

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042419\
 Data File : VF062286.D
 Acq On : 24 Apr 2019 17:42
 Operator : FY/SY
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ICSVF042419

Manual Integrations
 APPROVED

MMDadoda
 4/26/2019 9:21:03 AM

Quant Time: Apr 25 08:53:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	461715	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.78	114	638943	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.92	117	471080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	259208	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	194868	52.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.20%	
35) Dibromofluoromethane	4.32	113	235973	49.81	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.62%	
50) Toluene-d8	7.72	98	575169	49.70	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.40%	
62) 4-Bromofluorobenzene	11.50	95	228196	47.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	279238	50.892	ug/l	97
3) Chloromethane	1.15	50	239570	51.828	ug/l	95
4) Vinyl Chloride	1.19	62	224719	51.332	ug/l	97
5) Bromomethane	1.40	94	156049	52.489	ug/l	93
6) Chloroethane	1.44	64	106206	55.342	ug/l	99
7) Trichlorofluoromethane	1.56	101	373119	53.636	ug/l	92
8) Diethyl Ether	1.72	74	65692	52.126	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.91	101	233991	53.599	ug/l	99
10) Methyl Iodide	1.98	142	396664	51.981	ug/l	100
11) Tert butyl alcohol	2.71	59	59062	261.066	ug/l	97
12) 1,1-Dichloroethene	1.87	96	207223	53.199	ug/l	93
13) Acrolein	2.11	56	53465	252.000	ug/l	99
14) Allyl chloride	2.20	41	202610	47.794	ug/l #	68
15) Acrylonitrile	3.10	53	154128	245.976	ug/l	97
16) Acetone	2.36	43	250935	299.674	ug/l	96
17) Carbon Disulfide	1.92	76	527983	51.502	ug/l	100
18) Methyl Acetate	2.46	43	87269	56.432	ug/l	99
19) Methyl tert-butyl Ether	2.55	73	402797	54.241	ug/l	99
20) Methylene Chloride	2.34	84	186311m	52.361	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	195249	50.721	ug/l	95
22) Diisopropyl ether	2.94	45	598732	52.464	ug/l	99
23) Vinyl Acetate	3.35	43	1384672	273.613	ug/l	100
24) 1,1-Dichloroethane	3.02	63	337904	51.876	ug/l	99
25) 2-Butanone	4.53	43	361411	272.202	ug/l	99
26) 2,2-Dichloropropane	3.78	77	171467	50.691	ug/l	99
27) cis-1,2-Dichloroethene	3.66	96	259961	53.327	ug/l	96
28) Bromochloromethane	3.91	49	135449	49.346	ug/l #	100
29) Tetrahydrofuran	4.28	42	147941	253.584	ug/l	98
30) Chloroform	4.06	83	446729	54.618	ug/l	99
31) Cyclohexane	3.88	56	330276	53.288	ug/l	97
32) 1,1,1-Trichloroethane	4.29	97	269088	41.903	ug/l #	60
36) 1,1-Dichloropropene	4.48	75	310507	52.675	ug/l	97
37) Ethyl Acetate	4.32	43	129234	52.112	ug/l #	78
38) Carbon Tetrachloride	4.19	117	288029m	48.064	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042419\
 Data File : VF062286.D
 Acq On : 24 Apr 2019 17:42
 Operator : FY/SY
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 ICSVF042419

Manual Integrations
 APPROVED

MMDadoda
 4/26/2019 9:21:03 AM

Quant Time: Apr 25 08:53:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	354332	51.492	ug/l	97
40) Benzene	4.83	78	780704	54.817	ug/l	99
41) Methacrylonitrile	4.94	41	76651	55.636	ug/l	98
42) 1,2-Dichloroethane	5.14	62	255393	56.604	ug/l	99
43) Isopropyl Acetate	7.12	43	131694	51.830	ug/l #	99
44) Trichloroethene	5.69	130	242095	50.242	ug/l	96
45) 1,2-Dichloropropane	6.42	63	172837	53.825	ug/l	96
46) Dibromomethane	6.27	93	125893	54.295	ug/l	98
47) Bromodichloromethane	6.56	83	297668	54.609	ug/l	96
48) Methyl methacrylate	6.88	41	94857	52.208	ug/l	99
49) 1,4-Dioxane	6.88	88	22034	1053.175	ug/l	91
51) 4-Methyl-2-Pentanone	8.41	43	501896	256.858	ug/l	100
52) Toluene	7.79	92	410249	49.920	ug/l	98
53) t-1,3-Dichloropropene	8.43	75	211866	52.858	ug/l	96
54) cis-1,3-Dichloropropene	7.46	75	264725	51.555	ug/l	99
55) 1,1,2-Trichloroethane	8.64	97	124173	53.201	ug/l	95
56) Ethyl methacrylate	8.76	69	134509	52.457	ug/l	98
57) 1,3-Dichloropropane	9.00	76	184155	50.181	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.45	63	186919	239.560	ug/l	97
59) 2-Hexanone	9.63	43	329892	278.185	ug/l	98
60) Dibromochloromethane	8.86	129	200906	53.035	ug/l	97
61) 1,2-Dibromoethane	9.14	107	143741	53.210	ug/l	96
64) Tetrachloroethene	8.31	164	206562	52.424	ug/l	98
65) Chlorobenzene	9.94	112	462714	53.751	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.06	131	210833	51.996	ug/l	99
67) Ethyl Benzene	10.03	91	769227	51.399	ug/l	97
68) m/p-Xylenes	10.26	106	577747	103.689	ug/l	98
69) o-Xylene	10.82	106	323270	51.930	ug/l	99
70) Styrene	10.89	104	437133	48.576	ug/l	100
71) Bromoform	10.88	173	115175	50.462	ug/l #	97
73) Isopropylbenzene	11.22	105	937099	52.766	ug/l	96
74) N-amyl acetate	11.45	43	193152	47.203	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.77	83	153449	54.385	ug/l	98
76) 1,2,3-Trichloropropane	11.88	75	103667	51.785	ug/l #	100
77) Bromobenzene	11.58	156	231322	52.103	ug/l	99
78) n-propylbenzene	11.68	91	929707	49.752	ug/l	100
79) 2-Chlorotoluene	11.80	91	597730	53.104	ug/l	100
80) 1,3,5-Trimethylbenzene	11.90	105	772533	51.528	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	47195m	52.742	ug/l	
82) 4-Chlorotoluene	11.98	91	559358	50.222	ug/l	98
83) tert-Butylbenzene	12.20	119	829956	53.941	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	737675	50.802	ug/l	99
85) sec-Butylbenzene	12.37	105	1037932	54.160	ug/l	100
86) p-Isopropyltoluene	12.52	119	899197	52.335	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	397281	50.579	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	385877	51.814	ug/l	99
89) n-Butylbenzene	12.90	91	806245	51.644	ug/l	99
90) Hexachloroethane	12.98	117	239805	55.680	ug/l	98
91) 1,2-Dichlorobenzene	13.00	146	390872	51.842	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	31786	55.843	ug/l	83

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF042419\
 Data File : VF062286.D
 Acq On : 24 Apr 2019 17:42
 Operator : FY/SY
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF042419

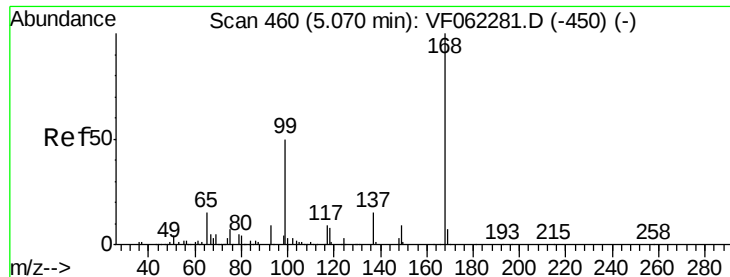
Manual Integrations
 APPROVED

MMDadoda
 4/26/2019 9:21:03 AM

Quant Time: Apr 25 08:53:08 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F042419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 25 08:40:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	344201	51.965	ug/l	99
94) Hexachlorobutadiene	14.23	225	258681	54.304	ug/l	100
95) Naphthalene	14.50	128	561855	54.753	ug/l	100
96) 1,2,3-Trichlorobenzene	14.64	180	338850	54.090	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. -0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion:168 Resp: 461715

Ion Ratio Lower Upper

168 100

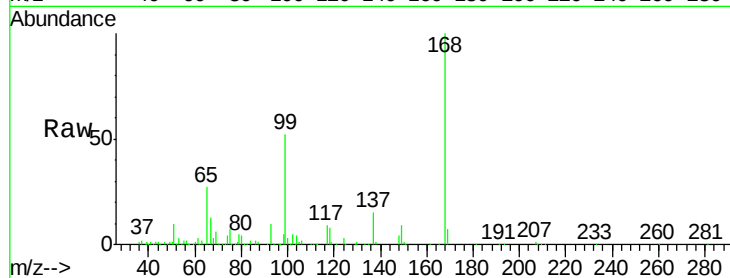
99 51.5 40.0 60.0

Manual Integrations

APPROVED

MMDadoda

4/26/2019 9:21:03 AM



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

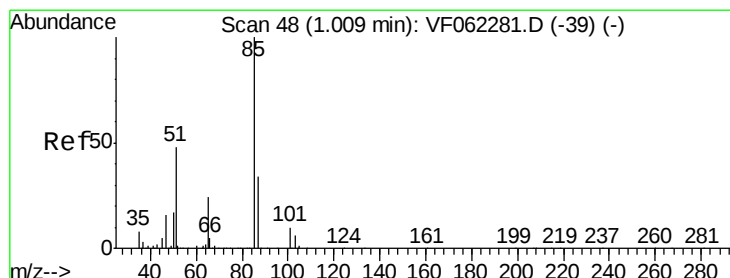
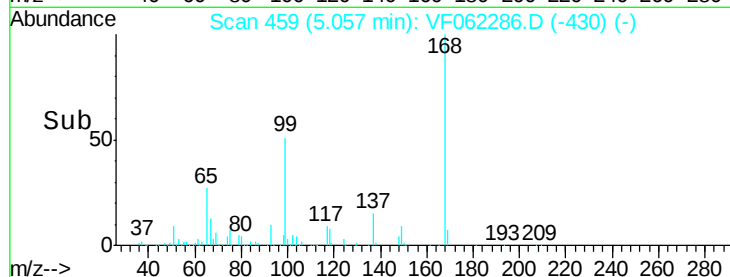
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 50.892 ug/l

RT: 1.01 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062286.D

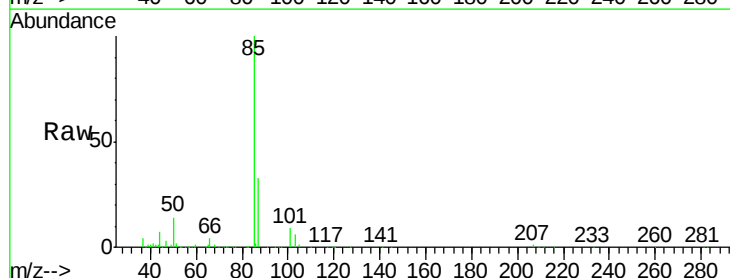
Acq: 24 Apr 2019 17:42

Tgt Ion: 85 Resp: 279238

Ion Ratio Lower Upper

85 100

87 32.6 17.1 51.3



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.01

80000

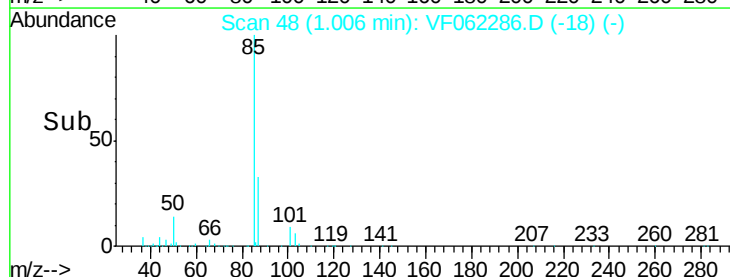
60000

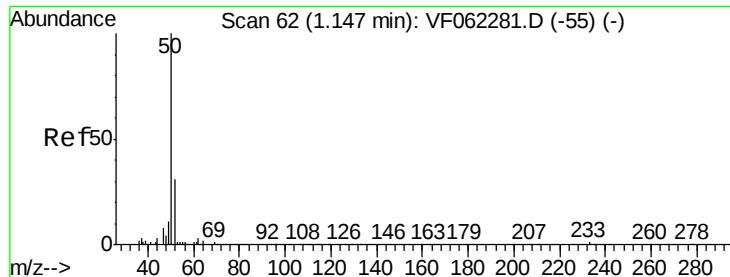
40000

20000

0

Time-->





#3

Chloromethane

Concen: 51.828 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 50 Resp: 239570

Ion Ratio Lower Upper

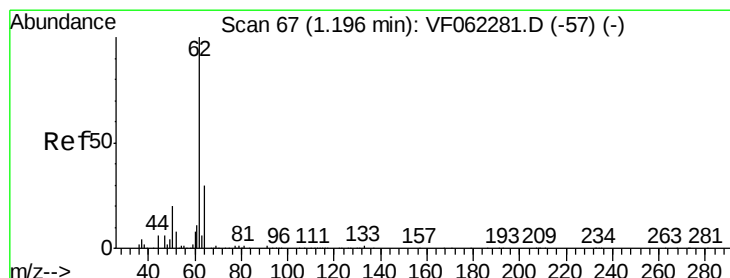
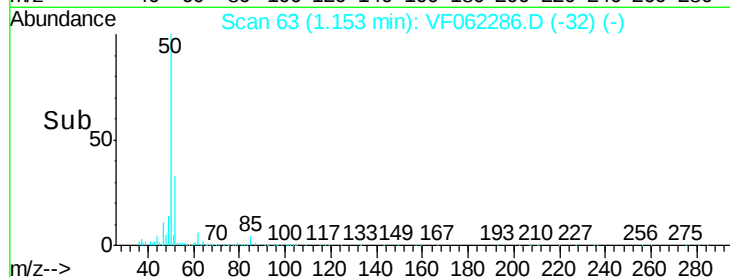
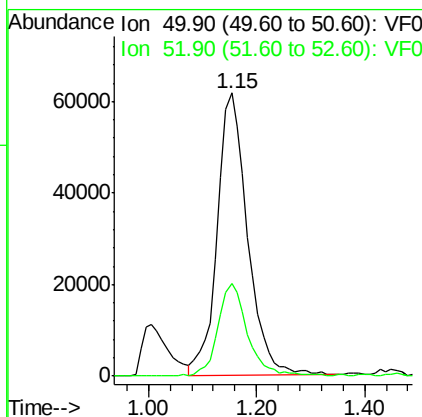
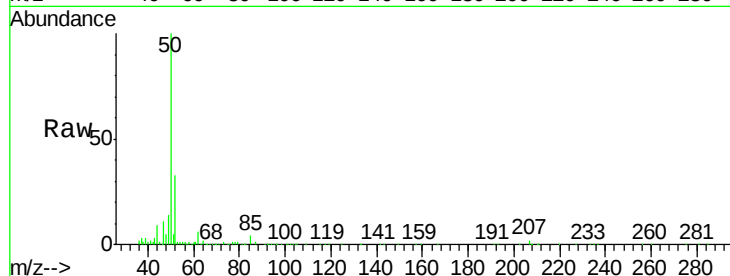
50 100

52 32.9 24.2 36.4

Manual Integrations
APPROVED

MMDadoda

4/26/2019 9:21:03 AM



#4

Vinyl Chloride

Concen: 51.332 ug/l

RT: 1.19 min Scan# 67

Delta R.T. -0.00 min

Lab File: VF062286.D

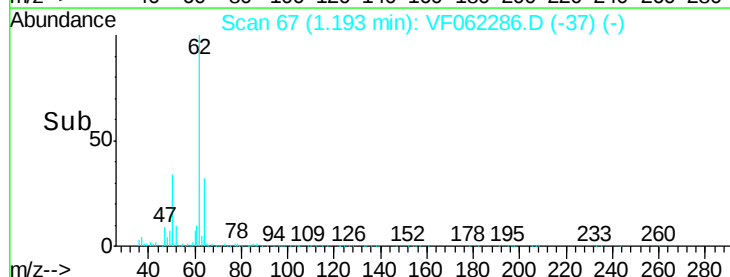
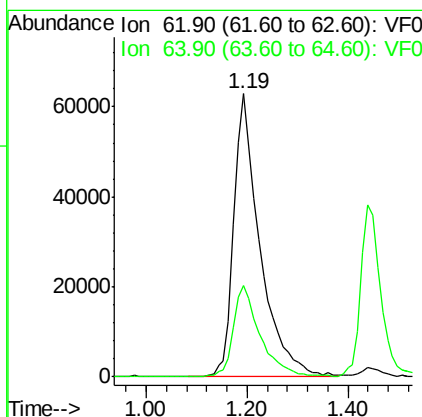
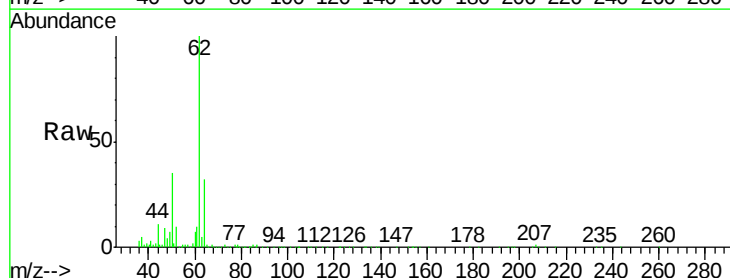
Acq: 24 Apr 2019 17:42

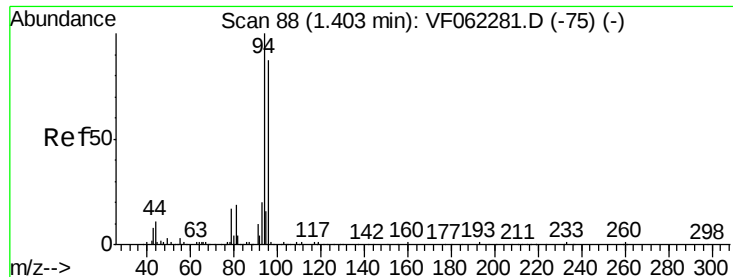
Tgt Ion: 62 Resp: 224719

Ion Ratio Lower Upper

62 100

64 32.1 24.3 36.5





#5

Bromomethane

Concen: 52.489 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 94 Resp: 156049

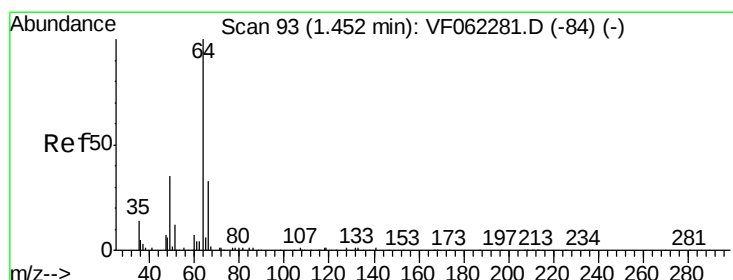
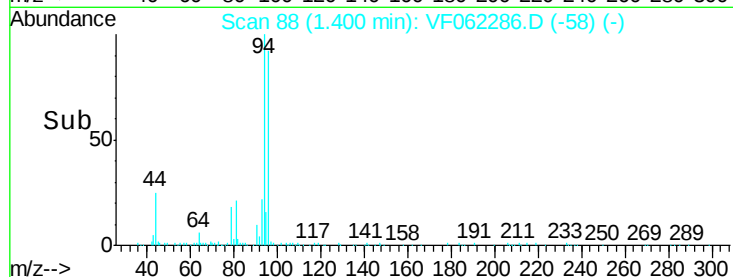
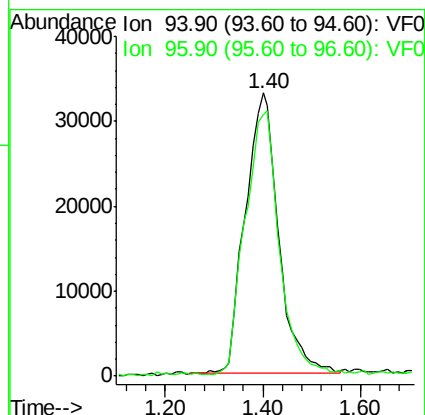
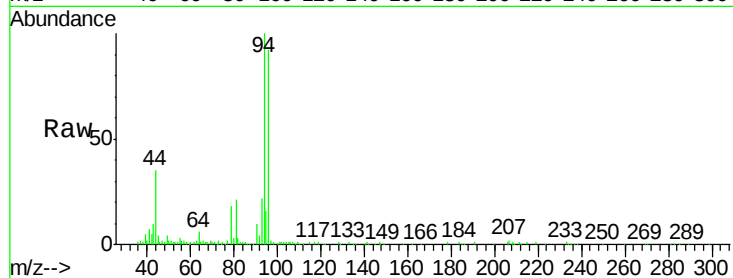
Ion Ratio Lower Upper

94 100

96 93.0 69.5 104.3

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#6

Chloroethane

Concen: 55.342 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062286.D

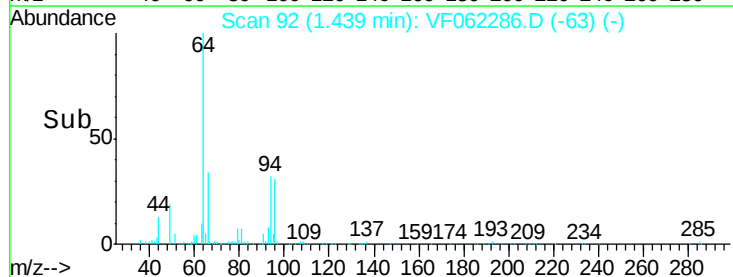
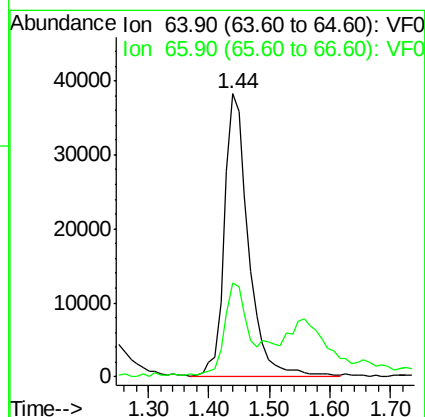
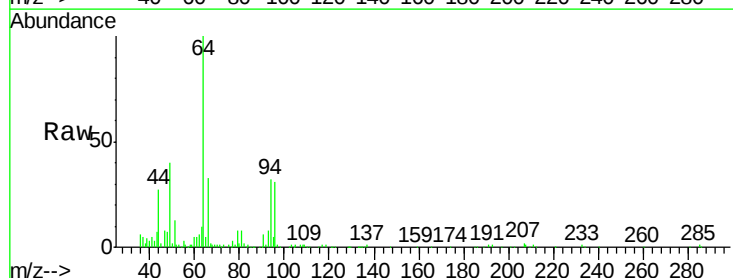
Acq: 24 Apr 2019 17:42

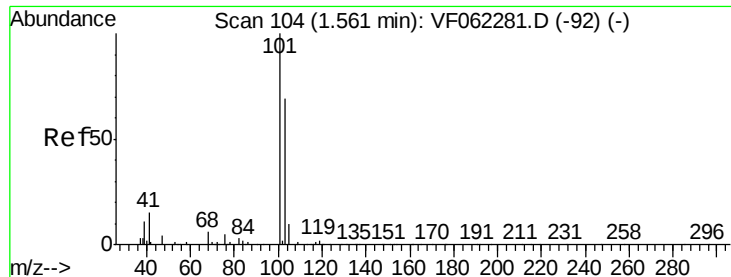
Tgt Ion: 64 Resp: 106206

Ion Ratio Lower Upper

64 100

66 32.2 26.0 39.0





#7

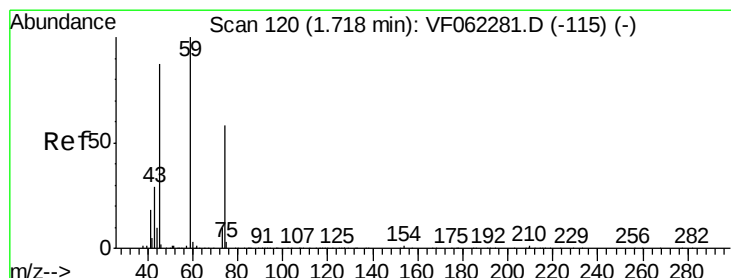
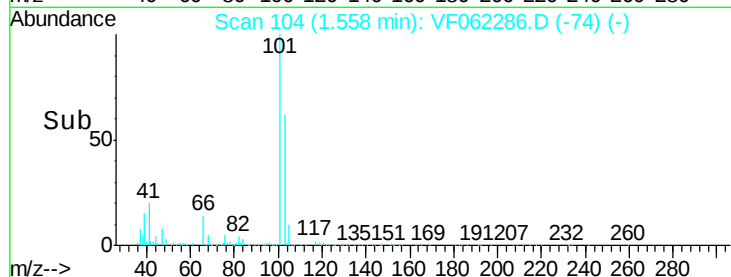
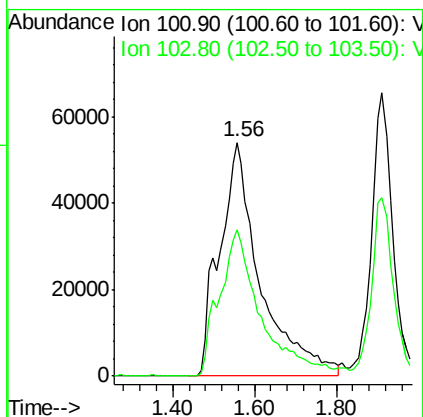
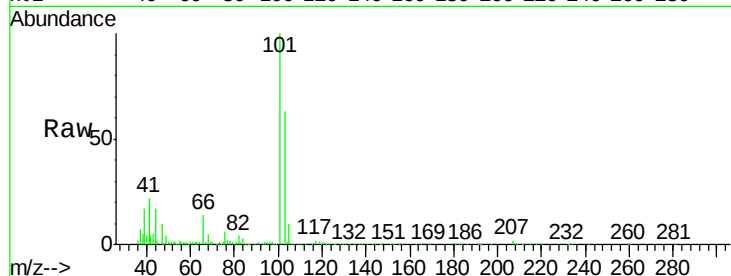
Trichlorofluoromethane
Concen: 53.636 ug/l
RT: 1.56 min Scan# 104
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.2	55.0	82.6

Manual Integrations
APPROVED

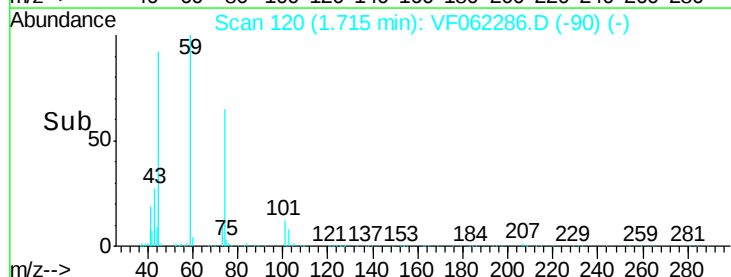
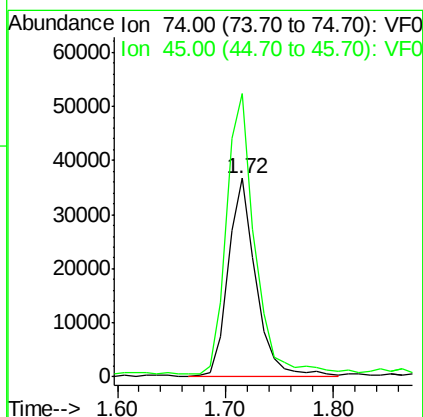
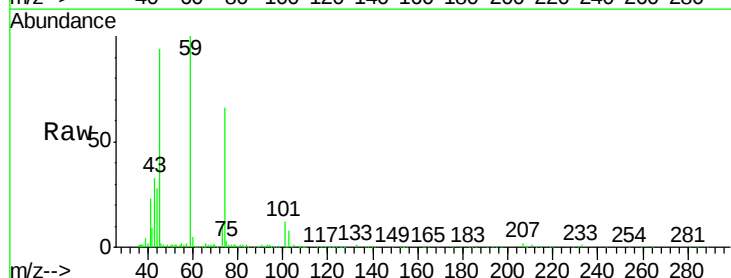
MMDadoda
4/26/2019 9:21:03 AM

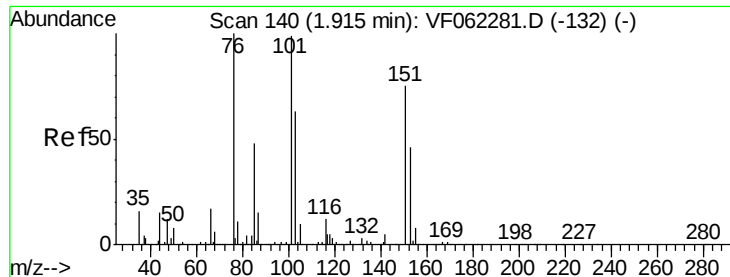


#8

Diethyl Ether
Concen: 52.126 ug/l
RT: 1.72 min Scan# 120
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
74	100		
45	142.5	74.0	222.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.599 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

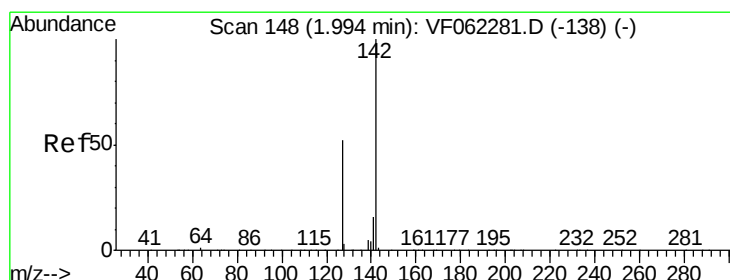
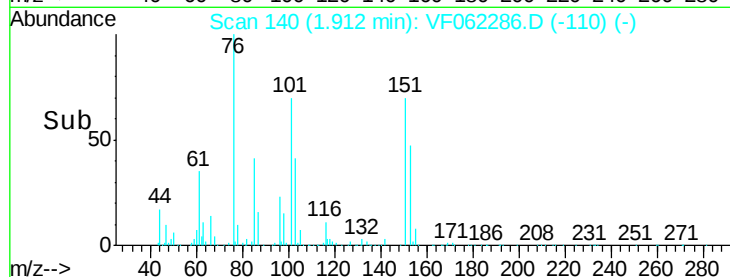
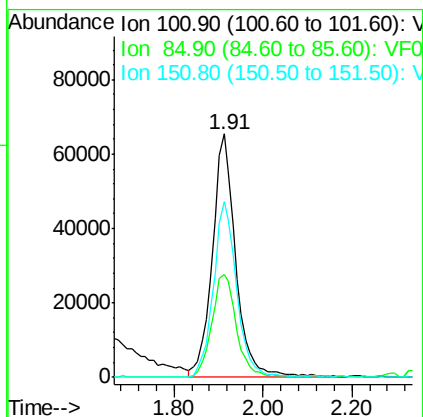
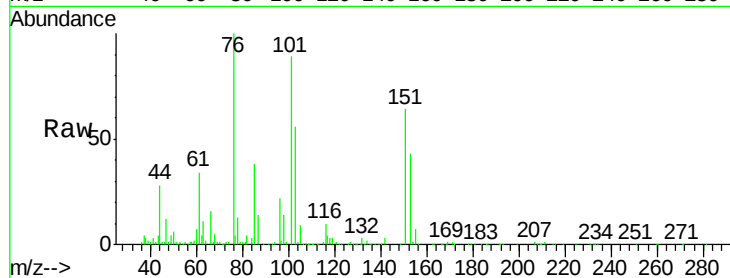
ClientSampleId :

ICVVF042419

Tot Ion:	101	Resp:	233991
Ion Ratio	Lower	Upper	
101	100		
85	45.4	36.5	54.7
151	73.0	59.2	88.8

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#10

Methyl Iodide

Concen: 51.981 ug/l

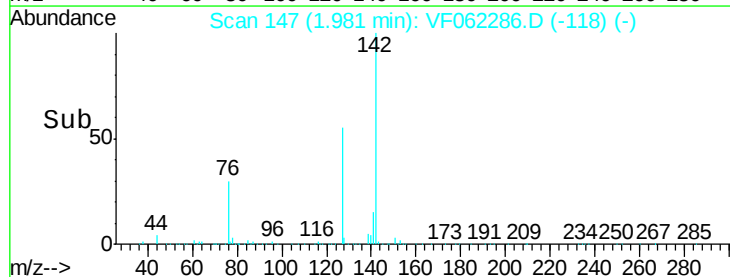
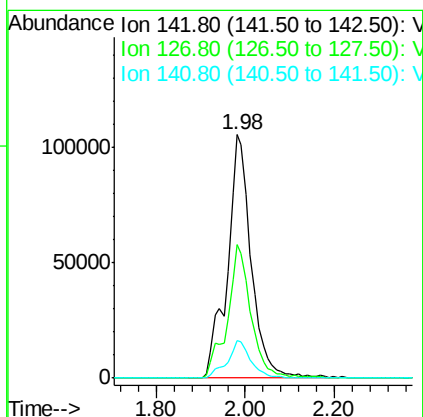
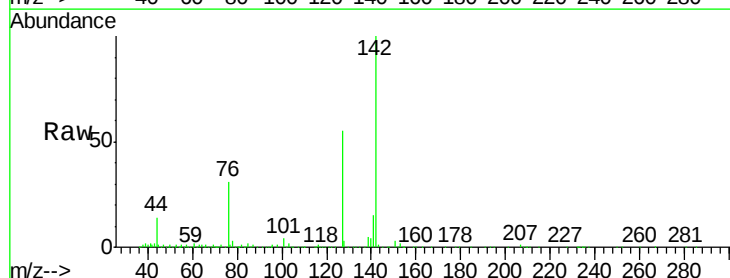
RT: 1.98 min Scan# 147

