

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012819\
 Data File : VF061537.D
 Acq On : 28 Jan 2019 13:13
 Operator : VA/AP
 Sample : VF0128SBS01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0128SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/29/2019 12:18:59 PM

Quant Time: Jan 29 04:31:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	195442	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	348748	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	302838	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	157268	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	124610	51.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.28%	
35) Dibromofluoromethane	4.11	113	141540	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
50) Toluene-d8	7.54	98	371683	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	
62) 4-Bromofluorobenzene	11.40	95	163975	46.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	70576	18.378	ug/l	89
3) Chloromethane	1.10	50	56677	20.129	ug/l	97
4) Vinyl Chloride	1.14	62	51059	20.385	ug/l	99
5) Bromomethane	1.32	94	31559	19.322	ug/l	96
6) Chloroethane	1.40	64	23062	20.779	ug/l	90
7) Trichlorofluoromethane	1.48	101	87636	17.998	ug/l	97
8) Diethyl Ether	1.63	74	14552	23.323	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.83	101	47091	20.127	ug/l	97
10) Methyl Iodide	1.91	142	75150m	20.718	ug/l	
11) Tert butyl alcohol	2.57	59	11612	113.690	ug/l #	90
12) 1,1-Dichloroethene	1.79	96	37382	21.505	ug/l	96
13) Acrolein	2.00	56	6305	79.042	ug/l	98
14) Allyl chloride	2.10	41	59078	30.822	ug/l	87
15) Acrylonitrile	2.93	53	31518	120.470	ug/l	94
16) Acetone	2.23	43	64102	132.422	ug/l	96
17) Carbon Disulfide	1.83	76	110213m	20.334	ug/l	
18) Methyl Acetate	2.34	43	23624	24.609	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	79341	20.361	ug/l	96
20) Methylene Chloride	2.18	84	41163m	24.142	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	41147	21.515	ug/l	93
22) Diisopropyl ether	2.80	45	144246	23.319	ug/l	99
23) Vinyl Acetate	3.18	43	361619	134.403	ug/l	100
24) 1,1-Dichloroethane	2.87	63	83965	21.627	ug/l	99
25) 2-Butanone	4.33	43	101904	126.590	ug/l	100
26) 2,2-Dichloropropane	3.59	77	45363	19.018	ug/l	96
27) cis-1,2-Dichloroethene	3.47	96	61788	21.886	ug/l	94
28) Bromochloromethane	3.71	49	40659	23.298	ug/l #	94
29) Tetrahydrofuran	4.07	42	41272	119.068	ug/l	99
30) Chloroform	3.86	83	111474	21.275	ug/l	98
31) Cyclohexane	3.67	56	83789m	21.605	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	71351	18.572	ug/l	98
36) 1,1-Dichloropropene	4.27	75	87568	21.656	ug/l	99
37) Ethyl Acetate	4.10	43	37416	23.149	ug/l	91
38) Carbon Tetrachloride	3.98	117	64234	18.171	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012819\
 Data File : VF061537.D
 Acq On : 28 Jan 2019 13:13
 Operator : VA/AP
 Sample : VF0128SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0128SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/29/2019 12:18:59 PM

Quant Time: Jan 29 04:31:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	86636	19.771	ug/l	96
40) Benzene	4.62	78	208167	23.136	ug/l	99
41) Methacrylonitrile	4.74	41	20557	23.902	ug/l	94
42) 1,2-Dichloroethane	4.93	62	63290	19.740	ug/l	99
43) Isopropyl Acetate	6.95	43	45864	22.608	ug/l #	99
44) Trichloroethene	5.49	130	60571	21.945	ug/l	92
45) 1,2-Dichloropropane	6.22	63	50228	21.270	ug/l	92
46) Dibromomethane	6.08	93	33372	21.253	ug/l	94
47) Bromodichloromethane	6.38	83	82517	21.240	ug/l	96
48) Methyl methacrylate	6.70	41	30252	22.208	ug/l	93
49) 1,4-Dioxane	6.70	88	4360	418.131	ug/l #	78
51) 4-Methyl-2-Pentanone	8.25	43	166316	111.520	ug/l	99
52) Toluene	7.61	92	121868	20.568	ug/l	100
53) t-1,3-Dichloropropene	8.27	75	66168	21.449	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	81945	21.251	ug/l	95
55) 1,1,2-Trichloroethane	8.48	97	33969	20.188	ug/l	94
56) Ethyl methacrylate	8.61	69	42944	21.937	ug/l	97
57) 1,3-Dichloropropane	8.84	76	63688	20.194	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.28	63	32901	170.152	ug/l	100
59) 2-Hexanone	9.48	43	130442	125.431	ug/l	95
60) Dibromochloromethane	8.71	129	49320	20.050	ug/l	99
61) 1,2-Dibromoethane	8.97	107	37358	19.394	ug/l	96
64) Tetrachloroethene	8.14	164	47988	21.072	ug/l	93
65) Chlorobenzene	9.79	112	136344	22.139	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.92	131	52099	21.236	ug/l	97
67) Ethyl Benzene	9.89	91	236195	20.992	ug/l	99
68) m/p-Xylenes	10.13	106	174760	43.184	ug/l	100
69) o-Xylene	10.70	106	95988	21.885	ug/l	94
70) Styrene	10.78	104	132145	22.010	ug/l	99
71) Bromoform	10.77	173	26500	24.041	ug/l #	93
73) Isopropylbenzene	11.11	105	288583	22.562	ug/l	97
74) N-amyl acetate	11.37	43	78576	25.979	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.68	83	51018	22.389	ug/l	93
76) 1,2,3-Trichloropropane	11.78	75	35429	21.638	ug/l	97
77) Bromobenzene	11.49	156	55402	20.509	ug/l	89
78) n-propylbenzene	11.59	91	339616	20.391	ug/l	97
79) 2-Chlorotoluene	11.71	91	195797	22.062	ug/l	97
80) 1,3,5-Trimethylbenzene	11.81	105	232360	22.510	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	17065m	23.976	ug/l	
82) 4-Chlorotoluene	11.89	91	188755	21.077	ug/l	98
83) tert-Butylbenzene	12.12	119	231767	21.693	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	226517	21.304	ug/l	94
85) sec-Butylbenzene	12.30	105	316681	21.826	ug/l	96
86) p-Isopropyltoluene	12.45	119	268580	22.550	ug/l	97
87) 1,3-Dichlorobenzene	12.46	146	114082	20.102	ug/l	96
88) 1,4-Dichlorobenzene	12.56	146	110747	21.696	ug/l	97
89) n-Butylbenzene	12.84	91	270308	22.006	ug/l	96
90) Hexachloroethane	12.91	117	64135	22.843	ug/l	85
91) 1,2-Dichlorobenzene	12.94	146	105477	20.873	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7616	18.844	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012819\
Data File : VF061537.D
Acq On : 28 Jan 2019 13:13
Operator : VA/AP
Sample : VF0128SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBSD01

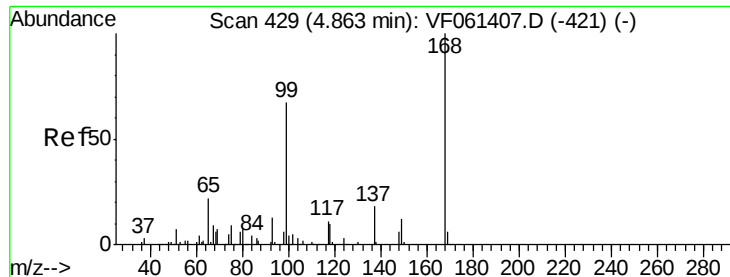
Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM

Quant Time: Jan 29 04:31:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	70787	19.997	ug/l	94
94) Hexachlorobutadiene	14.18	225	43072	19.608	ug/l	94
95) Naphthalene	14.45	128	137745	20.481	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	66366	20.252	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBSD01

