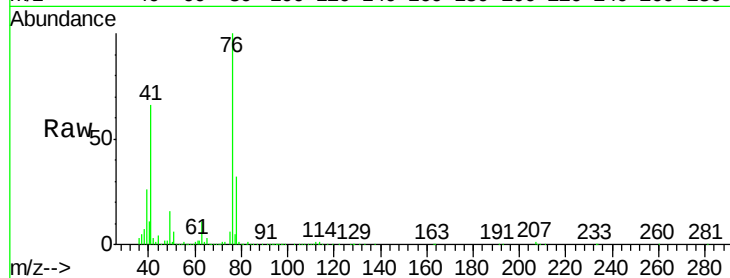
78 32.8 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:51 AM



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0

9.00

120000

100000

80000

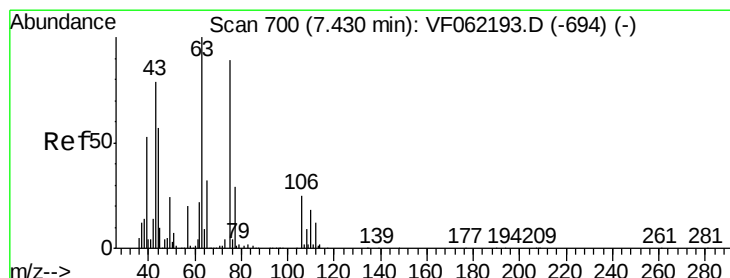
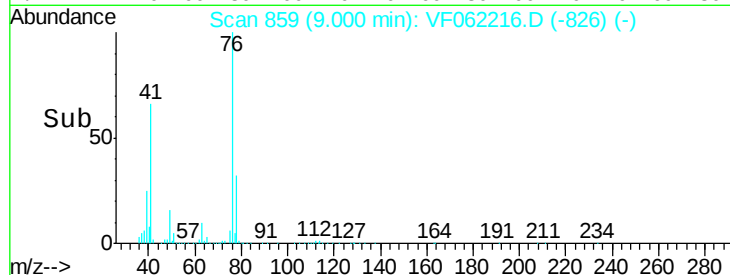
60000

40000

20000

0

Time--> 8.80 8.90 9.00 9.10 9.20



#58

2-Chloroethyl Vinyl ether

Concen: 289.620 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.02 min

Lab File: VF062216.D

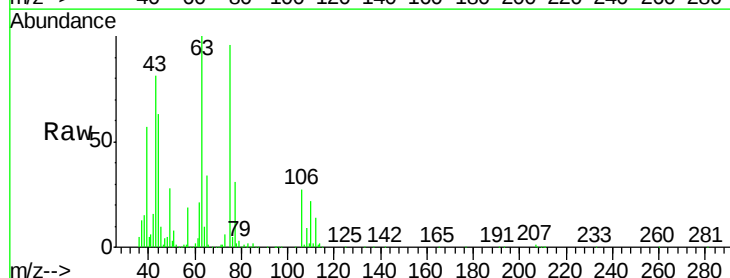
Acq: 18 Apr 2019 21:01

Tgt Ion: 63 Resp: 266501

Ion Ratio Lower Upper

63 100

106 27.4 21.4 32.0



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

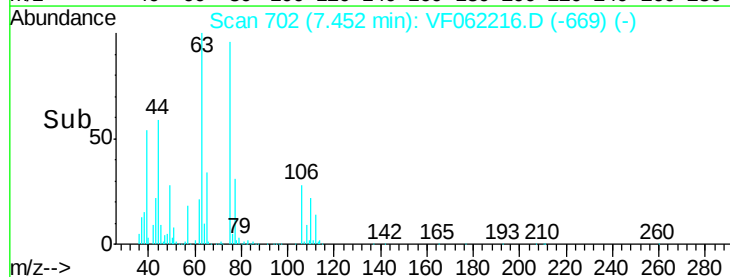
7.45

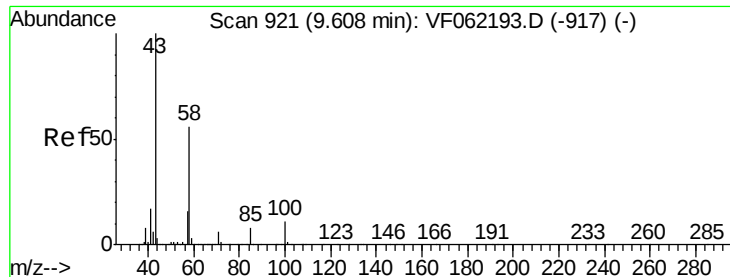
100000

50000

0

Time--> 7.40 7.50 7.60





#59

2-Hexanone

Concen: 274.668 ug/l

RT: 9.62 min Scan# 922

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 455072

Ion Ratio Lower Upper

43 100

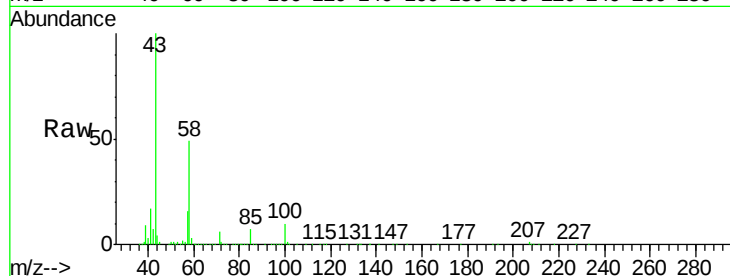
58 52.6 24.6 74.0

Manual Integrations

APPROVED

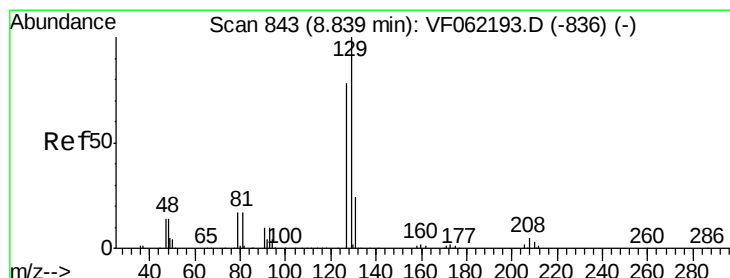
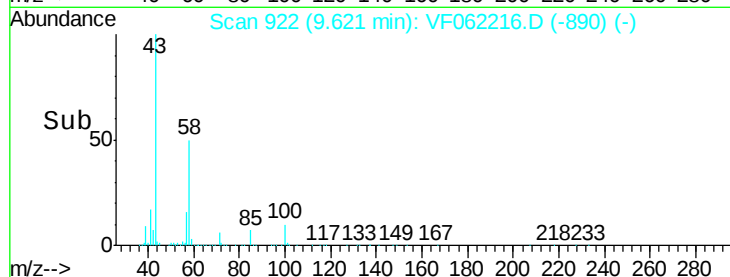
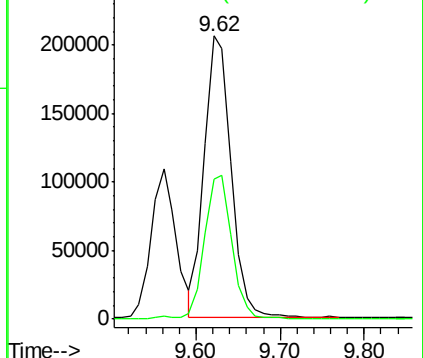
MMDadoda

4/19/2019 10:52:51 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#60

Dibromochloromethane

Concen: 56.440 ug/l

RT: 8.86 min Scan# 845

Delta R.T. 0.02 min

Lab File: VF062216.D

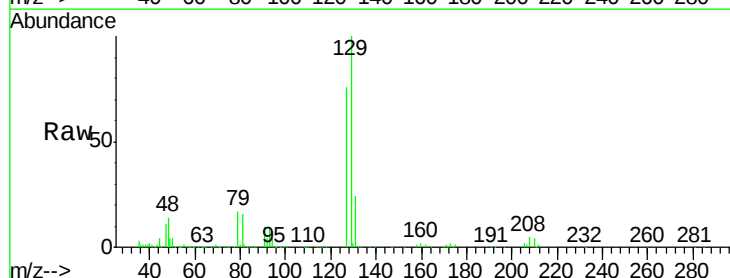
Acq: 18 Apr 2019 21:01

Tgt Ion: 129 Resp: 233986

Ion Ratio Lower Upper

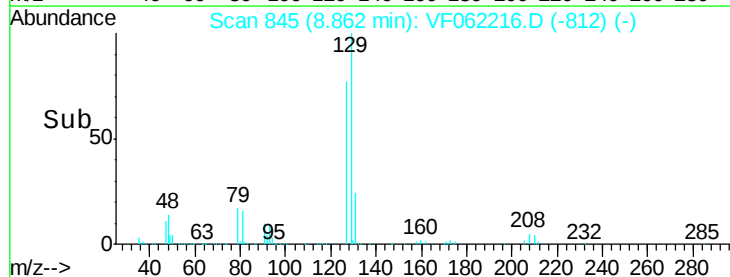
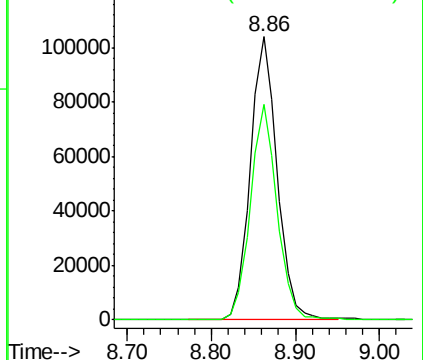
129 100

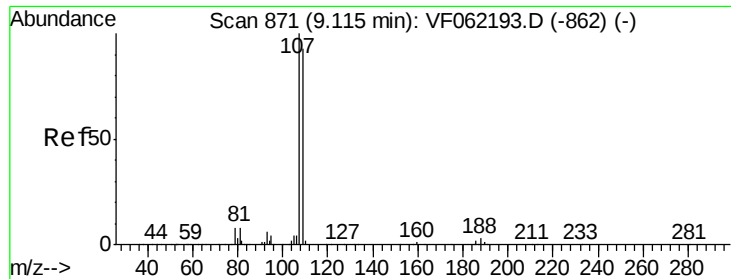
127 75.9 39.0 117.0



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 56.868 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 178599

Ion Ratio Lower Upper

107 100

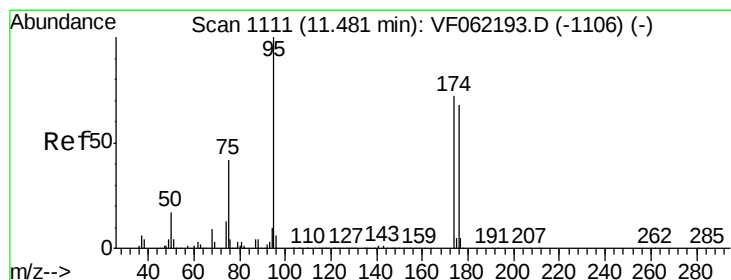
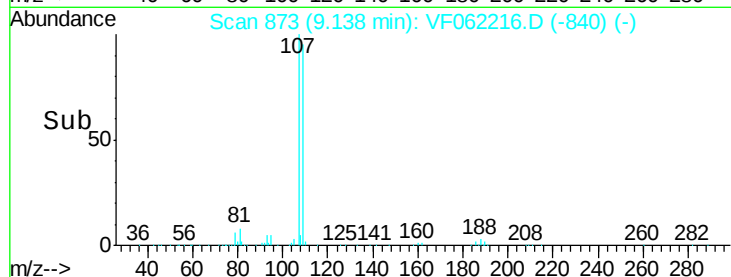
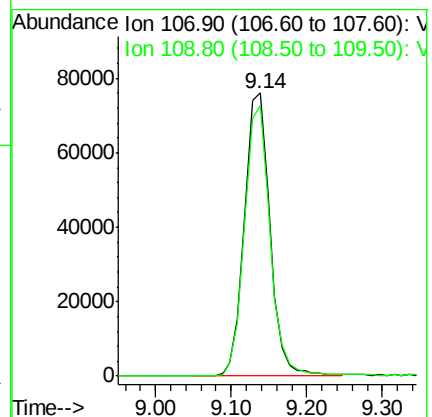
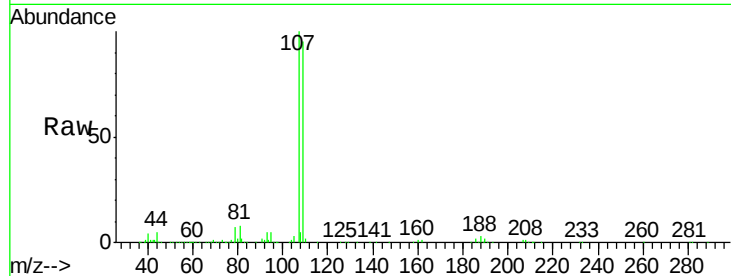
109 95.6 74.3 111.5