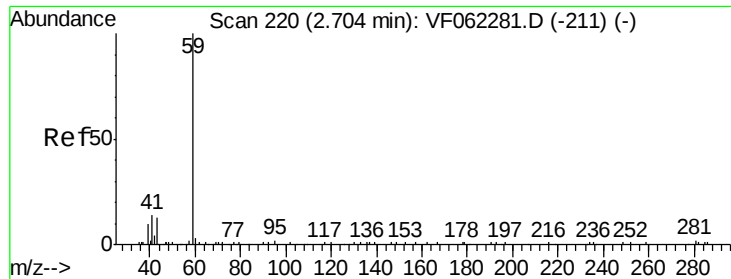
Delta R.T. -0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	142	Resp:	396664
Ion Ratio	Lower	Upper	
142	100		
127	53.7	43.0	64.4
141	14.7	12.3	18.5





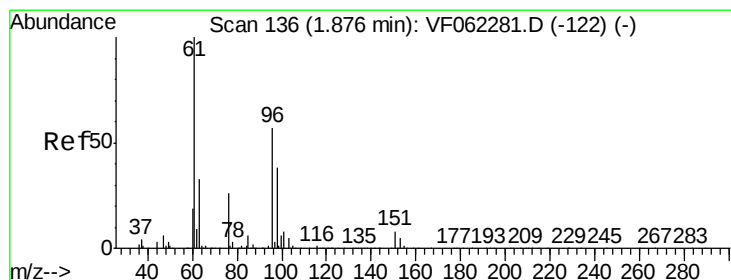
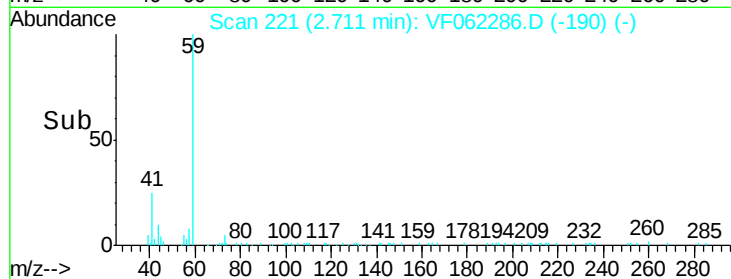
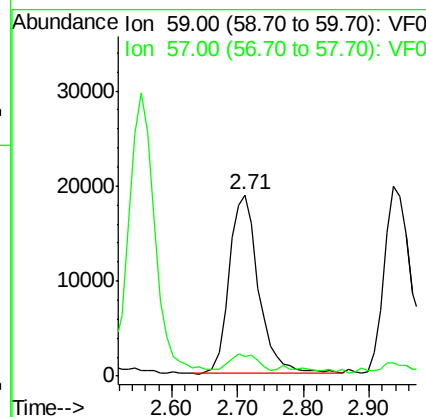
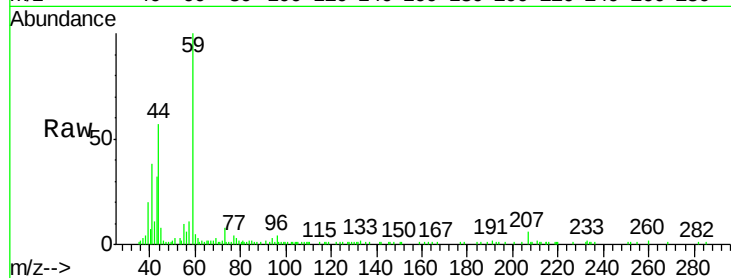
#11
Tert butyl alcohol
Concen: 261.066 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.01 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.8	13.2

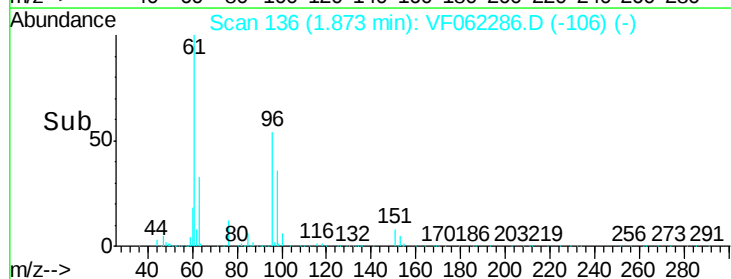
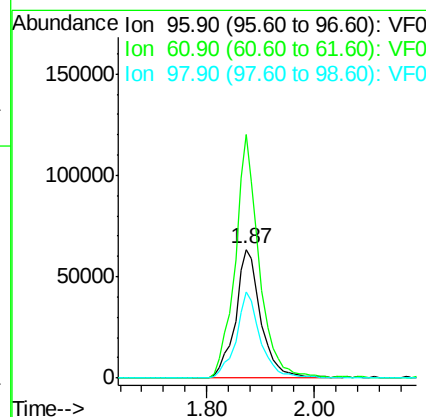
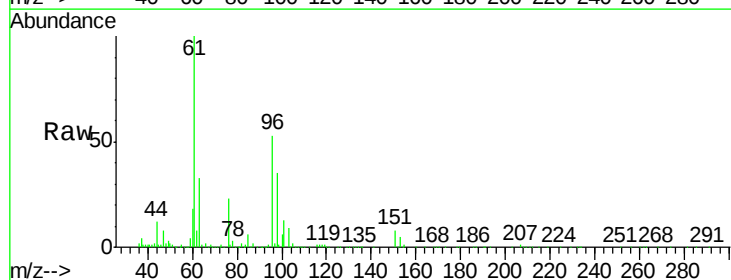
Manual Integrations
APPROVED

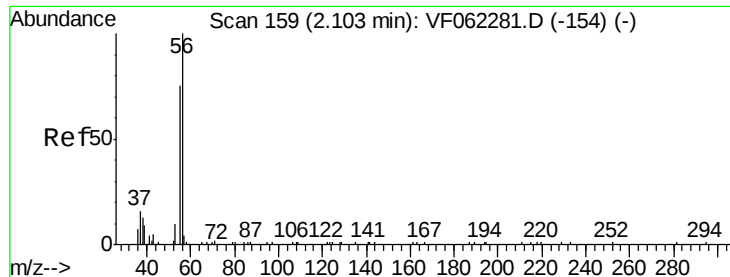
MMDadoda
4/26/2019 9:21:03 AM



#12
1,1-Dichloroethene
Concen: 53.199 ug/l
RT: 1.87 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
96	100		
61	189.4	141.1	211.7
98	66.5	53.4	80.0





#13

Acrolein

Concen: 252.000 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 56 Resp: 53465

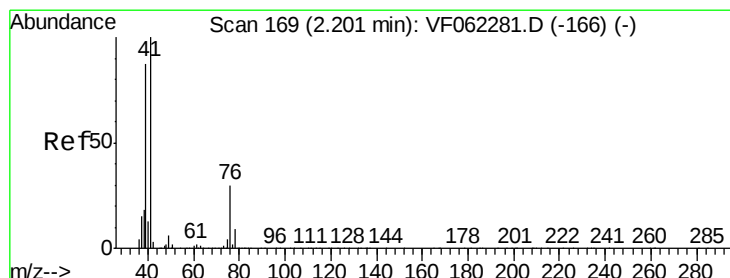
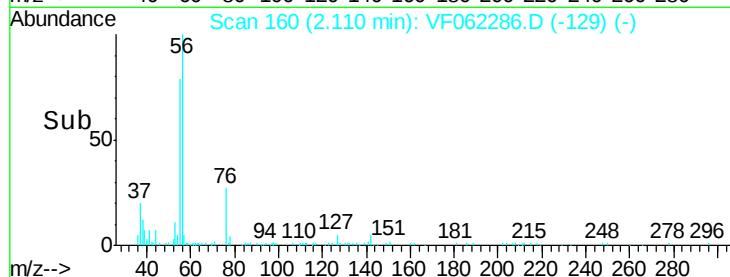
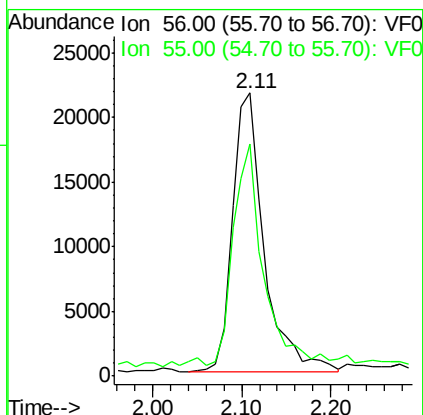
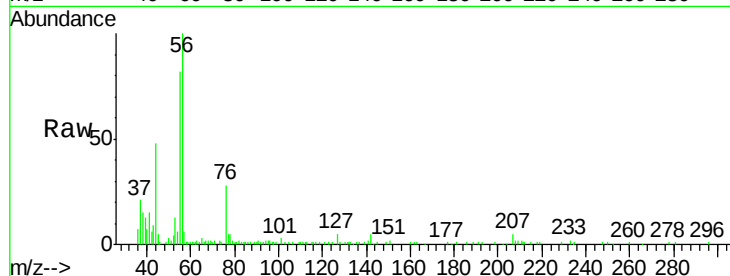
Ion Ratio Lower Upper

56 100

55 78.5 62.3 93.5

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#14

Allyl chloride

Concen: 47.794 ug/l

RT: 2.20 min Scan# 169

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

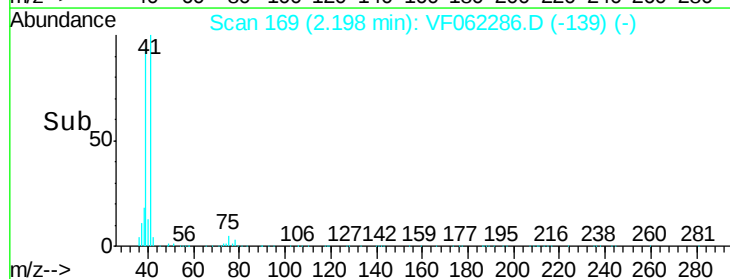
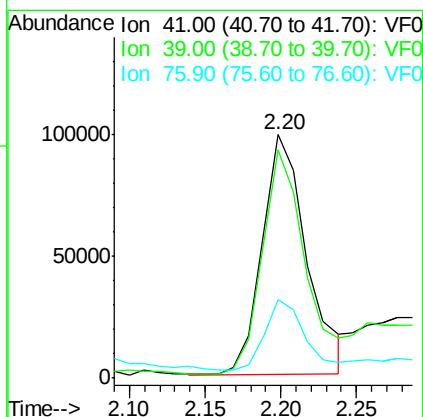
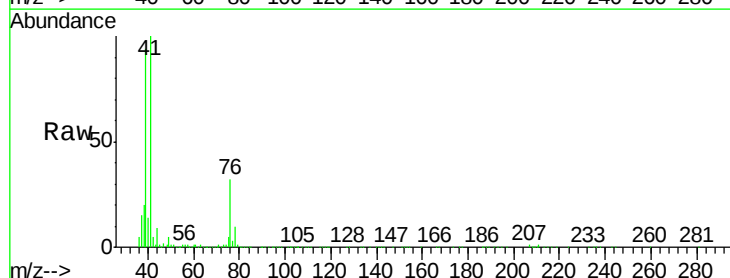
Tgt Ion: 41 Resp: 202610

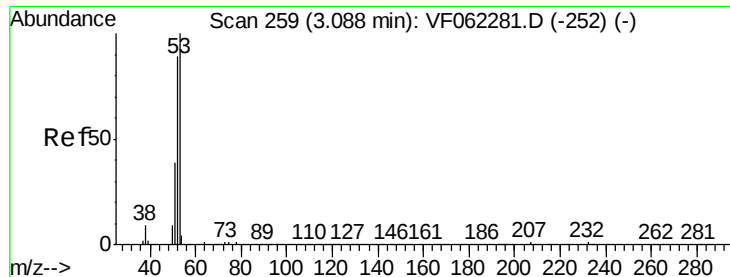
Ion Ratio Lower Upper

41 100

39 91.0 50.3 75.5#

76 26.2 14.8 22.2#





#15

Acrylonitrile

Concen: 245.976 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

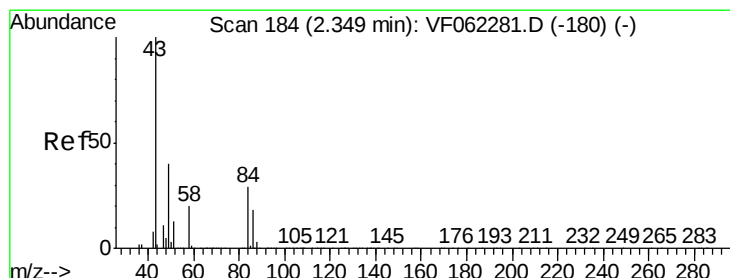
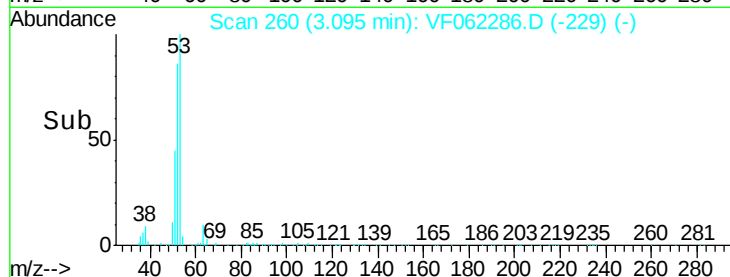
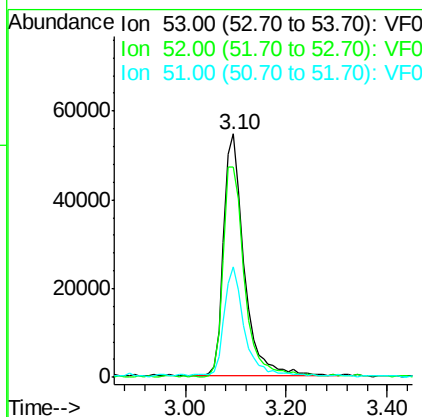
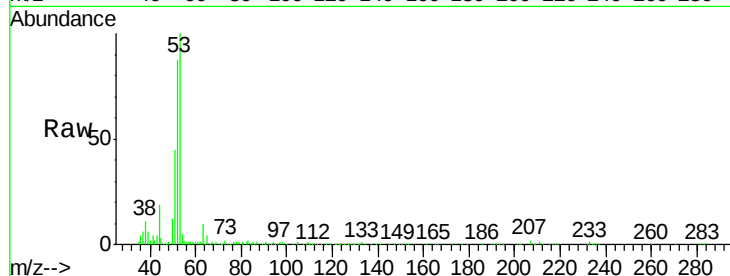
ClientSampleId :

ICVVF042419

Tot Ion:	53	Resp:	154128
Ion Ratio		Lower	Upper
53	100		
52	89.5	70.6	105.8
51	43.8	32.6	48.8

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#16

Acetone

Concen: 299.674 ug/l

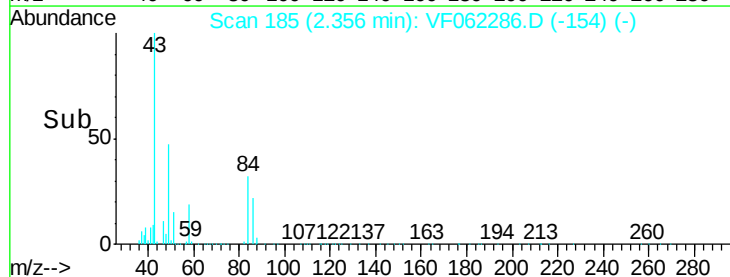
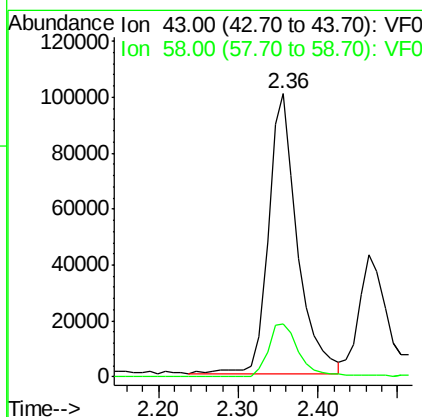
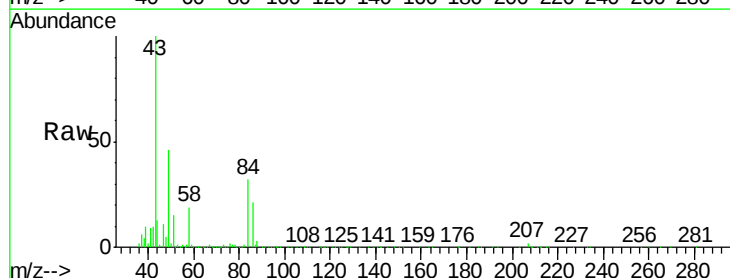
RT: 2.36 min Scan# 185

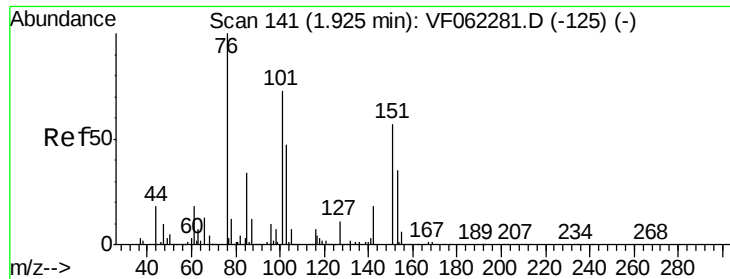
Delta R.T. 0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	43	Resp:	250935
Ion Ratio		Lower	Upper
43	100		
58	18.9	16.4	24.6





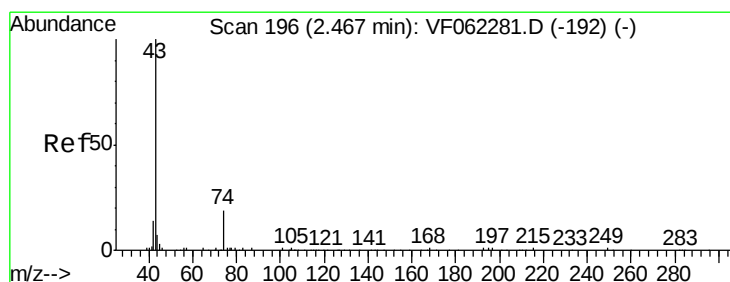
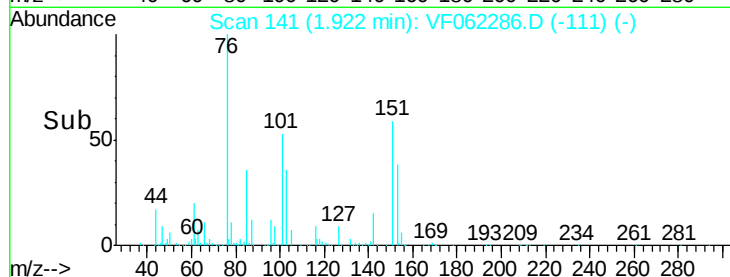
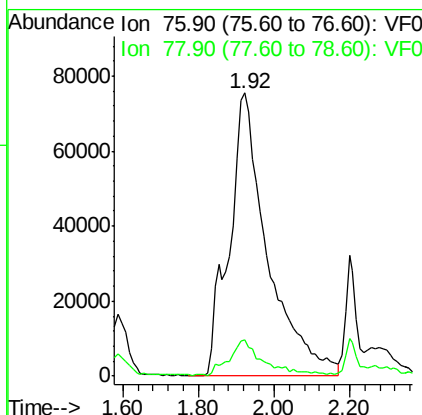
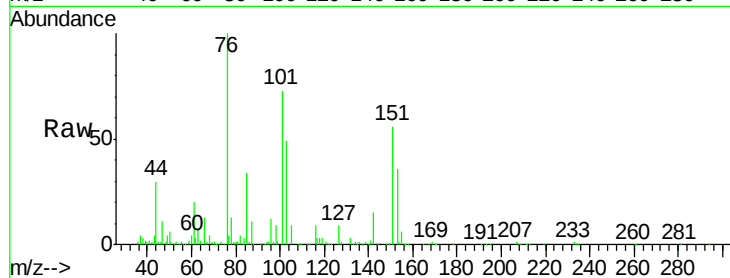
#17
Carbon Disulfide
Concen: 51.502 ug/l
RT: 1.92 min Scan# 141
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.3	9.8	14.8

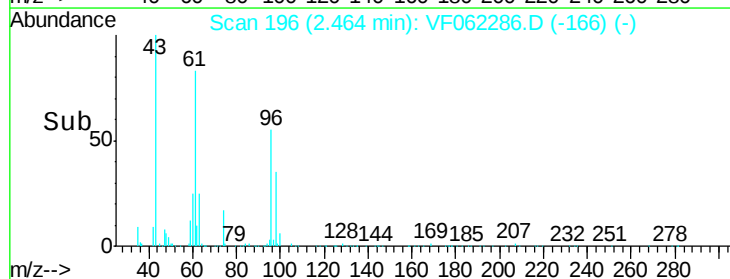
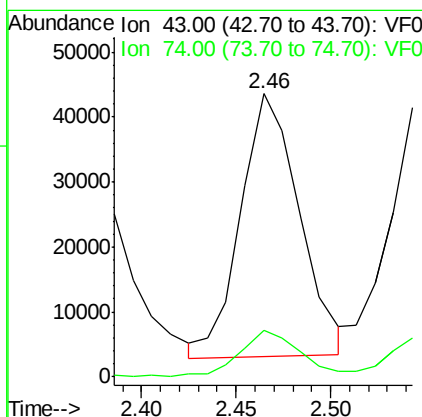
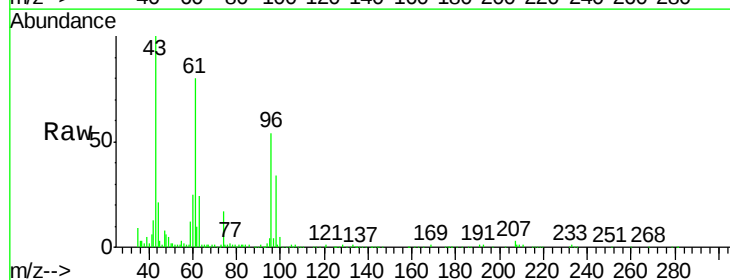
Manual Integrations
APPROVED

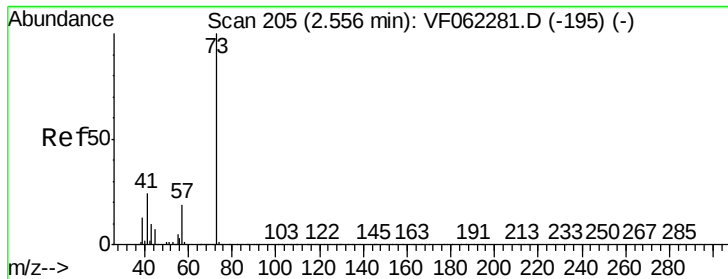
MMDadoda
4/26/2019 9:21:03 AM



#18
Methyl Acetate
Concen: 56.432 ug/l
RT: 2.46 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
43	100		
74	17.6	14.4	21.6





#19

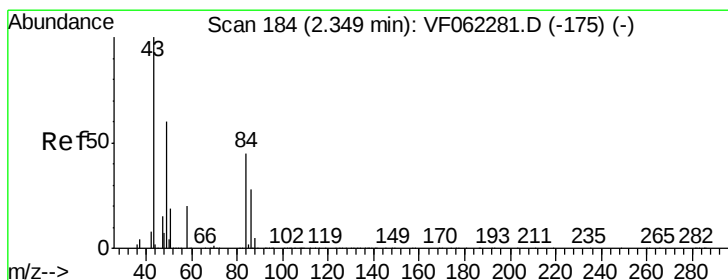
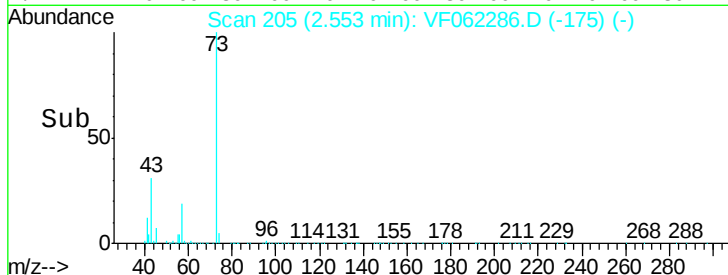
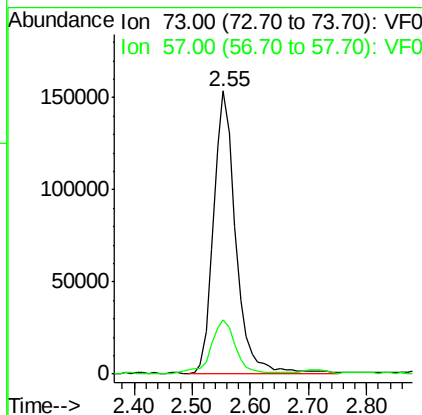
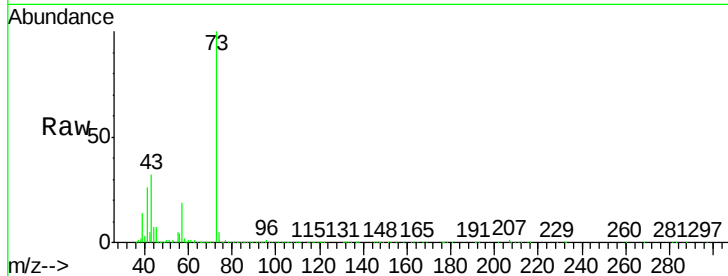
Methyl tert-butyl Ether
 Concen: 54.241 ug/l
 RT: 2.55 min Scan# 205
 Delta R.T. -0.00 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF042419

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.1	15.5	23.3

Manual Integrations
 APPROVED

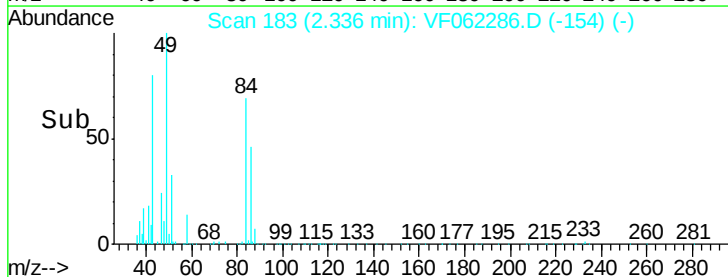
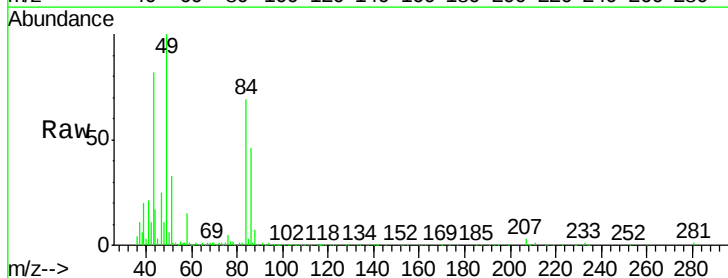
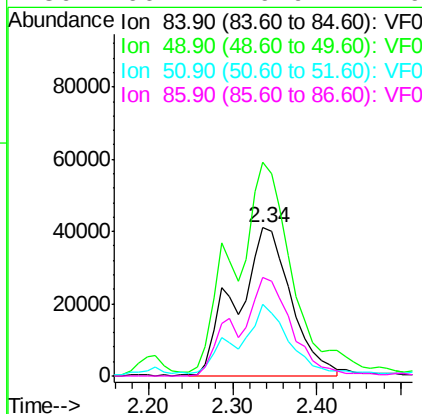
MMDadoda
 4/26/2019 9:21:03 AM

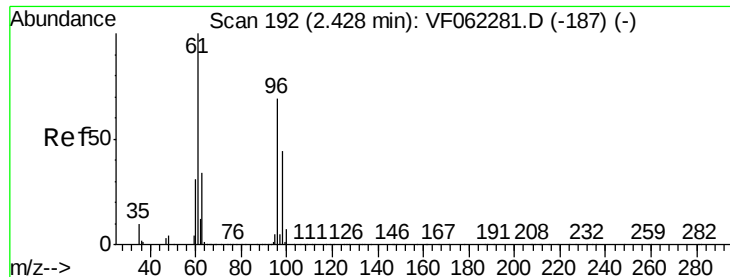


#20

Methylene Chloride
 Concen: 52.361 ug/l m
 RT: 2.34 min Scan# 183
 Delta R.T. -0.01 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.3	112.1	168.1
51	48.3	35.9	53.9
86	66.4	49.9	74.9





#21

trans-1,2-Dichloroethene

Concen: 50.721 ug/l

RT: 2.42 min Scan# 192

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

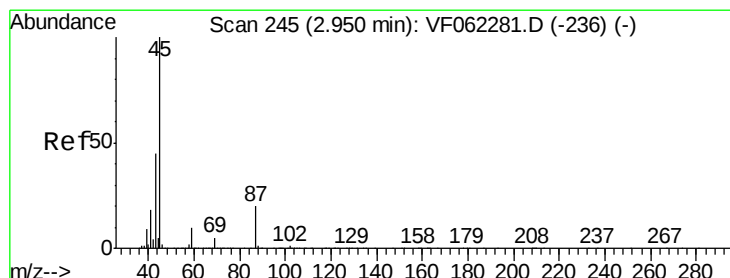
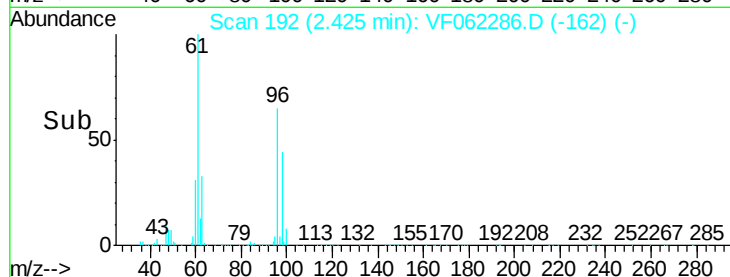
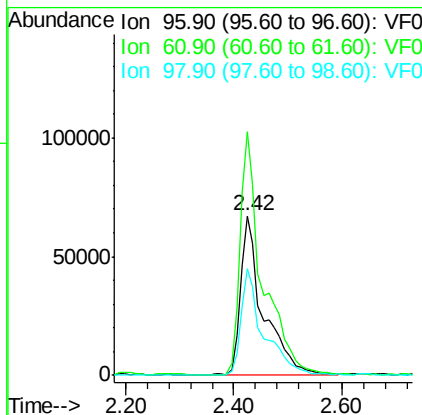
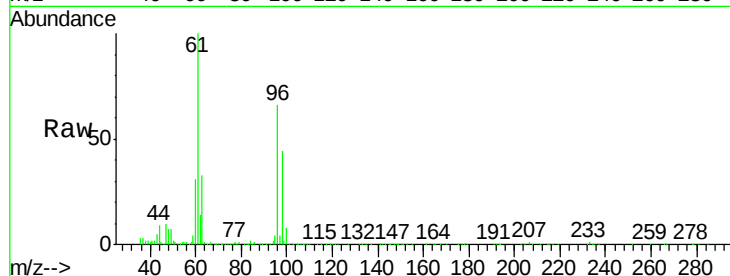
ClientSampleId :

ICVVF042419

Tot Ion:	96	Resp:	195249
Ion	Ratio	Lower	Upper
96	100		
61	152.7	116.2	174.2
98	66.6	51.4	77.0

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#22

Diisopropyl ether

Concen: 52.464 ug/l

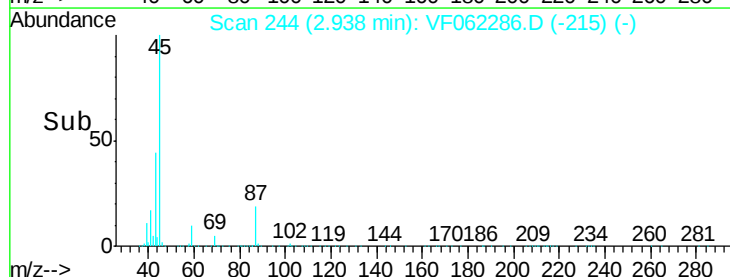
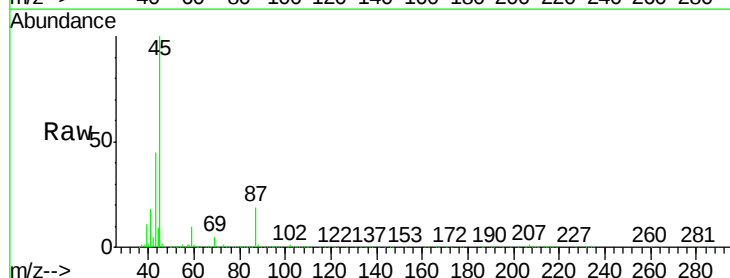
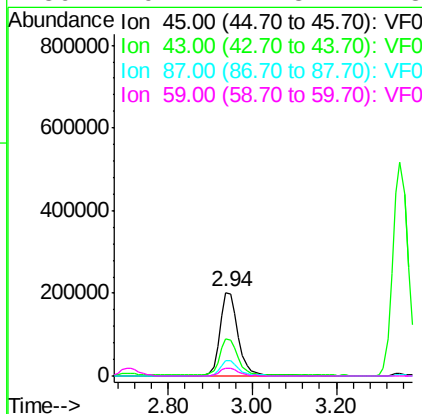
RT: 2.94 min Scan# 244