Tot Ion:168 Resp: 195442

Ion Ratio Lower Upper

168 100

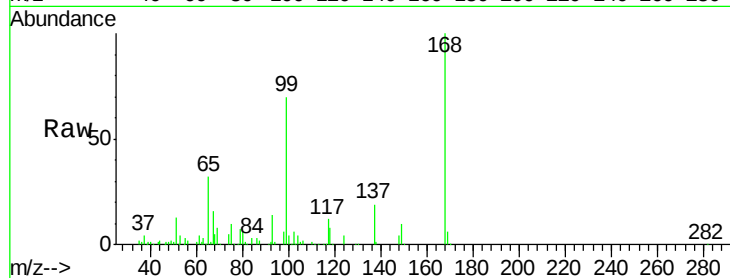
99 69.6 53.5 80.3

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

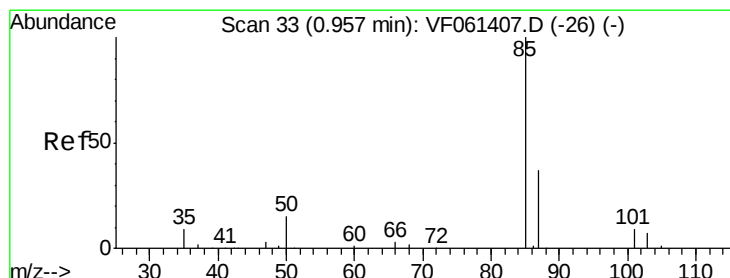
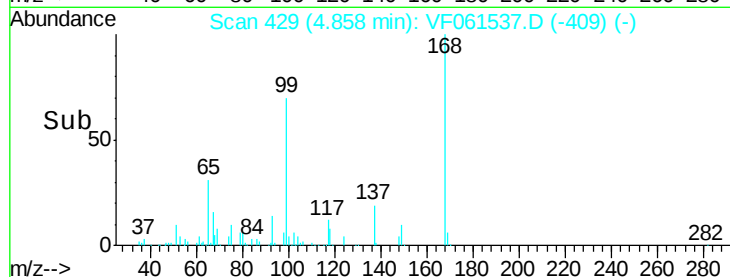
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.378 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061537.D

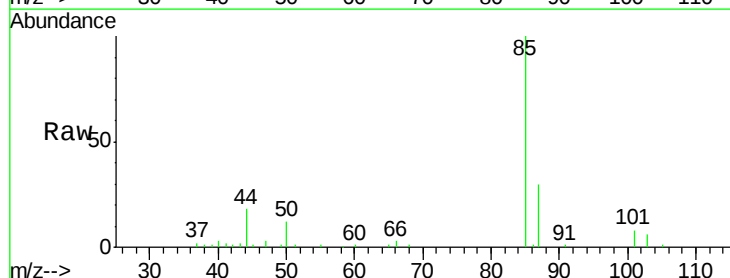
Acq: 28 Jan 2019 13:13

Tgt Ion: 85 Resp: 70576

Ion Ratio Lower Upper

85 100

87 30.4 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

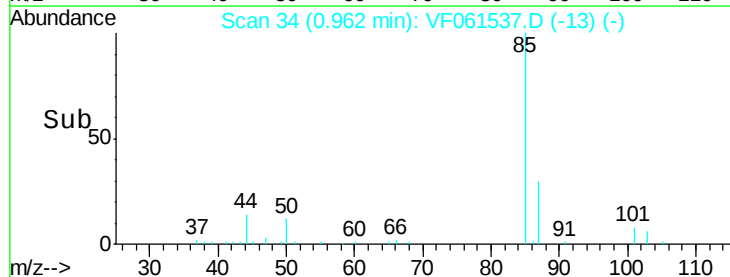
15000

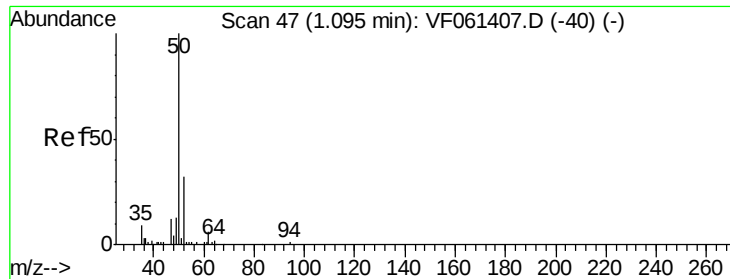
10000

5000

0

Time-->





#3

Chloromethane

Concen: 20.129 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 50 Resp: 56677

Ion Ratio Lower Upper

50 100

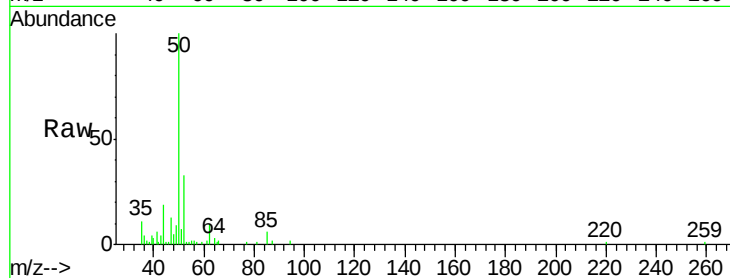
52 32.6 24.6 36.8

Manual Integrations

APPROVED

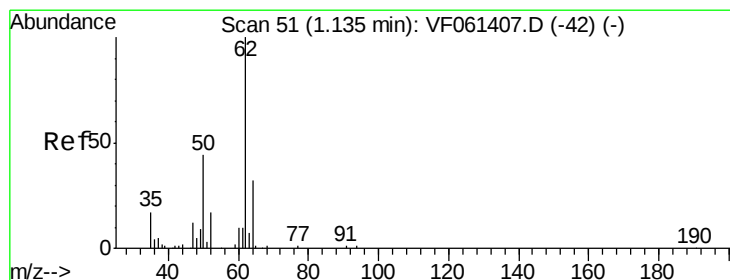
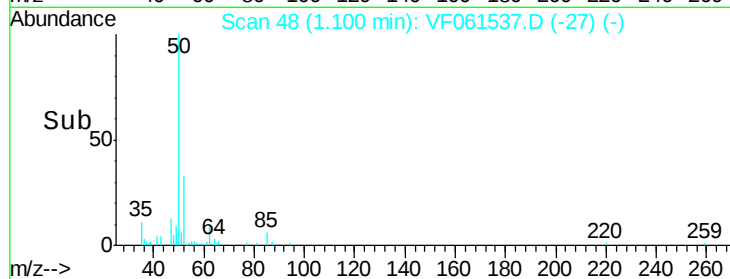
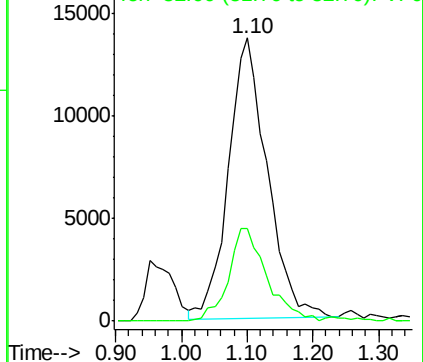
MMDadoda

1/29/2019 12:18:59 PM



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 20.385 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061537.D

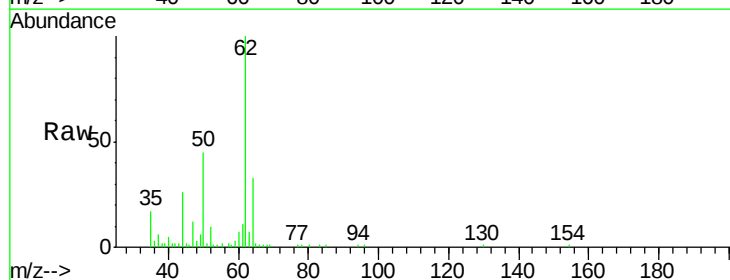
Acq: 28 Jan 2019 13:13

Tgt Ion: 62 Resp: 51059

Ion Ratio Lower Upper

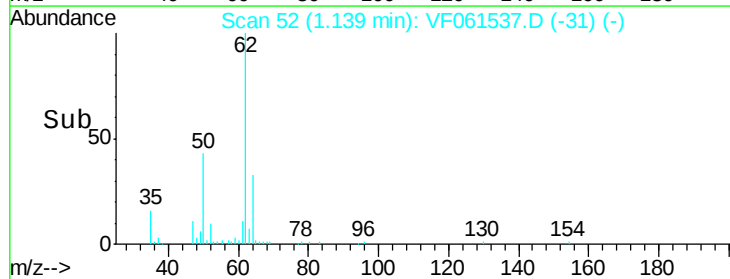
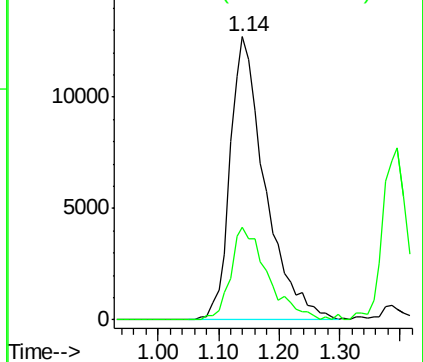
62 100

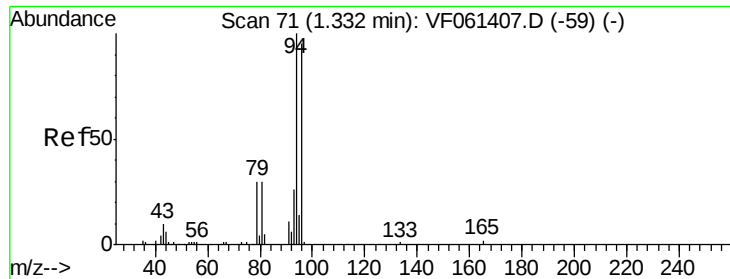
64 32.6 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 19.322 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 94 Resp: 31559