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:51 AM



#62

4-Bromofluorobenzene

Concen: 52.983 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

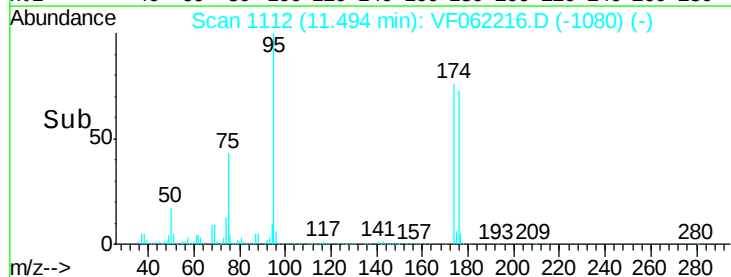
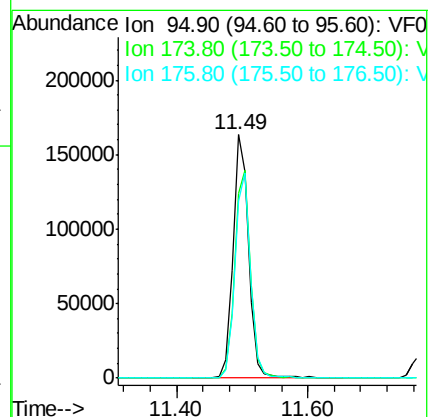
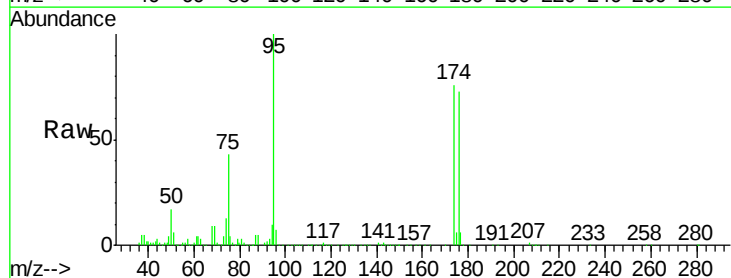
Tgt Ion: 95 Resp: 270919

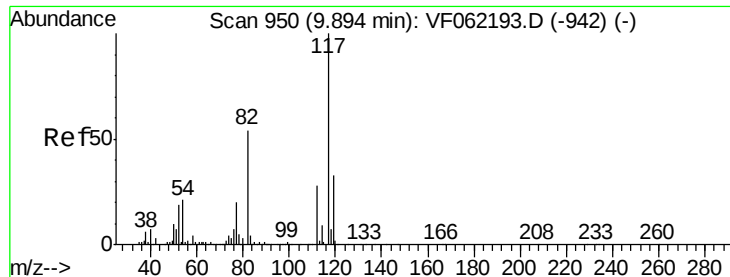
Ion Ratio Lower Upper

95 100

174 87.2 0.0 159.4

176 85.0 0.0 155.4





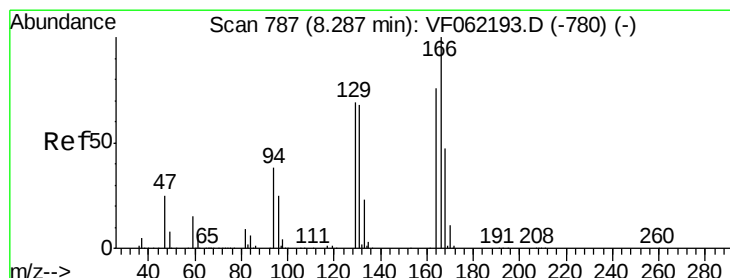
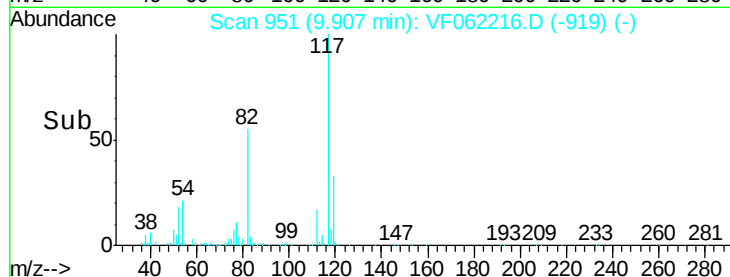
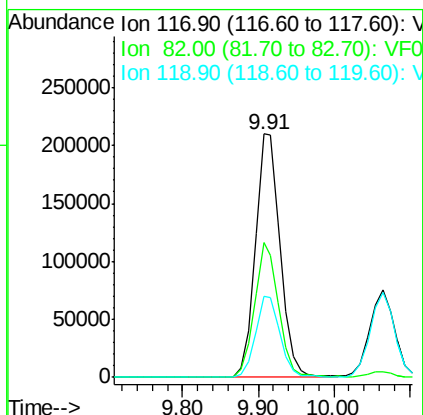
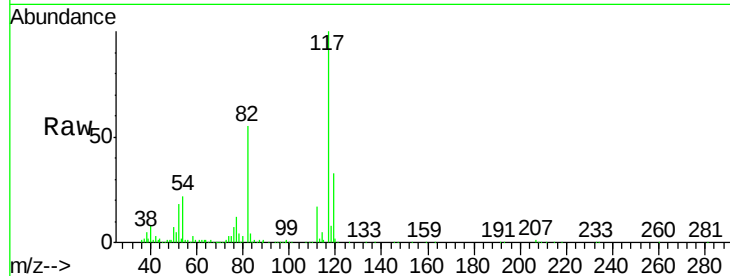
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.2	43.2	64.8
119	33.2	26.2	39.4

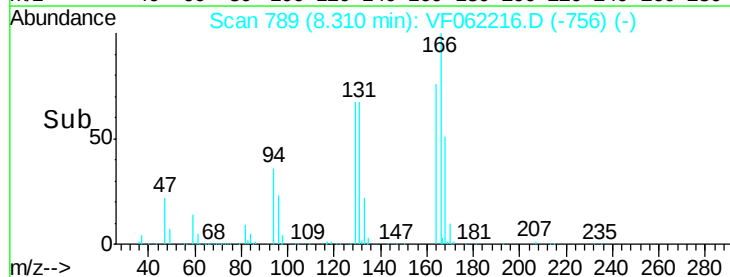
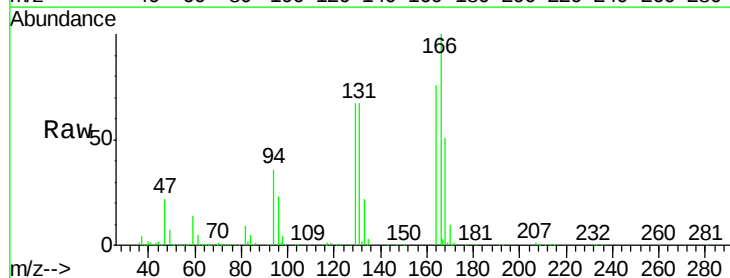
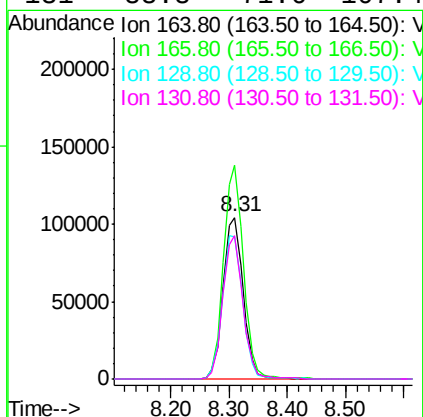
Manual Integrations
APPROVED

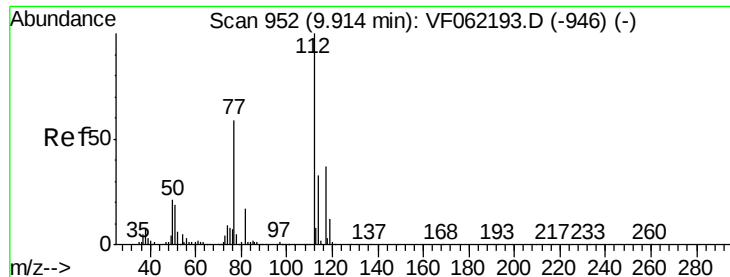
MMDadoda
4/19/2019 10:52:51 AM



#64
Tetrachloroethene
Concen: 57.683 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.0	104.7	157.1
129	88.1	72.6	109.0
131	88.8	71.6	107.4





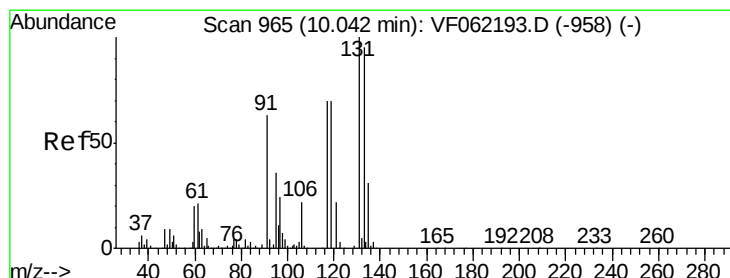
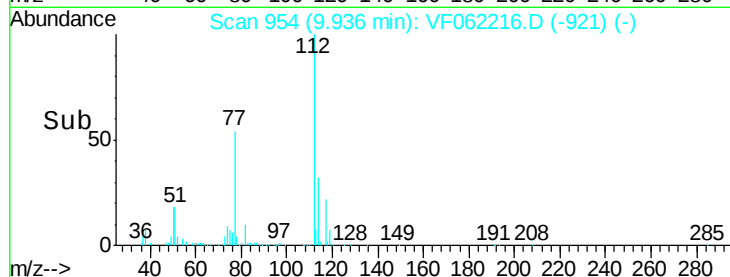
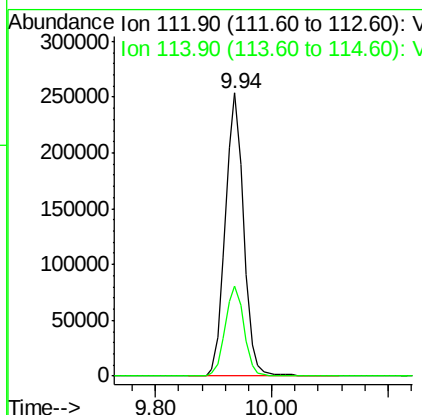
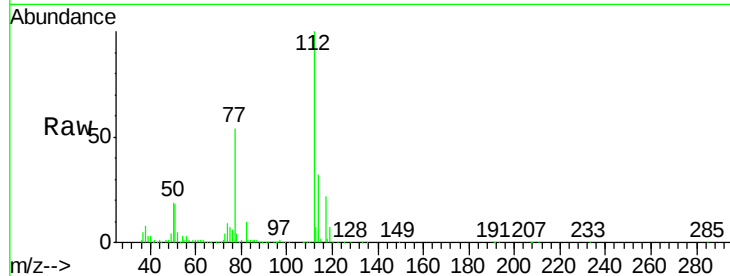
#65
Chlorobenzene
Concen: 53.993 ug/l
RT: 9.94 min Scan# 954
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.1	39.1

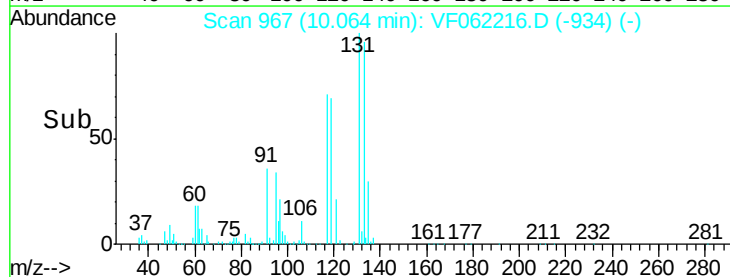
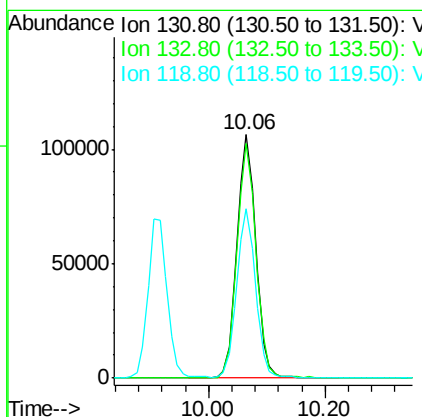
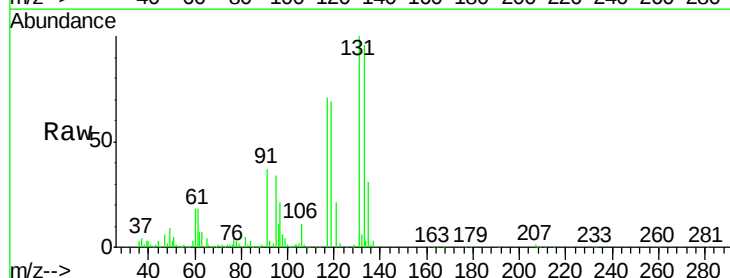
Manual Integrations
APPROVED

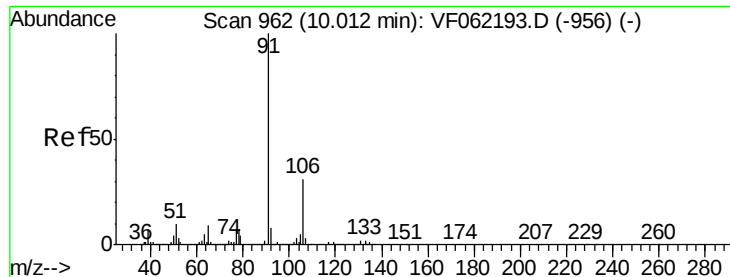
MMDadoda
4/19/2019 10:52:51 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.813 ug/l
RT: 10.06 min Scan# 967
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.4	47.7	143.1
119	68.9	34.6	103.9