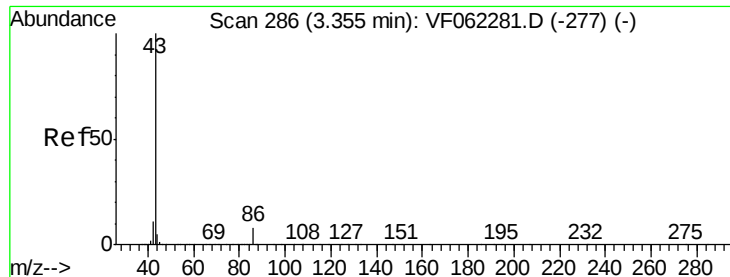
Delta R.T. -0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	45	Resp:	598732
Ion	Ratio	Lower	Upper
45	100		
43	44.4	36.2	54.2
87	18.8	15.8	23.6
59	9.7	7.8	11.8





#23

Vinyl Acetate

Concen: 273.613 ug/l

RT: 3.35 min Scan# 286

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 43 Resp: 1384672

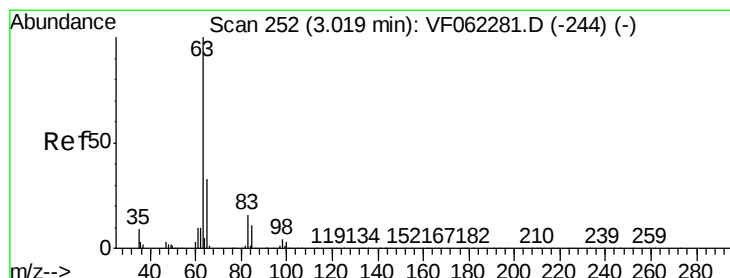
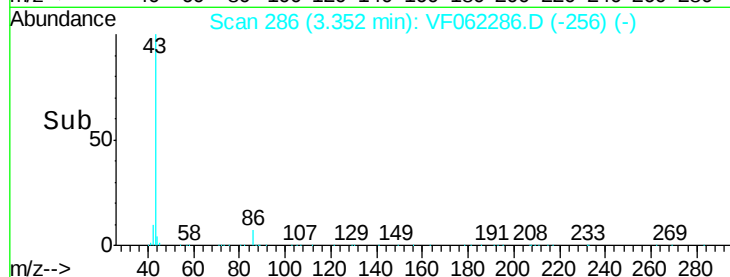
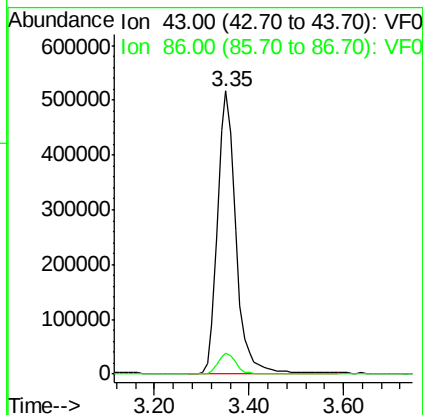
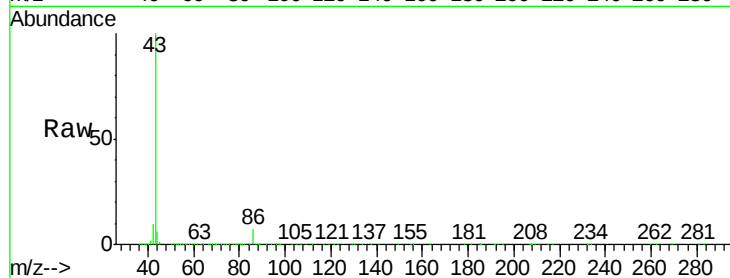
Ion Ratio Lower Upper

43 100

86 7.4 6.0 9.0

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#24

1,1-Dichloroethane

Concen: 51.876 ug/l

RT: 3.02 min Scan# 252

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

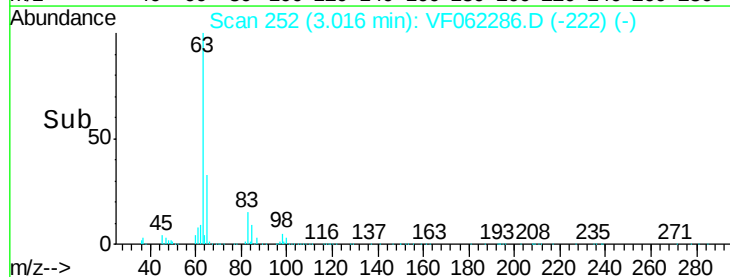
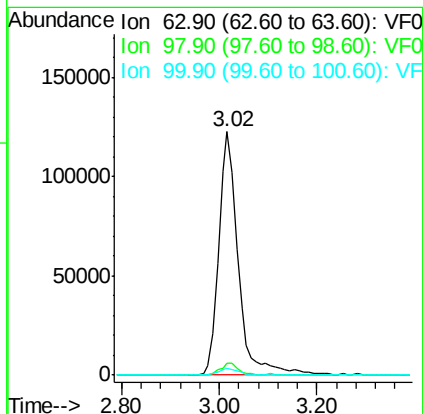
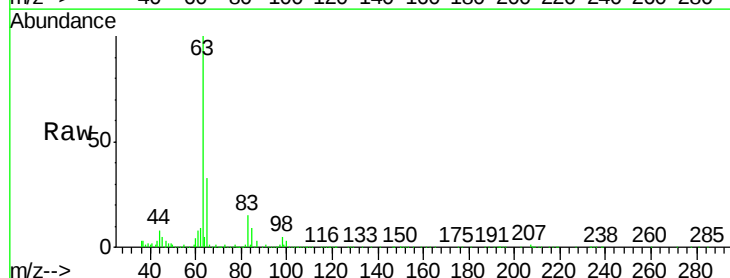
Tgt Ion: 63 Resp: 337904

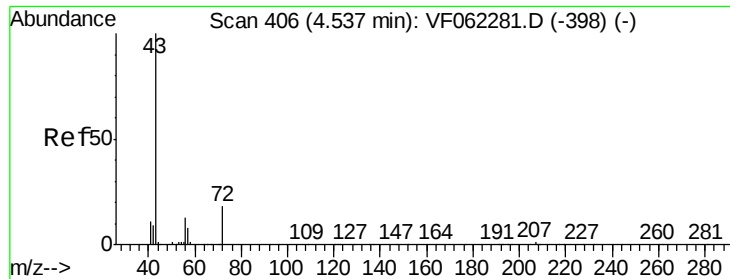
Ion Ratio Lower Upper

63 100

98 4.7 2.1 6.2

100 2.9 1.5 4.5





#25

2-Butanone

Concen: 272.202 ug/l

RT: 4.53 min Scan# 406

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 43 Resp: 361411

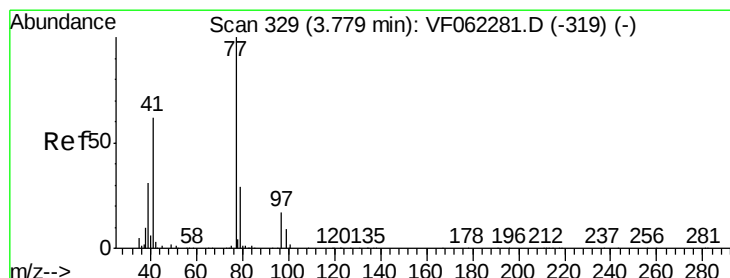
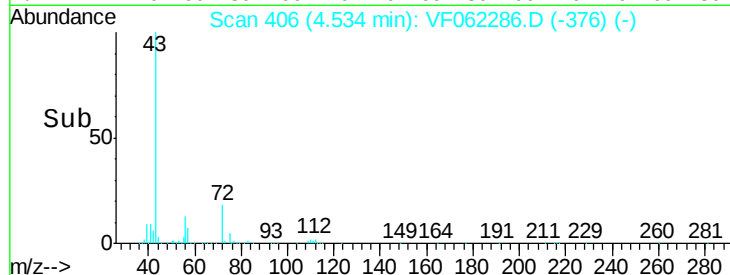
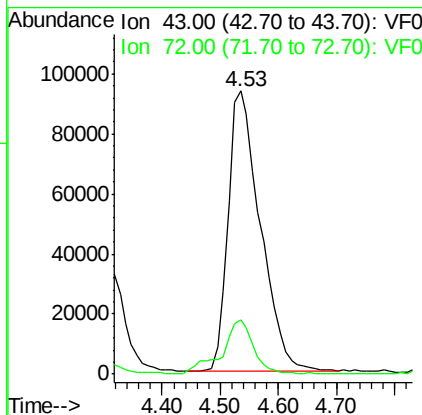
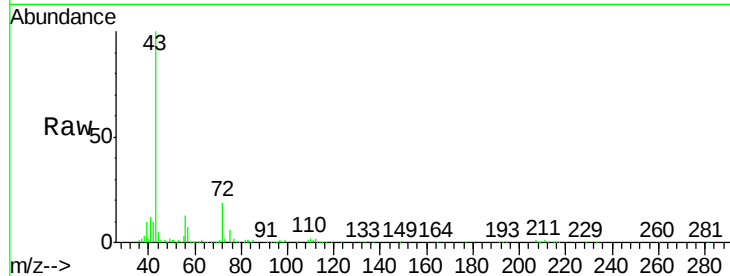
Ion Ratio Lower Upper

43 100

72 19.2 15.8 23.6

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#26

2,2-Dichloropropane

Concen: 50.691 ug/l

RT: 3.78 min Scan# 329

Delta R.T. -0.00 min

Lab File: VF062286.D

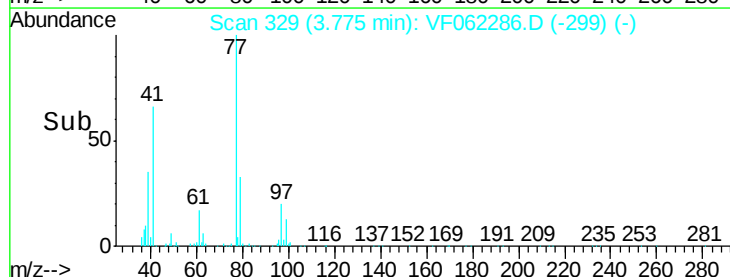
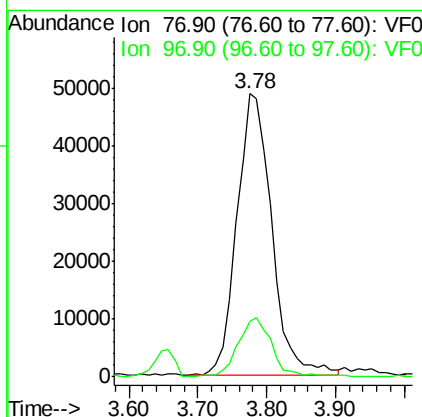
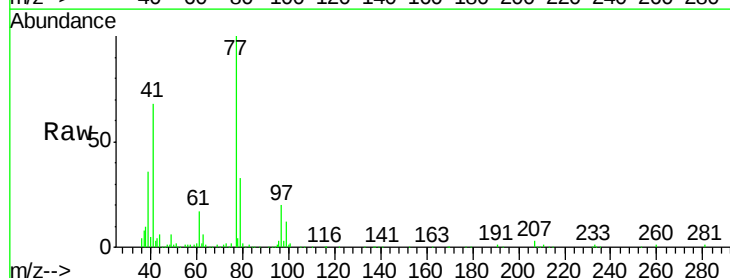
Acq: 24 Apr 2019 17:42

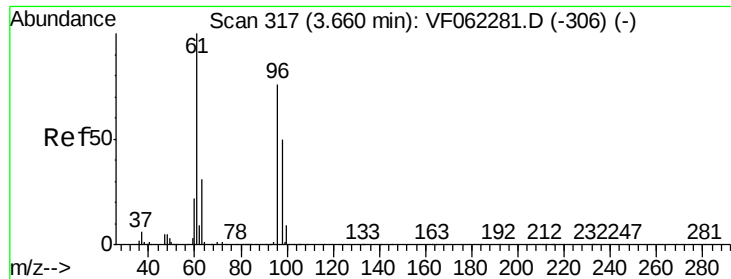
Tgt Ion: 77 Resp: 171467

Ion Ratio Lower Upper

77 100

97 20.8 10.3 30.8





#27

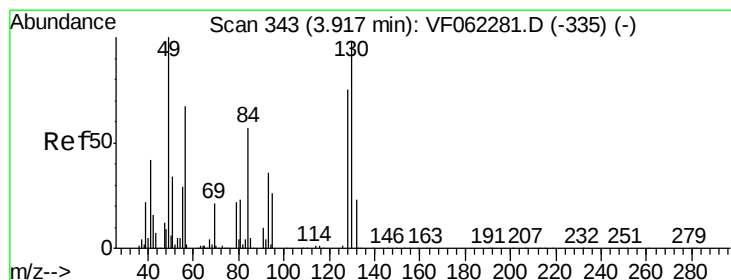
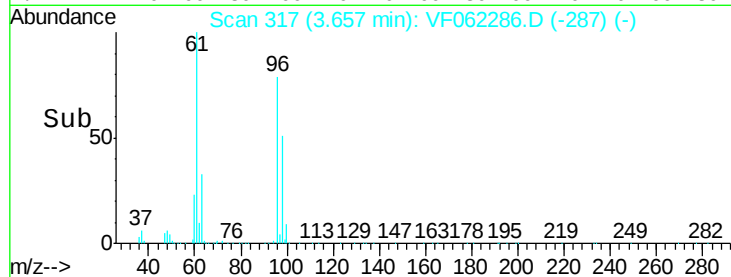
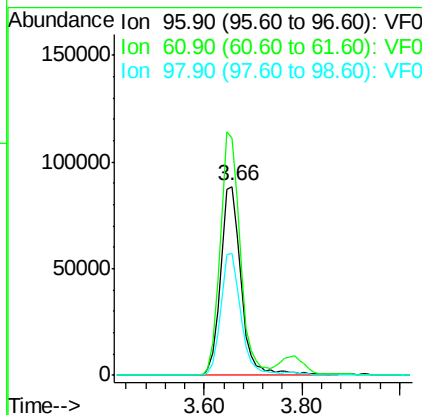
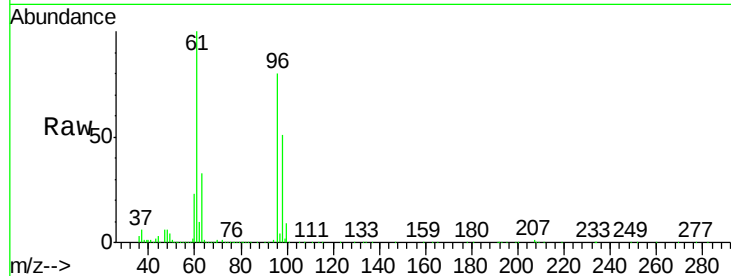
cis-1,2-Dichloroethene
Concen: 53.327 ug/l
RT: 3.66 min Scan# 317
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Resp	Lower	Upper
96	100	259961		
61	125.4		0.0	257.6
98	63.0		0.0	137.4

Manual Integrations
APPROVED

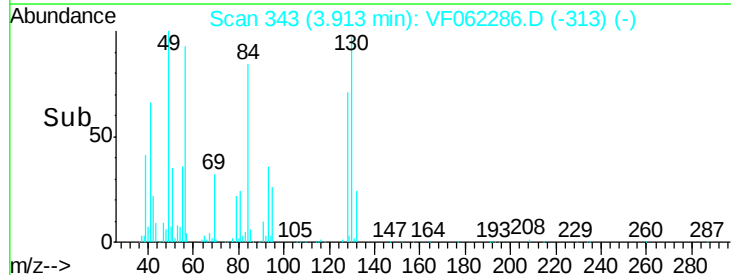
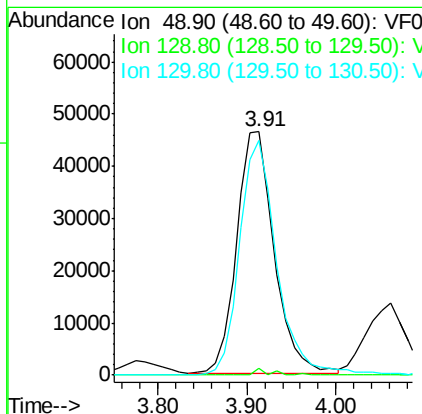
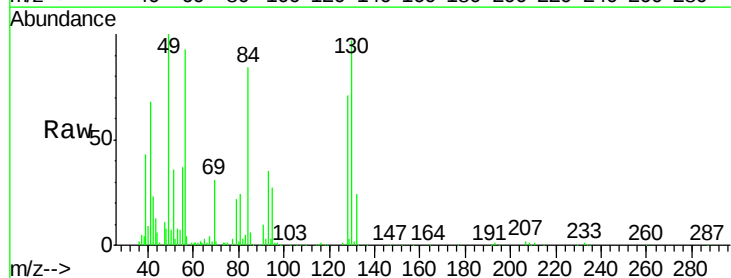
MMDadoda
4/26/2019 9:21:03 AM

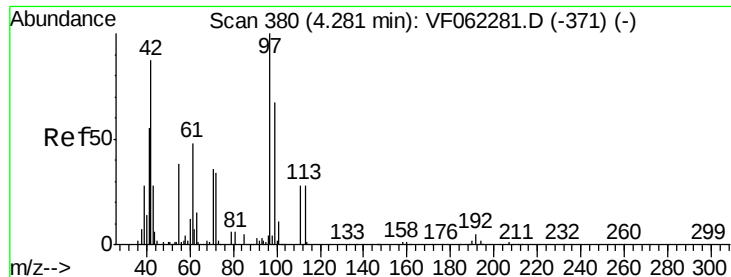


#28

Bromochloromethane
Concen: 49.346 ug/l
RT: 3.91 min Scan# 343
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	135449		
129	0.9		0.0	0.0#
130	96.4		77.0	115.4





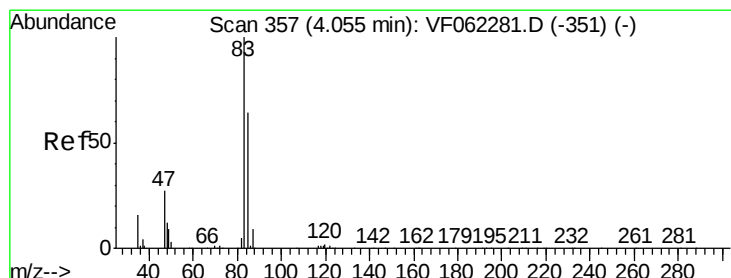
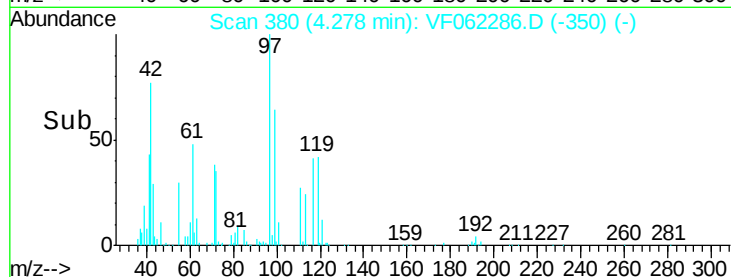
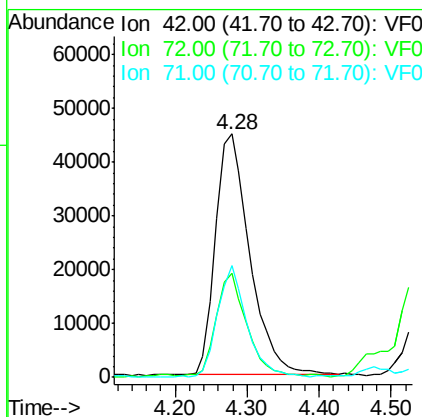
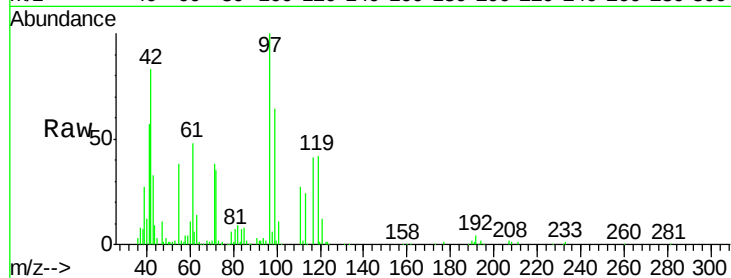
#29
Tetrahydrofuran
Concen: 253.584 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.6	29.3	43.9
71	40.0	31.2	46.8

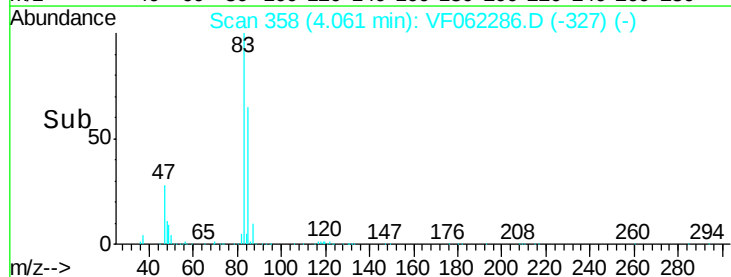
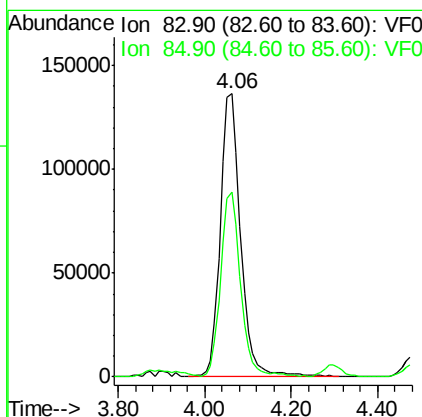
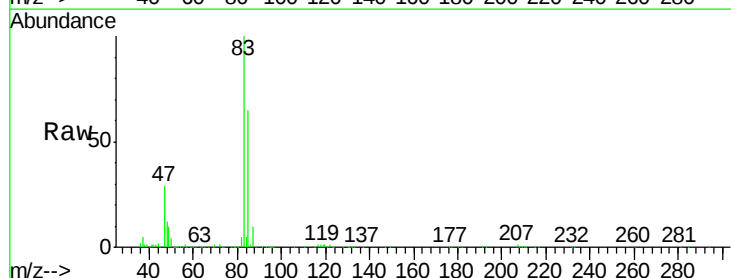
Manual Integrations
APPROVED

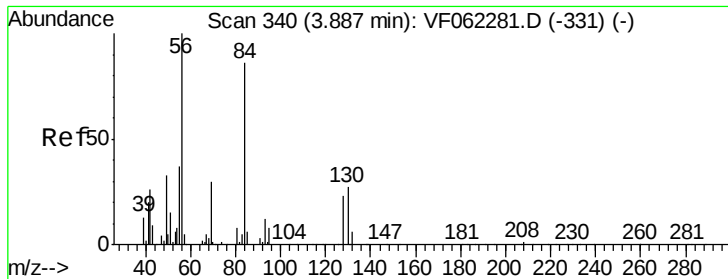
MMDadoda
4/26/2019 9:21:03 AM



#30
Chloroform
Concen: 54.618 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.01 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.1	76.7





#31

Cyclohexane

Concen: 53.288 ug/l

RT: 3.88 min Scan# 340

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

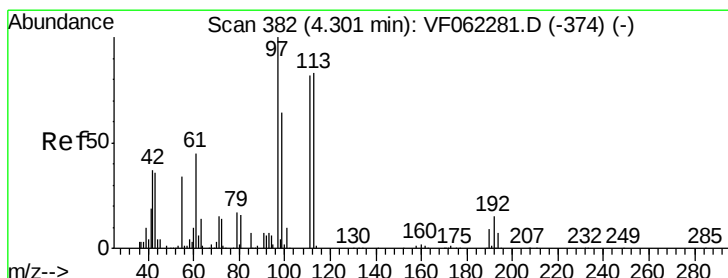
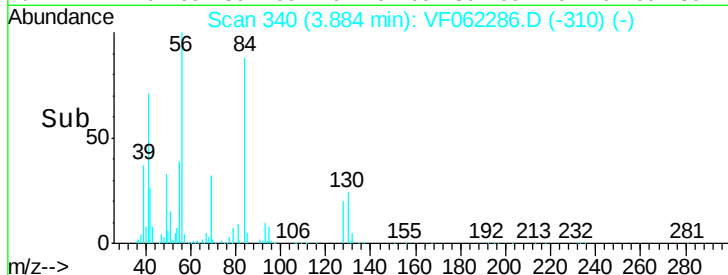
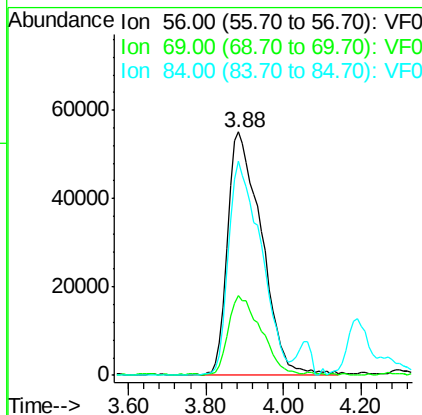
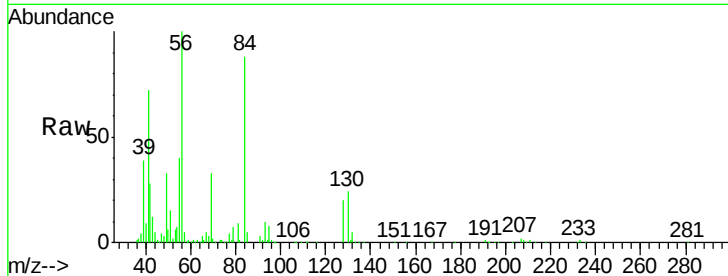
ClientSampleId :

ICVVF042419

Tot Ion:	56	Resp:	330276
Ion Ratio		Lower	Upper
56	100		
69	32.3	24.3	36.5
84	88.4	68.5	102.7

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#32

1,1,1-Trichloroethane

Concen: 41.903 ug/l

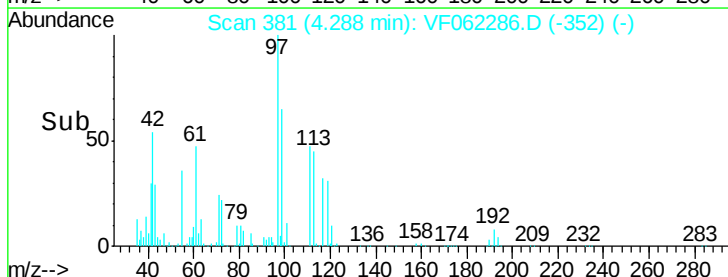
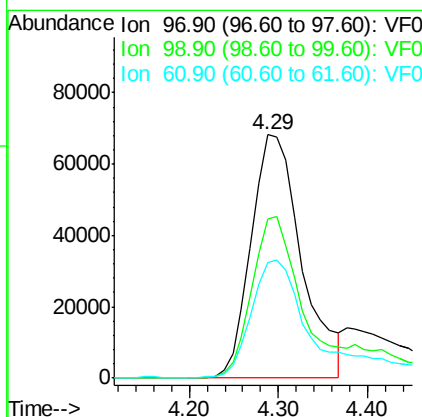
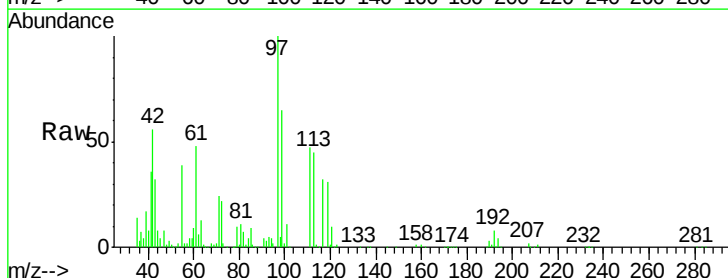
RT: 4.29 min Scan# 381

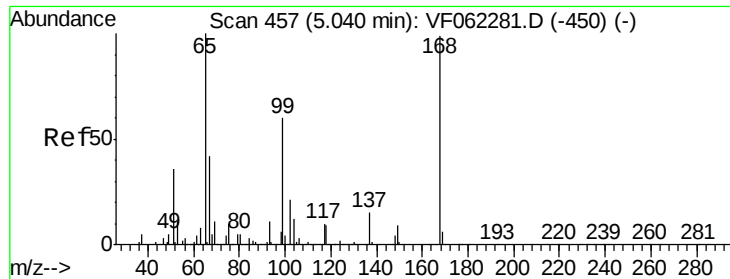
Delta R.T. -0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	97	Resp:	269088
Ion Ratio		Lower	Upper
97	100		
99	80.8	41.6	62.4#
61	63.3	31.6	47.4#





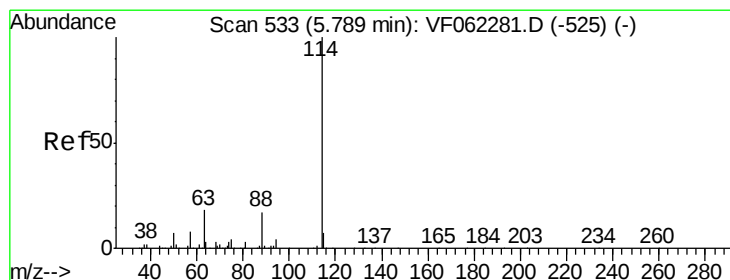
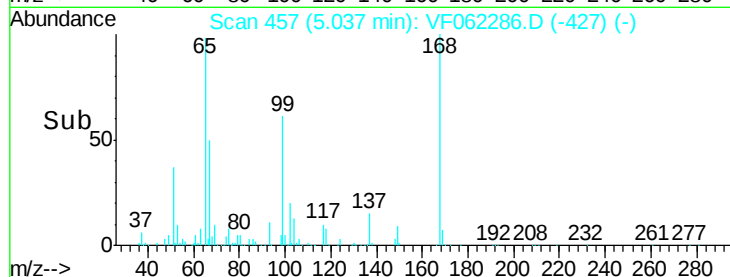
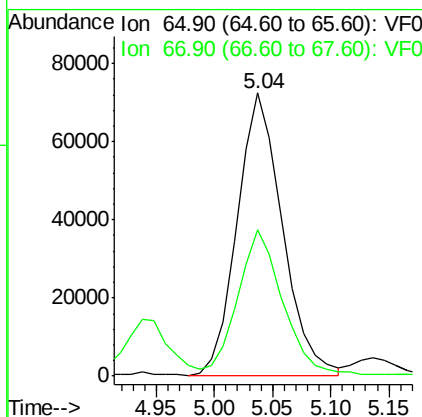
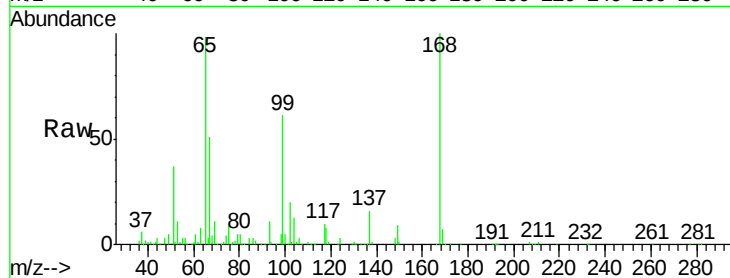
#33
 1,2-Dichloroethane-d4
 Concen: 52.105 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. -0.00 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF042419

Tot Ion	Ratio	Resp	Lower	Upper
65	100	194868		
67	50.4	0.0	98.8	

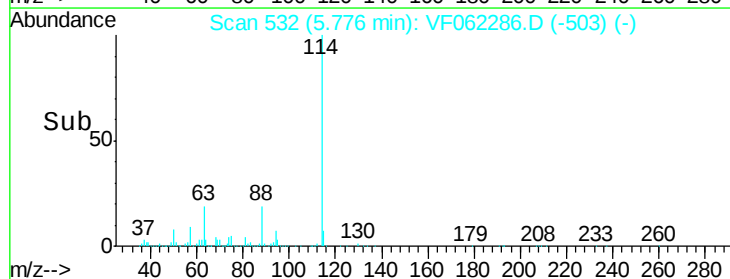
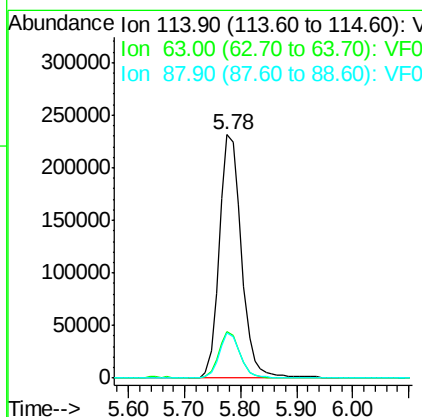
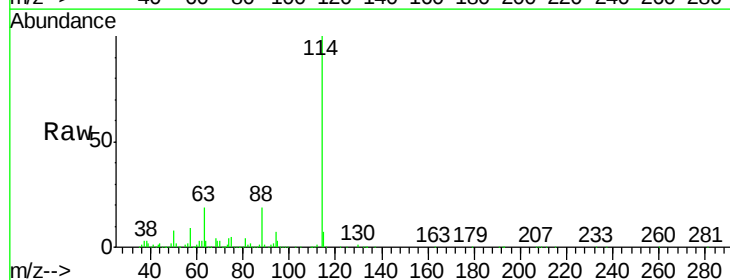
Manual Integrations
 APPROVED