Ion Ratio Lower Upper

94 100

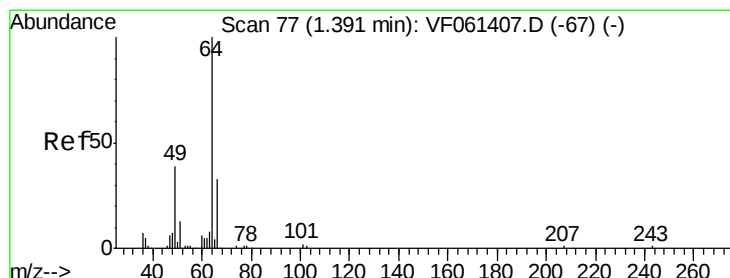
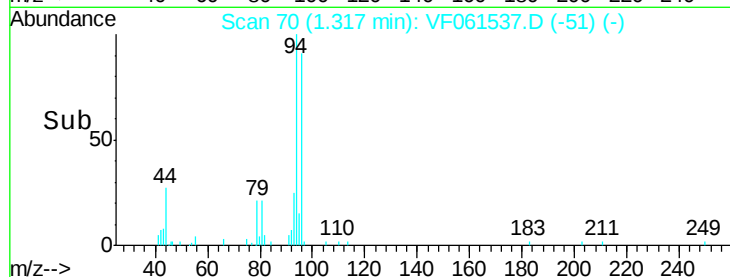
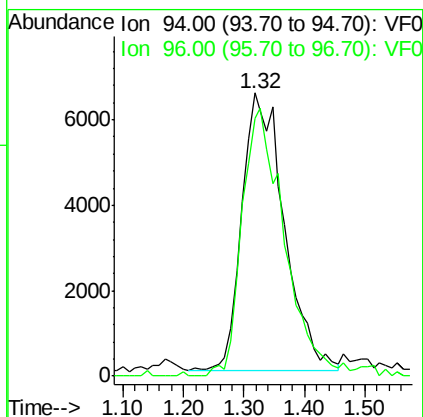
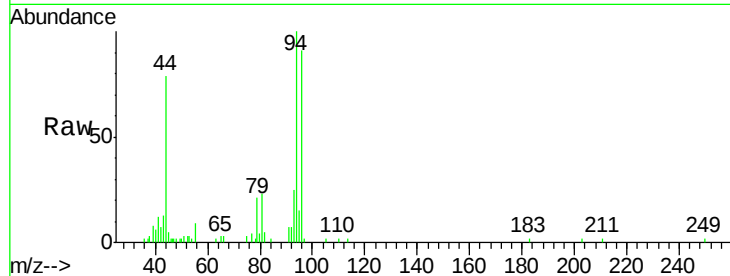
96 91.1 76.0 114.0

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#6

Chloroethane

Concen: 20.779 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061537.D

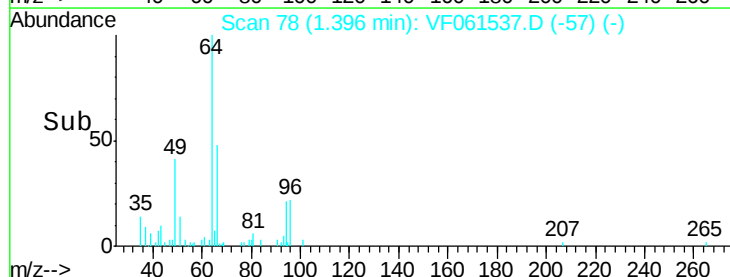
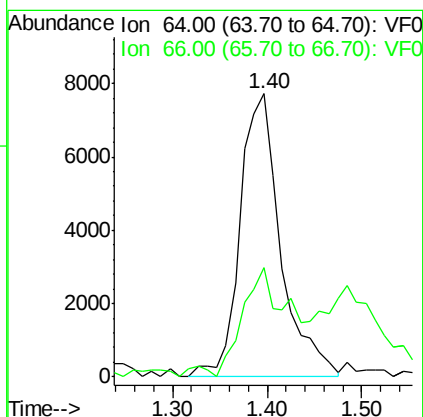
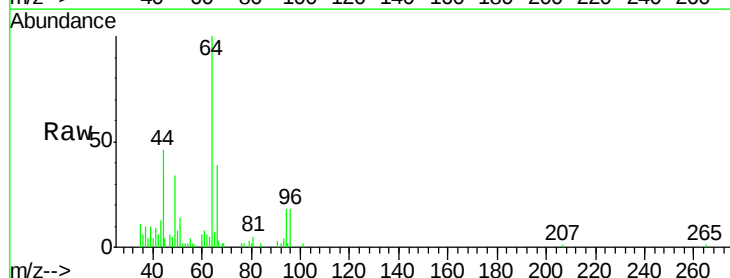
Acq: 28 Jan 2019 13:13

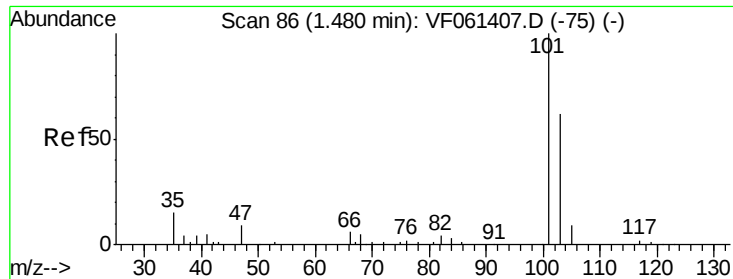
Tgt Ion: 64 Resp: 23062

Ion Ratio Lower Upper

64 100

66 38.8 26.6 40.0





#7

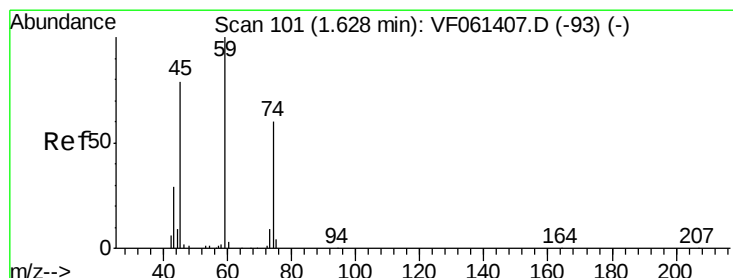
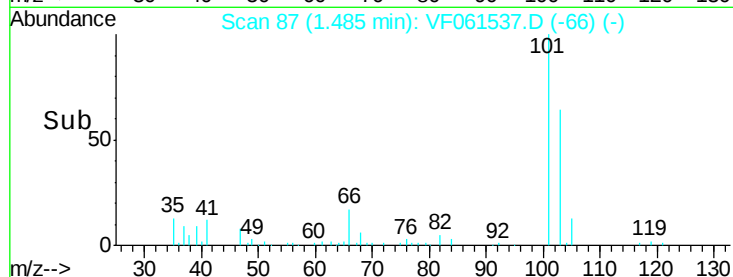
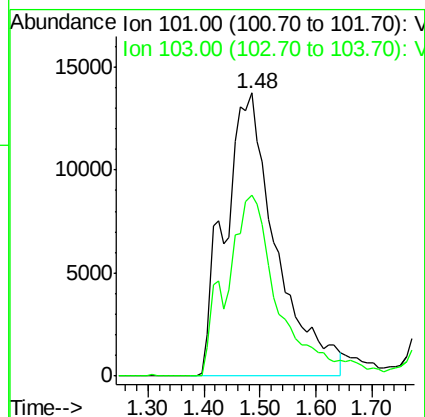
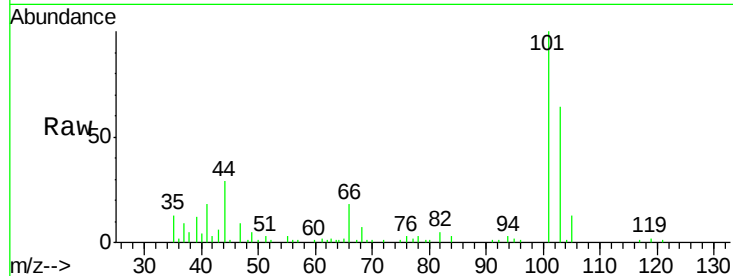
Trichlorofluoromethane
Concen: 17.998 ug/l
RT: 1.48 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion:101 Resp: 87636
Ion Ratio Lower Upper
101 100
103 64.1 49.7 74.5