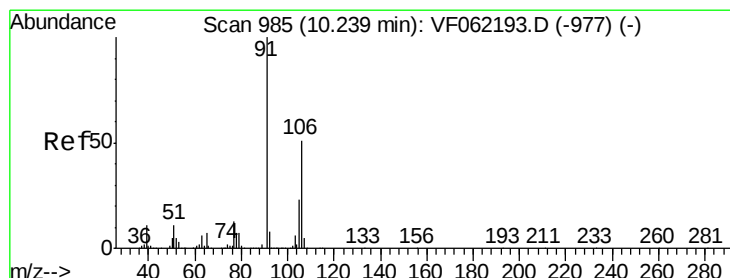
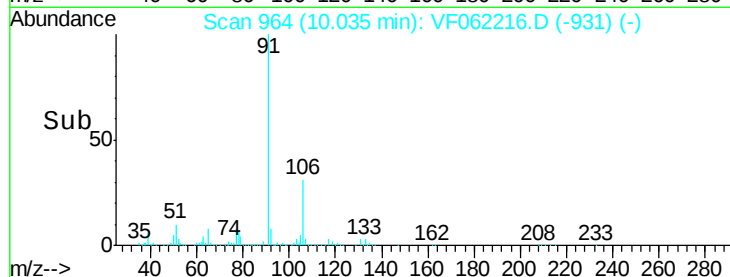
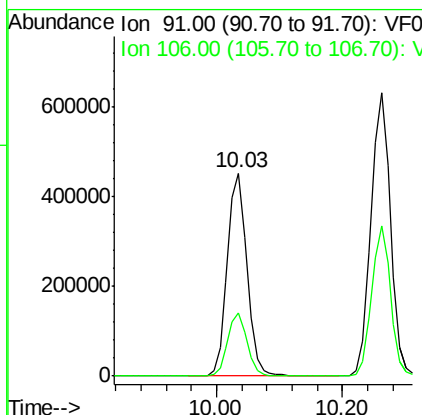
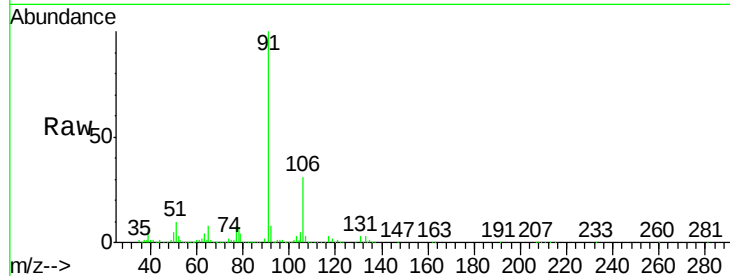
#67
Ethyl Benzene
Concen: 52.001 ug/l
RT: 10.03 min Scan# 964
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 974700
Ion Ratio Lower Upper
91 100
106 31.2 24.9 37.3

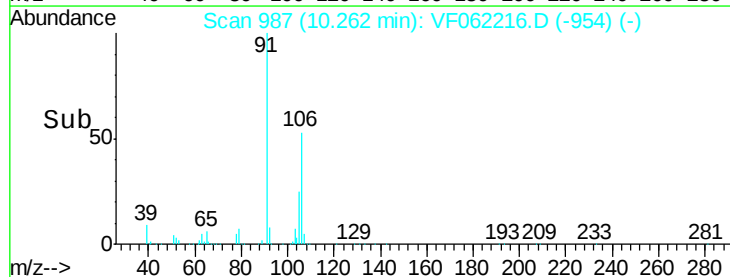
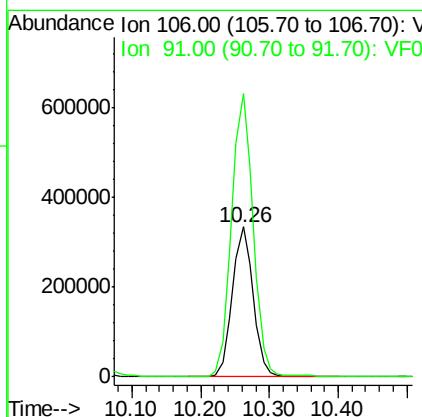
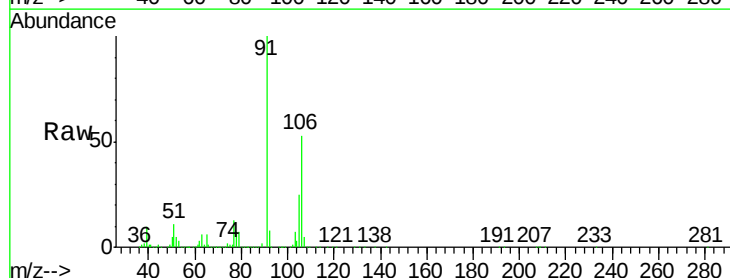
Manual Integrations
APPROVED

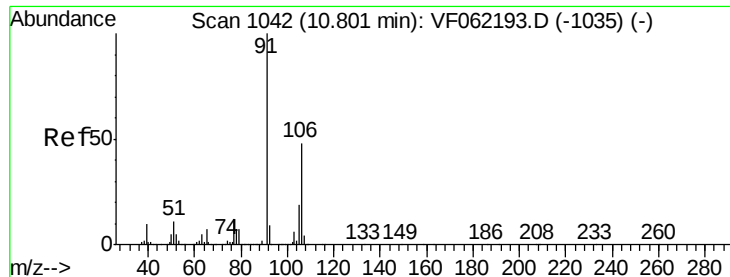
MMDadoda
4/19/2019 10:52:51 AM



#68
m/p-Xylenes
Concen: 102.223 ug/l
RT: 10.26 min Scan# 987
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion:106 Resp: 705354
Ion Ratio Lower Upper
106 100
91 194.2 159.1 238.7





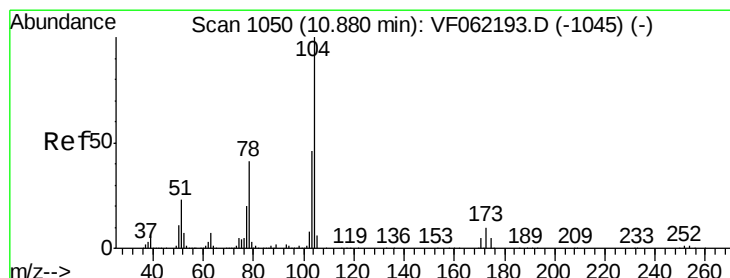
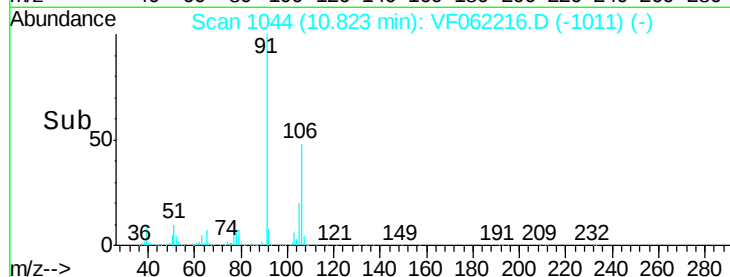
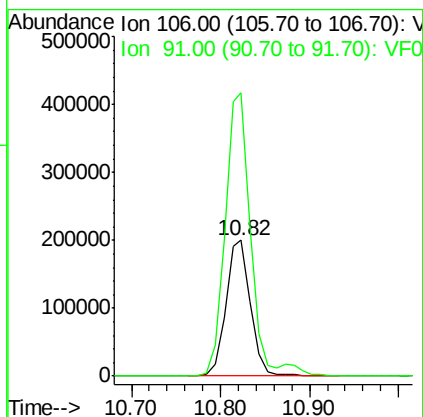
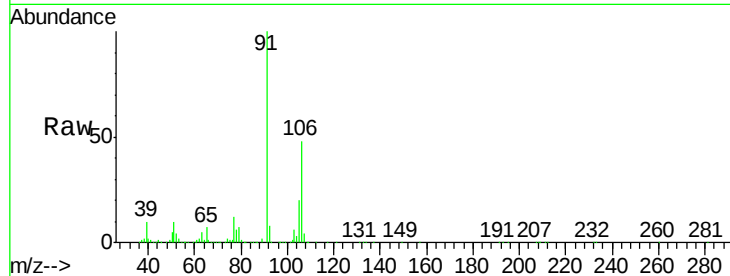
#69
o-Xylene
Concen: 50.495 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	211.3	107.5	386841		322.4

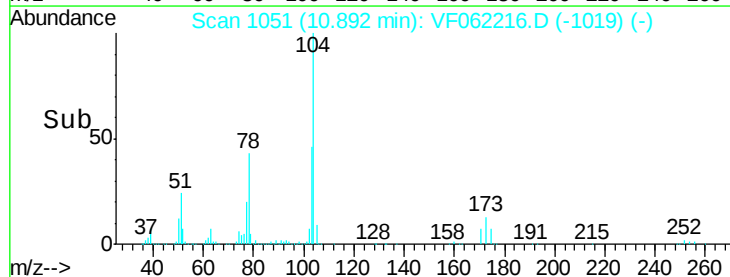
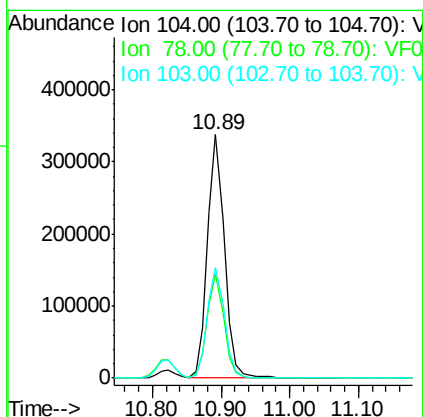
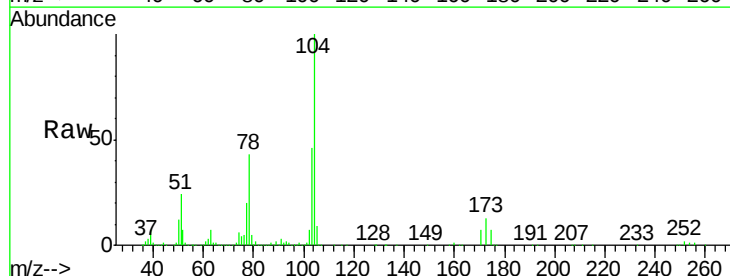
Manual Integrations
APPROVED

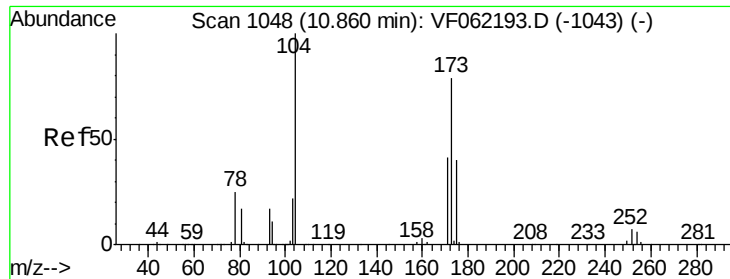
MMDadoda
4/19/2019 10:52:51 AM



#70
Styrene
Concen: 53.914 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	41.8	34.5	582879		51.7
103	46.4	37.2			55.8





#71

Bromoform

Concen: 54.576 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.02 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:173 Resp: 139098

Ion Ratio Lower Upper

173 100

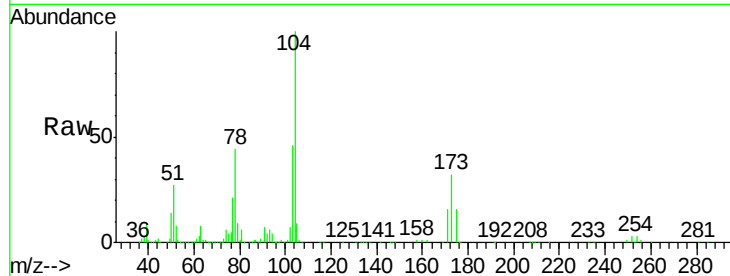
175 50.3 24.5 73.5

254 0.0 0.1 0.1#

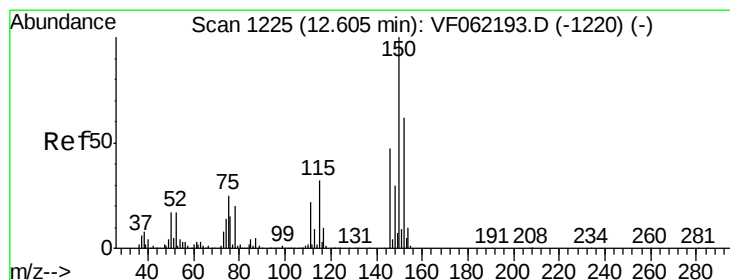
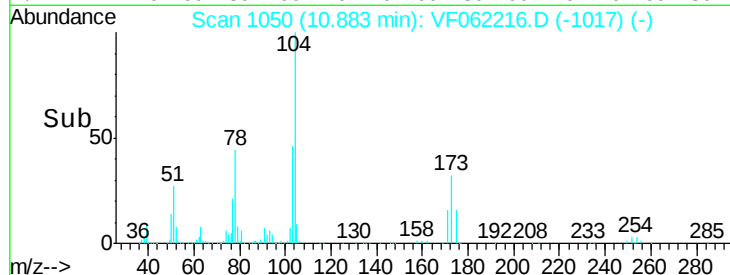
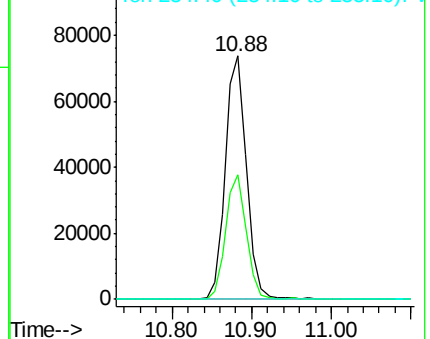
Manual Integrations
APPROVED