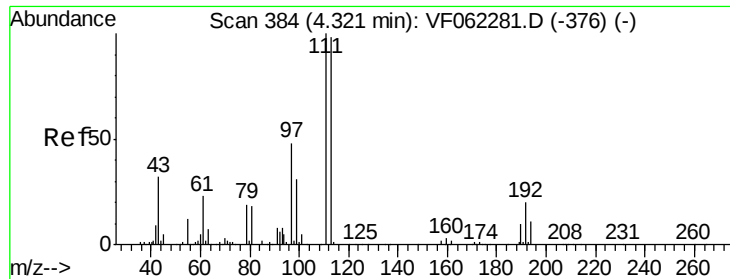
MMDadoda
 4/26/2019 9:21:03 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	638943		
63	19.0	0.0	35.6	
88	18.5	0.0	34.6	





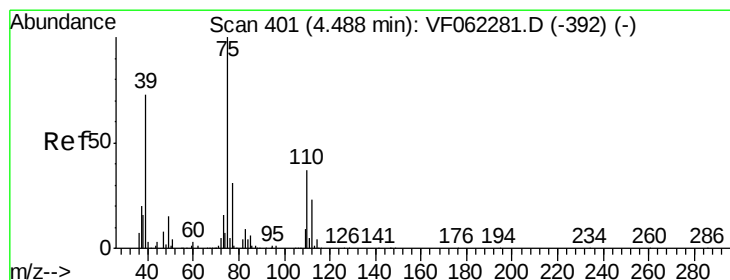
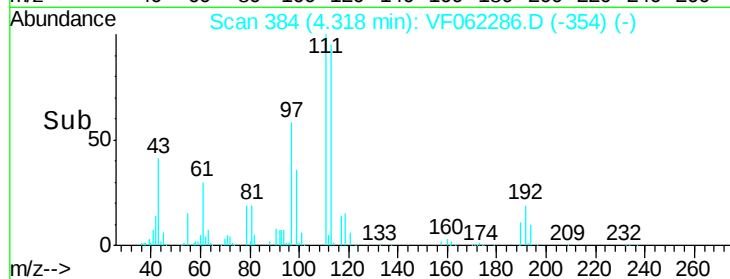
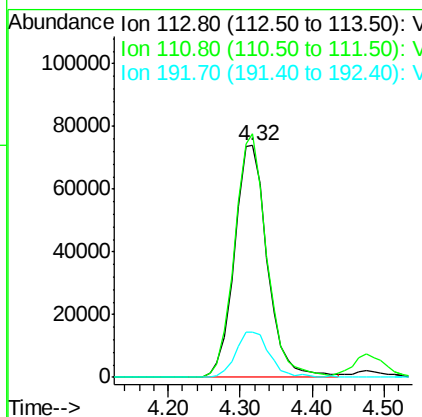
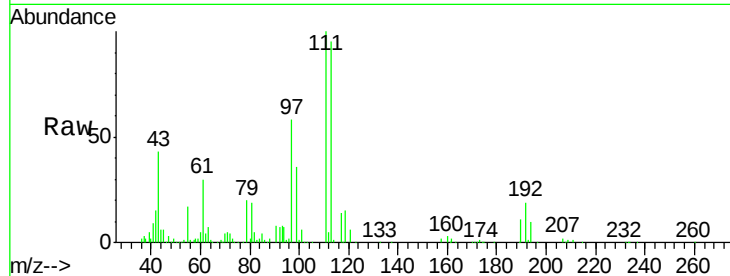
#35
Dibromofluoromethane
Concen: 49.810 ug/l
RT: 4.32 min Scan# 384
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Resp	Lower	Upper
113	100	235973		
111	102.4	81.4	122.2	
192	20.6	17.0	25.4	

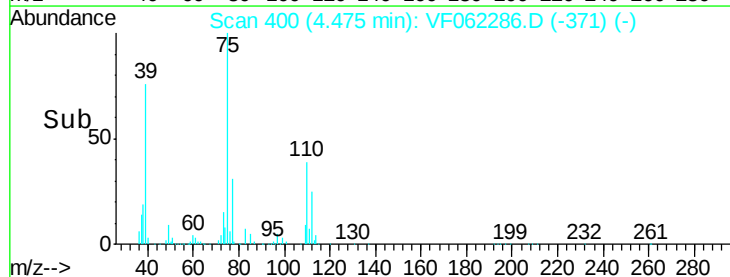
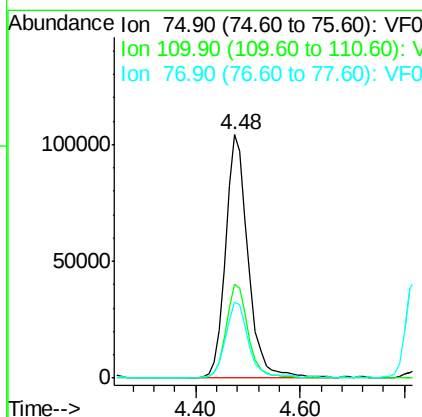
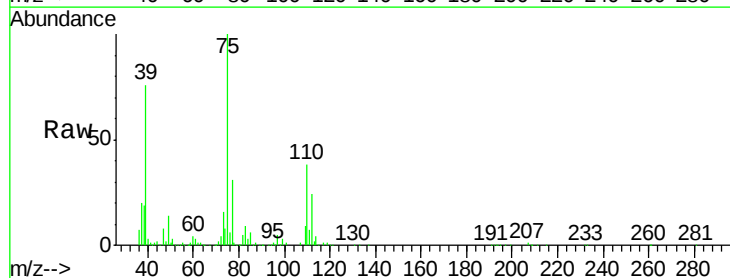
Manual Integrations
APPROVED

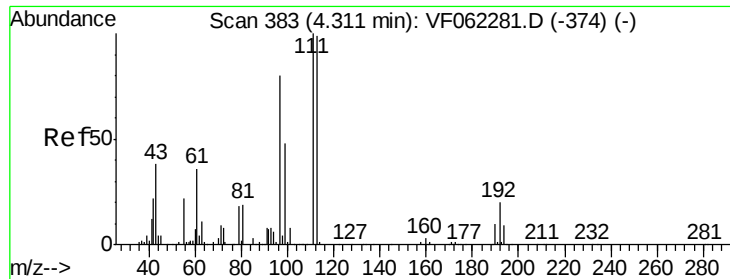
MMDadoda
4/26/2019 9:21:03 AM



#36
1,1-Dichloropropene
Concen: 52.675 ug/l
RT: 4.48 min Scan# 400
Delta R.T. -0.01 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	310507		
110	38.1	17.9	53.8	
77	31.3	24.6	36.8	





#37

Ethyl Acetate

Concen: 52.112 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

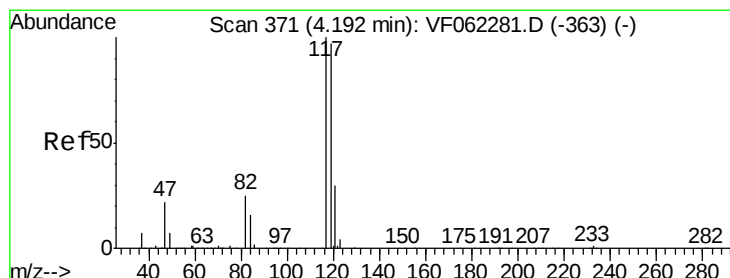
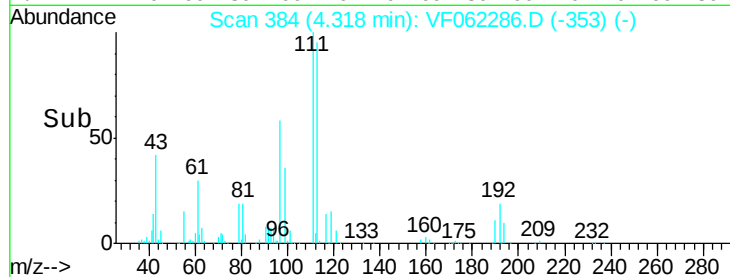
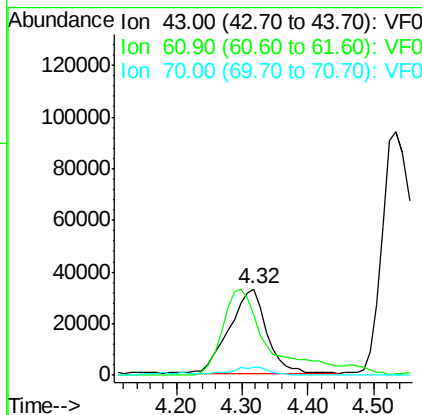
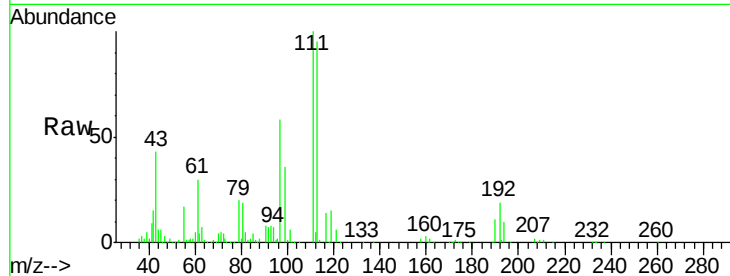
ClientSampleId :

ICVVF042419

Tot Ion	43	61	70	Ratio	Lower	Upper
Resp:	129234					
Ion	43	61	70	100	131.9	8.9
Ratio					85.8	7.3
Lower						
Upper					128.6#	10.9

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#38

Carbon Tetrachloride

Concen: 48.064 ug/l m

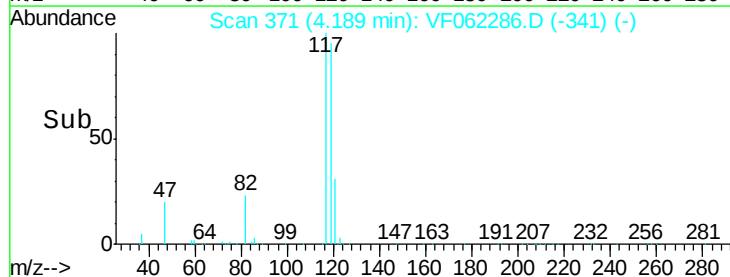
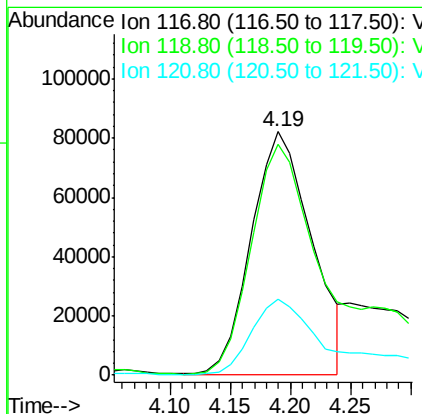
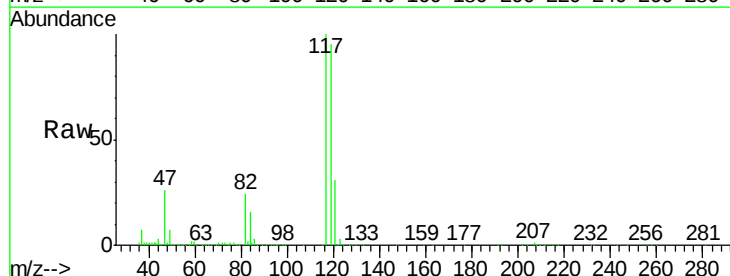
RT: 4.19 min Scan# 371

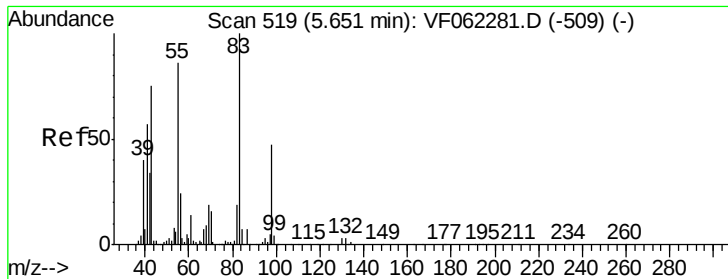
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion	117	119	121	Ratio	Lower	Upper
Resp:	288029					
Ion	117	119	121	100	95.0	31.1
Ratio					77.3	24.3
Lower						
Upper					115.9	36.5





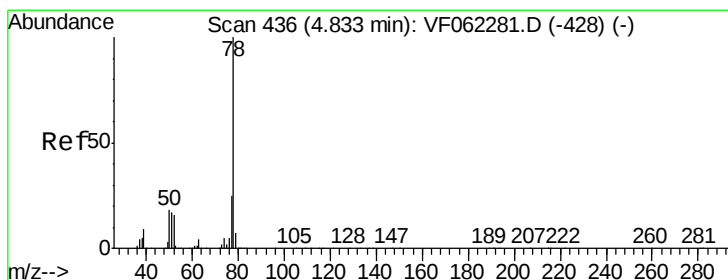
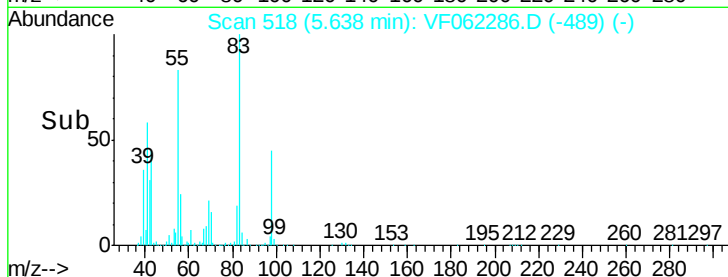
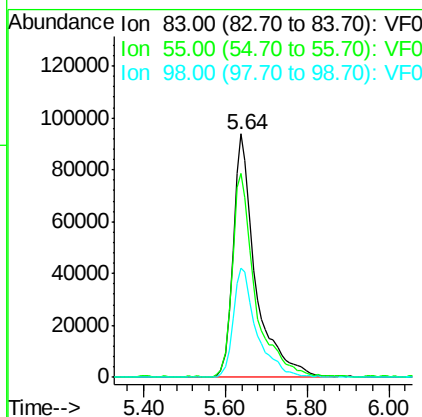
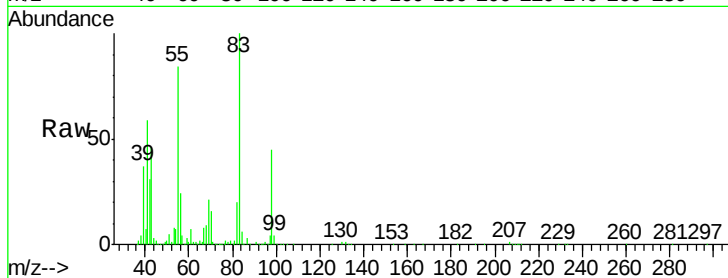
#39
Methvlcvclohexane
Concen: 51.492 ug/l
RT: 5.64 min Scan# 518
Delta R.T. -0.01 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.0	68.7	103.1
98	45.0	37.4	56.2

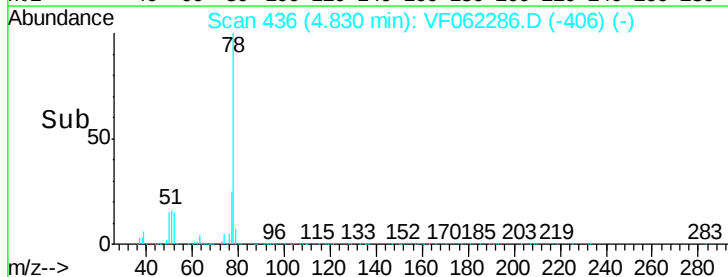
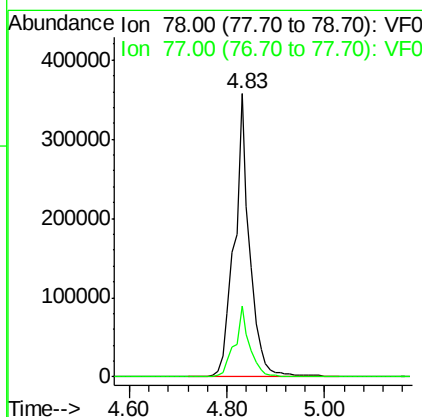
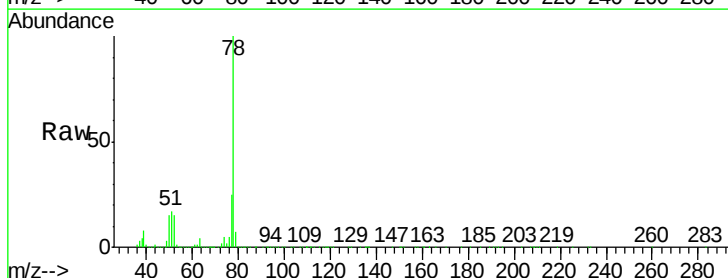
Manual Integrations
APPROVED

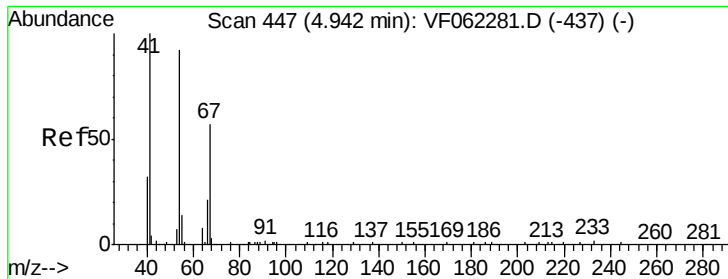
MMDadoda
4/26/2019 9:21:03 AM



#40
Benzene
Concen: 54.817 ug/l
RT: 4.83 min Scan# 436
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.7	29.5





#41

Methacrylonitrile

Concen: 55.636 ug/l

RT: 4.94 min Scan# 447

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

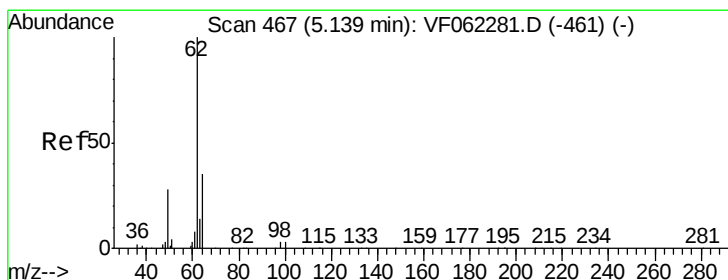
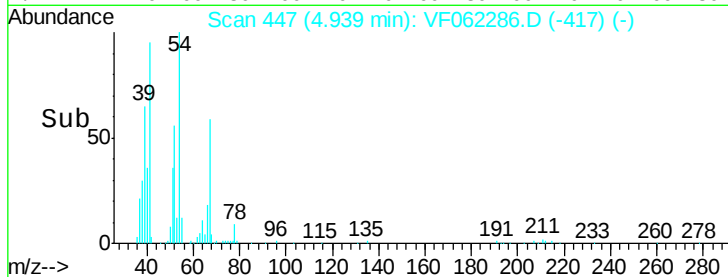
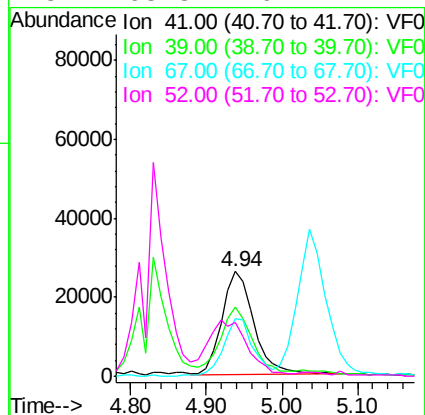
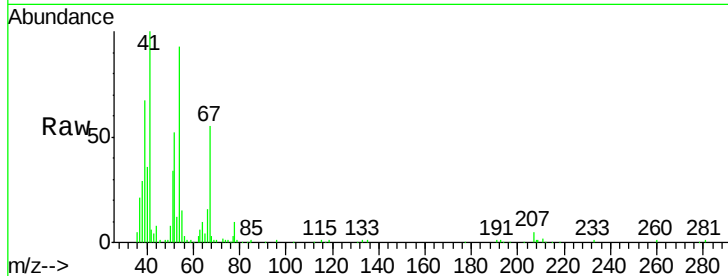
ClientSampleId :

ICVVF042419

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.8	47.3	70.9
67	50.5	41.3	61.9
52	63.8	49.4	74.2

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#42

1,2-Dichloroethane

Concen: 56.604 ug/l

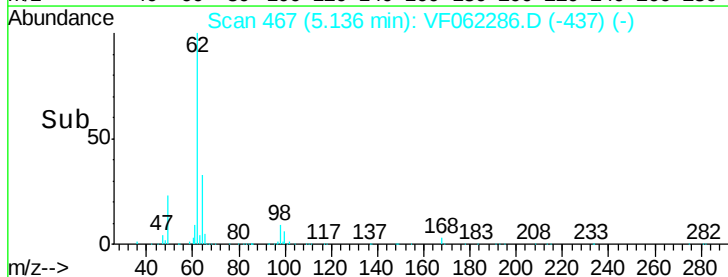
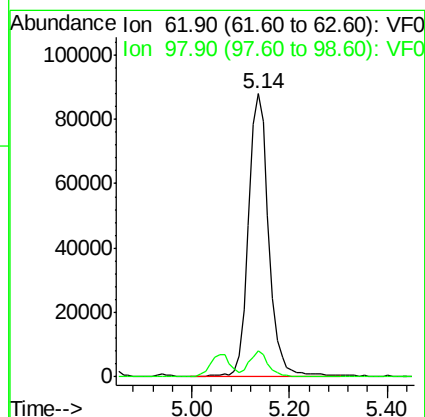
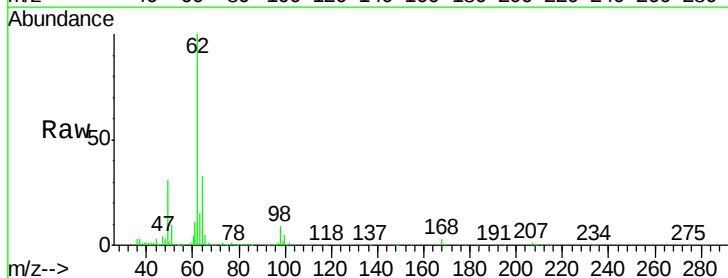
RT: 5.14 min Scan# 467

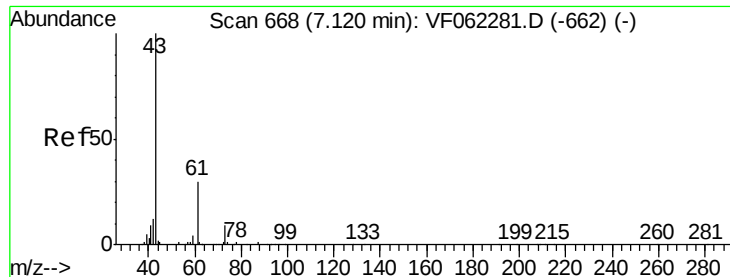
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	16.8





#43

Isopropyl Acetate

Concen: 51.830 ug/l

RT: 7.12 min Scan# 668

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

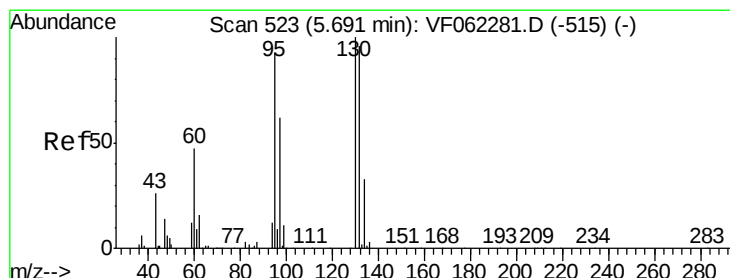
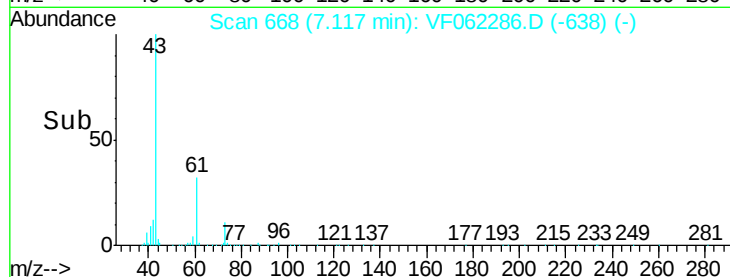
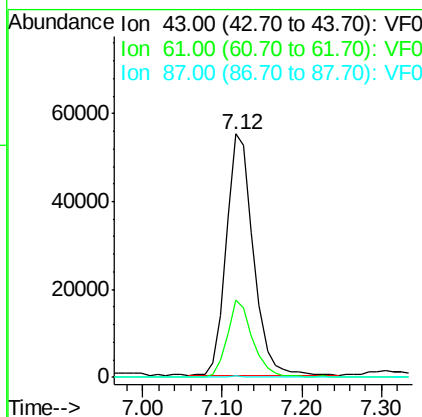
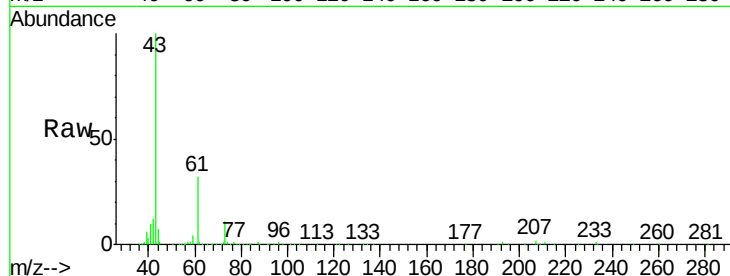
ClientSampleId :

ICVVF042419

Tot Ion:	43	Resp:	131694
Ion	Ratio	Lower	Upper
43	100		
61	30.4	23.8	35.6
87	0.3	0.5	0.7#

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#44

Trichloroethene

Concen: 50.242 ug/l

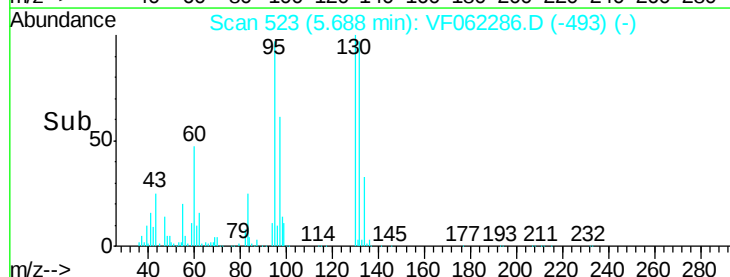
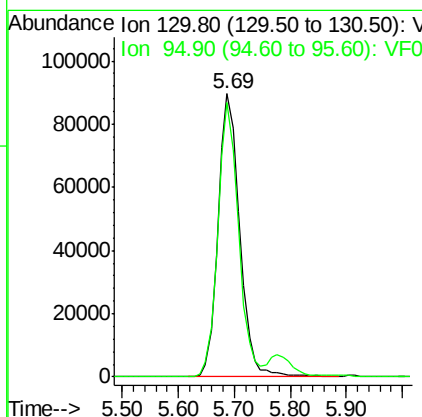
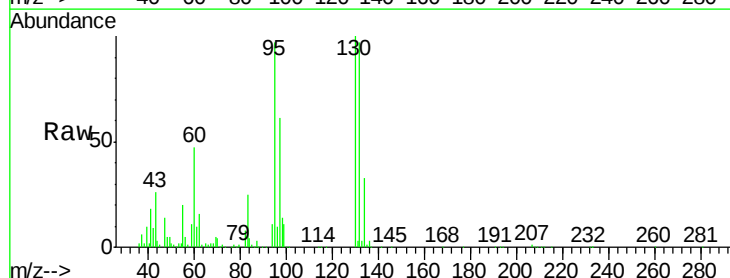
RT: 5.69 min Scan# 523

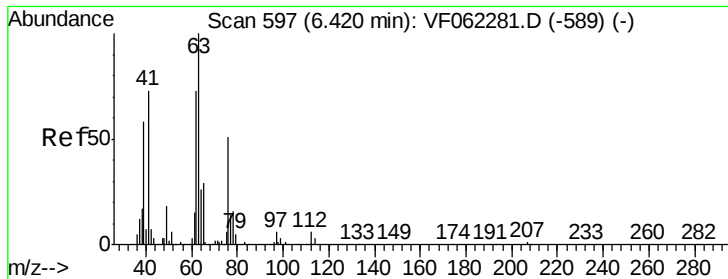
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	130	Resp:	242095
Ion	Ratio	Lower	Upper
130	100		
95	96.8	0.0	186.4





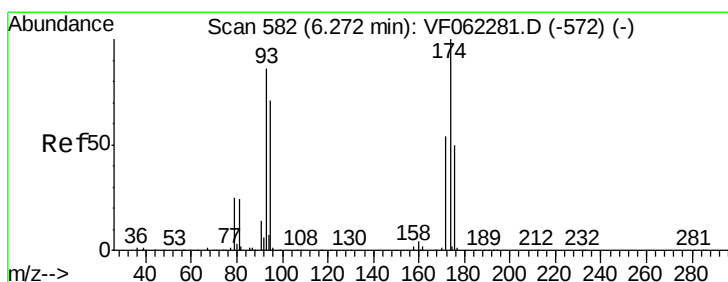
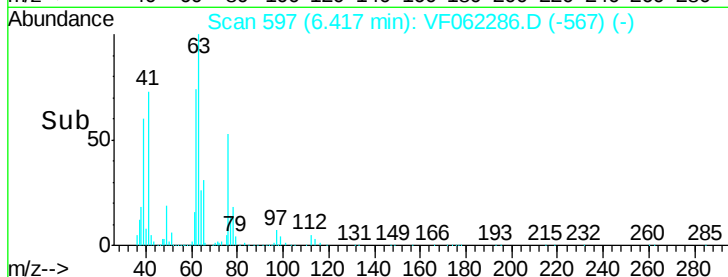
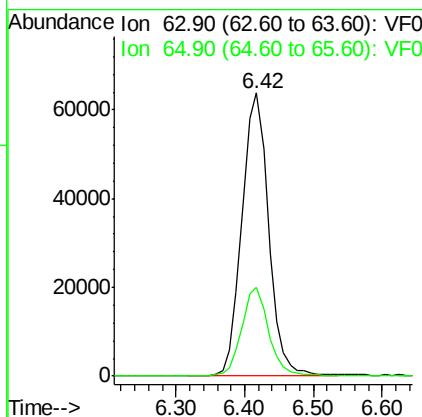
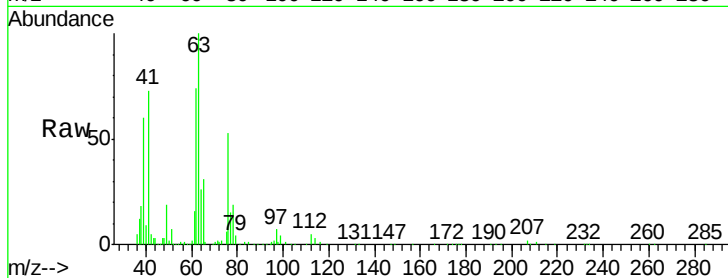
#45
 1,2-Dichloropropane
 Concen: 53.825 ug/l
 RT: 6.42 min Scan# 597
 Delta R.T. -0.00 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF042419

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.4	23.5	35.3

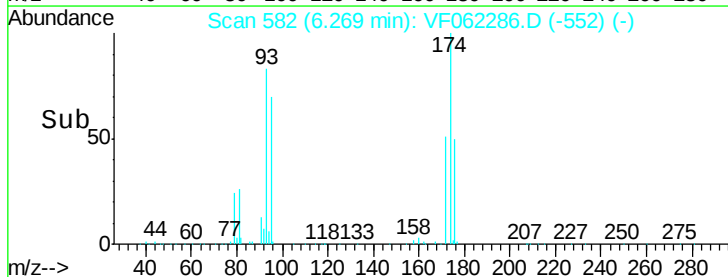
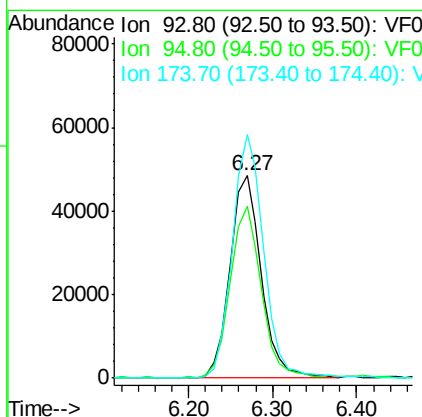
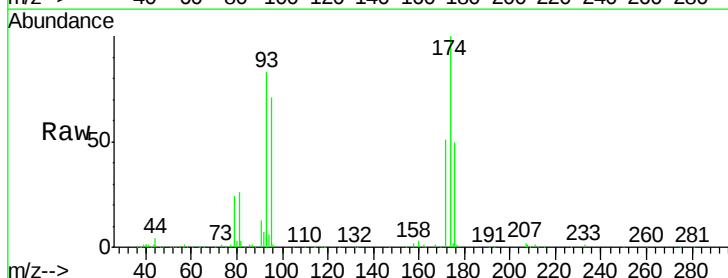
Manual Integrations
 APPROVED

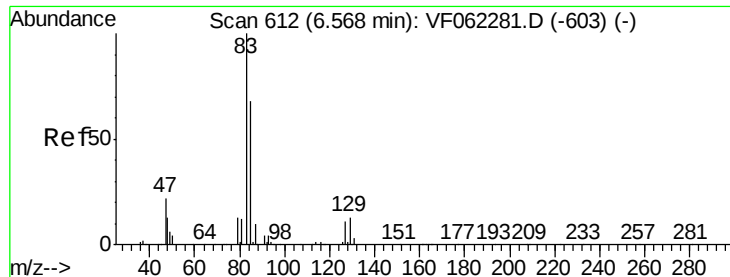
MMDadoda
 4/26/2019 9:21:03 AM



#46
 Dibromomethane
 Concen: 54.295 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. -0.00 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
93	100		
95	85.3	66.2	99.4
174	121.1	94.9	142.3