Manual Integrations
APPROVED

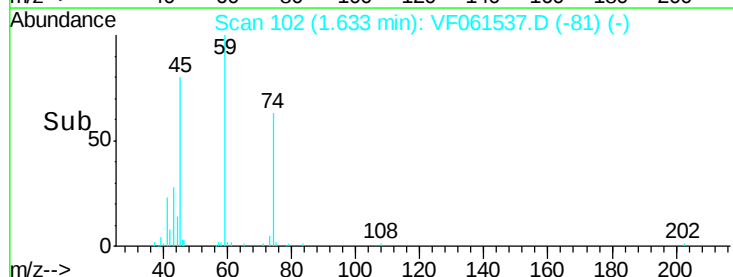
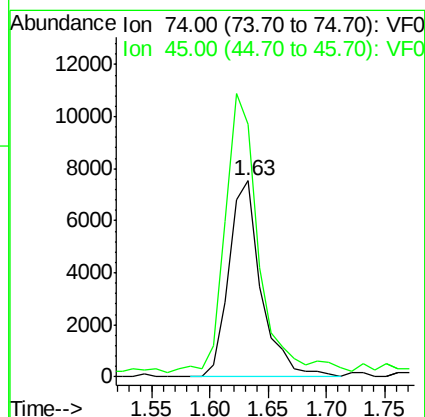
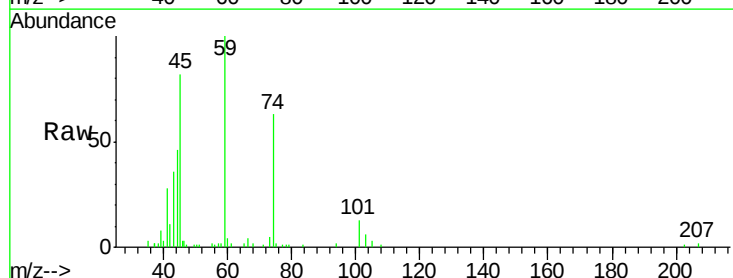
MMDadoda
1/29/2019 12:18:59 PM



#8

Diethyl Ether
Concen: 23.323 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion: 74 Resp: 14552
Ion Ratio Lower Upper
74 100
45 129.4 65.8 197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.127 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

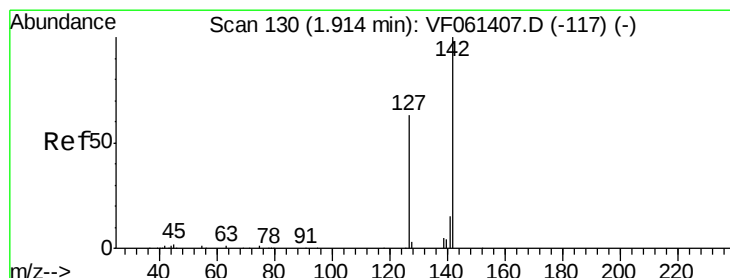
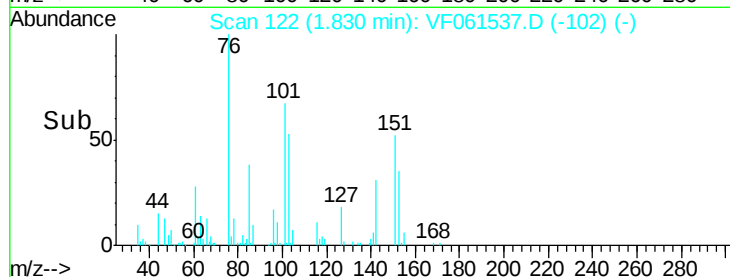
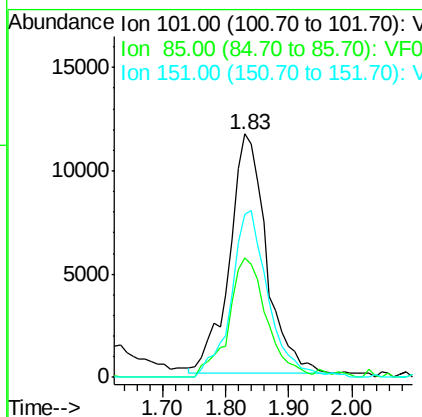
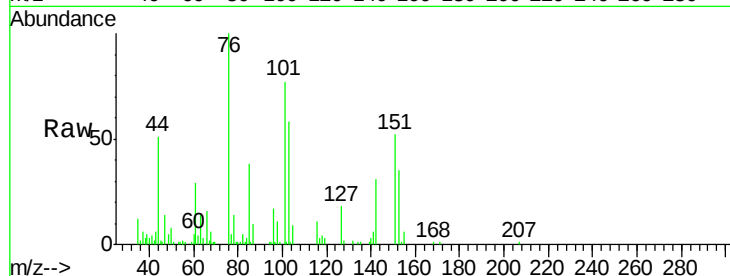
ClientSampleId :

VF0128SBS01

Tot Ion:	101	Resp:	47091
Ion Ratio	Lower	Upper	
101	100		
85	49.2	41.9	62.9
151	66.8	55.1	82.7

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#10

Methyl Iodide

Concen: 20.718 ug/l m

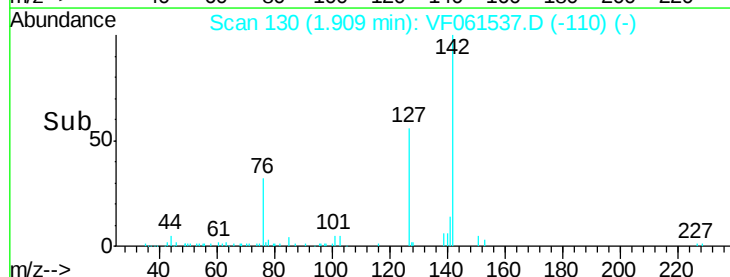
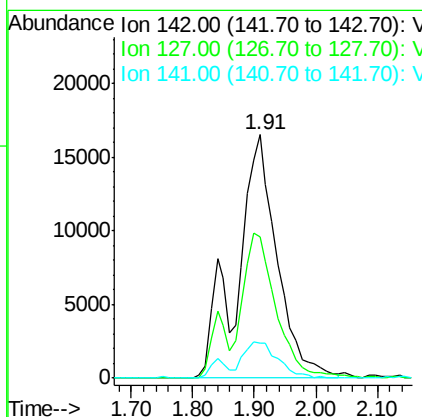
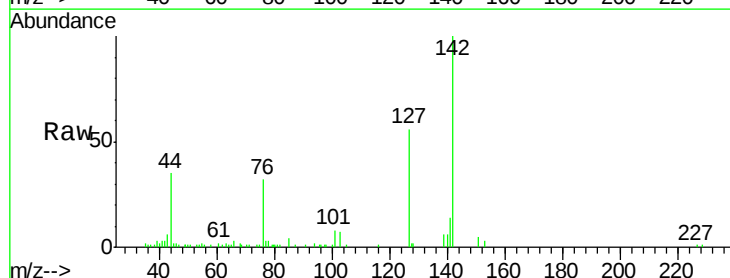
RT: 1.91 min Scan# 130

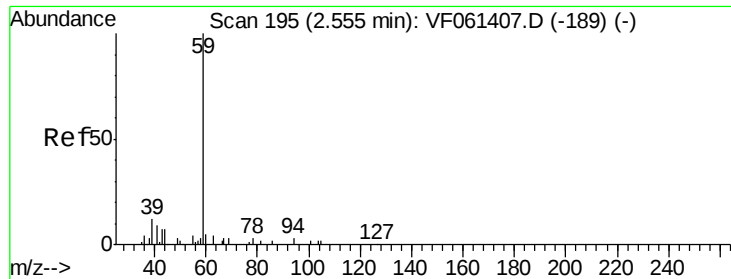
Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	142	Resp:	75150
Ion Ratio	Lower	Upper	
142	100		
127	56.2	50.7	76.1
141	14.3	11.8	17.6





#11

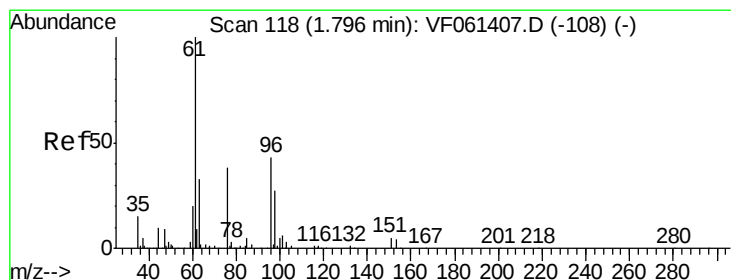
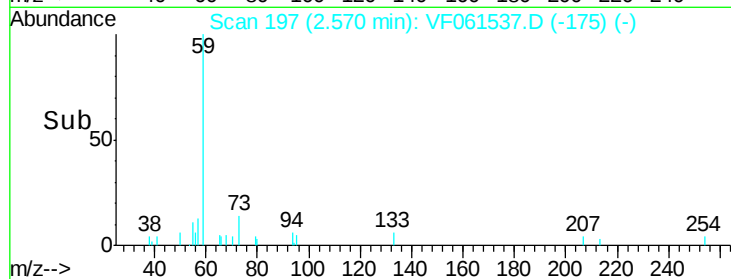
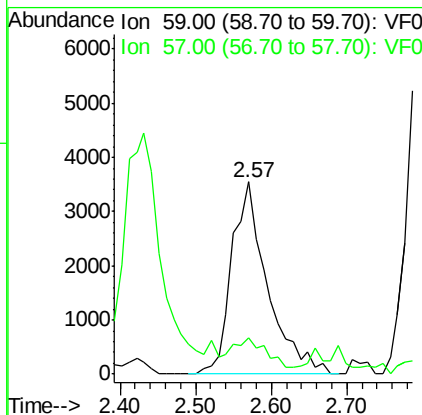
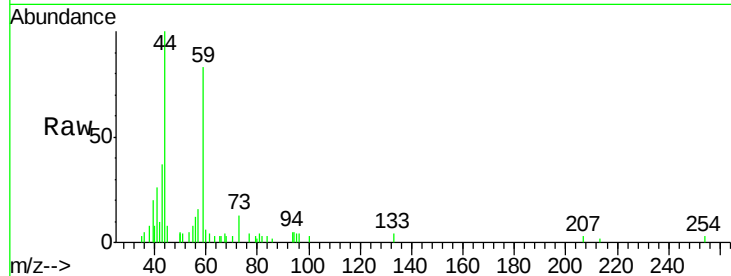
Tert butyl alcohol
Concen: 113.690 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	59	Resp	11612
Ion Ratio	100	Lower	Upper
57	19.2	11.9	17.9#