MMDadoda

4/19/2019 10:52:51 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

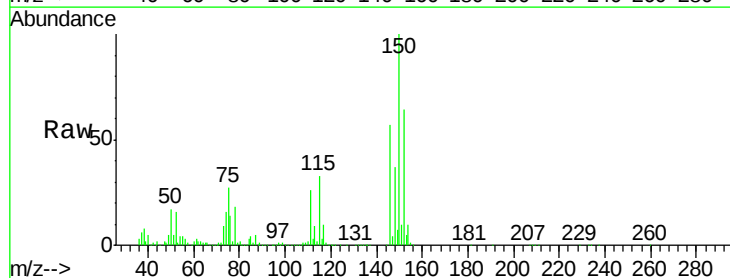
Tgt Ion:152 Resp: 259792

Ion Ratio Lower Upper

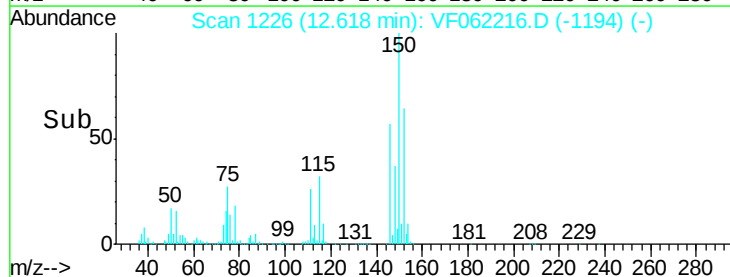
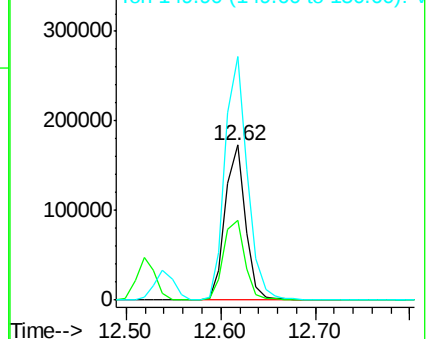
152 100

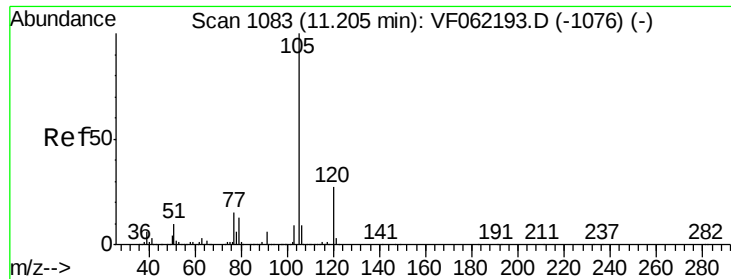
115 54.0 27.8 83.3

150 171.5 0.0 341.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 49.734 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1109867

Ion Ratio Lower Upper

105 100

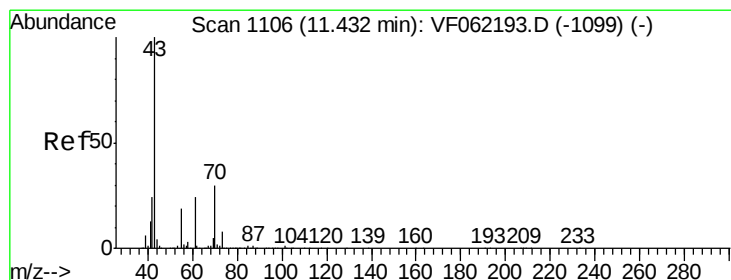
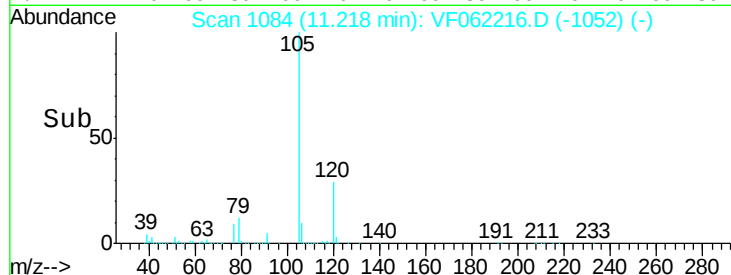
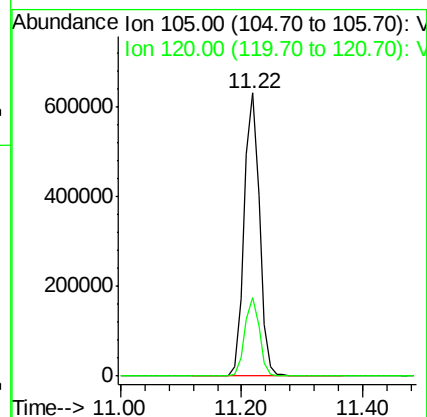
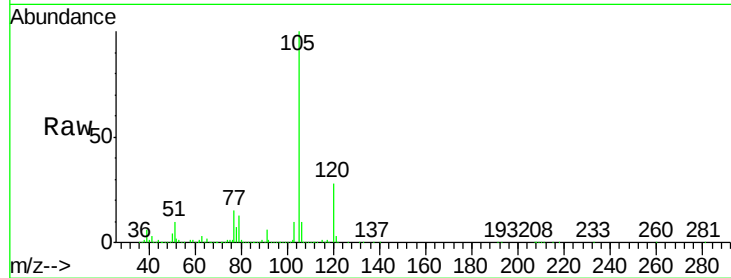
120 26.6 13.0 38.9

Manual Integrations

APPROVED

MMDadoda

4/19/2019 10:52:51 AM



#74

N-ethyl acetate

Concen: 55.837 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion: 43 Resp: 294294

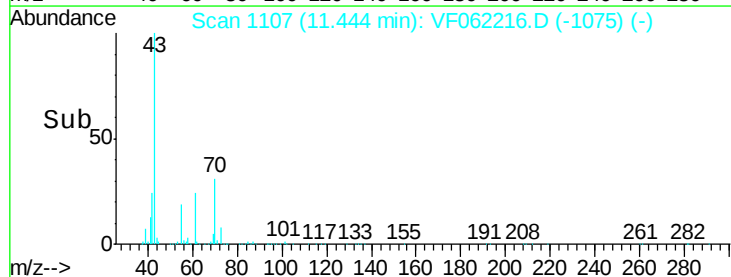
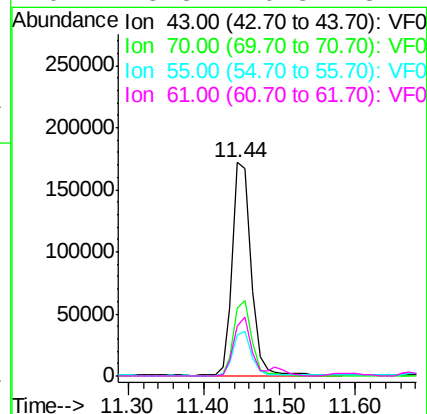
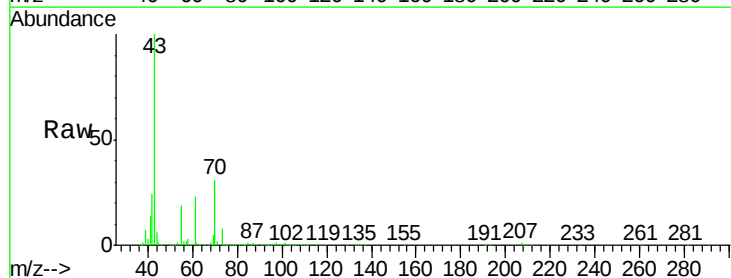
Ion Ratio Lower Upper

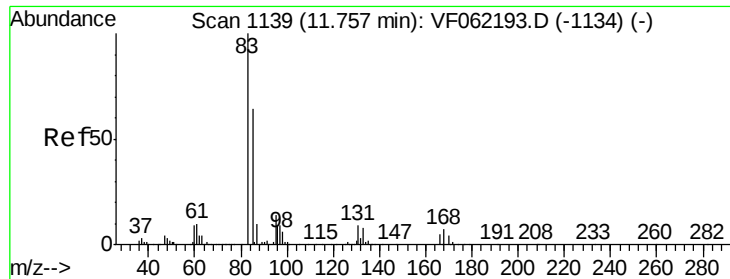
43 100

70 34.3 27.0 40.4

55 20.3 15.7 23.5

61 25.8 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 50.375 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

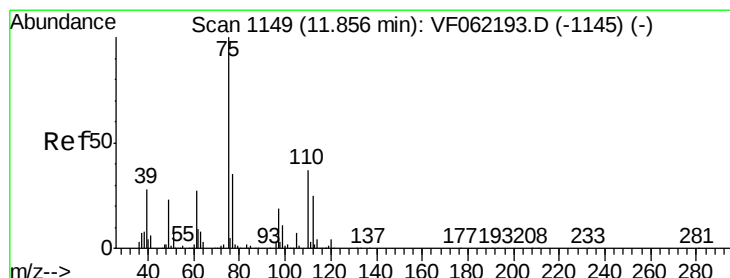
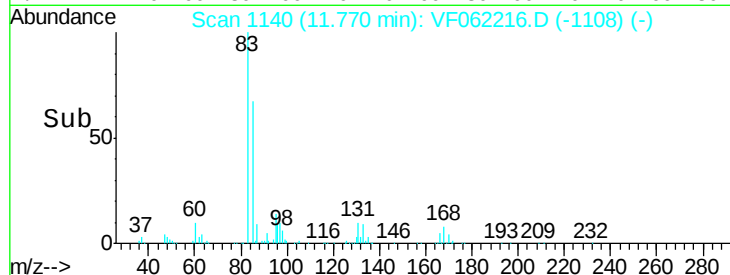
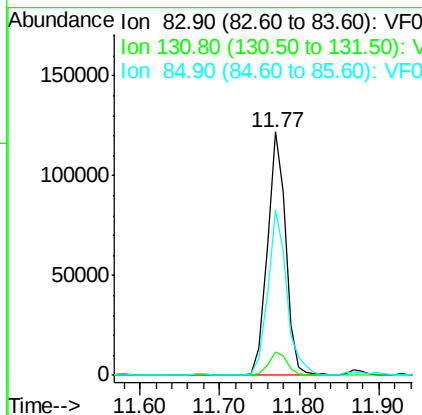
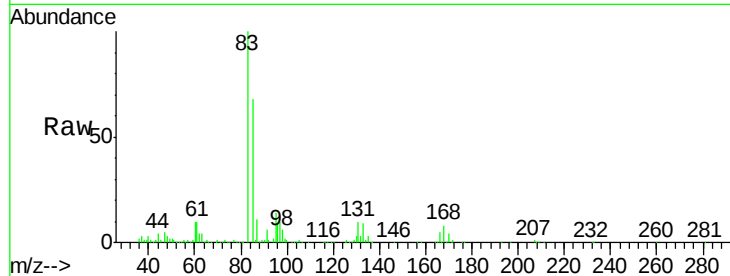
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	193331
Ion Ratio	Lower	Upper	
83	100		
131	10.0	4.5	13.5
85	71.2	34.7	104.1

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#76

1,2,3-Trichloropropane

Concen: 50.143 ug/l

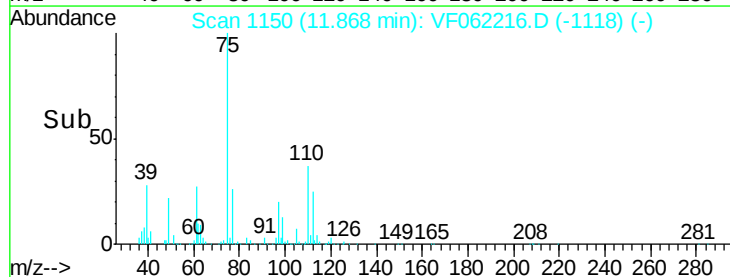
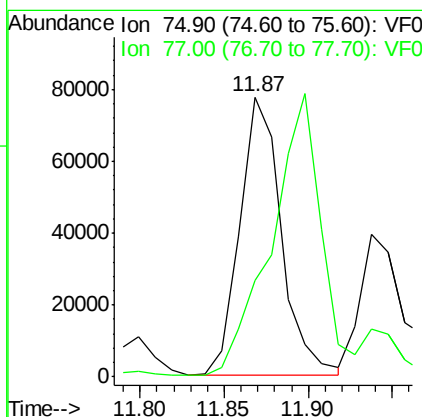
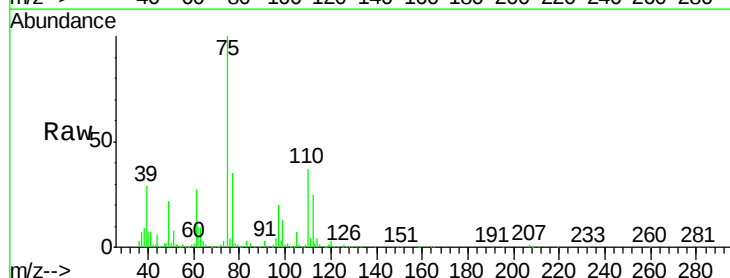
RT: 11.87 min Scan# 1150