#47

Bromodichloromethane

Concen: 54.609 ug/l

RT: 6.56 min Scan# 611

Delta R.T. -0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

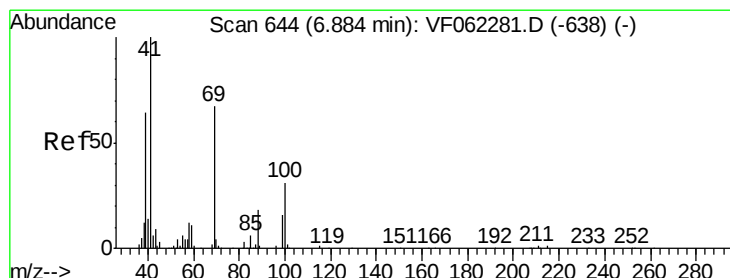
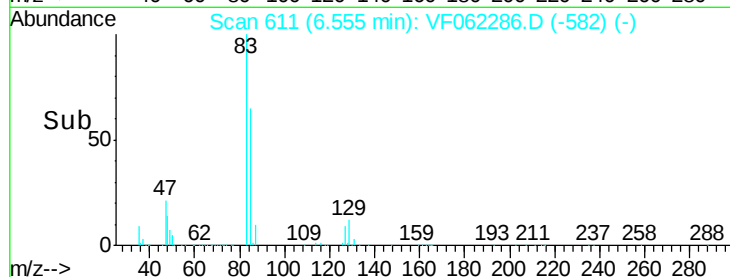
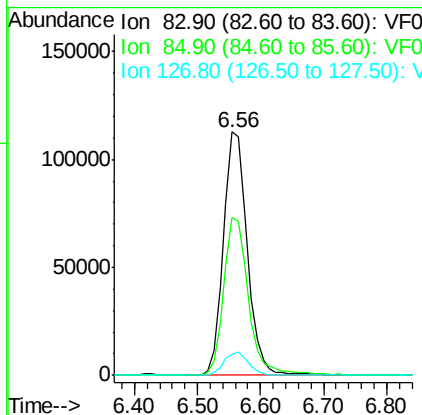
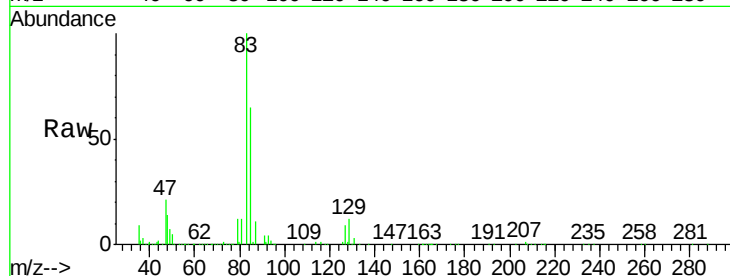
ClientSampleId :

ICVVF042419

Tot Ion:	83	Resp:	297668
Ion Ratio	Lower	Upper	
83	100		
85	65.0	54.6	81.8
127	8.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#48

Methyl methacrylate

Concen: 52.208 ug/l

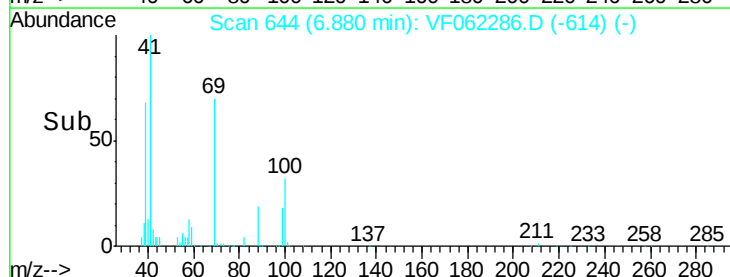
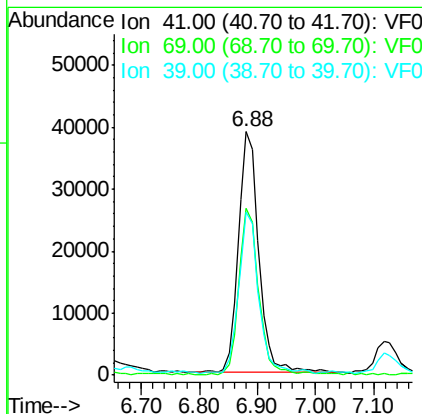
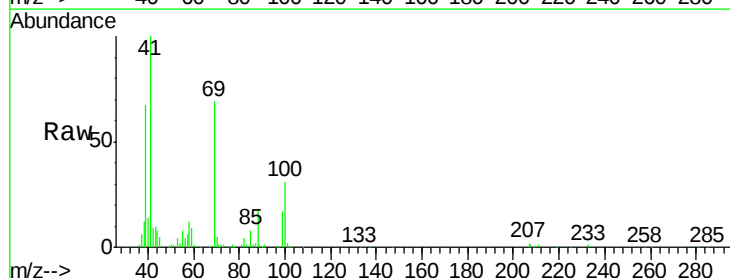
RT: 6.88 min Scan# 644

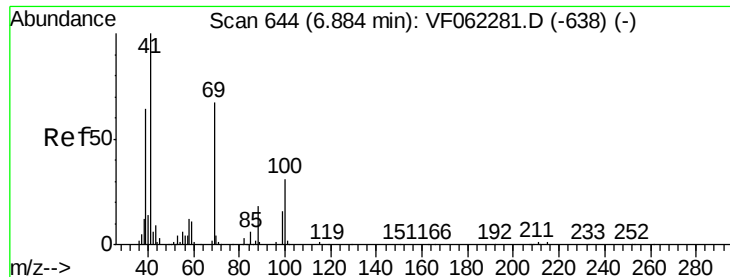
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	41	Resp:	94857
Ion Ratio	Lower	Upper	
41	100		
69	68.5	53.4	80.2
39	64.2	50.9	76.3





#49

1,4-Dioxane

Concen: 1053.175 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

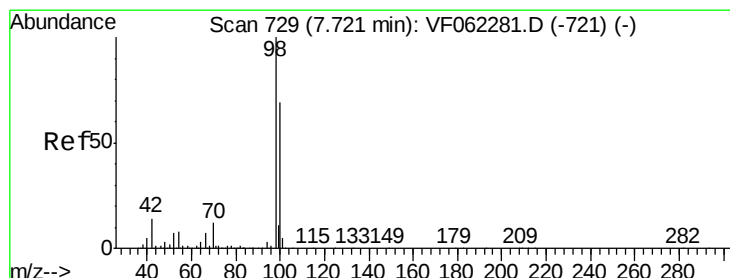
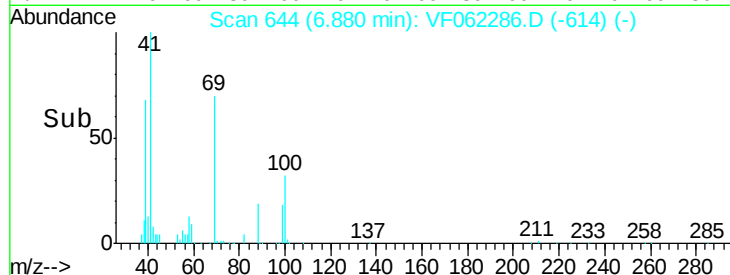
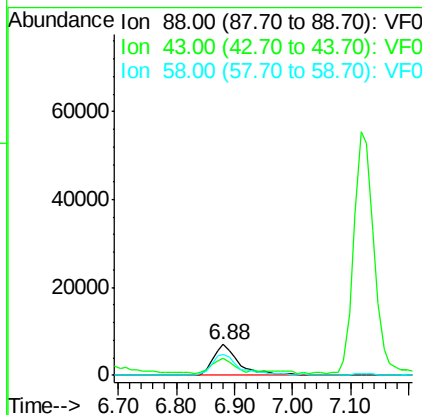
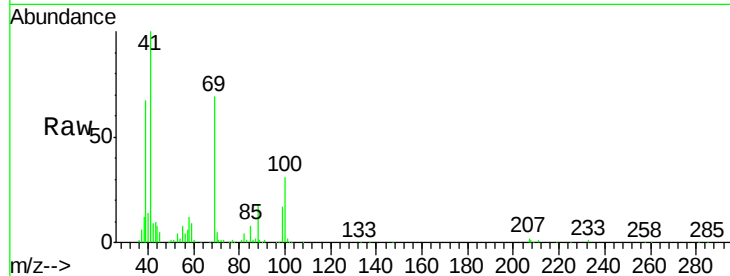
ClientSampleId :

ICVVF042419

Tot Ion:	88	Resp:	22034
Ion	Ratio	Lower	Upper
88	100		
43	38.0	34.2	51.4
58	70.8	50.7	76.1

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#50

Toluene-d8

Concen: 49.705 ug/l

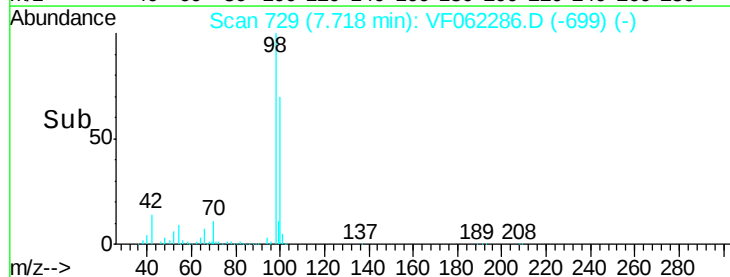
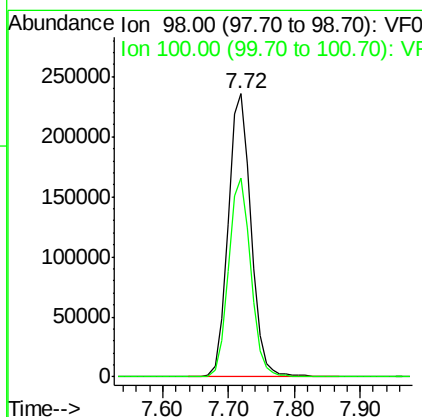
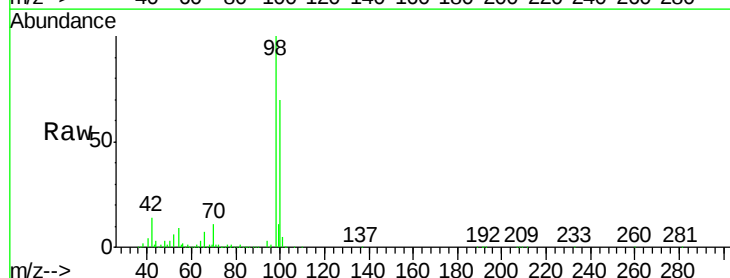
RT: 7.72 min Scan# 729

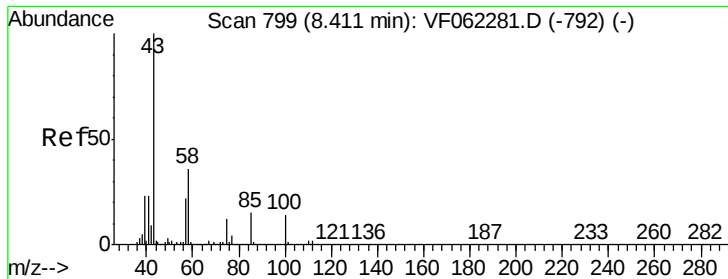
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	98	Resp:	575169
Ion	Ratio	Lower	Upper
98	100		
100	68.6	54.4	81.6





#51

4-Methyl-2-Pentanone

Concen: 256.858 ug/l

RT: 8.41 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 43 Resp: 501896

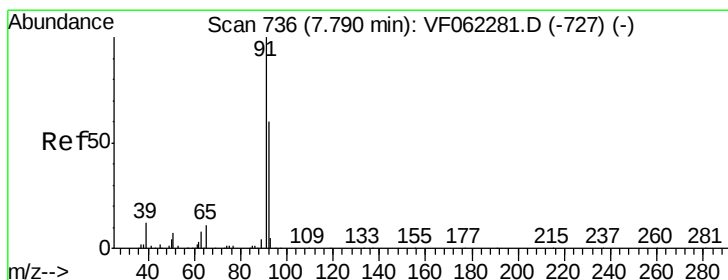
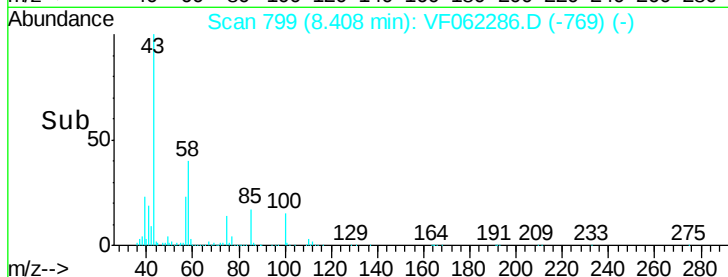
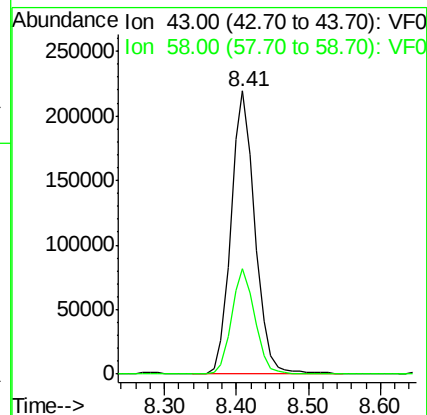
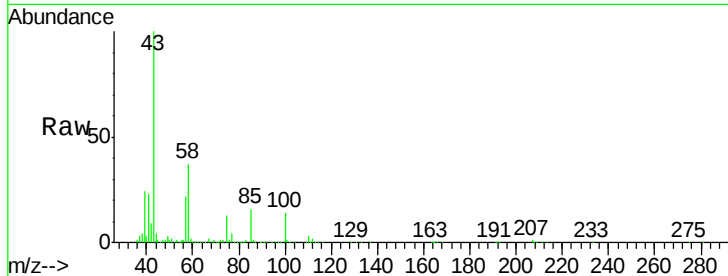
Ion Ratio Lower Upper

43 100

58 36.6 29.1 43.7

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#52

Toluene

Concen: 49.920 ug/l

RT: 7.79 min Scan# 736

Delta R.T. -0.00 min

Lab File: VF062286.D

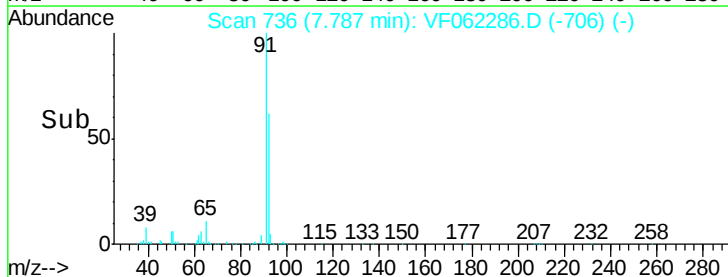
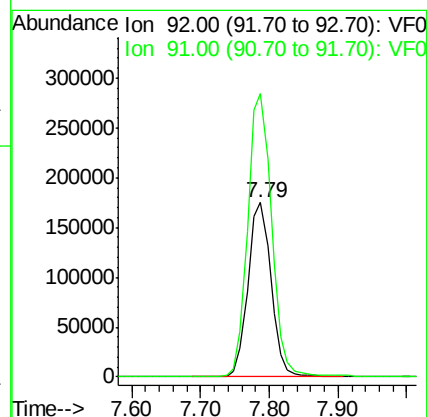
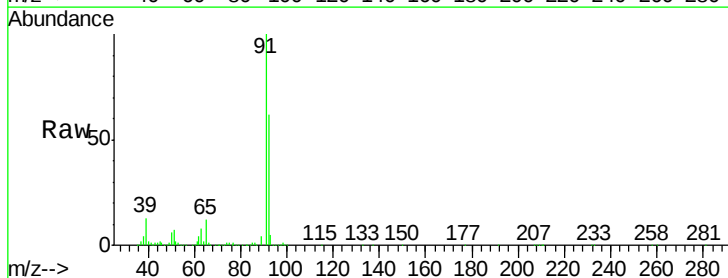
Acq: 24 Apr 2019 17:42

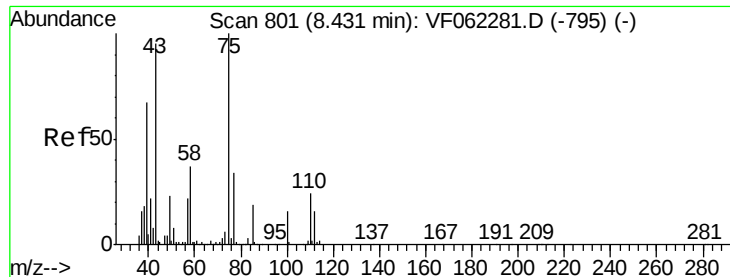
Tgt Ion: 92 Resp: 410249

Ion Ratio Lower Upper

92 100

91 167.9 132.5 198.7





#53

t-1,3-Dichloropropene

Concen: 52.858 ug/l

RT: 8.43 min Scan# 801

Delta R.T. -0.00 min

Lab File: VF062286.D

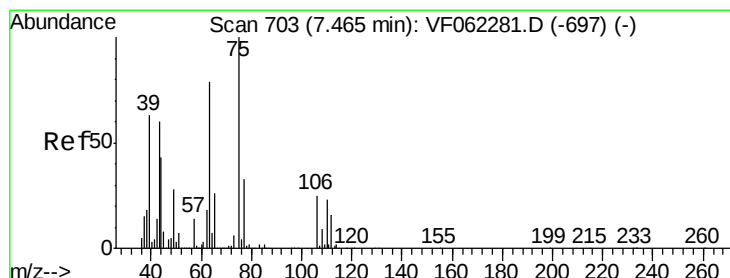
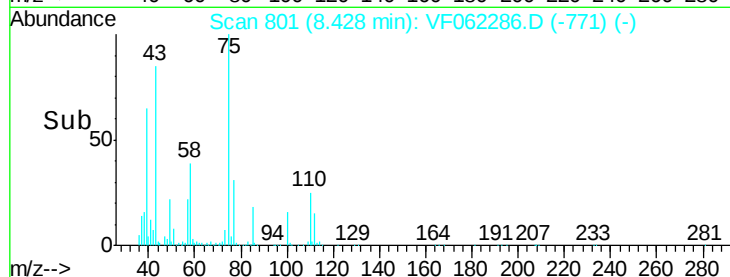
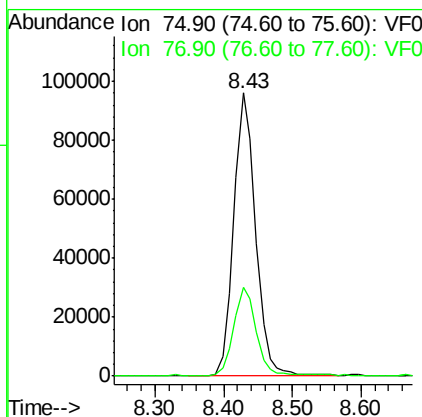
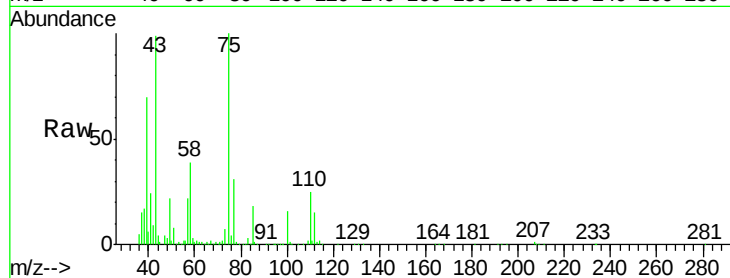
Acq: 24 Apr 2019 17:42

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	26.9	40.3

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#54

cis-1,3-Dichloropropene

Concen: 51.555 ug/l

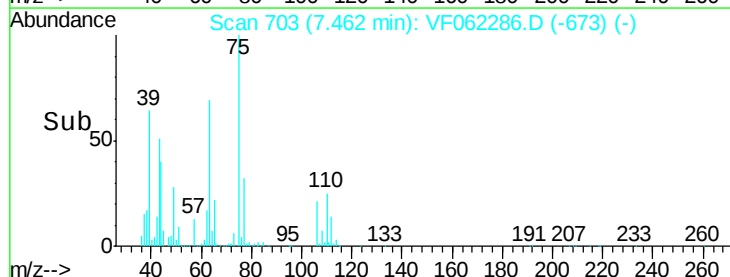
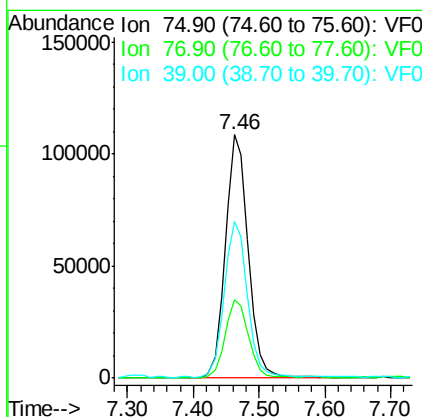
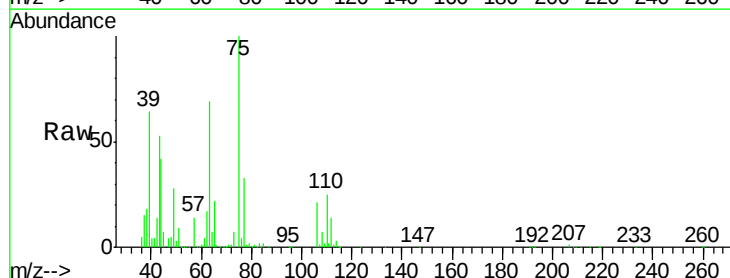
RT: 7.46 min Scan# 703

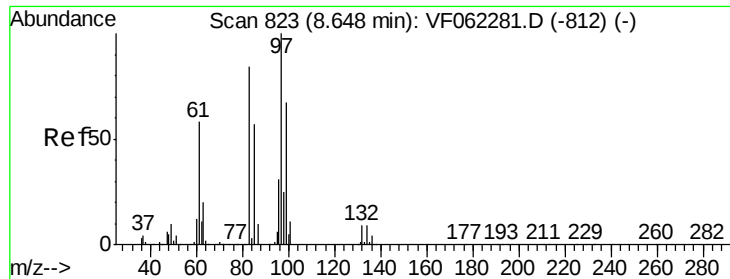
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.5	39.7
39	63.7	50.2	75.2





#55

1,1,2-Trichloroethane

Concen: 53.201 ug/l

RT: 8.64 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

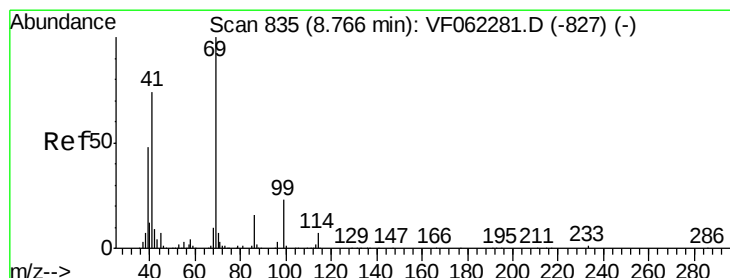
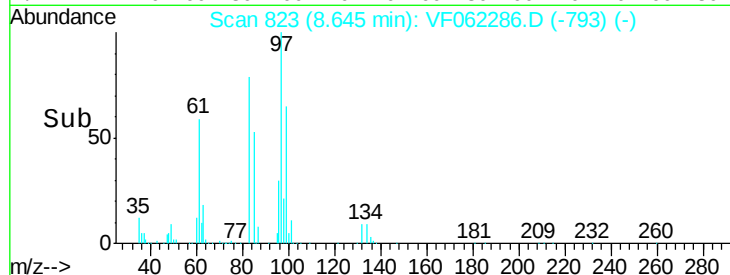
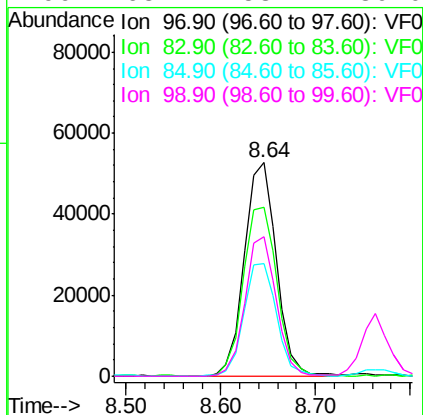
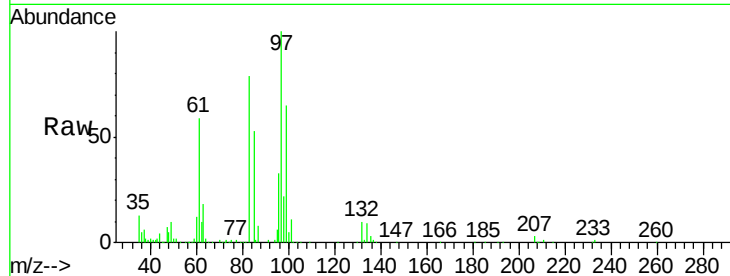
ClientSampleId :

ICVVF042419

Tot Ion:	97	Resp:	124173
Ion	Ratio	Lower	Upper
97	100		
83	78.7	67.5	101.3
85	52.8	45.3	67.9
99	65.2	53.4	80.0

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#56

Ethyl methacrylate

Concen: 52.457 ug/l

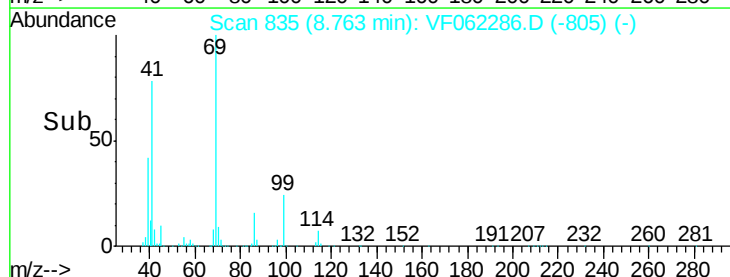
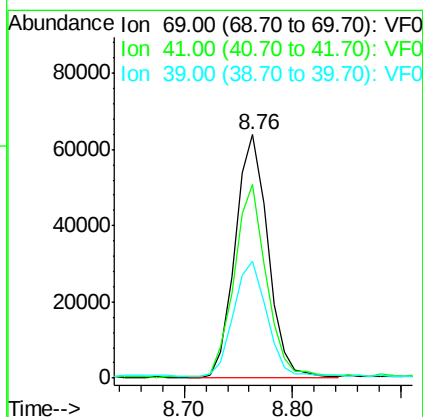
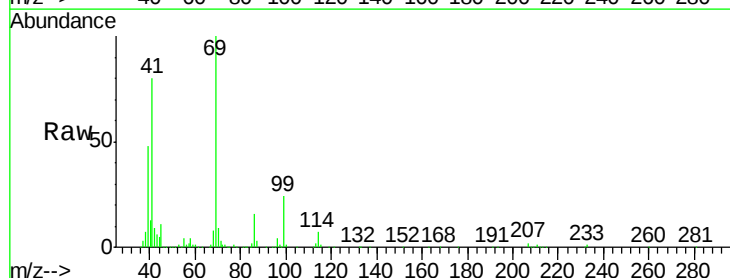
RT: 8.76 min Scan# 835

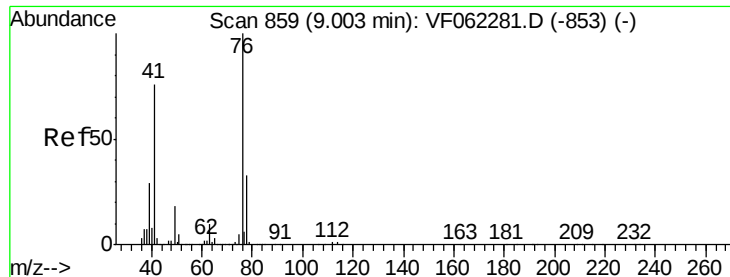
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	69	Resp:	134509
Ion	Ratio	Lower	Upper
69	100		
41	78.8	61.5	92.3
39	49.0	37.9	56.9





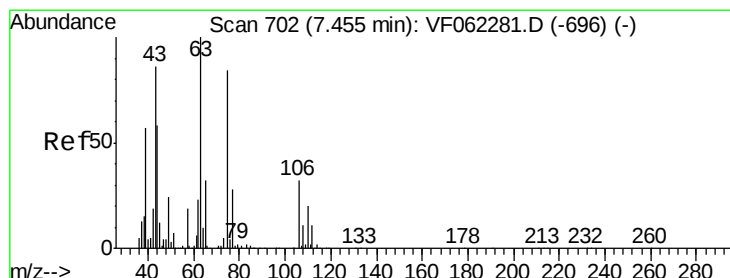
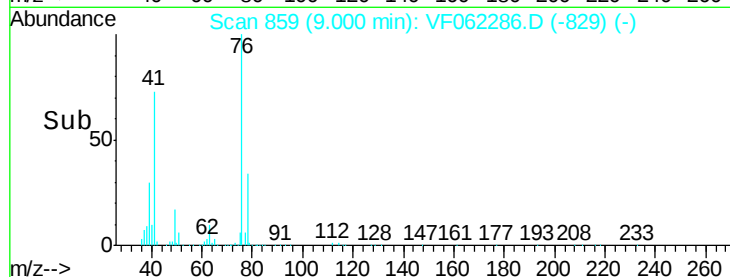
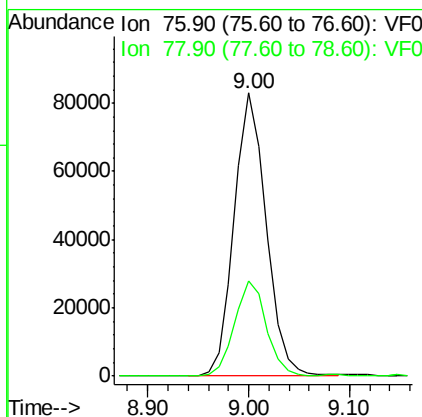
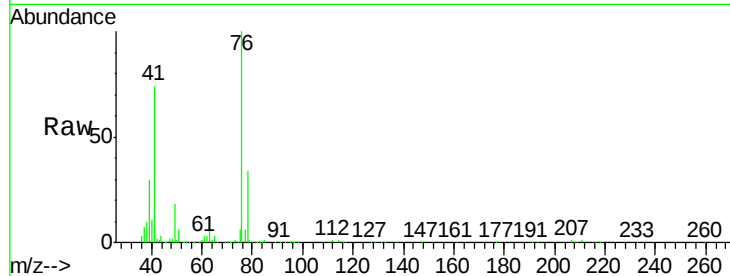
#57
 1,3-Dichloropropane
 Concen: 50.181 ug/l
 RT: 9.00 min Scan# 859
 Delta R.T. -0.00 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF042419

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.2	27.0	40.6

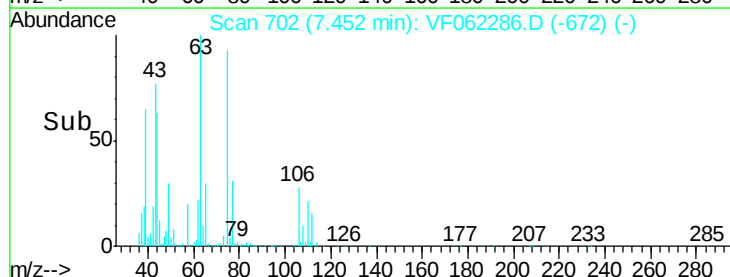
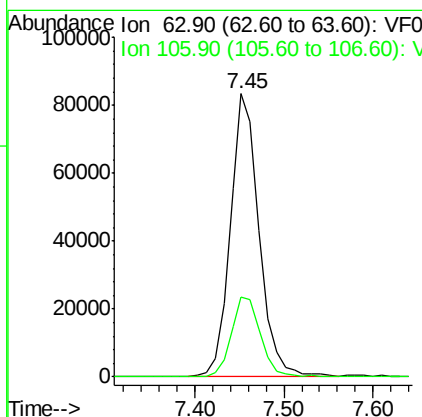
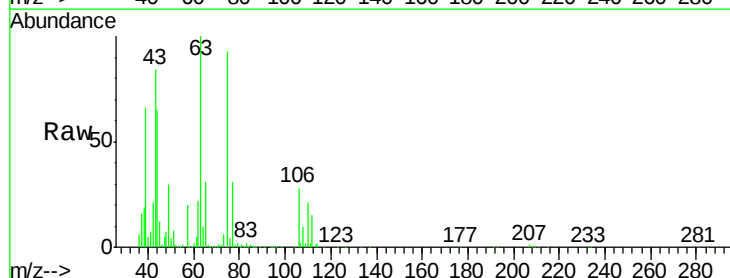
Manual Integrations
 APPROVED

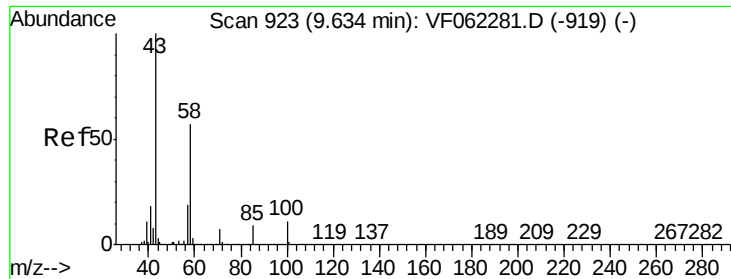
MMDadoda
 4/26/2019 9:21:03 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 239.560 ug/l
 RT: 7.45 min Scan# 702
 Delta R.T. -0.00 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.4	24.7	37.1