Manual Integrations
APPROVED

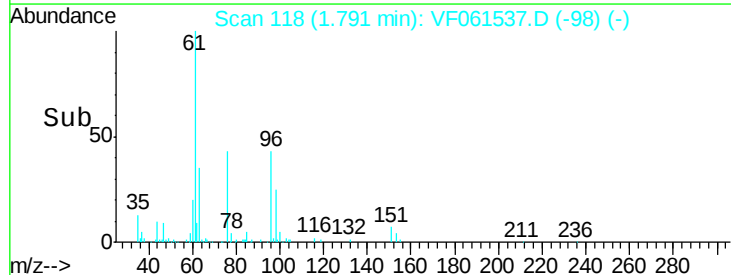
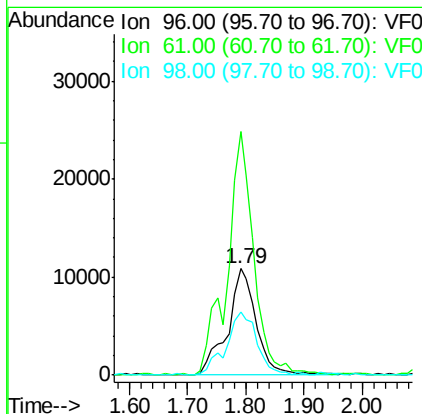
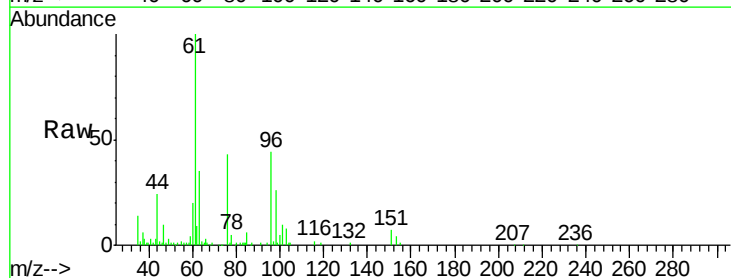
MMDadoda
1/29/2019 12:18:59 PM

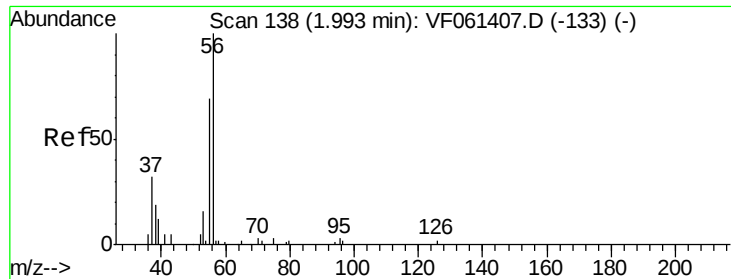


#12

1,1-Dichloroethene
Concen: 21.505 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	96	Resp	37382
Ion Ratio	100	Lower	Upper
61	229.1	186.9	280.3
98	59.3	53.0	79.4





#13

Acrolein

Concen: 79.042 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 56 Resp: 6305

Ion Ratio Lower Upper

56 100

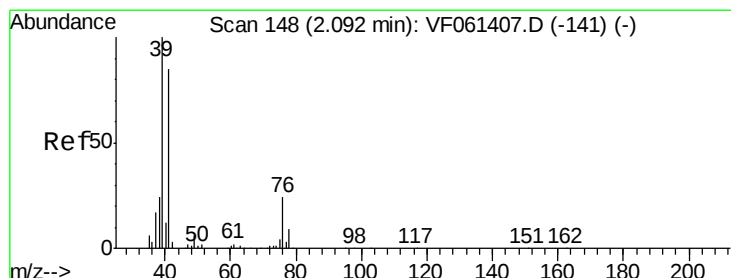
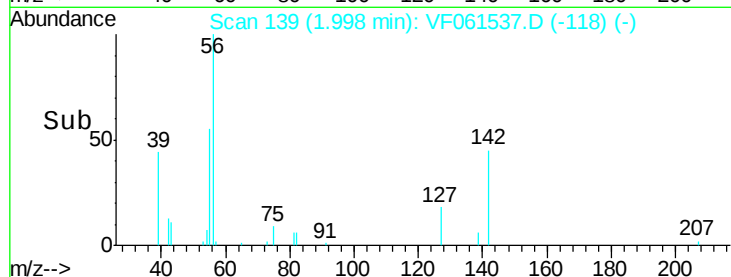
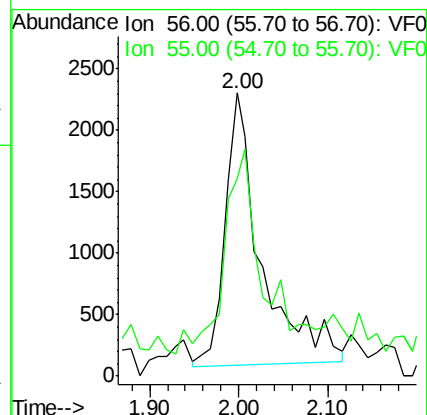
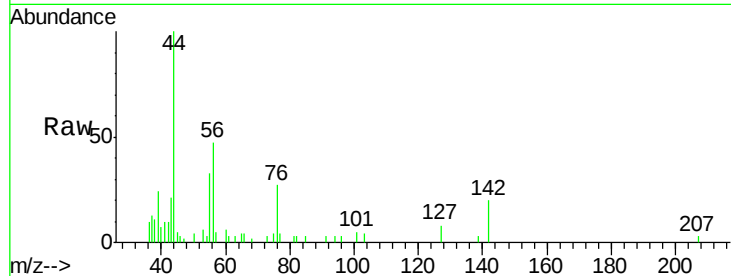
55 69.9 57.5 86.3

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#14

Allyl chloride

Concen: 30.822 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

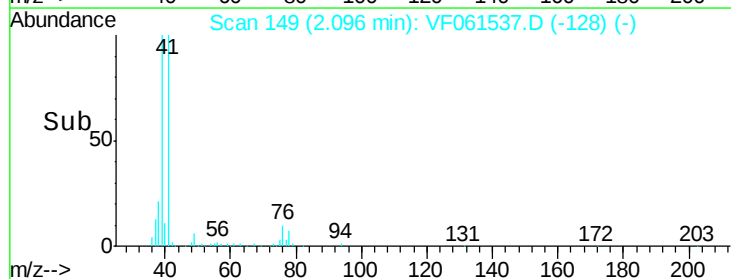
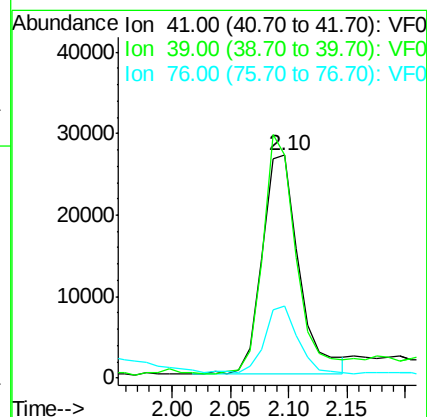
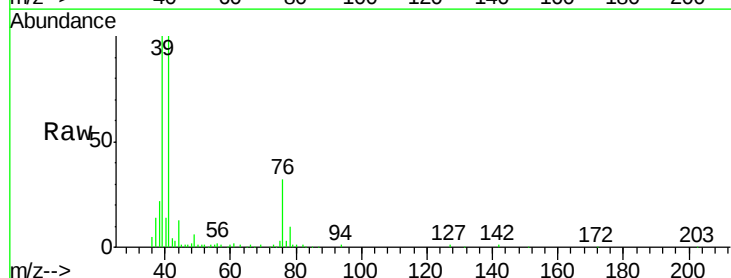
Tgt Ion: 41 Resp: 59078