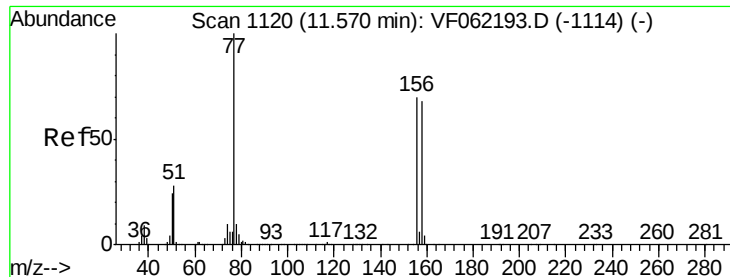
Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	75	Resp:	132400
Ion Ratio	Lower	Upper	
75	100		
77	0.0	7.4	22.2#





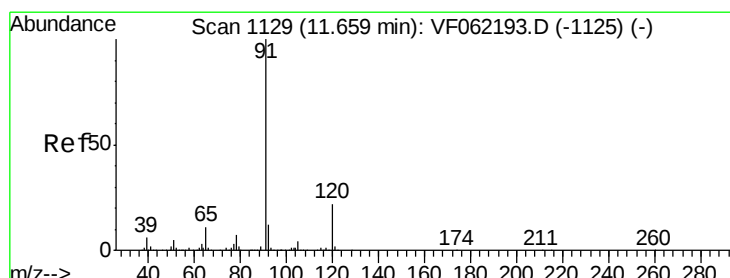
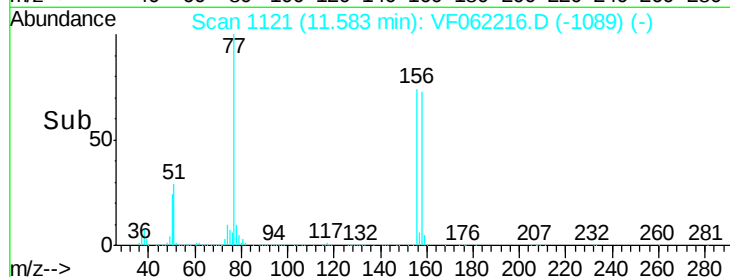
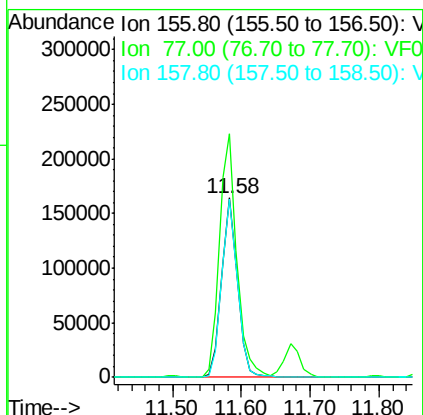
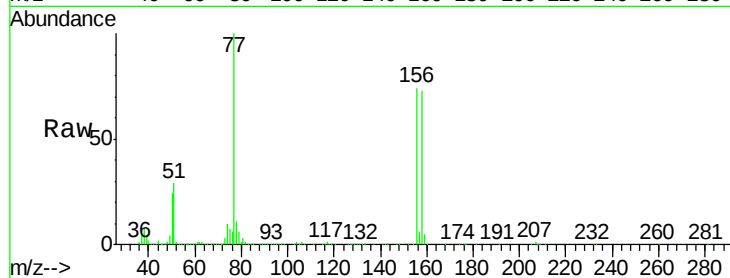
#77
Bromobenzene
Concen: 55.524 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	145.7	80.9	242.7	
158	99.1	49.8	149.4	

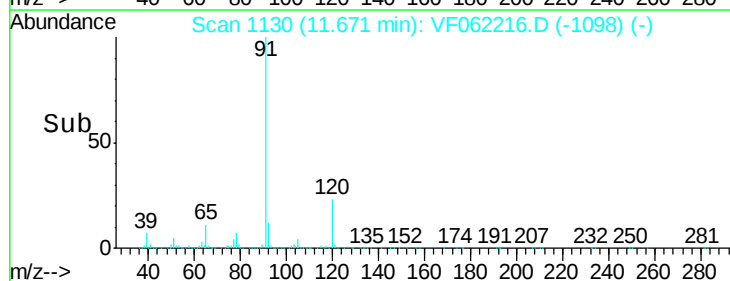
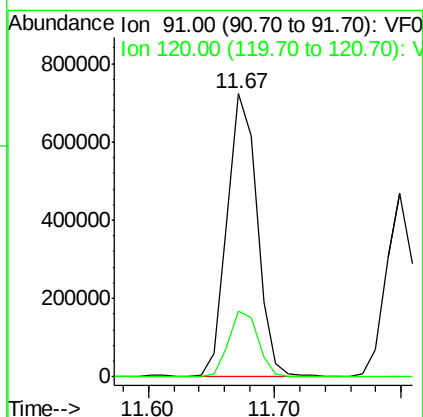
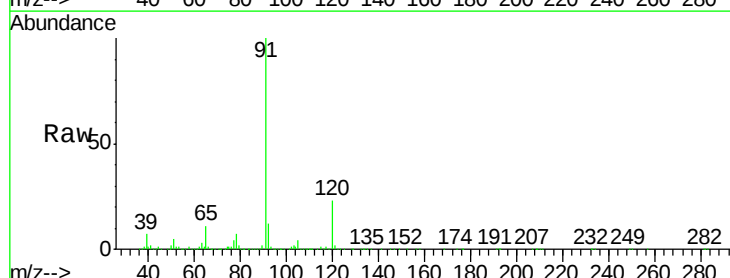
Manual Integrations
APPROVED

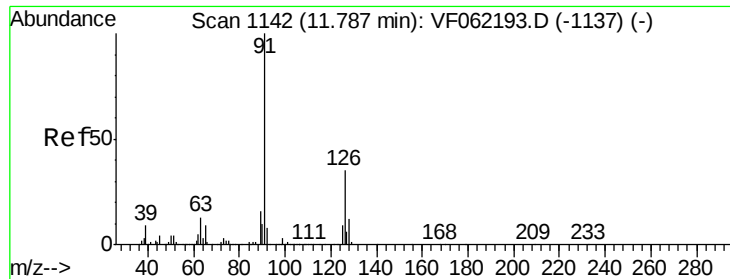
MMDadoda
4/19/2019 10:52:51 AM



#78
n-propylbenzene
Concen: 50.264 ug/l
RT: 11.67 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.3	11.2	33.6	





#79

2-Chlorotoluene

Concen: 50.497 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 721114

Ion Ratio Lower Upper

91 100

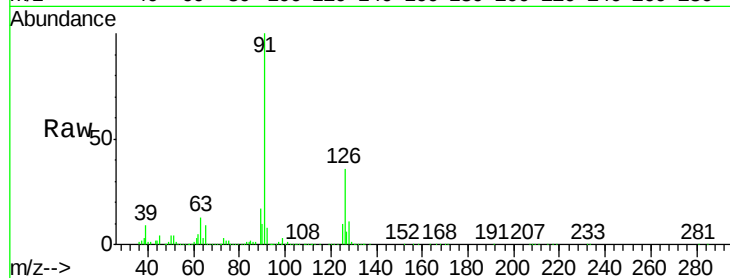
126 35.3 16.9 50.6

Manual Integrations

APPROVED

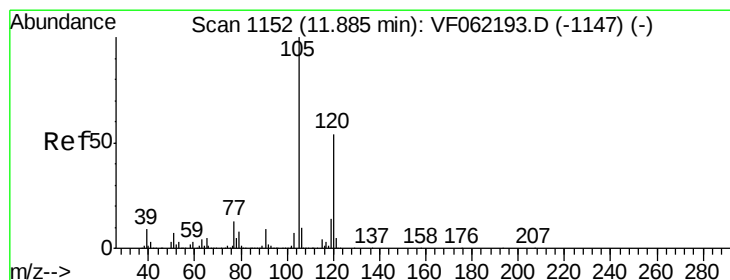
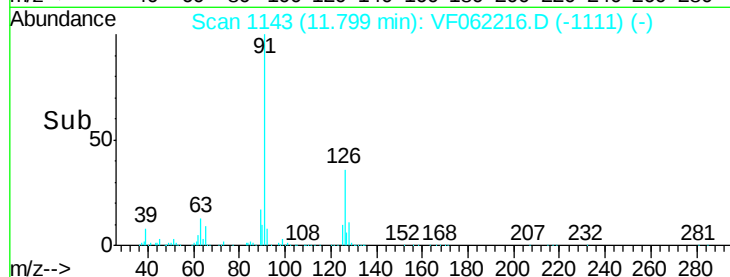
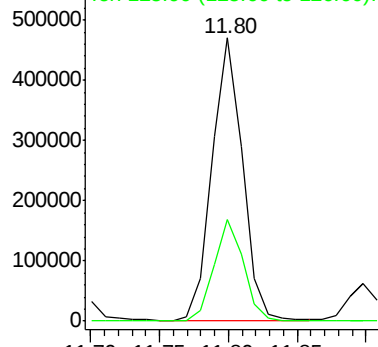
MMDadoda

4/19/2019 10:52:51 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 49.826 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062216.D

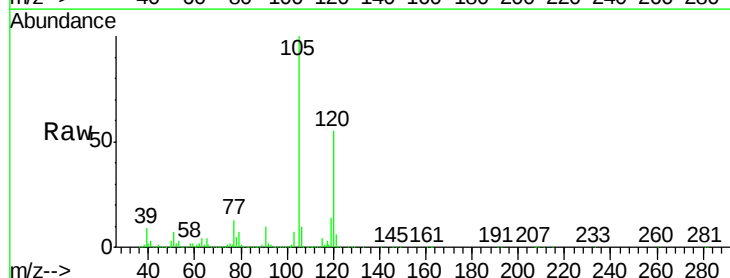
Acq: 18 Apr 2019 21:01

Tgt Ion: 105 Resp: 926103

Ion Ratio Lower Upper

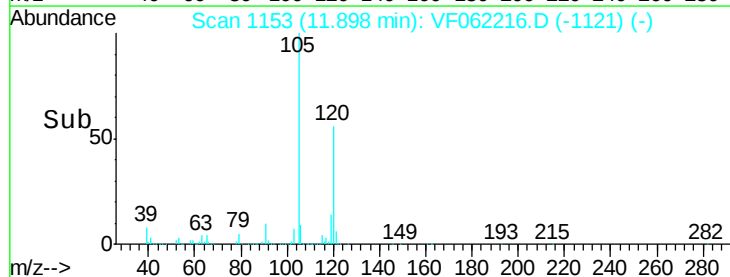
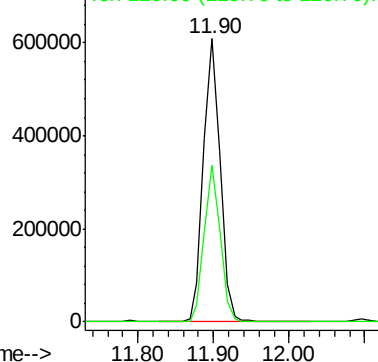
105 100

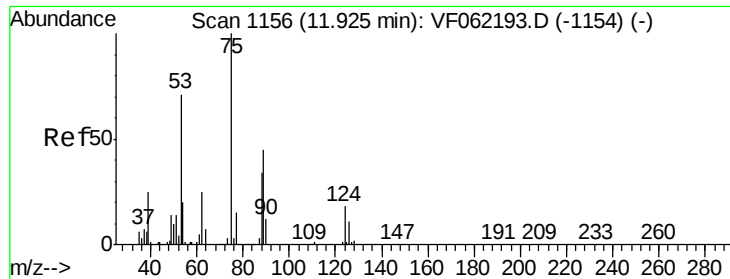
120 53.1 26.2 78.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 50.801 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

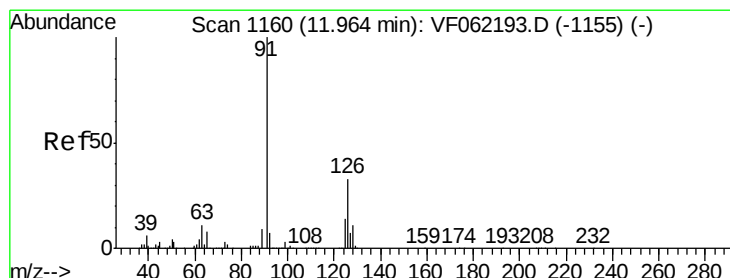
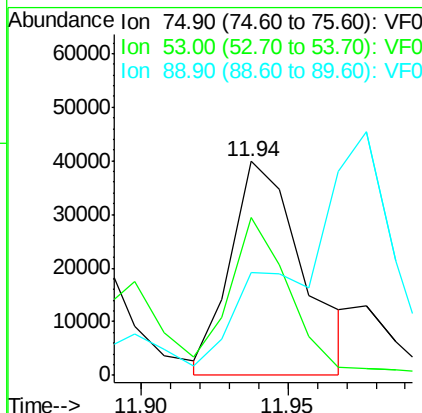
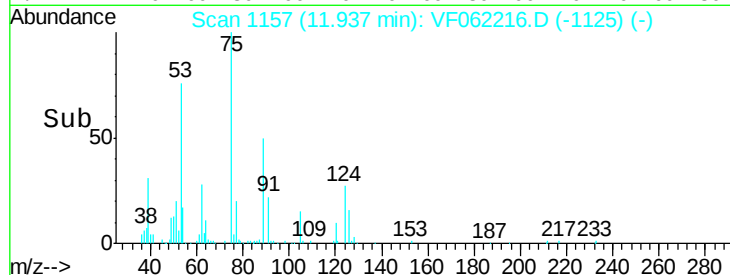
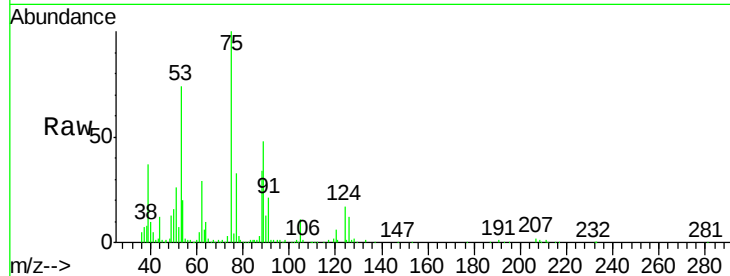
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	68410
Ion	Ratio	Lower	Upper
75	100		
53	62.8	50.2	75.4
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#82