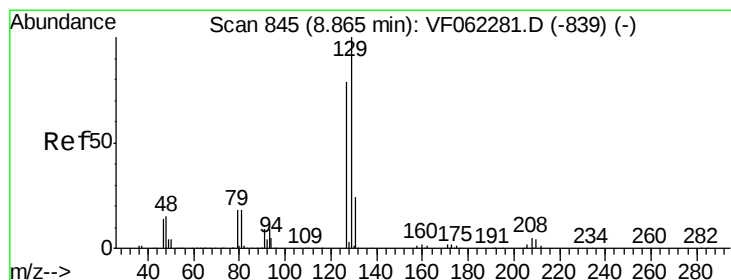
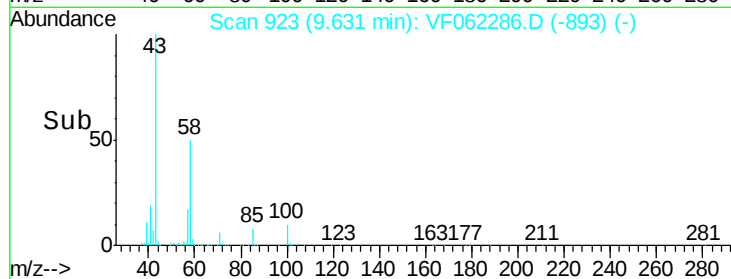
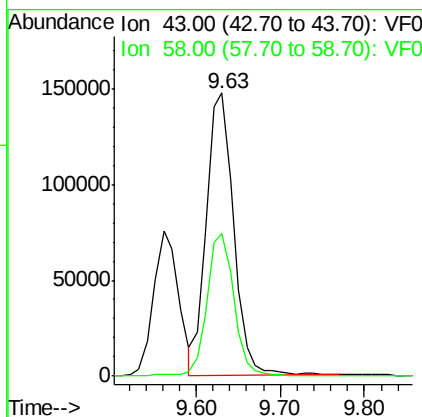
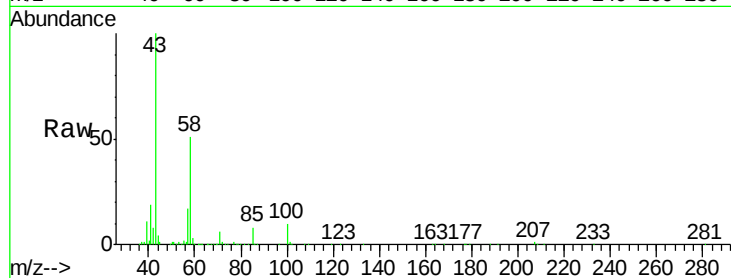
#59
2-Hexanone
Concen: 278.185 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.0	24.9	74.7

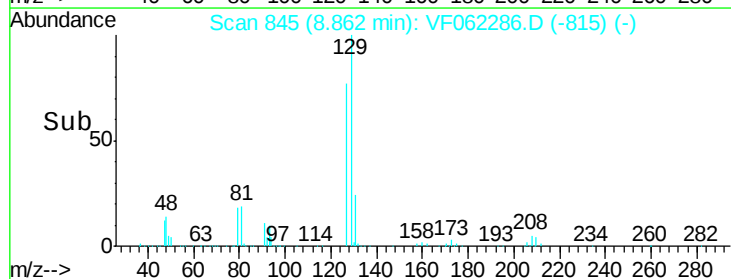
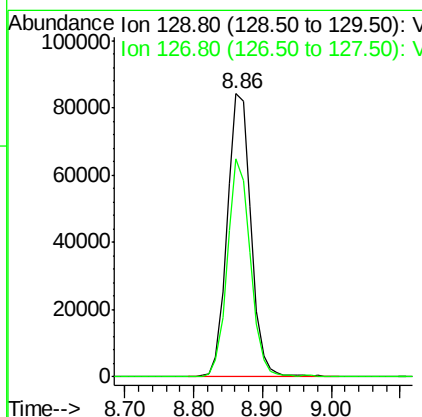
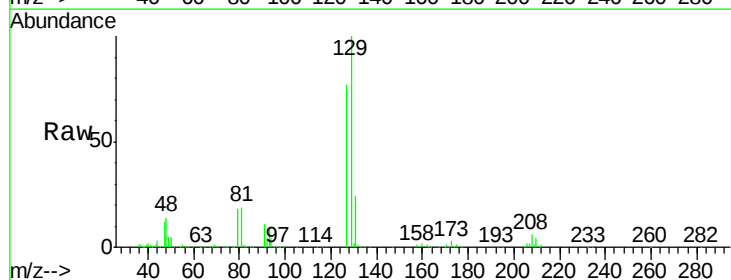
Manual Integrations
APPROVED

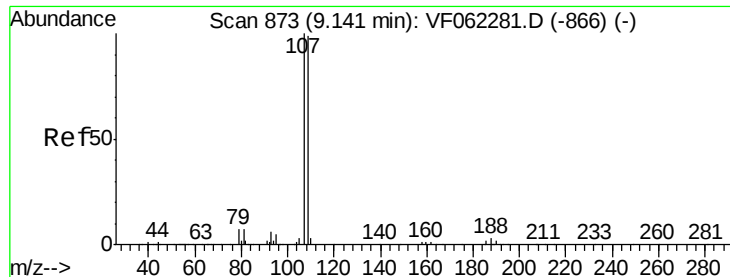
MMDadoda
4/26/2019 9:21:03 AM



#60
Dibromochloromethane
Concen: 53.035 ug/l
RT: 8.86 min Scan# 845
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.8	38.8	116.4





#61

1,2-Dibromoethane

Concen: 53.210 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 107 Resp: 143741

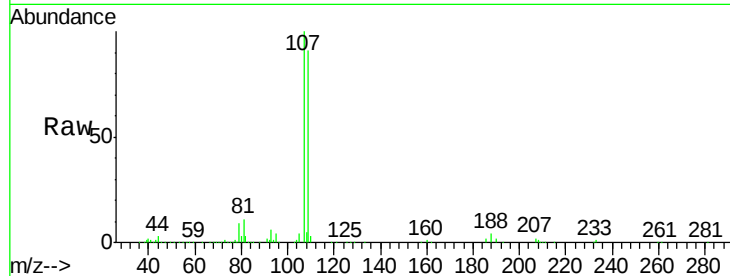
Ion Ratio Lower Upper

107 100

109 94.6 78.7 118.1

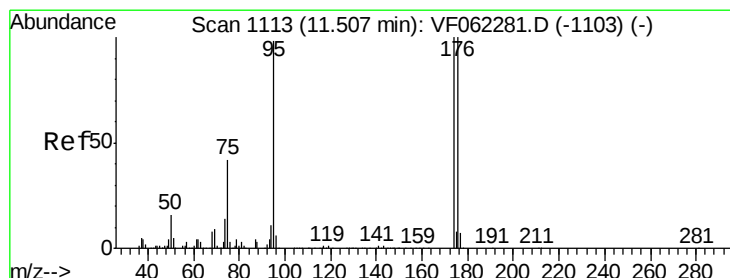
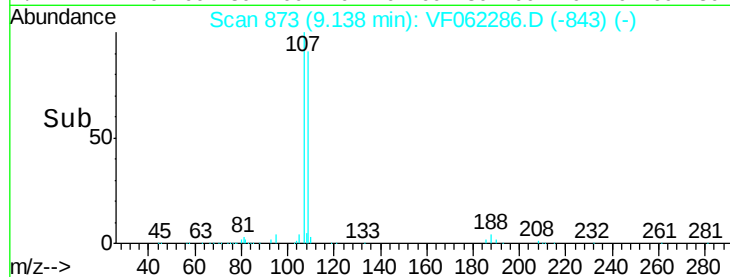
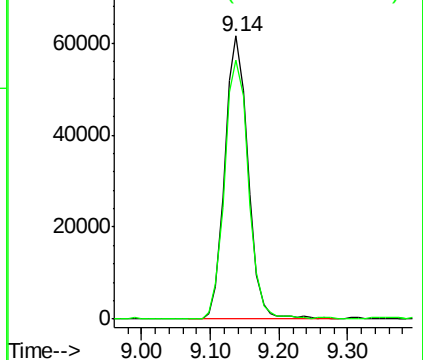
Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 47.843 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

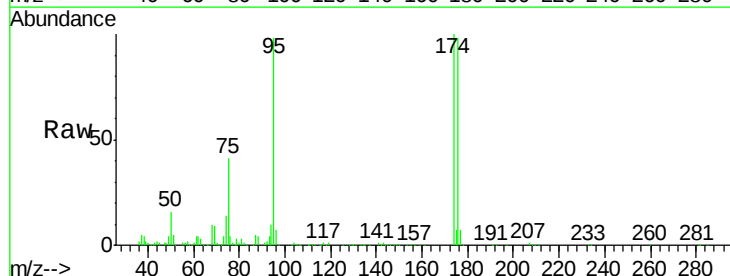
Tgt Ion: 95 Resp: 228196

Ion Ratio Lower Upper

95 100

174 93.4 0.0 185.2

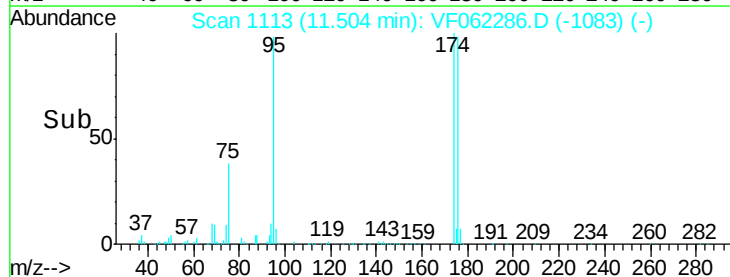
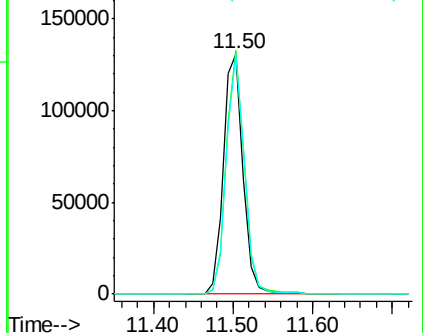
176 92.7 0.0 184.8

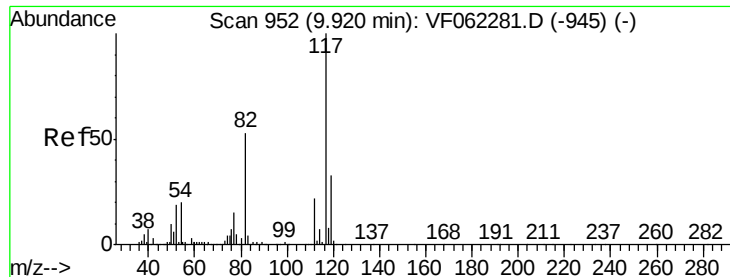


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





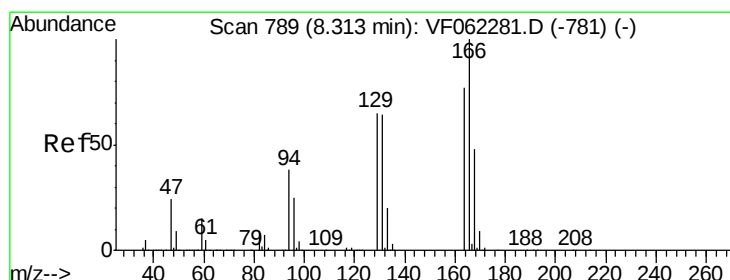
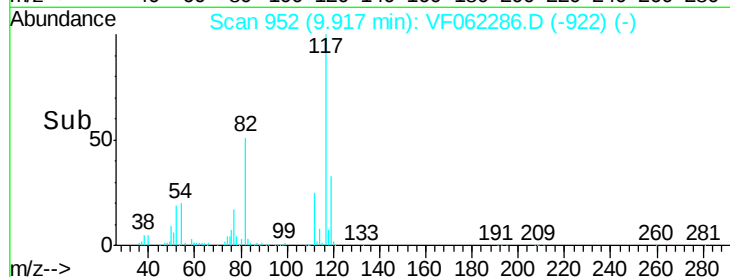
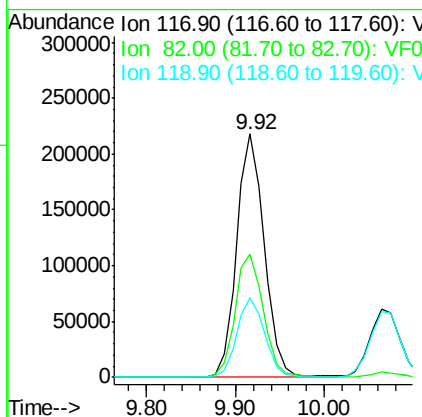
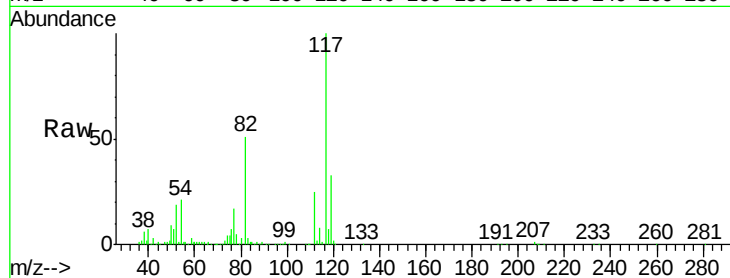
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Resp	Lower	Upper
117	100	471080		
82	50.8		42.6	64.0
119	32.9		26.1	39.1

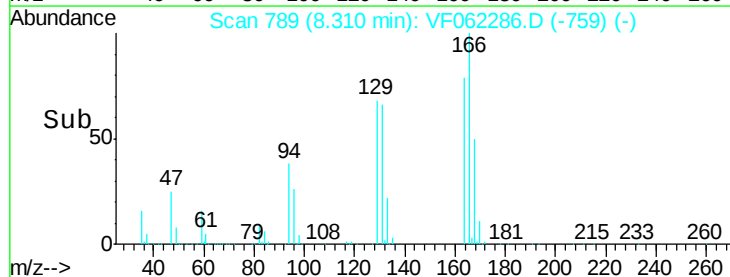
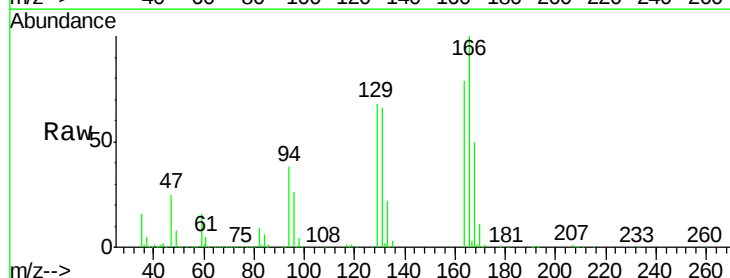
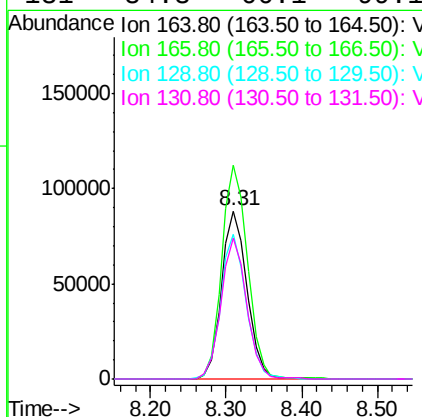
Manual Integrations
APPROVED

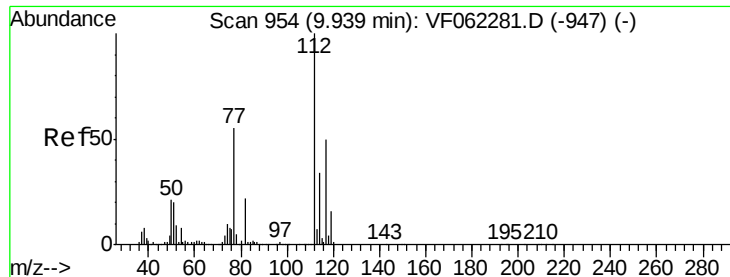
MMDadoda
4/26/2019 9:21:03 AM



#64
Tetrachloroethene
Concen: 52.424 ug/l
RT: 8.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	206562		
166	127.3		103.5	155.3
129	86.1		67.6	101.4
131	84.3		66.1	99.1





#65

Chlorobenzene

Concen: 53.751 ug/l

RT: 9.94 min Scan# 954

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion:112 Resp: 462714

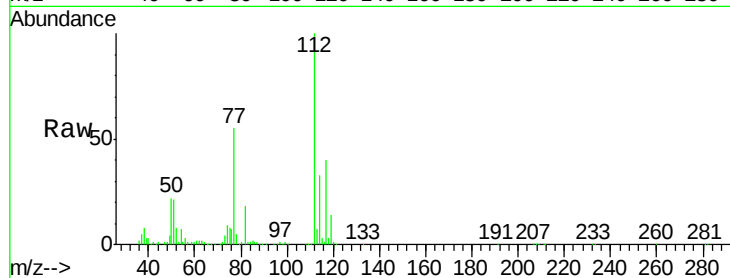
Ion Ratio Lower Upper

112 100

114 33.4 27.0 40.6

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

250000

200000

150000

100000

50000

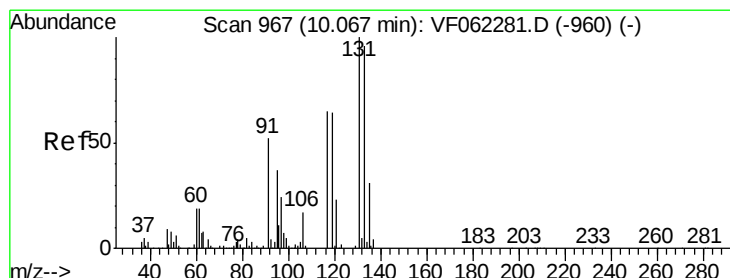
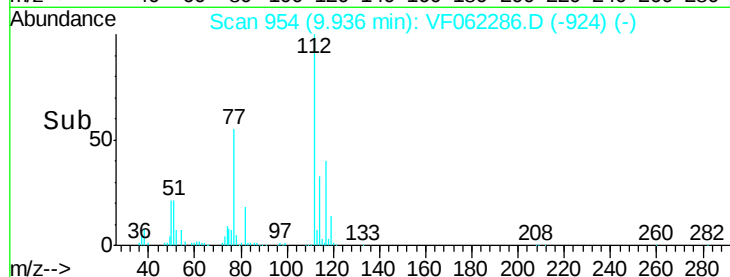
0

9.80

9.94

10.00

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 51.996 ug/l

RT: 10.06 min Scan# 967

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

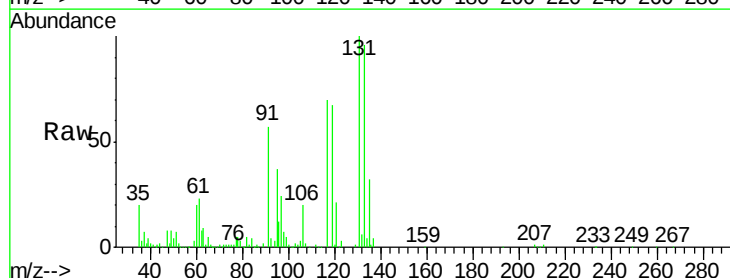
Tgt Ion:131 Resp: 210833

Ion Ratio Lower Upper

131 100

133 95.1 48.5 145.5

119 66.3 32.9 98.7



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

120000

100000

80000

60000

40000

20000

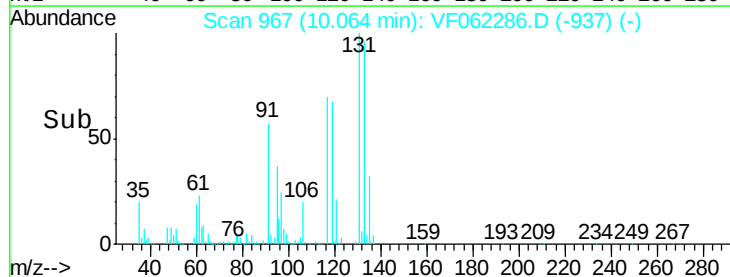
0

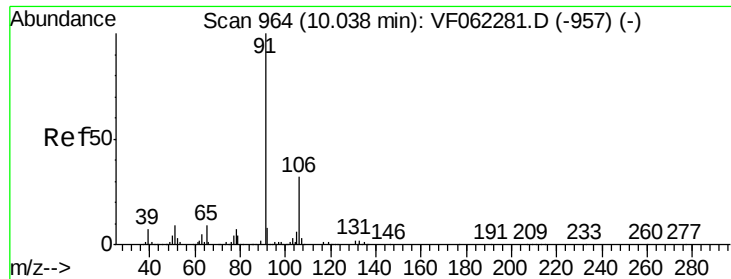
10.00

10.06

10.20

Time-->





#67

Ethyl Benzene

Concen: 51.399 ug/l

RT: 10.03 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 91 Resp: 769227

Ion Ratio Lower Upper

91 100

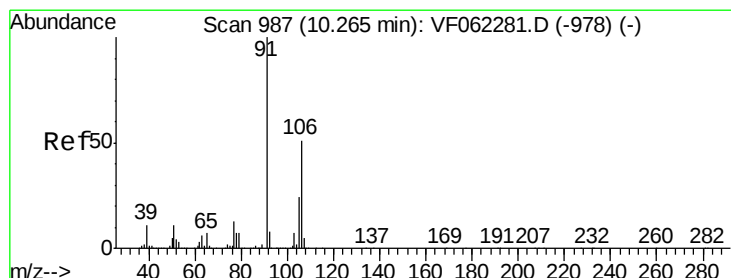
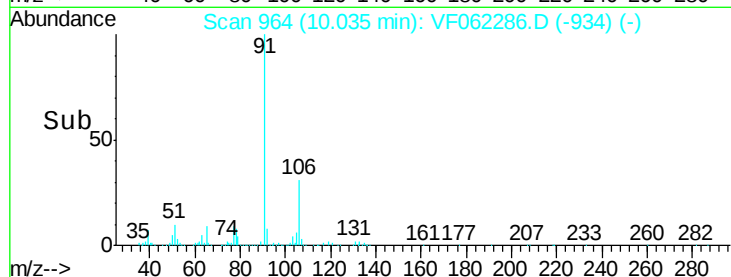
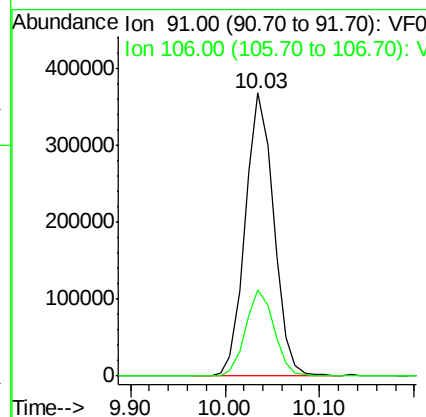
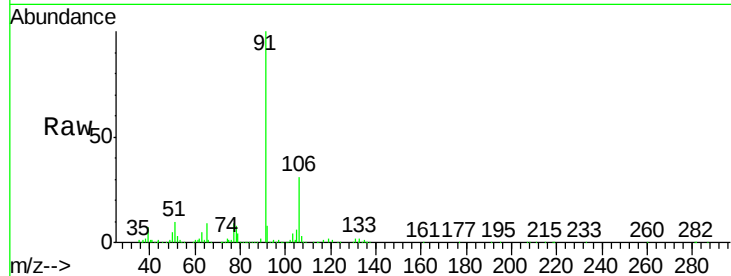
106 30.5 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

4/26/2019 9:21:03 AM



#68

m/p-Xylenes

Concen: 103.689 ug/l

RT: 10.26 min Scan# 987

Delta R.T. -0.00 min

Lab File: VF062286.D

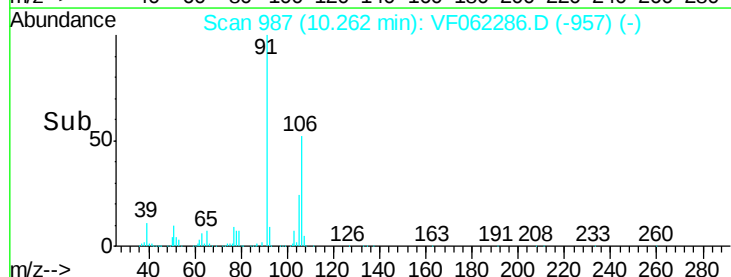
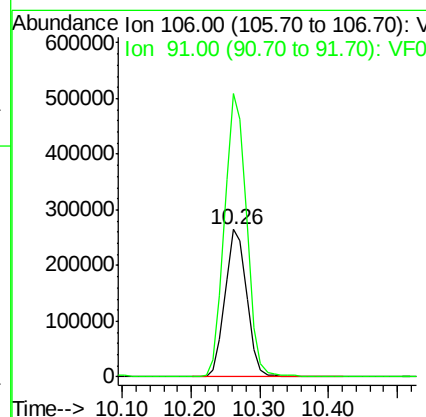
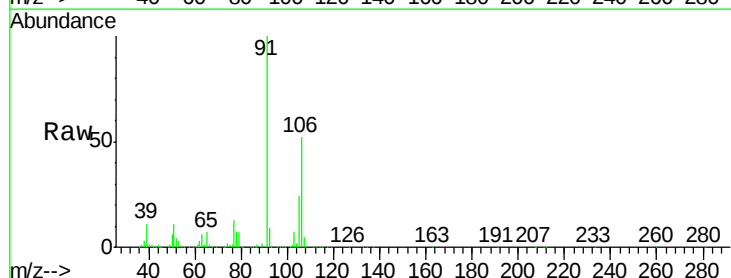
Acq: 24 Apr 2019 17:42

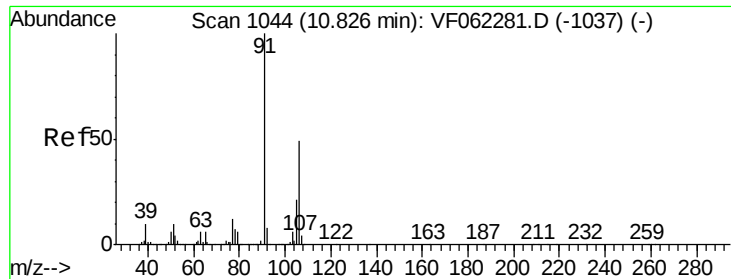
Tgt Ion: 106 Resp: 577747

Ion Ratio Lower Upper

106 100

91 195.0 158.3 237.5





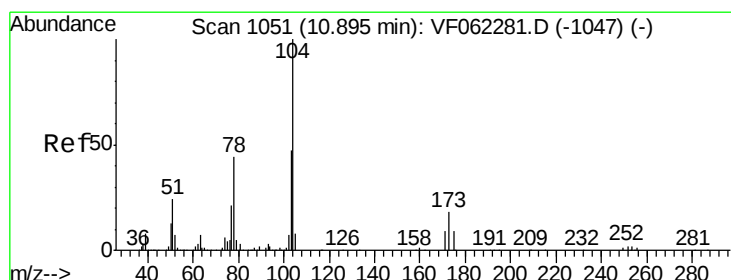
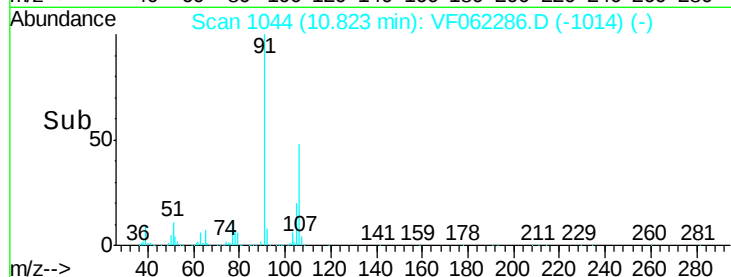
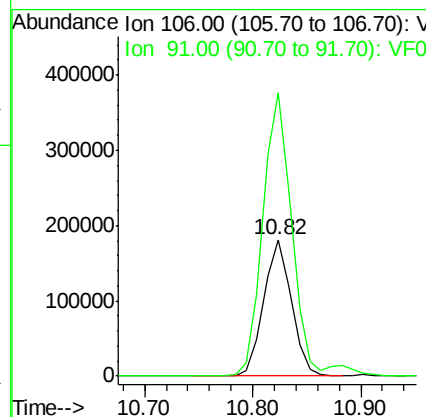
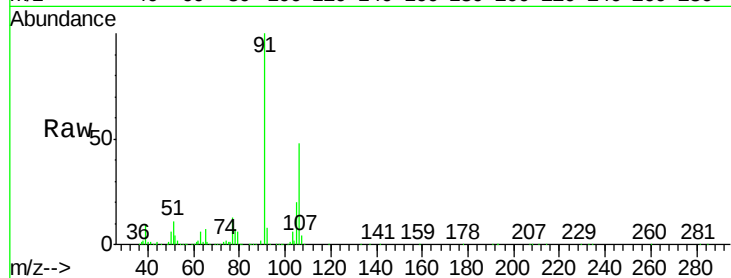
#69
o-Xylene
Concen: 51.930 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
106	100		
91	221.6	110.0	330.0

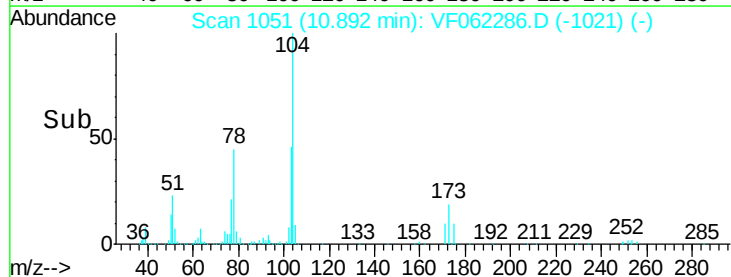
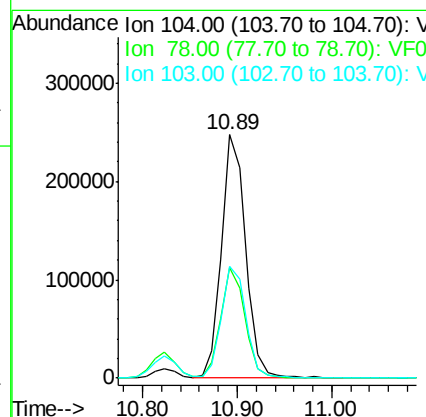
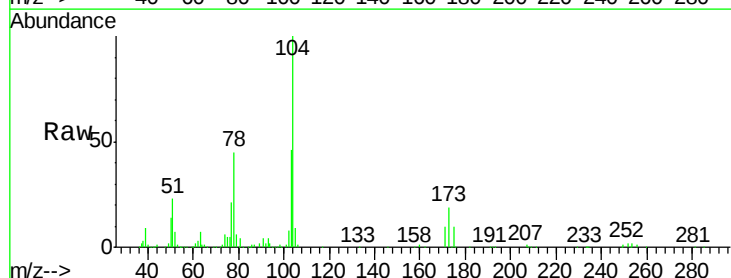
Manual Integrations
APPROVED

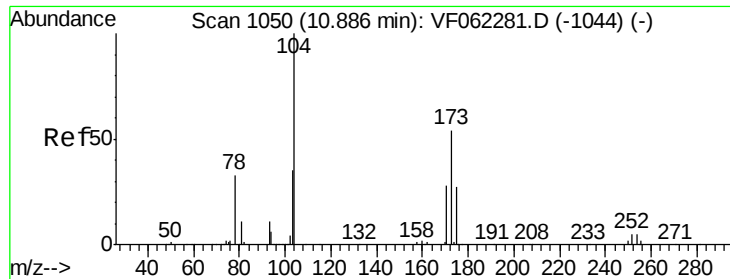
MMDadoda
4/26/2019 9:21:03 AM



#70
Styrene
Concen: 48.576 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
104	100		
78	45.0	35.9	53.9
103	46.7	37.5	56.3





#71

Bromoform

Concen: 50.462 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

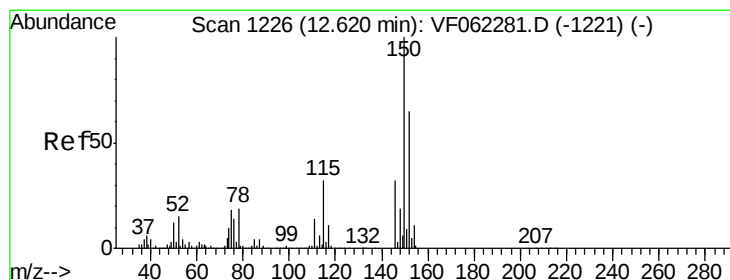
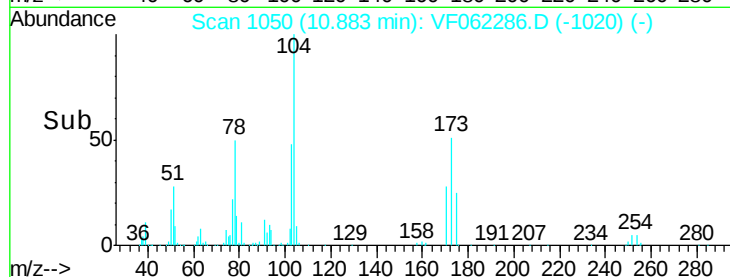
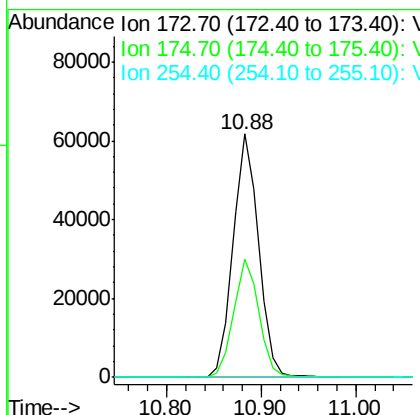
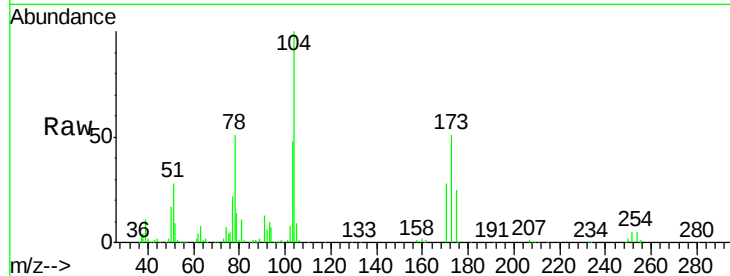
ClientSampleId :