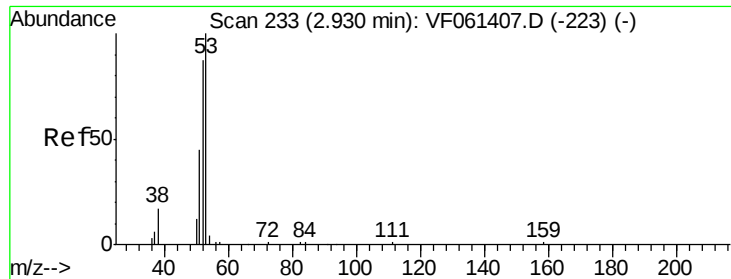
Ion Ratio Lower Upper

41 100

39 100.3 94.6 141.8

76 32.3 25.9 38.9





#15

Acrylonitrile

Concen: 120.470 ug/l

RT: 2.93 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

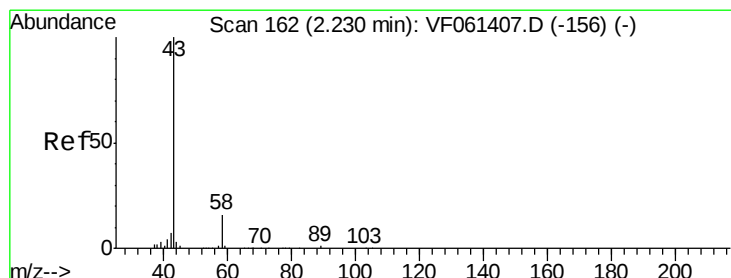
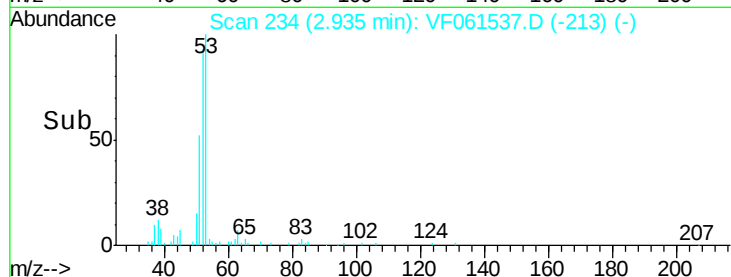
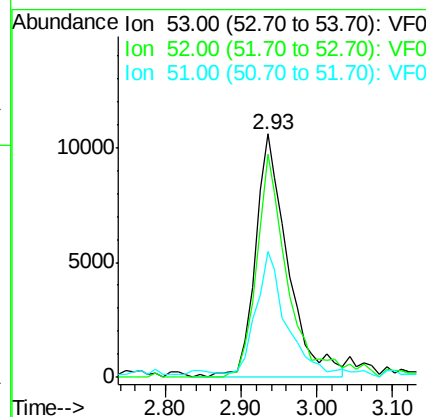
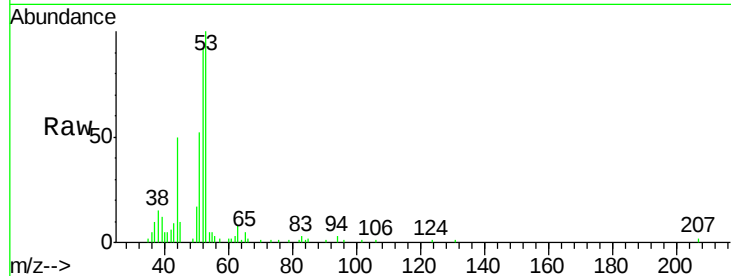
ClientSampleId :

VF0128SBS01

Tot Ion:	53	Resp:	31518
Ion	Ratio	Lower	Upper
53	100		
52	91.5	69.6	104.4
51	51.7	36.8	55.2

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#16

Acetone

Concen: 132.422 ug/l

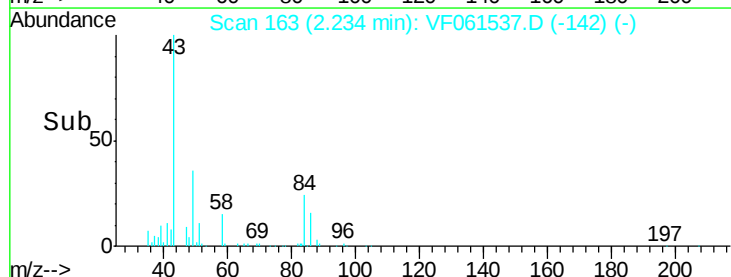
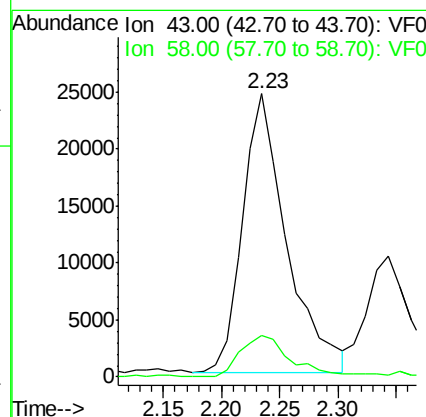
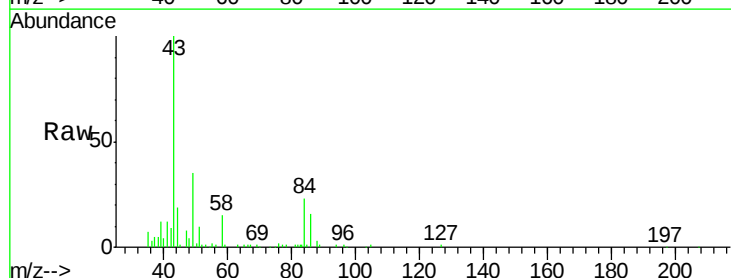
RT: 2.23 min Scan# 163

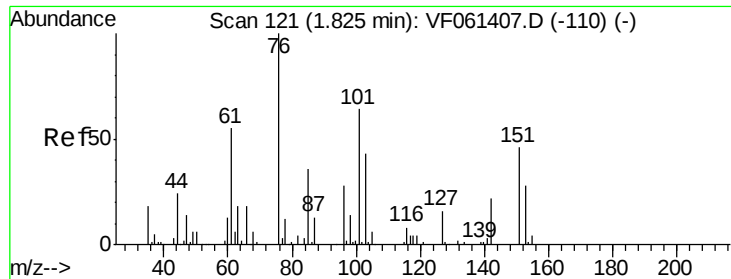
Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	43	Resp:	64102
Ion	Ratio	Lower	Upper
43	100		
58	14.7	13.3	19.9





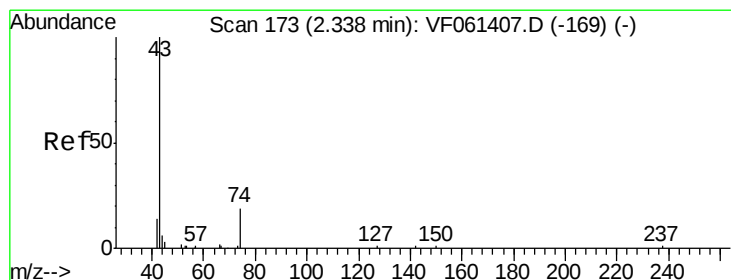
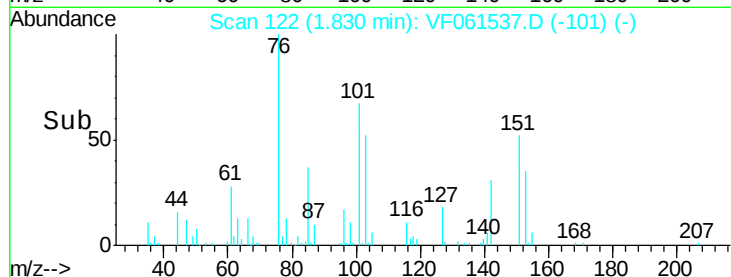
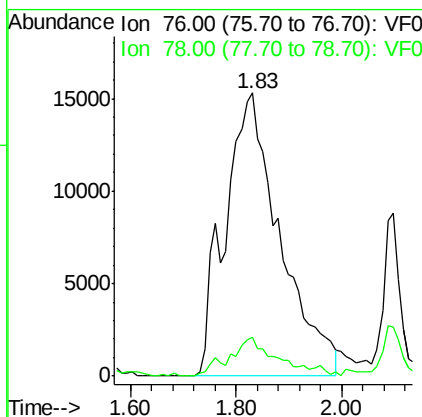
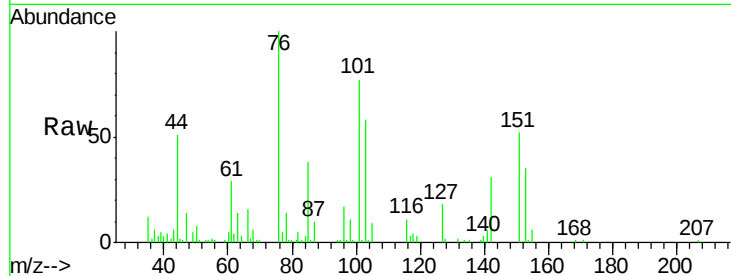
#17
Carbon Disulfide
Concen: 20.334 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion: 76 Resp: 110213
Ion Ratio Lower Upper
76 100
78 13.8 9.6 14.4