4-Chlorotoluene

Concen: 51.055 ug/l

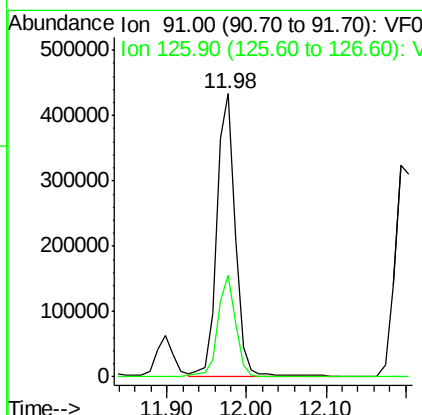
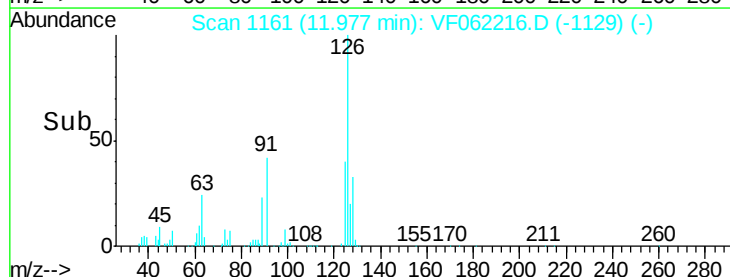
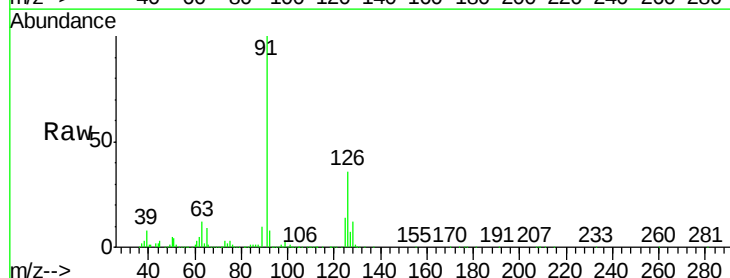
RT: 11.98 min Scan# 1161

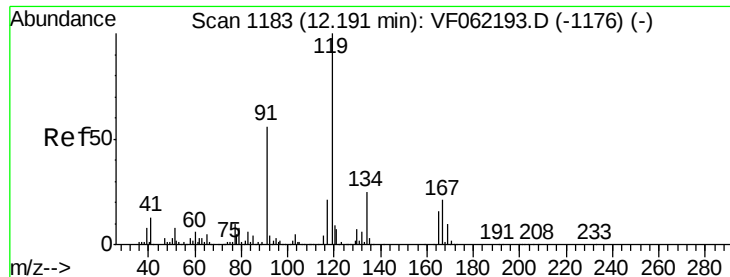
Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	91	Resp:	704600
Ion	Ratio	Lower	Upper
91	100		
126	35.2	16.9	50.6





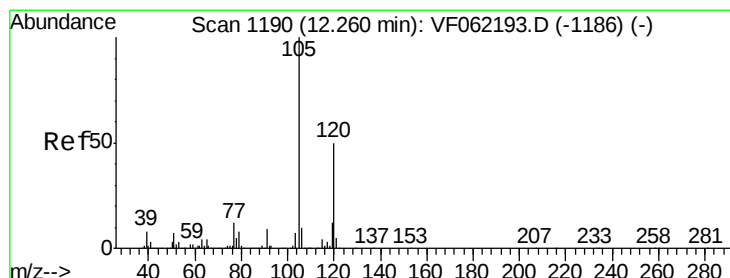
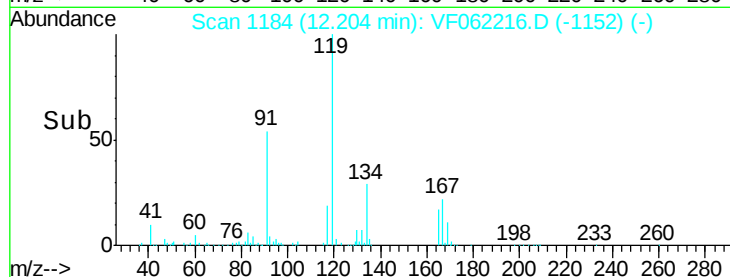
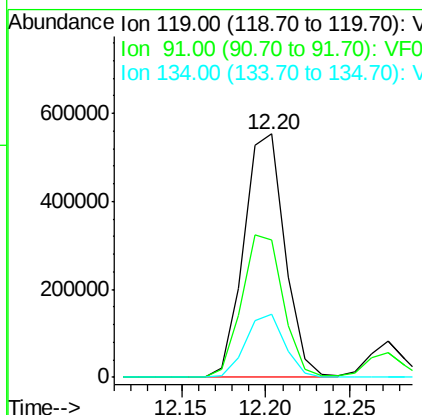
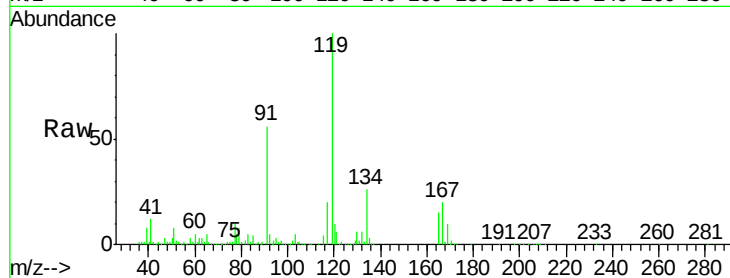
#83
tert-Butylbenzene
Concen: 48.825 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	58.8	29.4	88.2
134	24.8	11.8	35.3

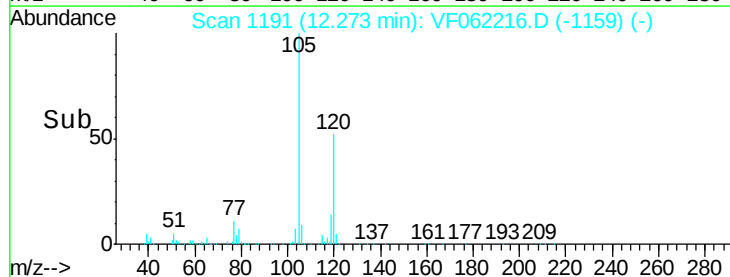
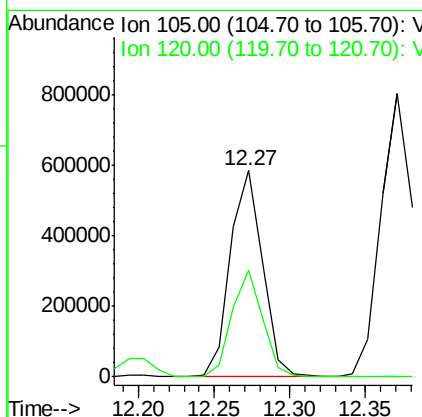
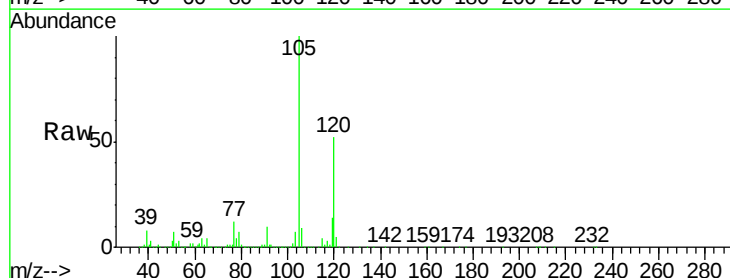
Manual Integrations
APPROVED

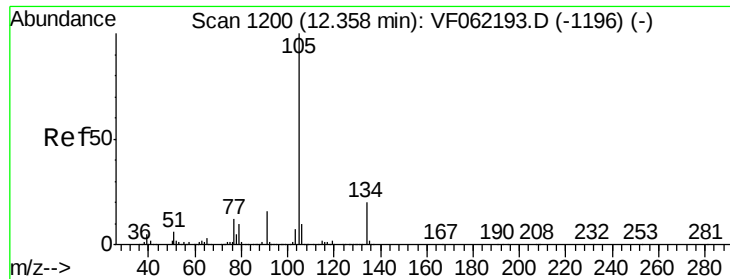
MMDadoda
4/19/2019 10:52:51 AM



#84
1,2,4-Trimethylbenzene
Concen: 48.006 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.0	72.0





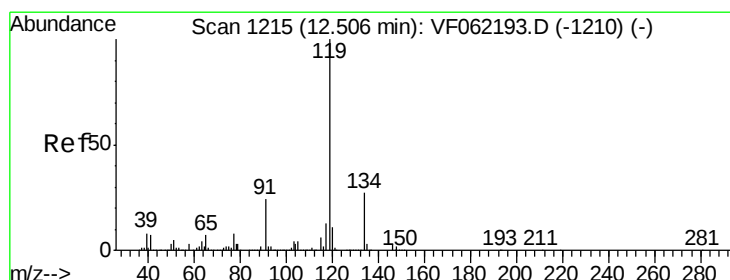
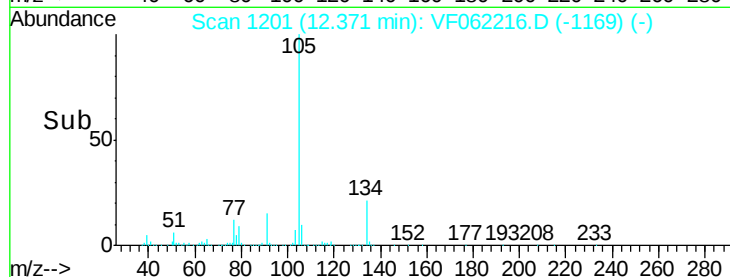
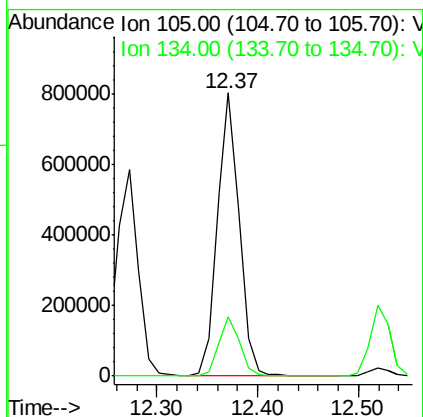
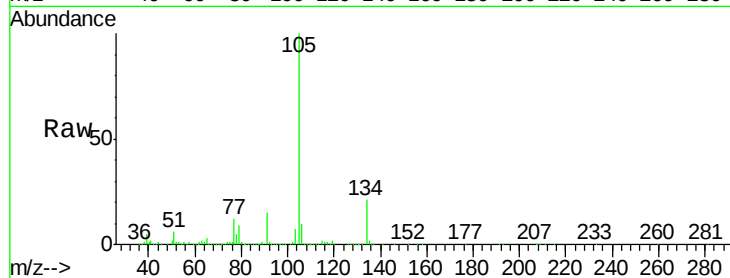
#85
 sec-Butylbenzene
 Concen: 48.529 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:105 Resp: 1211000
 Ion Ratio Lower Upper
 105 100
 134 20.2 9.7 29.1

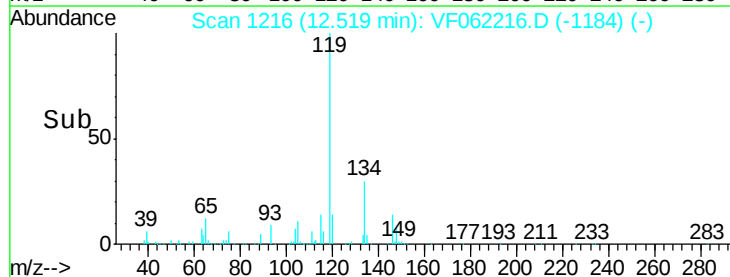
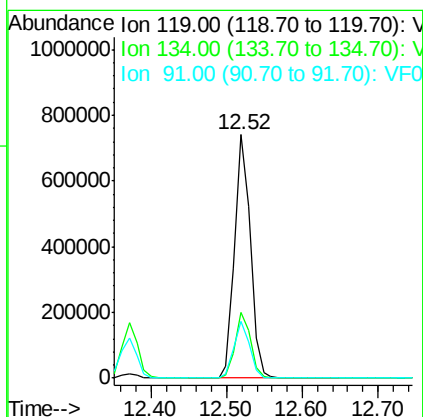
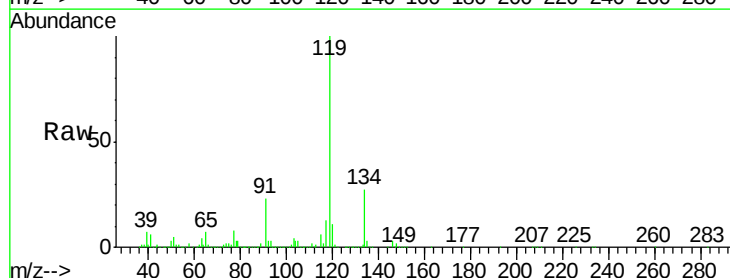
Manual Integrations
 APPROVED