ICVVF042419

Tot Ion:	173	Resp:	115175
Ion Ratio	Lower	Upper	
173	100		
175	48.3	25.3	75.9
254	0.1	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

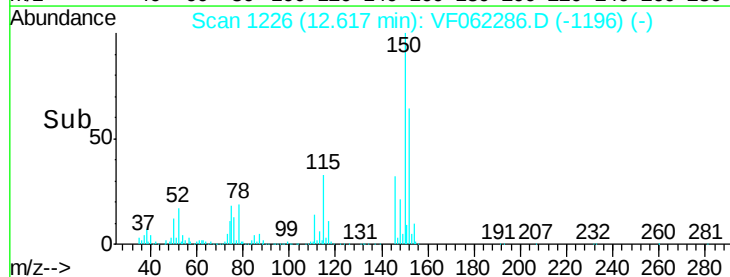
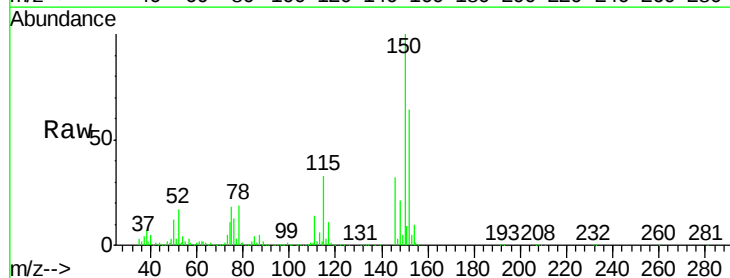
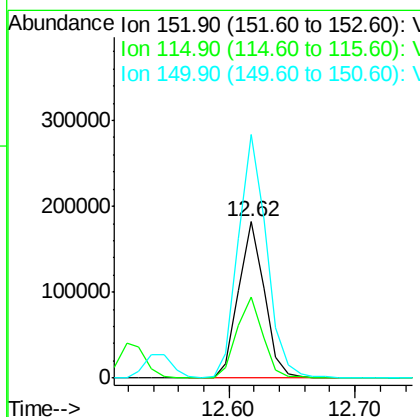
RT: 12.62 min Scan# 1226

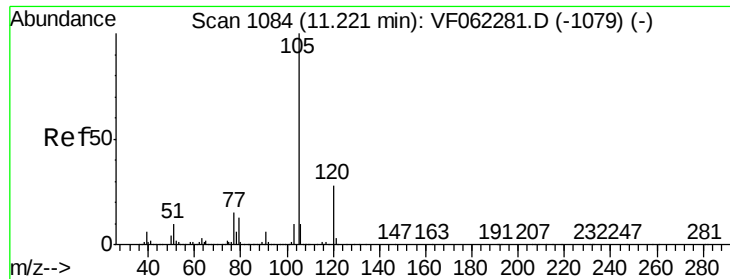
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	152	Resp:	259208
Ion Ratio	Lower	Upper	
152	100		
115	52.6	25.6	76.8
150	170.4	0.0	330.6





#73

Isopropylbenzene

Concen: 52.766 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion:105 Resp: 937099

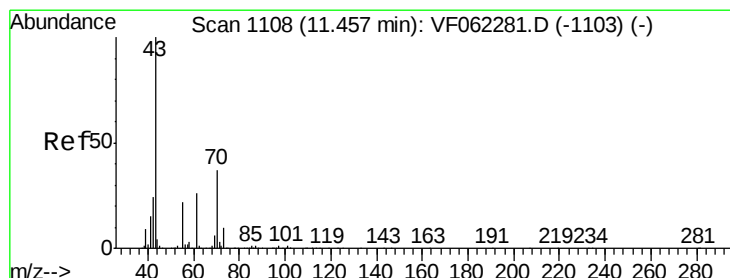
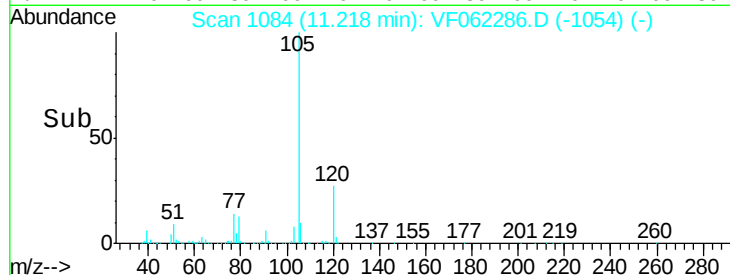
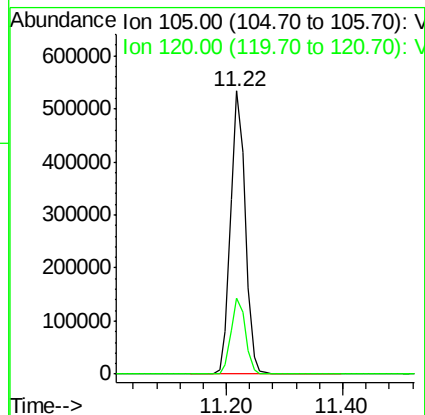
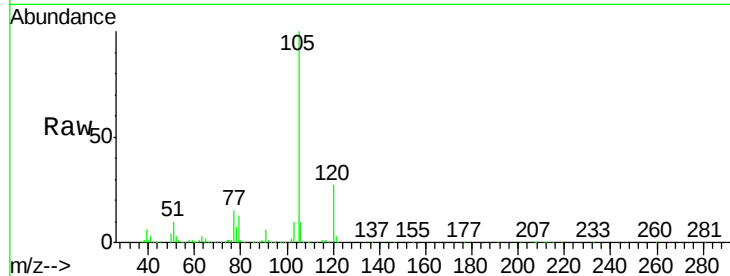
Ion Ratio Lower Upper

105 100

120 26.6 12.4 37.2

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#74

N-ethyl acetate

Concen: 47.203 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion: 43 Resp: 193152

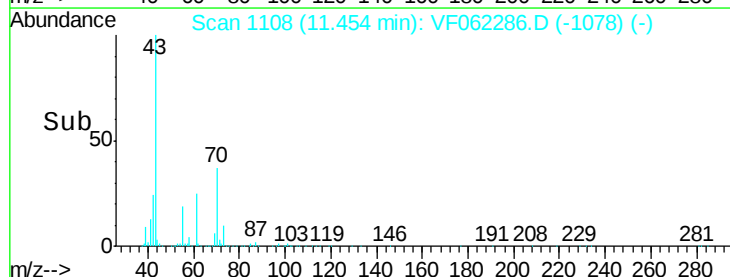
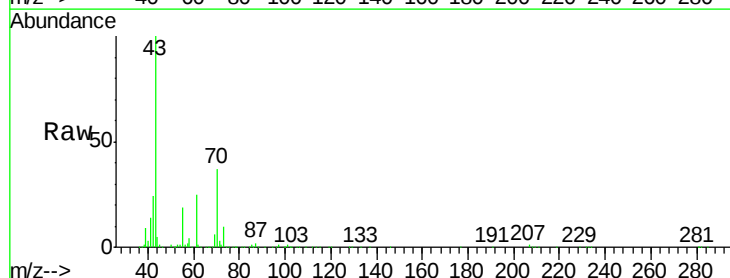
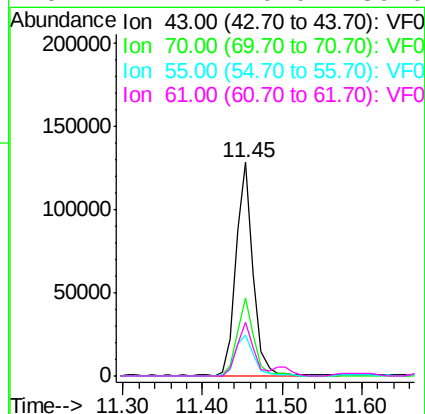
Ion Ratio Lower Upper

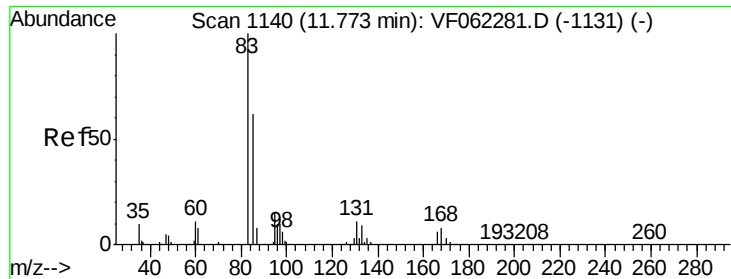
43 100

70 36.3 27.8 41.8

55 20.6 16.6 24.8

61 24.7 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 54.385 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

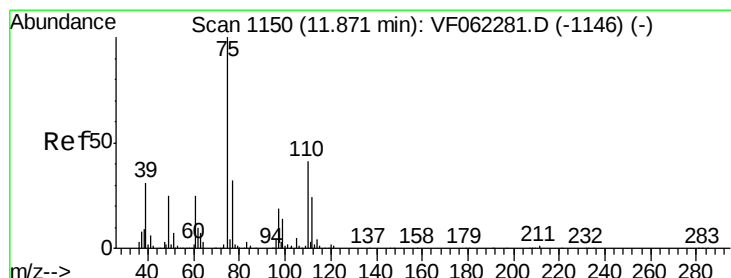
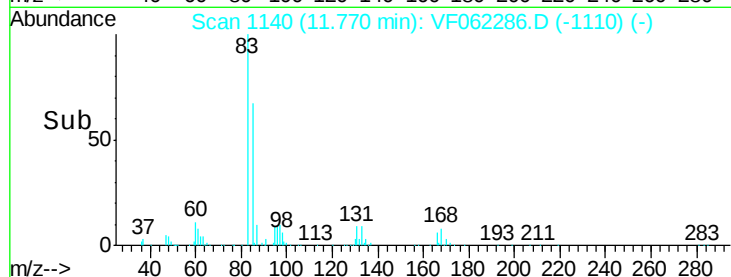
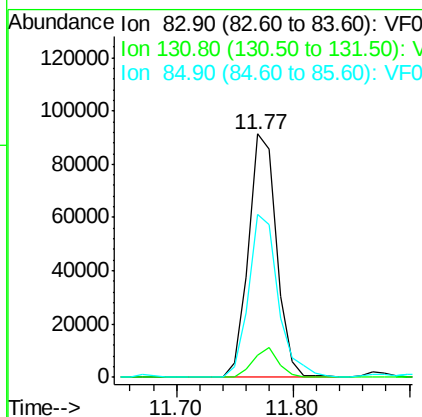
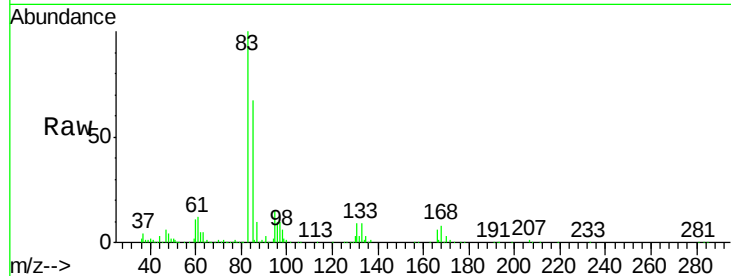
ClientSampleId :

ICVVF042419

Tot Ion:	83	Resp:	153449
Ion Ratio	Lower	Upper	
83	100		
131	11.3	5.5	16.5
85	70.9	34.5	103.6

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#76

1,2,3-Trichloropropane

Concen: 51.785 ug/l

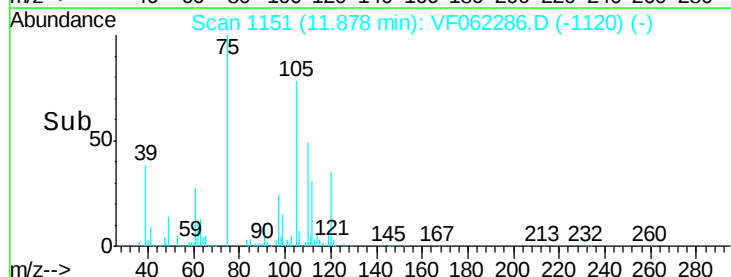
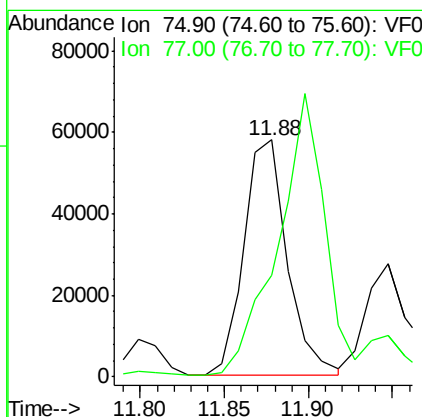
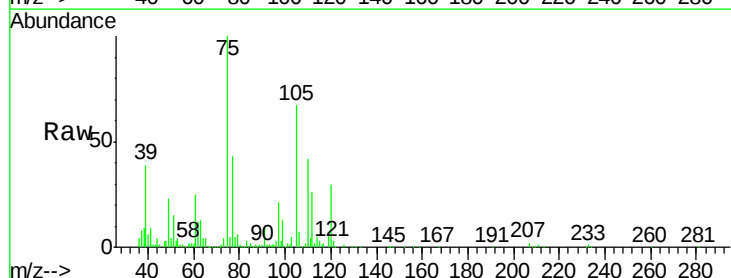
RT: 11.88 min Scan# 1151

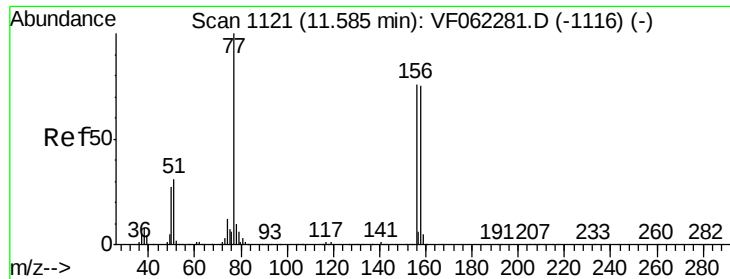
Delta R.T. 0.01 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	75	Resp:	103667
Ion Ratio	Lower	Upper	
75	100		
77	127.7	0.0	0.0#





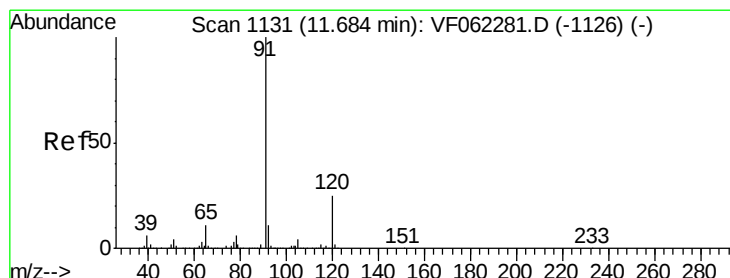
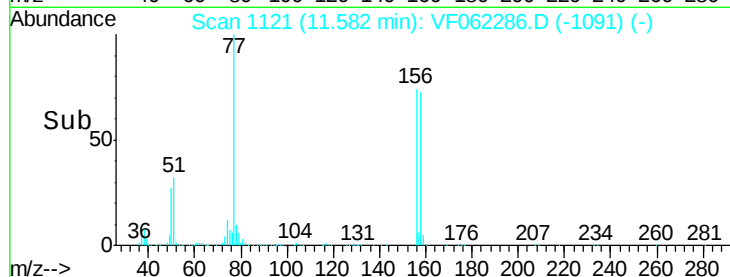
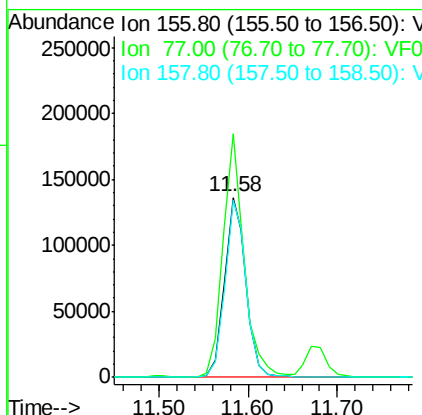
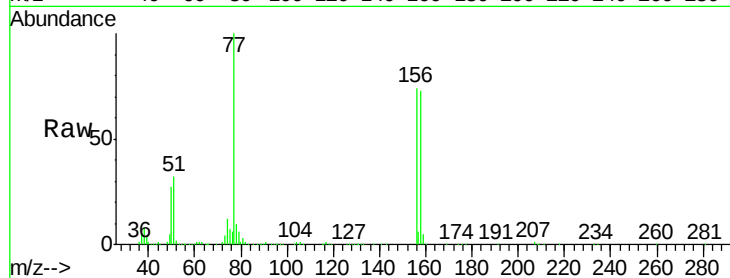
#77
Bromobenzene
Concen: 52.103 ug/l
RT: 11.58 min Scan# 1121
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
156	100		
77	132.3	67.3	201.9
158	98.2	49.5	148.5

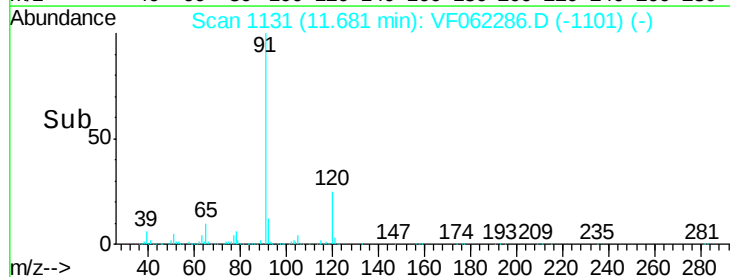
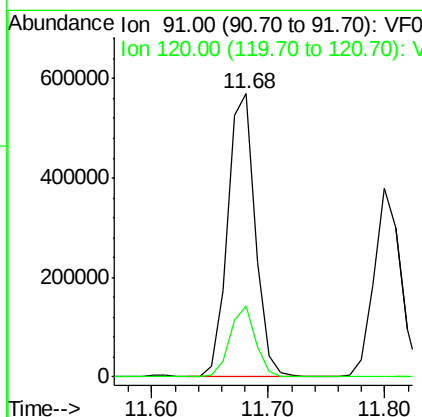
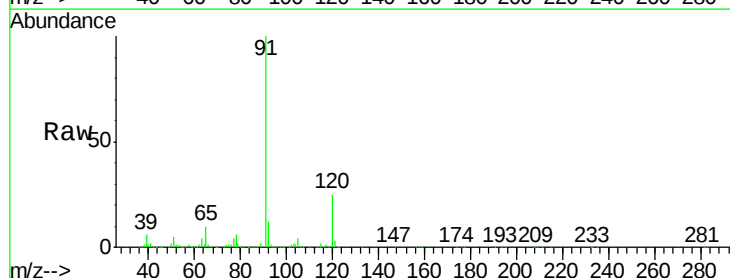
Manual Integrations
APPROVED

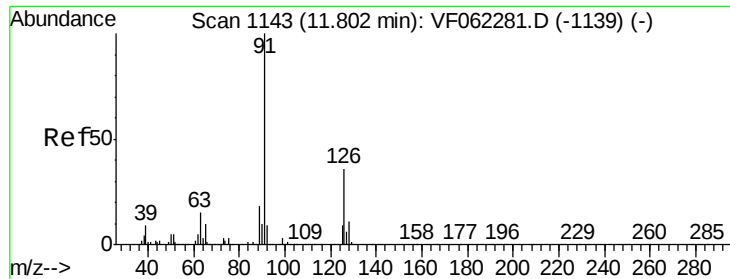
MMDadoda
4/26/2019 9:21:03 AM



#78
n-propylbenzene
Concen: 49.752 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	11.8	35.4





#79

2-Chlorotoluene

Concen: 53.104 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion: 91 Resp: 597730

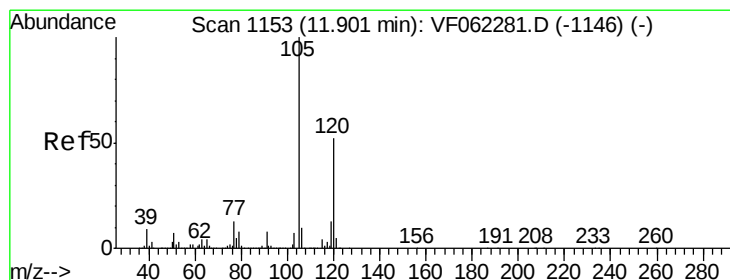
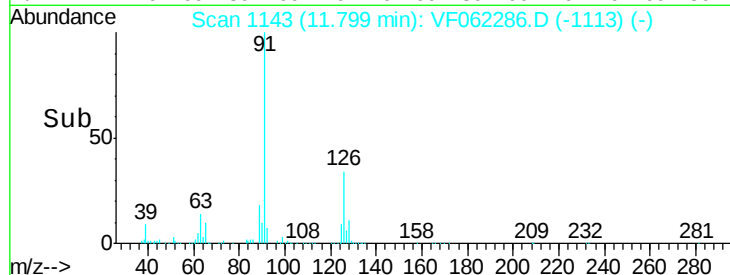
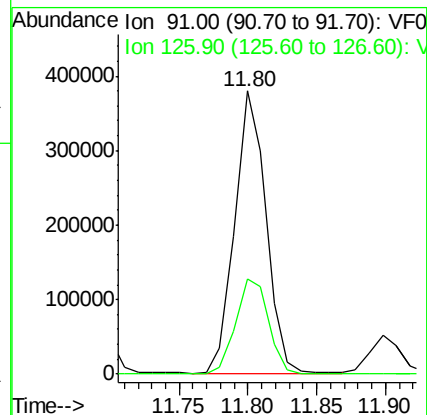
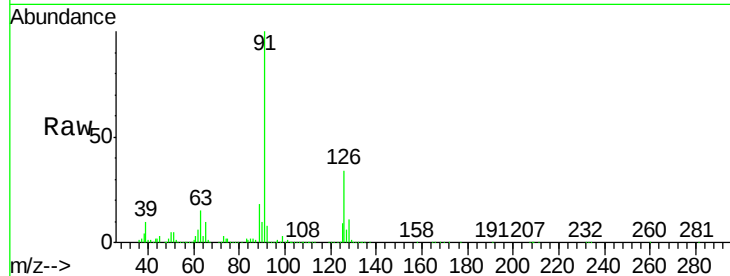
Ion Ratio Lower Upper

91 100

126 35.8 17.9 53.8

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#80

1,3,5-Trimethylbenzene

Concen: 51.528 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VF062286.D

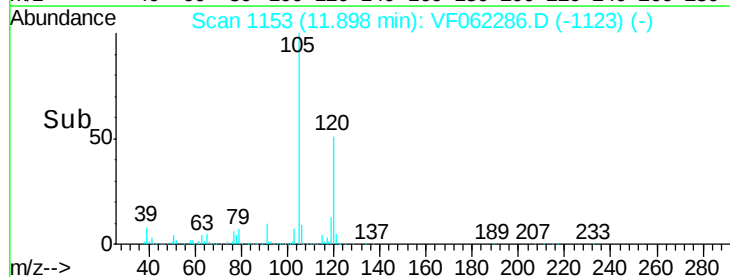
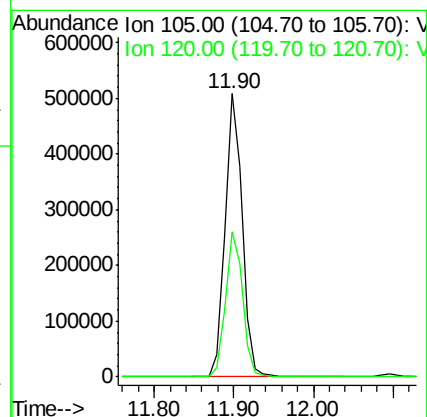
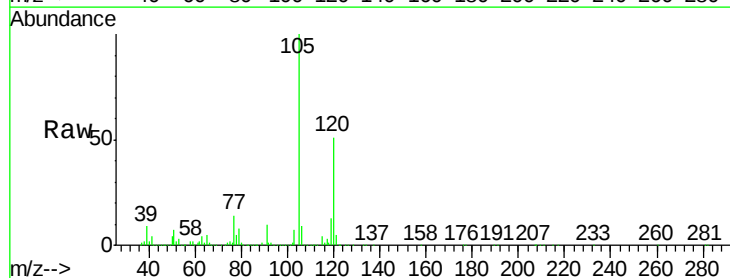
Acq: 24 Apr 2019 17:42

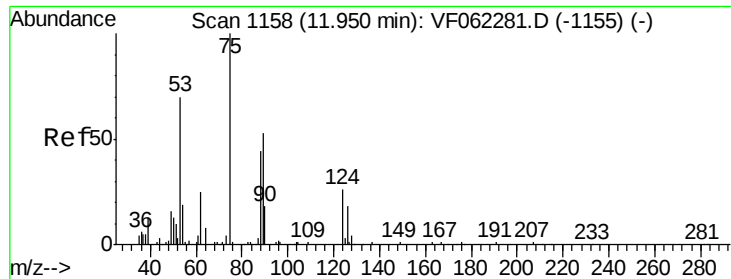
Tgt Ion:105 Resp: 772533

Ion Ratio Lower Upper

105 100

120 51.1 25.8 77.4





#81

trans-1,4-Dichloro-2-butene

Concen: 52.742 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

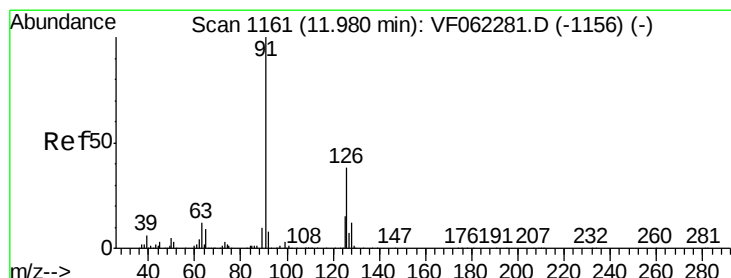
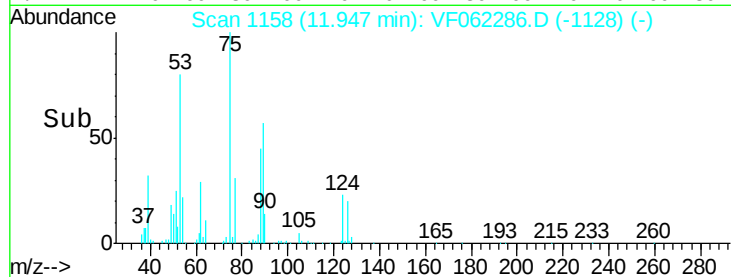
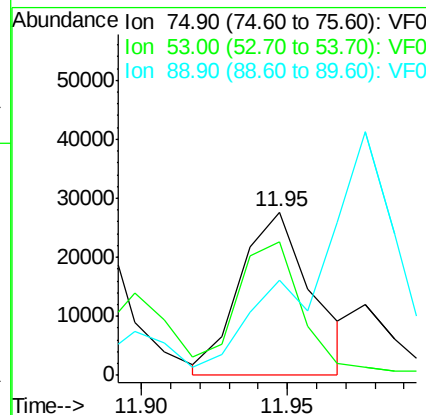
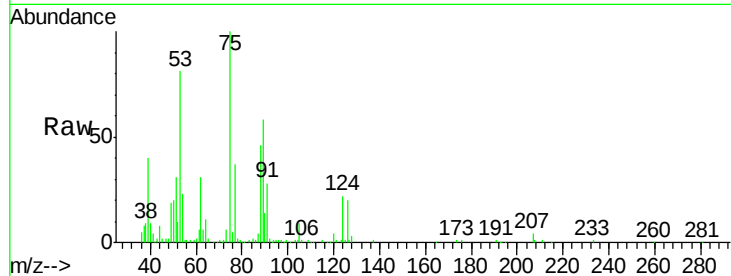
ClientSampleId :

ICVVF042419

Tot Ion:	75	Resp:	47195
Ion	Ratio	Lower	Upper
75	100		
53	78.1	67.1	100.7
89	0.0	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#82

4-Chlorotoluene

Concen: 50.222 ug/l

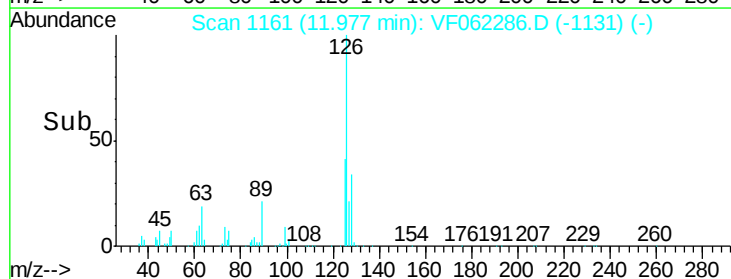
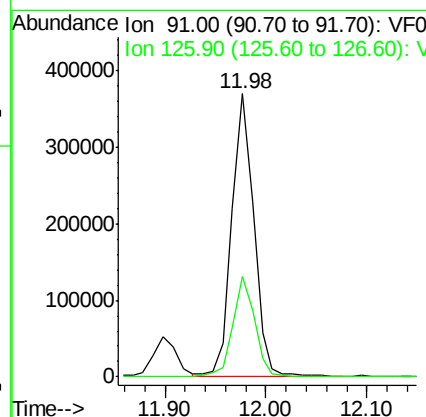
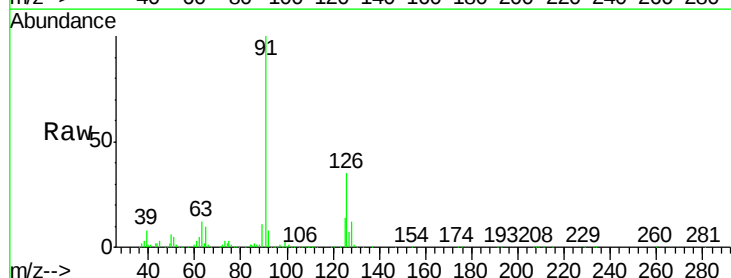
RT: 11.98 min Scan# 1161

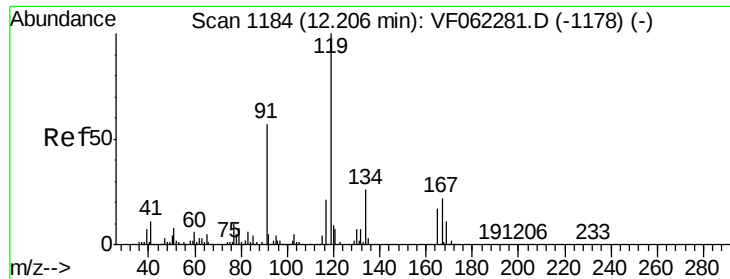
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	91	Resp:	559358
Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.3	52.0





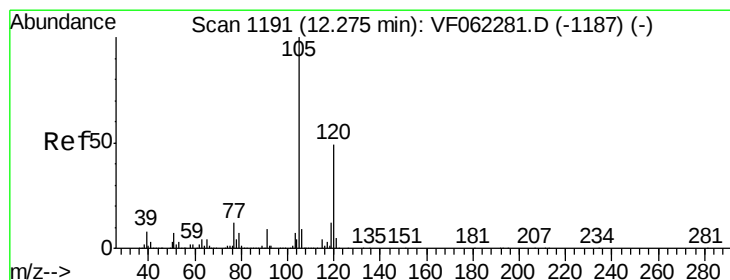
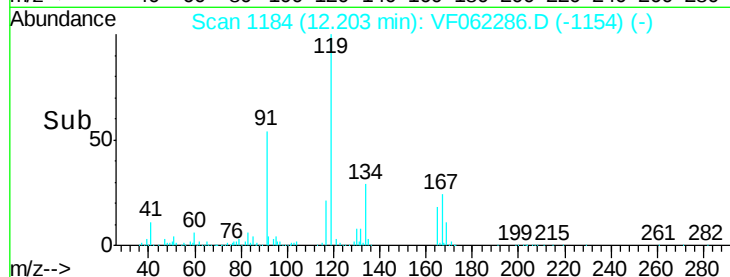
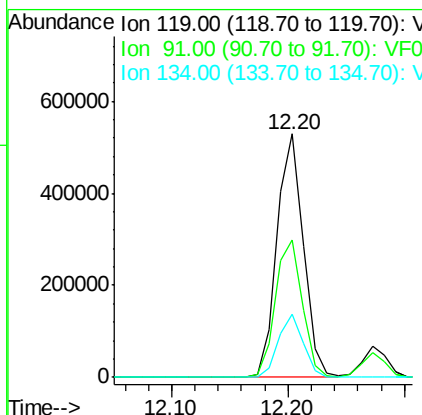
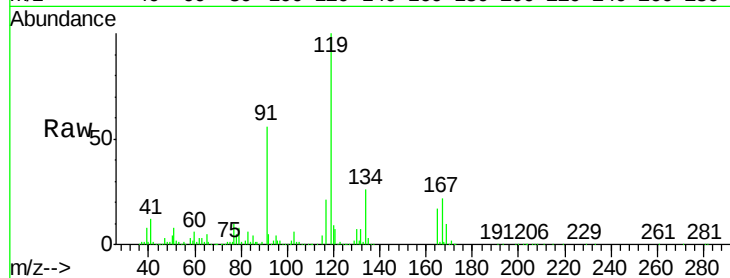
#83
tert-Butylbenzene
Concen: 53.941 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Resp	Lower	Upper
119	100	829956		
91	57.4	29.4	88.2	
134	24.9	11.9	35.7	