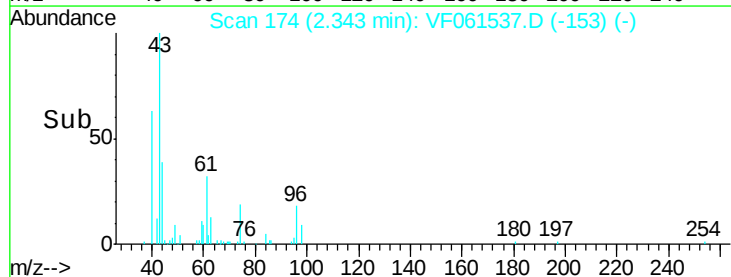
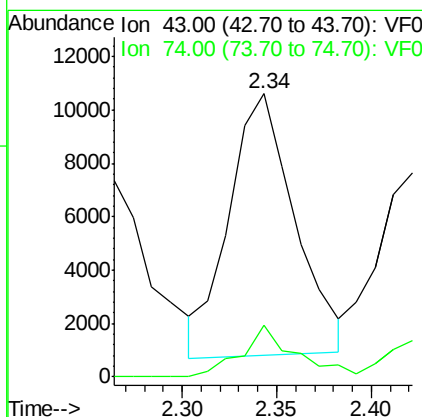
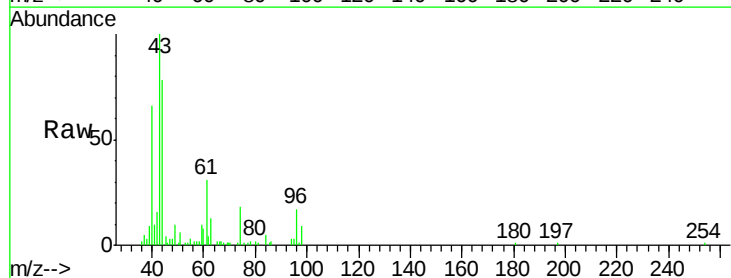
Manual Integrations
APPROVED

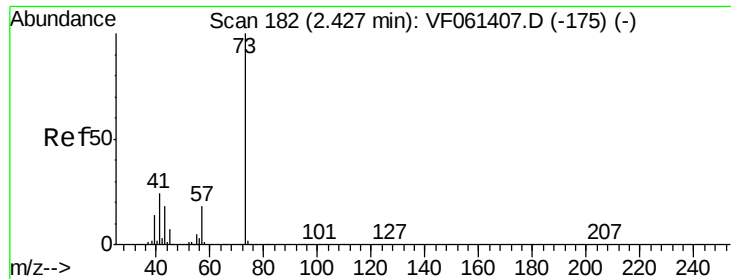
MMDadoda
1/29/2019 12:18:59 PM



#18
Methyl Acetate
Concen: 24.609 ug/l
RT: 2.34 min Scan# 174
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion: 43 Resp: 23624
Ion Ratio Lower Upper
43 100
74 18.3 13.4 20.0





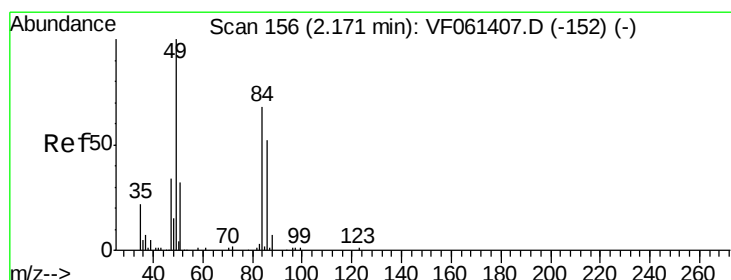
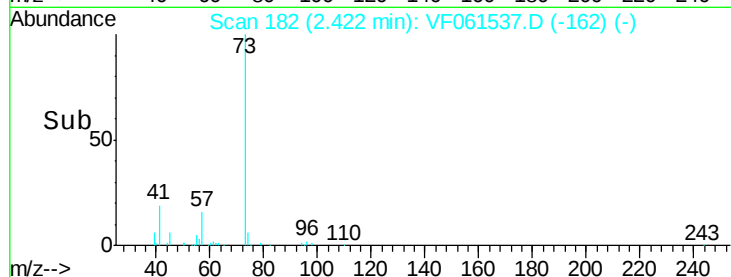
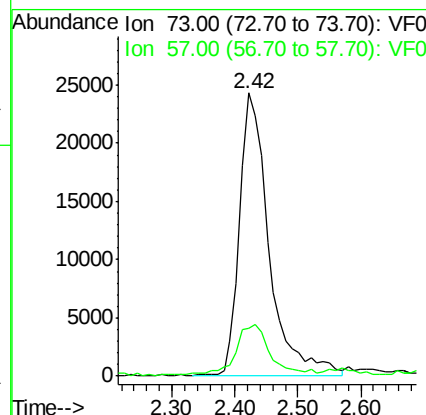
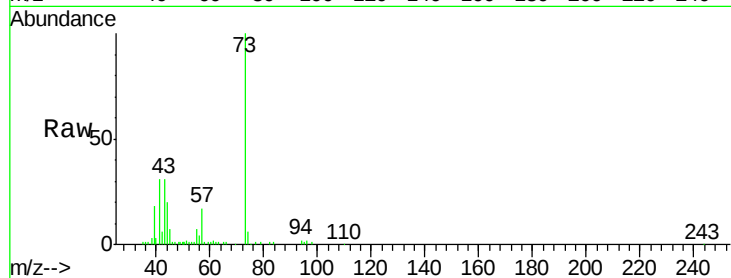
#19
Methvl tert-butvl Ether
Concen: 20.361 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	73	Resp	79341
Ion Ratio	100	Lower	Upper
73	100	14.8	22.2
57	16.9		

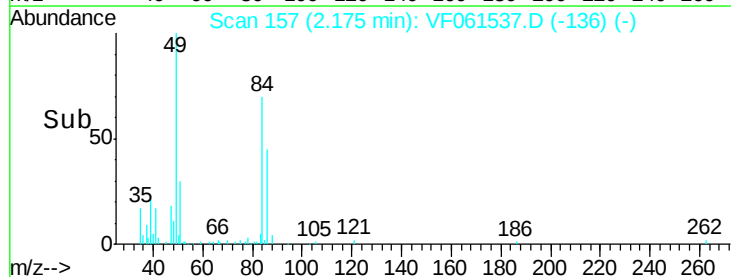
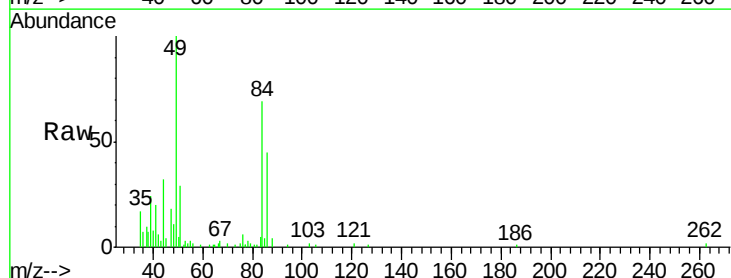
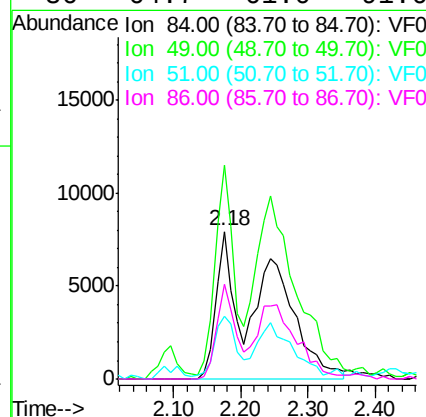
Manual Integrations
APPROVED

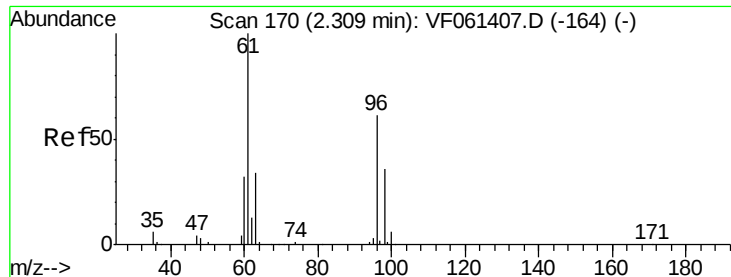
MMDadoda
1/29/2019 12:18:59 PM



#20
Methylene Chloride
Concen: 24.142 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	84	Resp	41163
Ion Ratio	100	Lower	Upper
84	100	120.0	180.0
49	144.8	38.6	58.0
51	42.2	61.0	91.6
86	64.7		