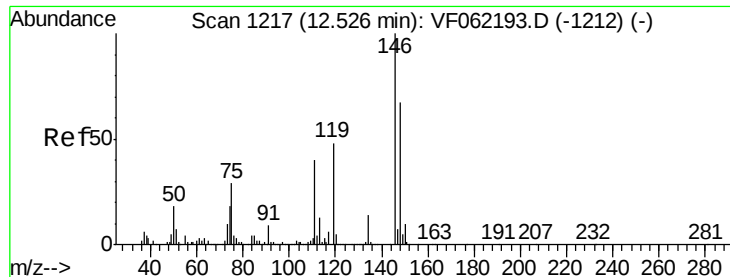
MMDadoda
 4/19/2019 10:52:51 AM



#86
 p-Isopropyltoluene
 Concen: 49.770 ug/l
 RT: 12.52 min Scan# 1216
 Delta R.T. 0.01 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Tgt Ion:119 Resp: 1053521
 Ion Ratio Lower Upper
 119 100
 134 26.3 13.2 39.5
 91 22.7 11.7 35.1





#87

1,3-Dichlorobenzene

Concen: 51.318 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

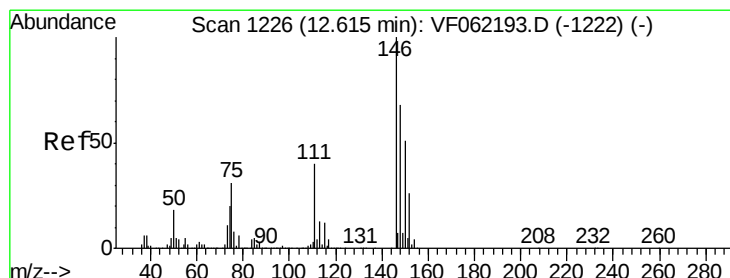
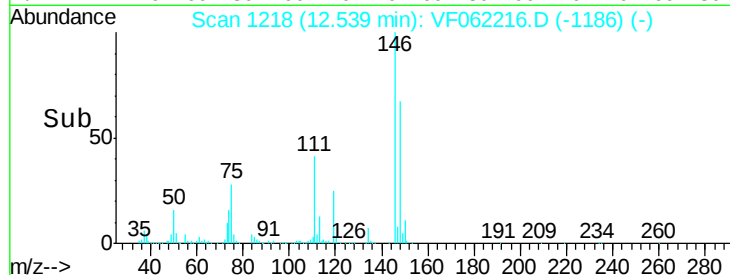
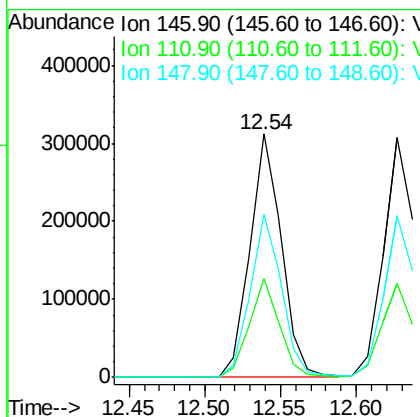
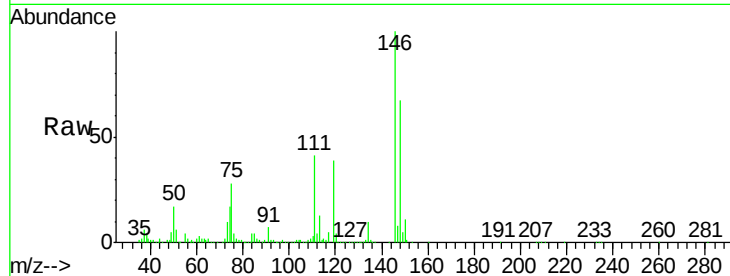
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	455254
Ion Ratio		Lower	Upper
146	100		
111	39.1	19.7	59.0
148	66.4	32.9	98.6

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#88

1,4-Dichlorobenzene

Concen: 52.727 ug/l

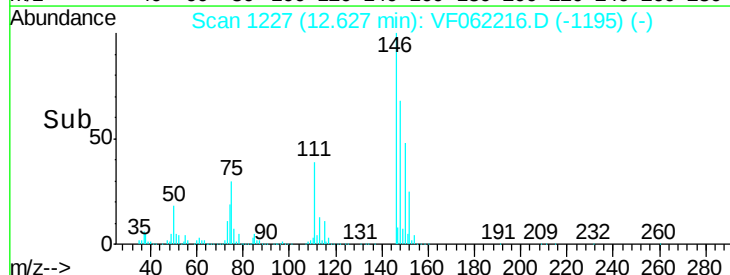
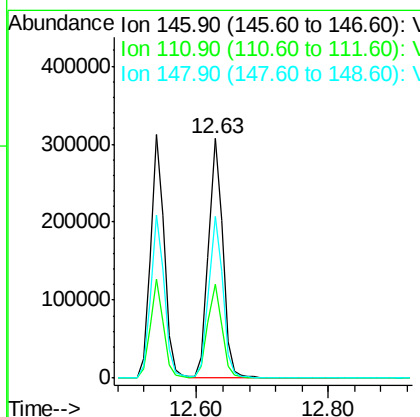
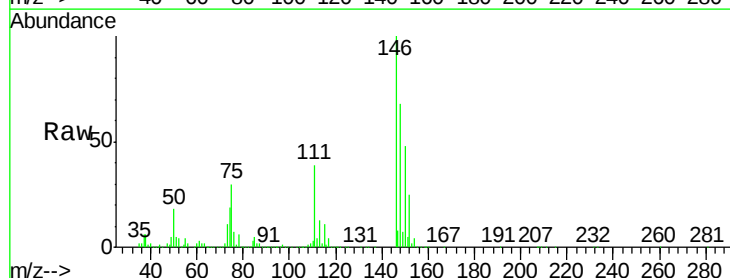
RT: 12.63 min Scan# 1227

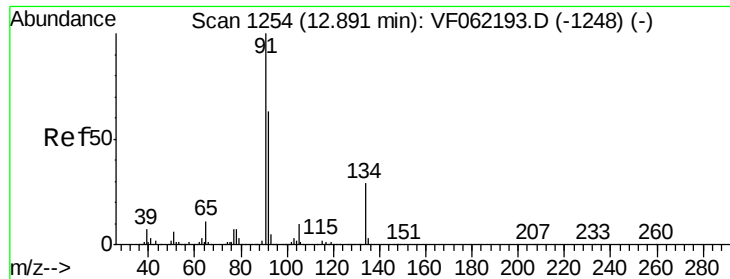
Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Tgt Ion:	146	Resp:	451179
Ion Ratio		Lower	Upper
146	100		
111	39.1	20.0	60.0
148	66.2	33.6	100.8





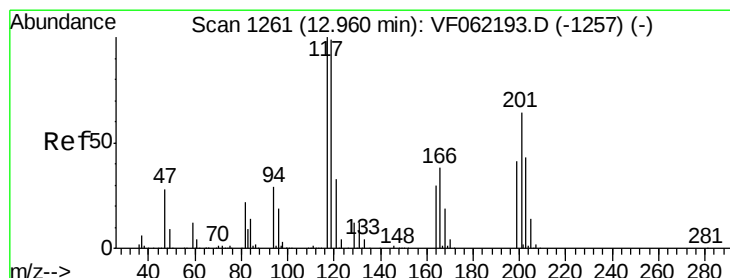
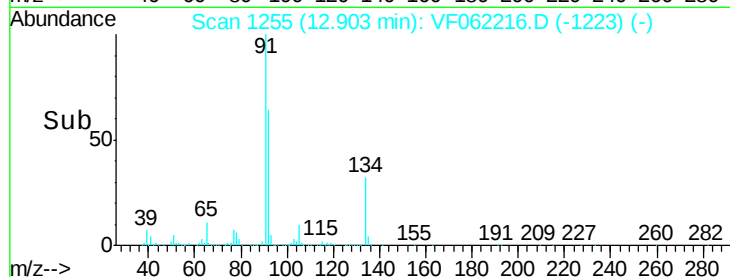
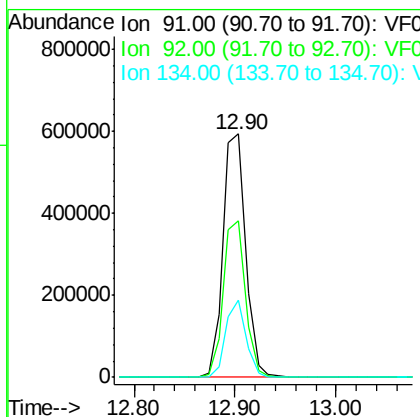
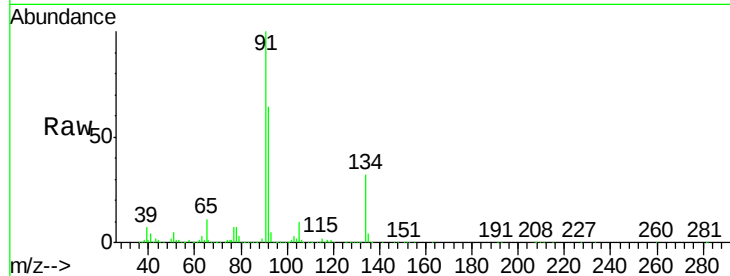
#89
n-Butylbenzene
Concen: 53.982 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.6	31.2	93.6
134	28.3	13.1	39.1

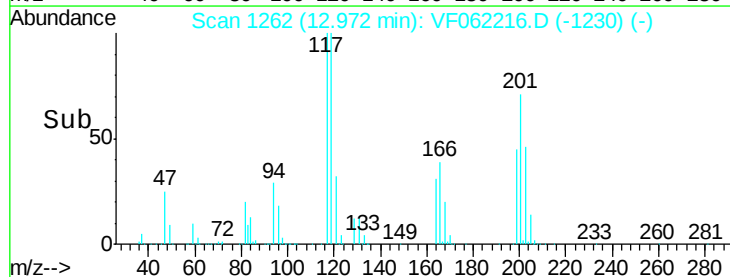
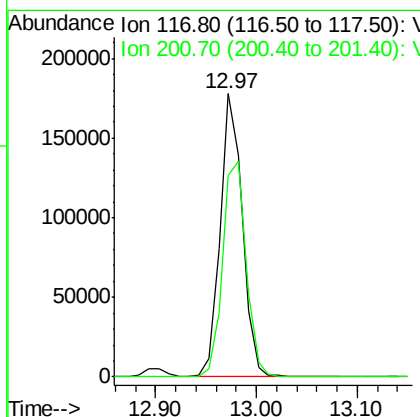
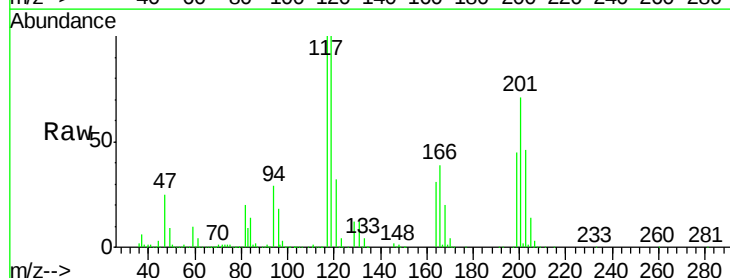
Manual Integrations
APPROVED

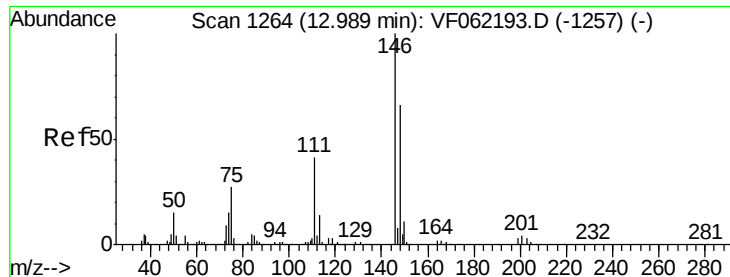
MMDadoda
4/19/2019 10:52:51 AM



#90
Hexachloroethane
Concen: 50.065 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	80.4	37.7	113.1





#91

1,2-Dichlorobenzene

Concen: 51.324 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

Instrument :

MSVOA_F

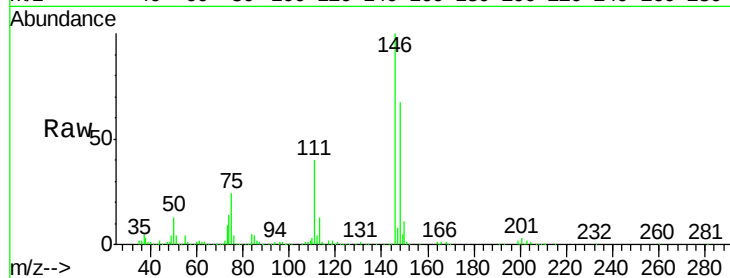
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	439643
Ion Ratio	Lower	Upper	
146	100		
111	41.1	20.8	62.5
148	66.3	33.0	99.0