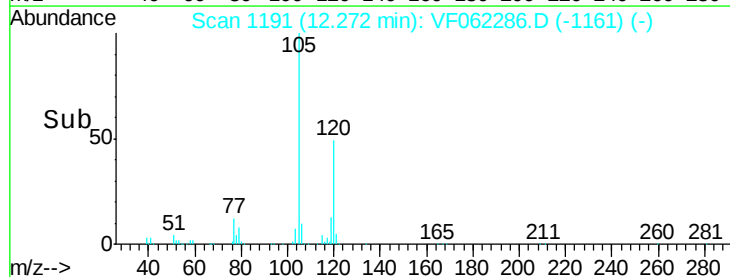
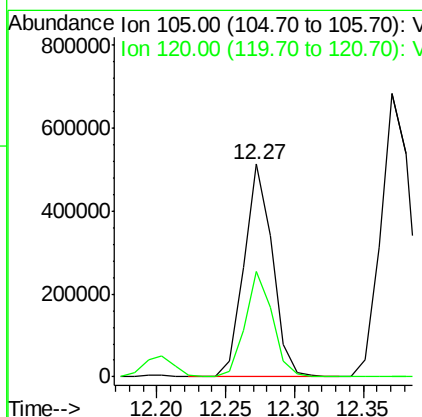
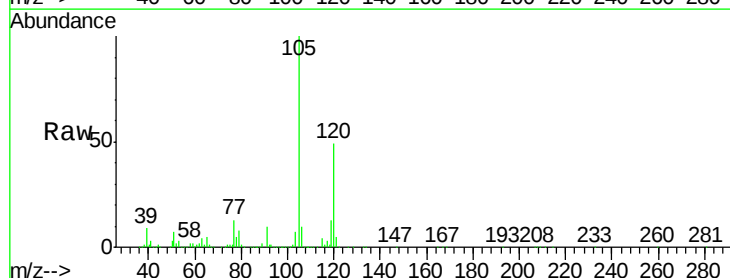
Manual Integrations
APPROVED

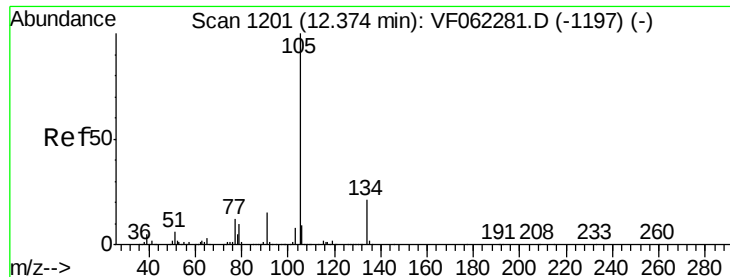
MMDadoda
4/26/2019 9:21:03 AM



#84
1,2,4-Trimethylbenzene
Concen: 50.802 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	737675		
120	47.7	24.1	72.2	





#85

sec-Butylbenzene

Concen: 54.160 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

ClientSampleId :

ICVVF042419

Tot Ion:105 Resp: 1037932

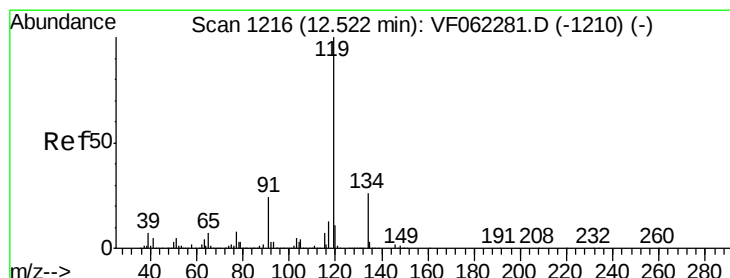
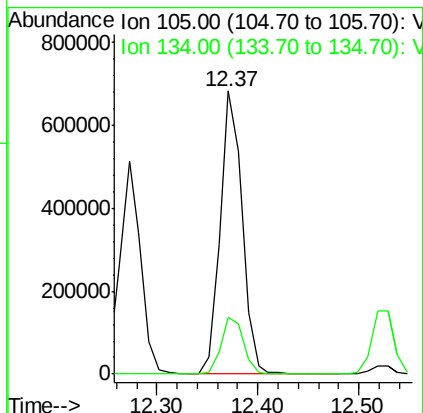
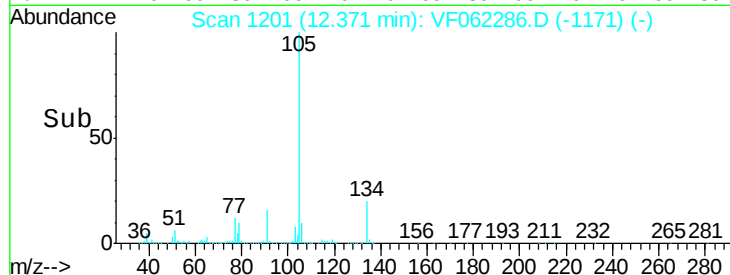
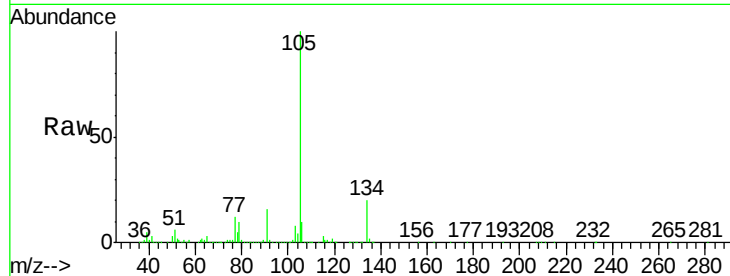
Ion Ratio Lower Upper

105 100

134 20.5 10.2 30.4

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#86

p-Isopropyltoluene

Concen: 52.335 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

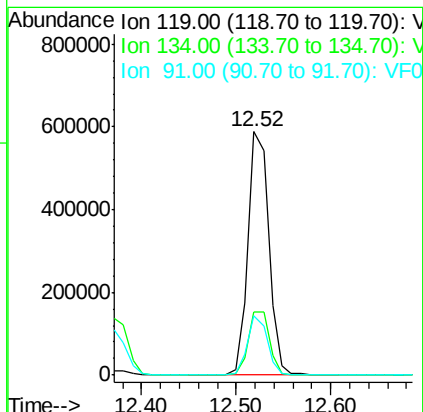
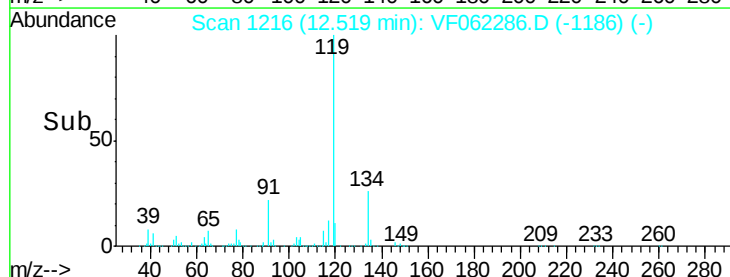
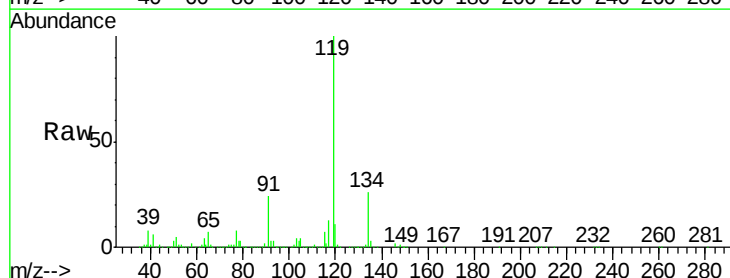
Tgt Ion:119 Resp: 899197

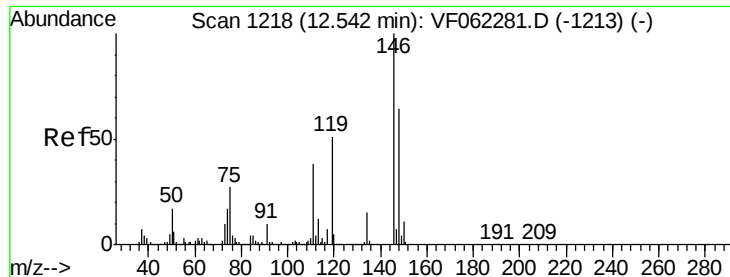
Ion Ratio Lower Upper

119 100

134 26.6 13.2 39.5

91 23.6 11.6 34.7





#87

1,3-Dichlorobenzene

Concen: 50.579 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VF062286.D

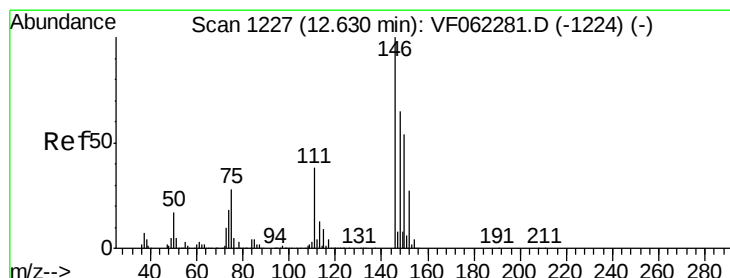
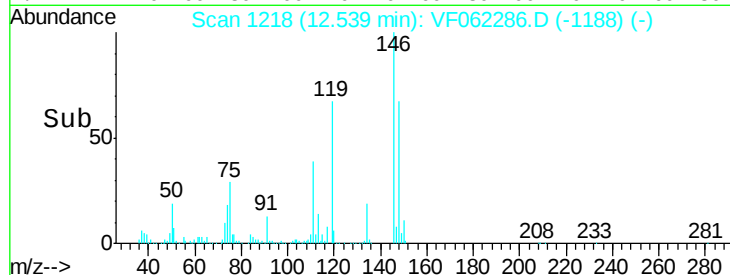
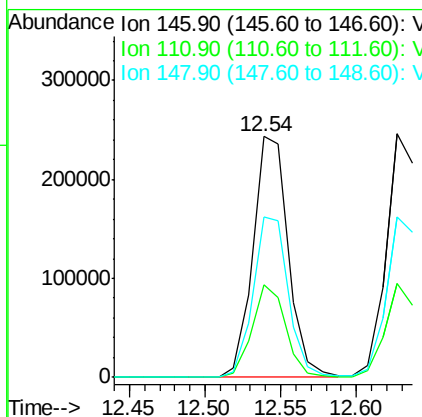
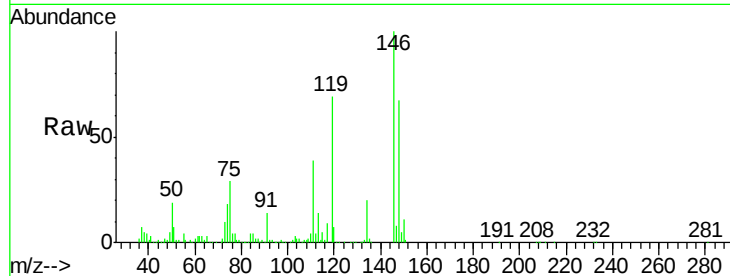
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.6	55.8
148	66.8	32.8	98.4

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#88

1,4-Dichlorobenzene

Concen: 51.814 ug/l

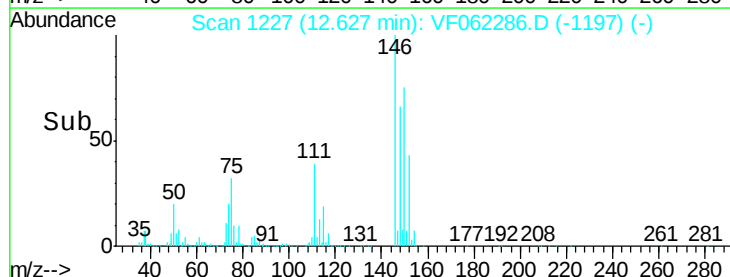
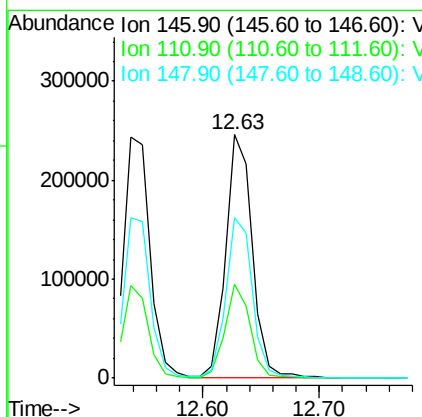
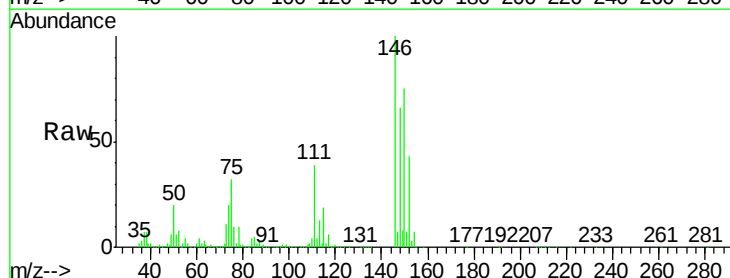
RT: 12.63 min Scan# 1227

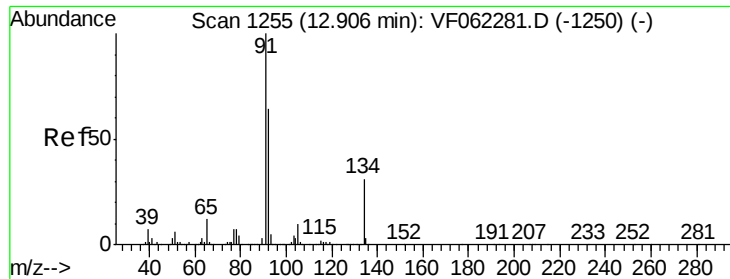
Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.6	56.0
148	66.4	32.5	97.5





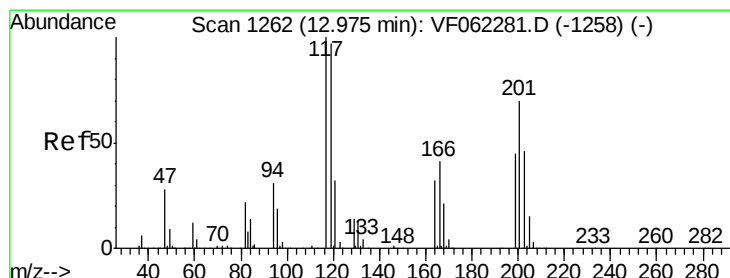
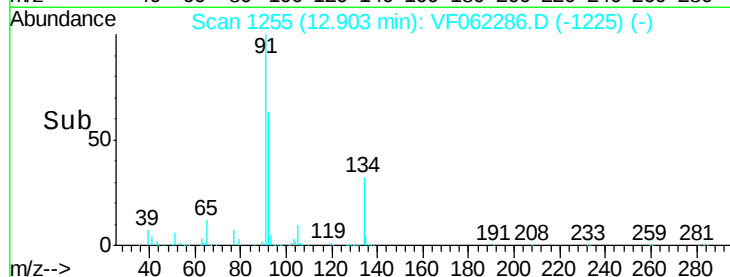
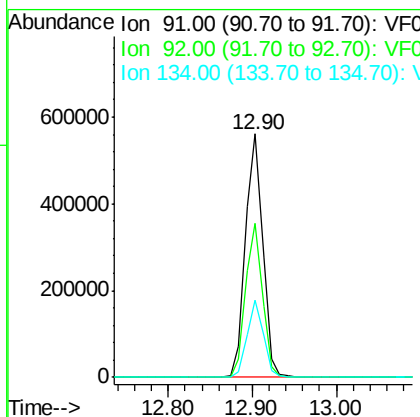
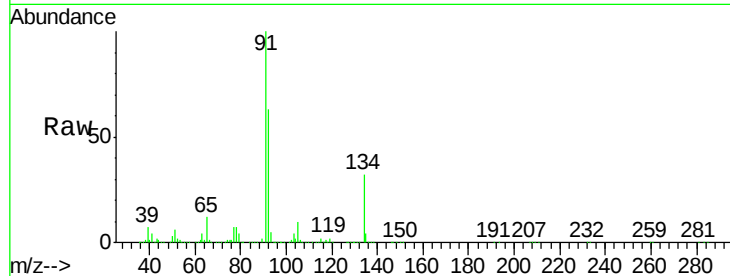
#89
n-Butylbenzene
Concen: 51.644 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Instrument :
MSVOA_F
ClientSampleId :
ICVVF042419

Tot Ion	Ratio	Resp	Lower	Upper
91	100	806245		
92	61.9		31.1	93.3
134	29.9		14.4	43.4

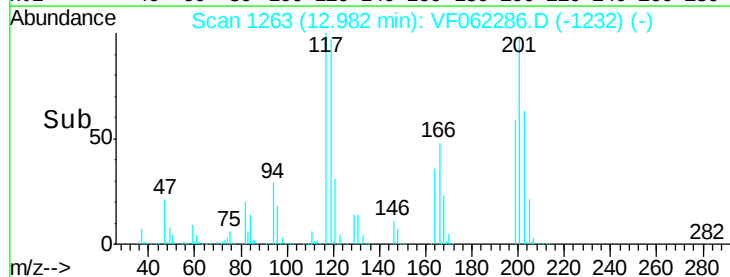
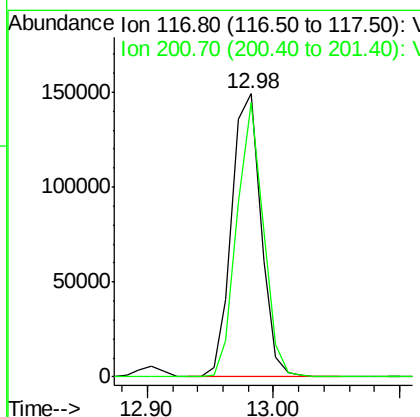
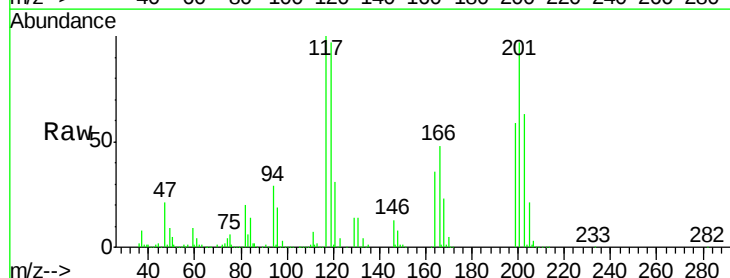
Manual Integrations
APPROVED

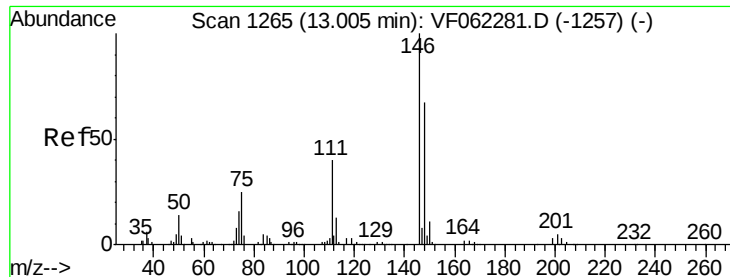
MMDadoda
4/26/2019 9:21:03 AM



#90
Hexachloroethane
Concen: 55.680 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VF062286.D
Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	239805		
201	87.4		42.9	128.5





#91

1,2-Dichlorobenzene

Concen: 51.842 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

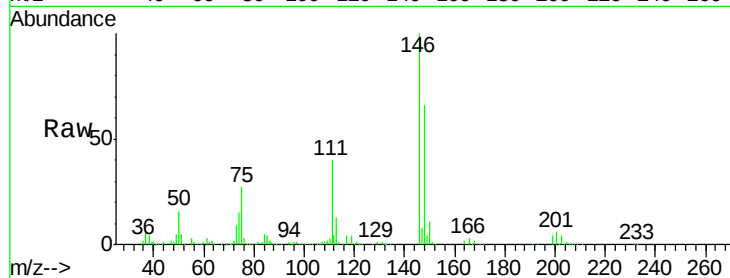
ClientSampleId :

ICVVF042419

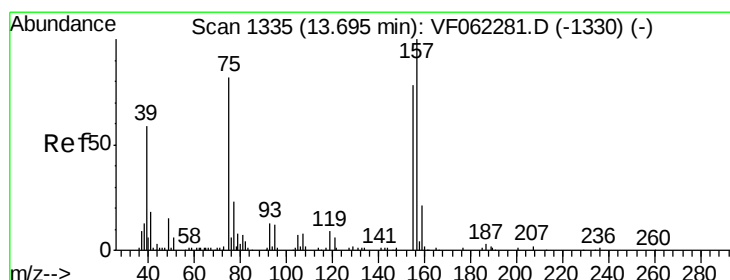
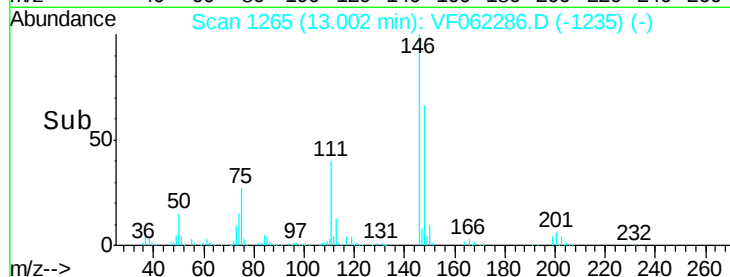
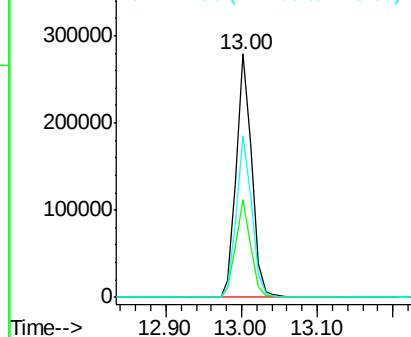
Tot Ion:	146	Resp:	390872
Ion Ratio	Lower	Upper	
146	100		
111	38.7	20.0	59.9
148	66.3	33.1	99.5

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 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: 55.843 ug/l

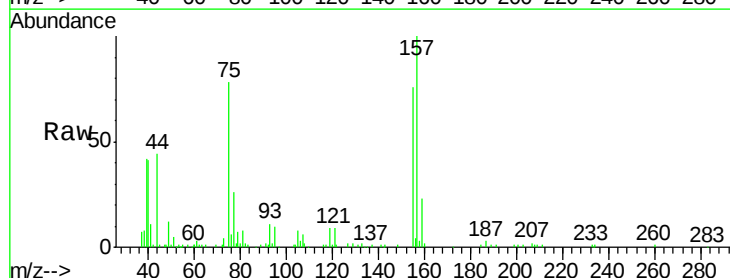
RT: 13.69 min Scan# 1335

Delta R.T. -0.00 min

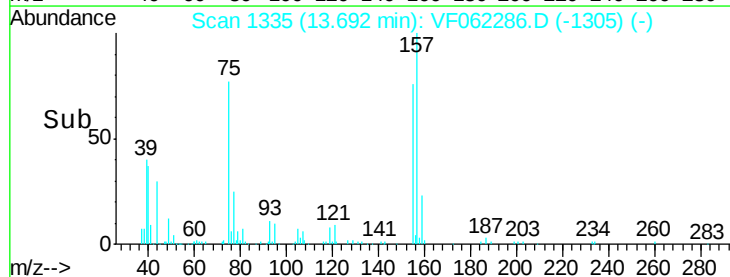
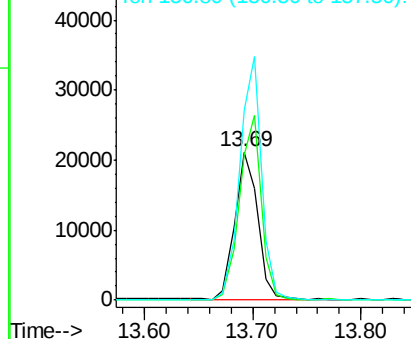
Lab File: VF062286.D

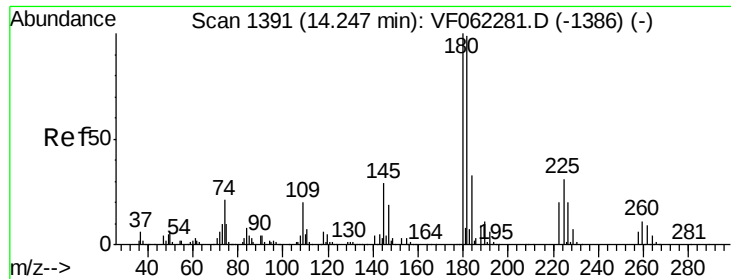
Acq: 24 Apr 2019 17:42

Tgt Ion:	75	Resp:	31786
Ion Ratio	Lower	Upper	
75	100		
155	115.8	51.7	155.2
157	152.4	64.5	193.5



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





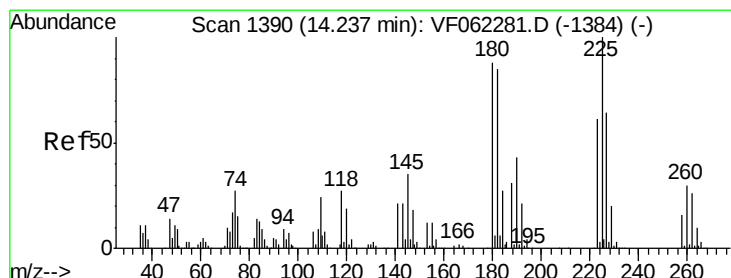
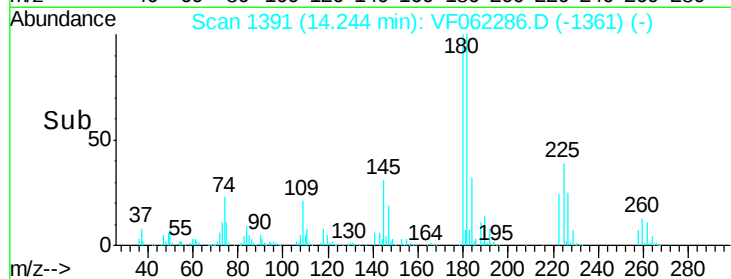
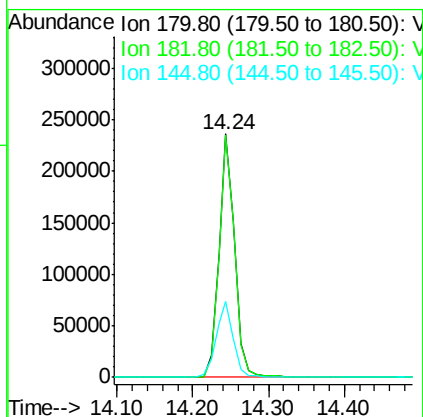
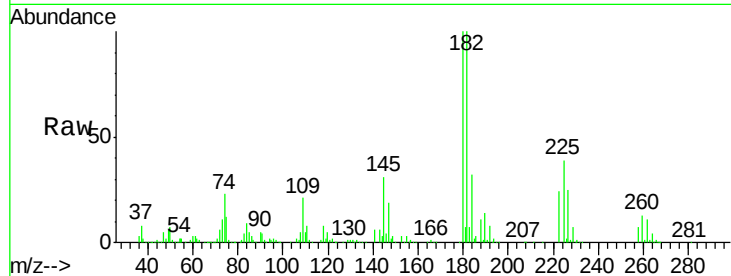
#93
 1,2,4-Trichlorobenzene
 Concen: 51.965 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF042419

Tot Ion	Ratio	Resp	Lower	Upper
180	100	344201		
182	98.6	48.5	145.6	
145	34.0	16.7	50.1	

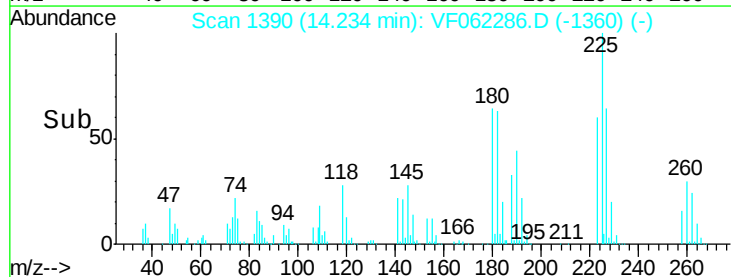
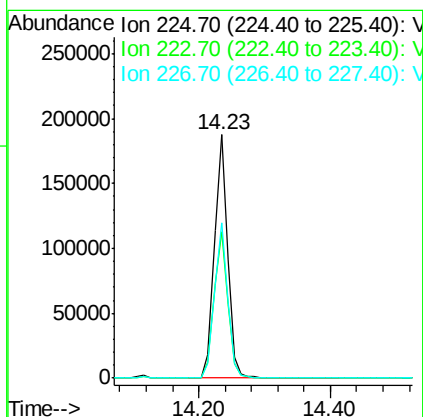
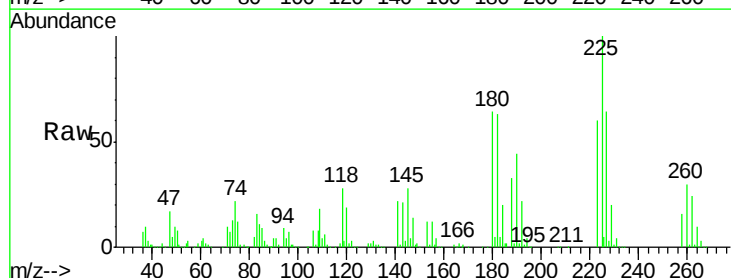
Manual Integrations
 APPROVED

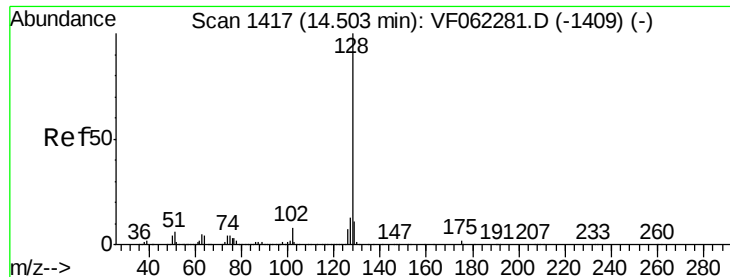
MMDadoda
 4/26/2019 9:21:03 AM



#94
 Hexachlorobutadiene
 Concen: 54.304 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062286.D
 Acq: 24 Apr 2019 17:42

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	258681		
223	61.8	30.8	92.3	
227	63.7	31.9	95.5	





#95

Naphthalene

Concen: 54.753 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Instrument :

MSVOA_F

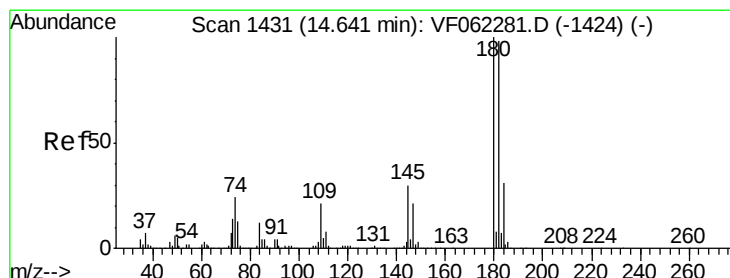
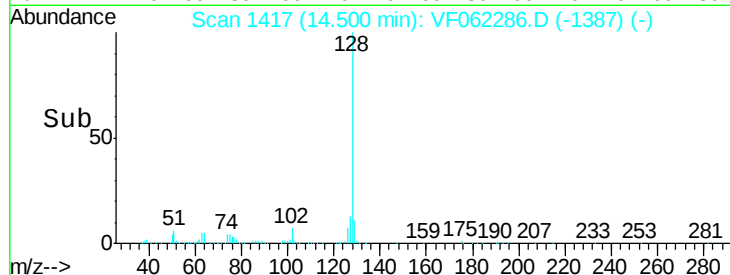
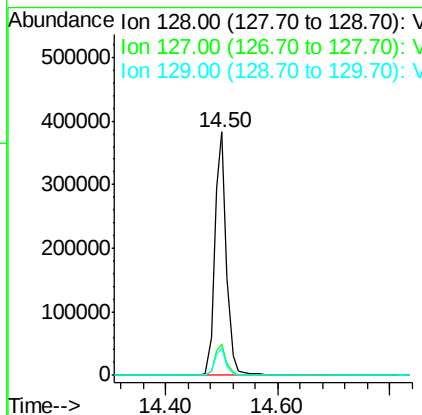
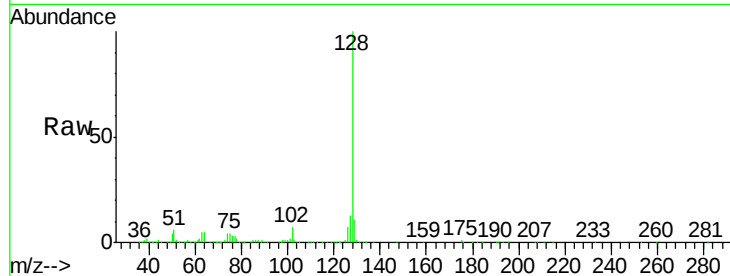
ClientSampleId :

ICVVF042419

Tot Ion:	128	Resp:	561855
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.4
129	10.9	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
4/26/2019 9:21:03 AM



#96

1,2,3-Trichlorobenzene

Concen: 54.090 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VF062286.D

Acq: 24 Apr 2019 17:42

Tgt Ion:	180	Resp:	338850
Ion Ratio	Lower	Upper	
180	100		
182	97.6	49.0	147.2
145	29.3	14.5	43.5