Manual Integrations
APPROVED

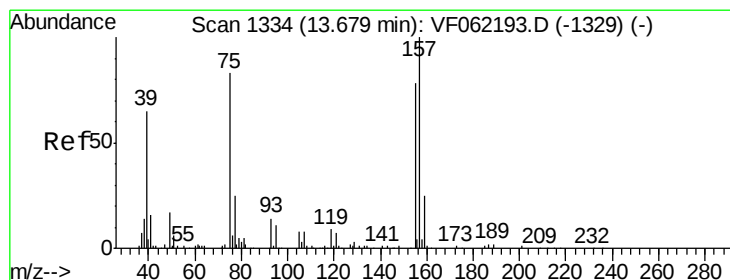
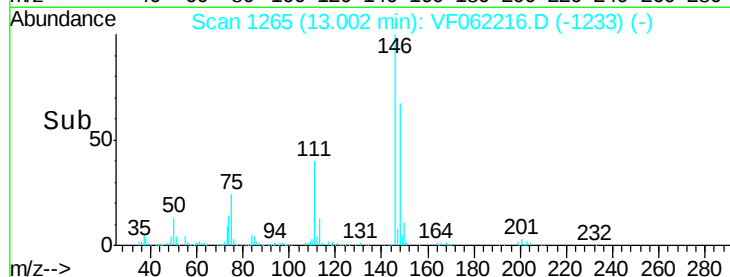
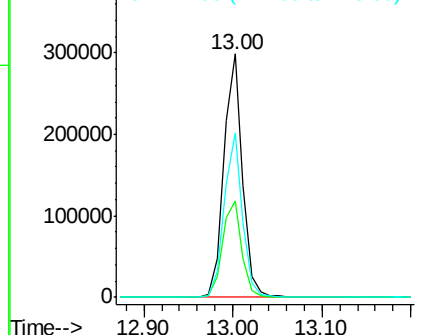
MMDadoda
4/19/2019 10:52:51 AM



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 48.657 ug/l

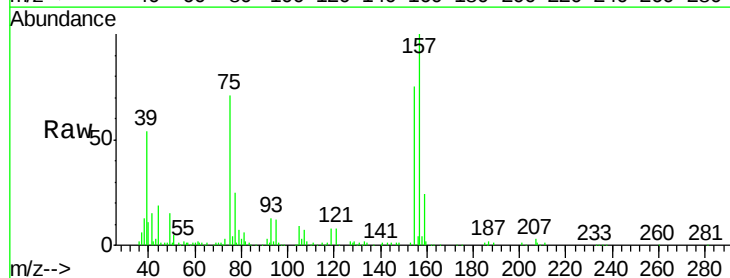
RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062216.D

Acq: 18 Apr 2019 21:01

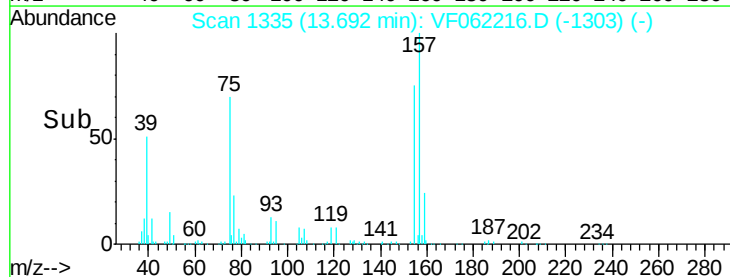
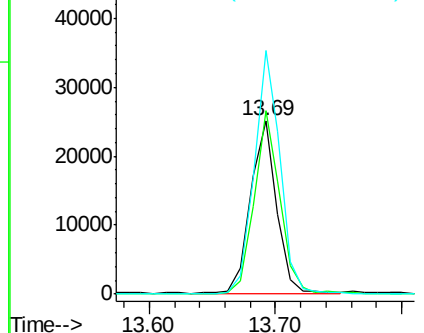
Tgt Ion:	75	Resp:	36689
Ion Ratio	Lower	Upper	
75	100		
155	104.4	47.6	142.8
157	136.9	61.3	183.9

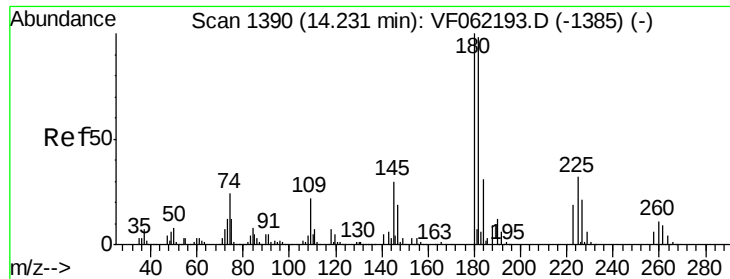


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





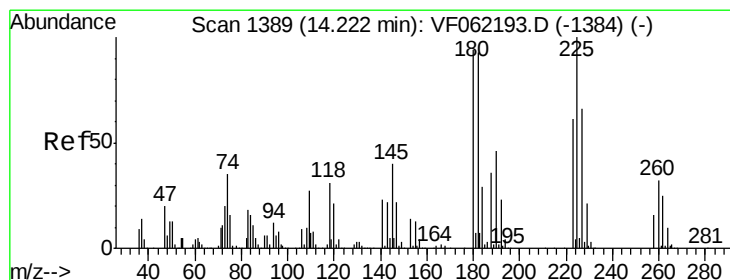
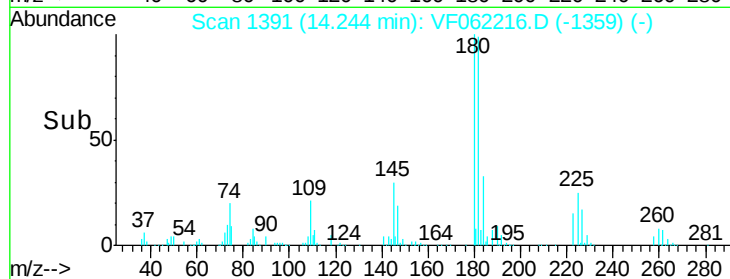
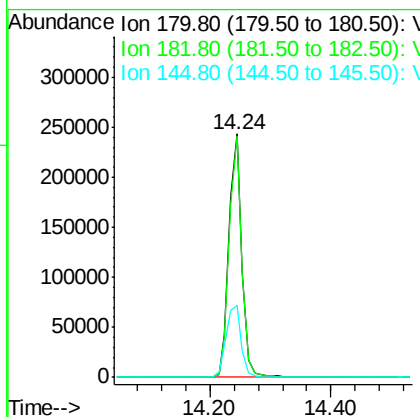
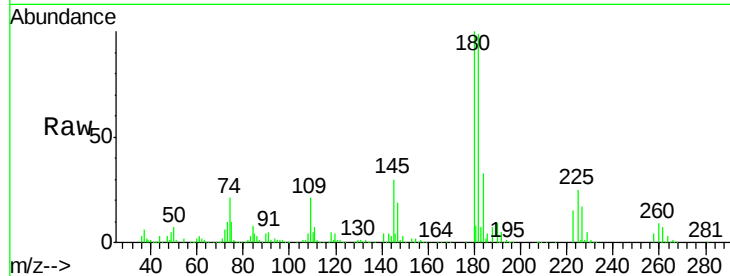
#93
 1,2,4-Trichlorobenzene
 Concen: 50.327 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	360697		
182	97.2	49.3	147.9	
145	34.7	18.1	54.4	

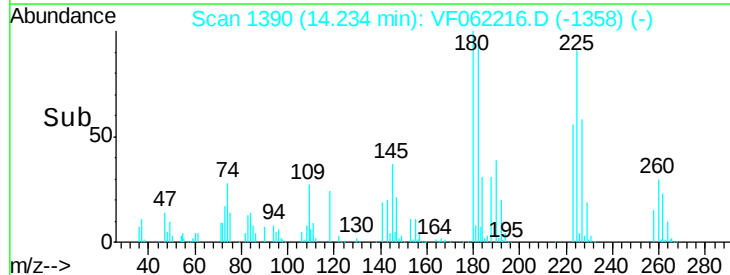
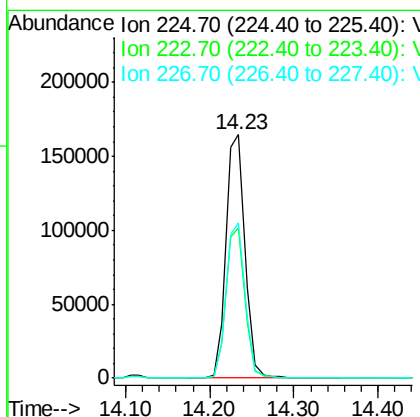
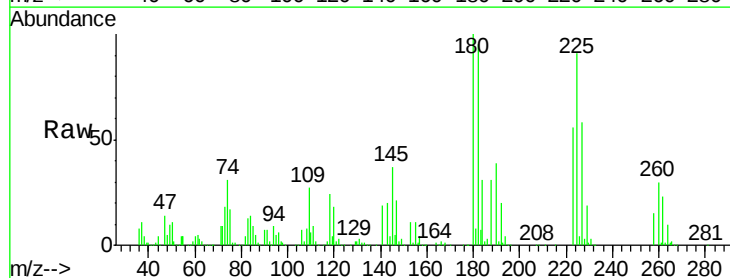
Manual Integrations
 APPROVED

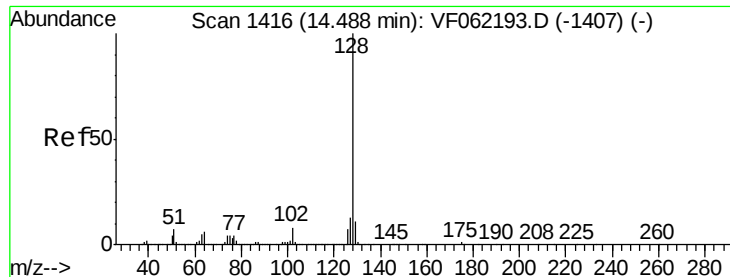
MMDadoda
 4/19/2019 10:52:51 AM



#94
 Hexachlorobutadiene
 Concen: 52.553 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062216.D
 Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	258267		
223	61.8	31.0	93.0	
227	63.6	32.4	97.0	





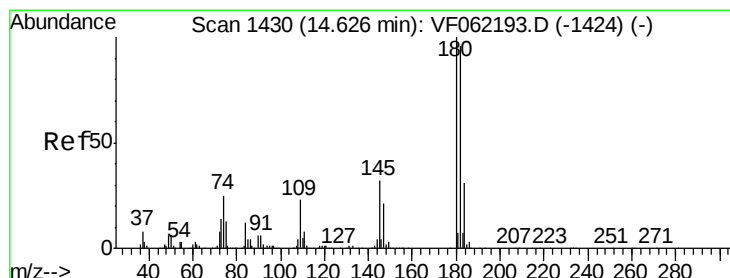
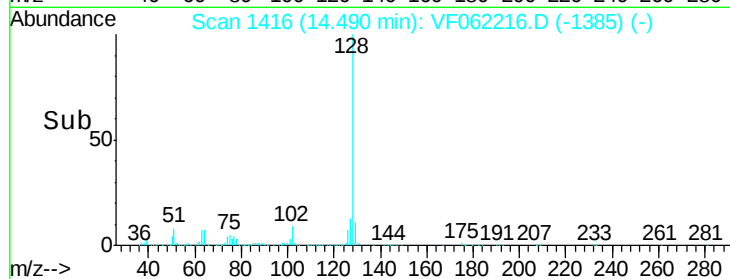
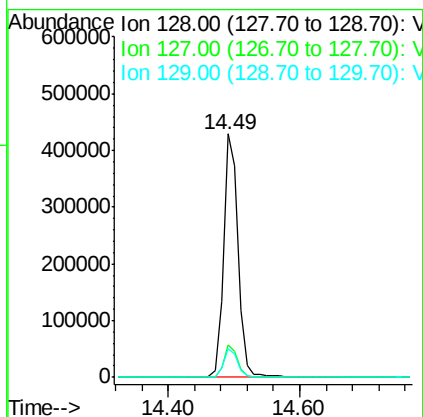
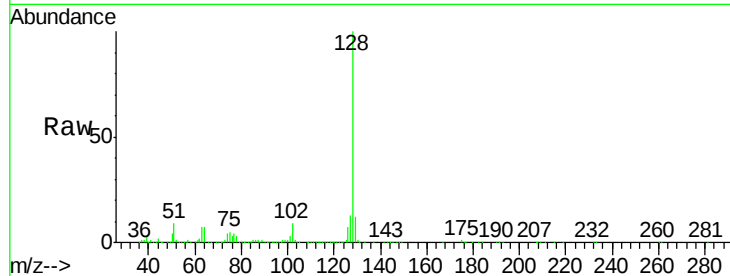
#95
Naphthalene
Concen: 52.441 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
128	100	657177		
127	12.9		10.4	15.6
129	11.4		9.2	13.8

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:51 AM



#96
1,2,3-Trichlorobenzene
Concen: 52.116 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.01 min
Lab File: VF062216.D
Acq: 18 Apr 2019 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	358590		
182	98.0		48.4	145.3
145	30.4		15.6	46.8