#21

trans-1,2-Dichloroethene

Concen: 21.515 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

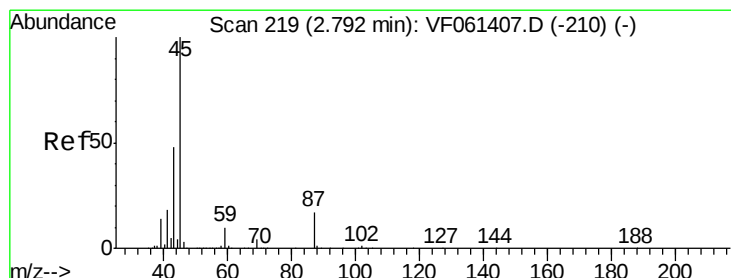
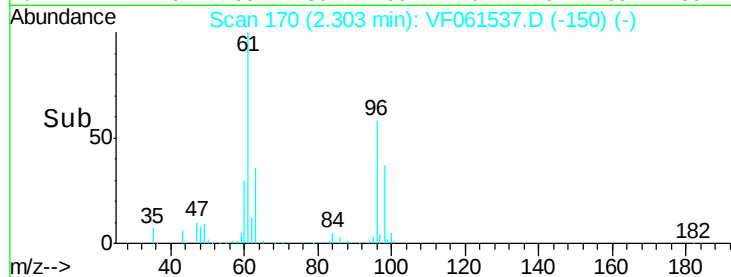
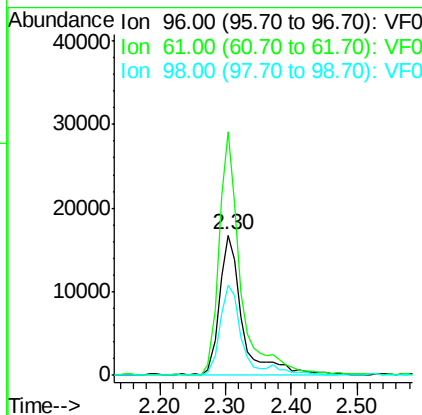
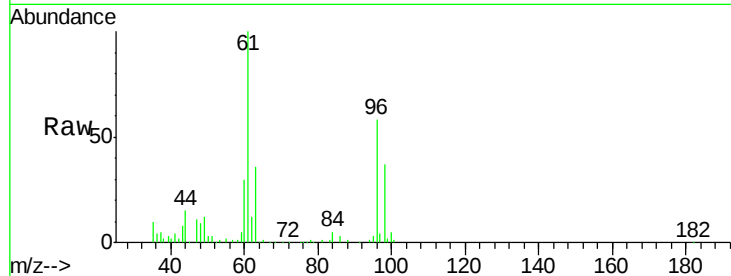
ClientSampleId :

VF0128SBS01

Tot Ion:	96	Resp:	41147
Ion	Ratio	Lower	Upper
96	100		
61	173.6	131.8	197.8
98	64.3	47.4	71.0

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#22

Diisopropyl ether

Concen: 23.319 ug/l

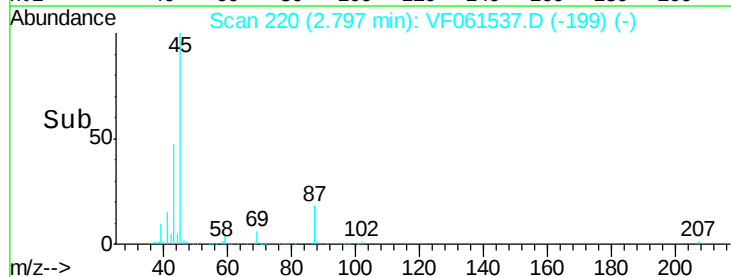
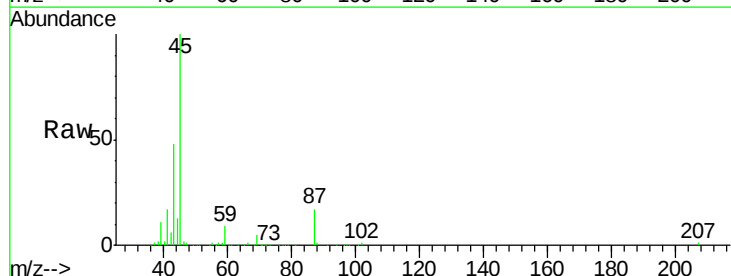
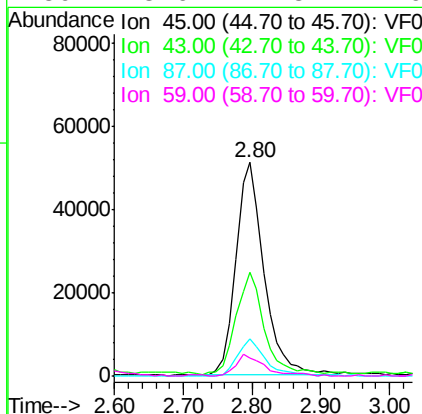
RT: 2.80 min Scan# 220

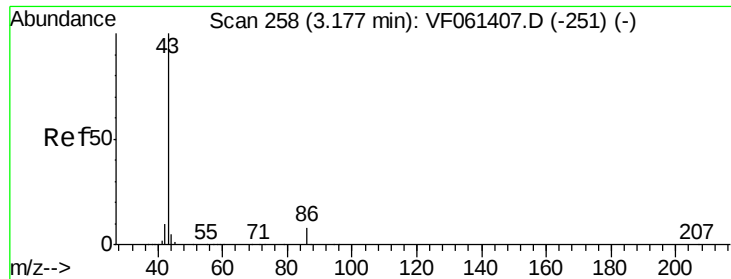
Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	45	Resp:	144246
Ion	Ratio	Lower	Upper
45	100		
43	48.4	39.0	58.6
87	17.5	13.9	20.9
59	8.6	7.8	11.6





#23

Vinyl Acetate

Concen: 134.403 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 43 Resp: 361619

Ion Ratio Lower Upper

43 100

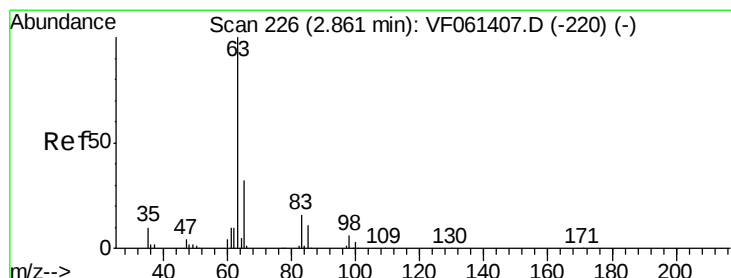
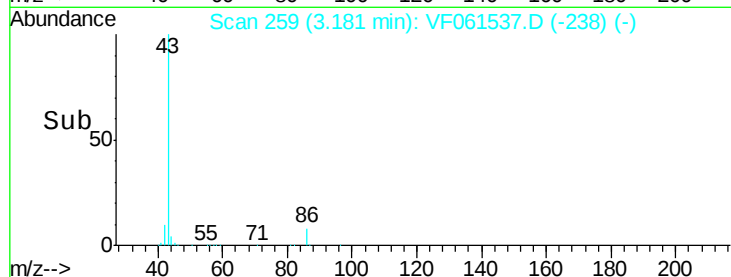
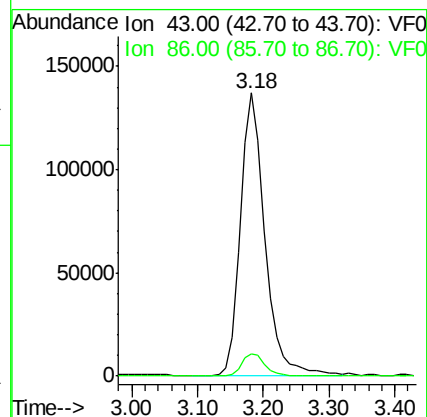
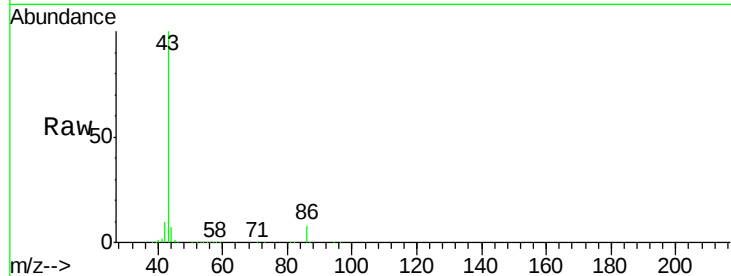
86 7.8 6.2 9.4

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#24

1,1-Dichloroethane

Concen: 21.627 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

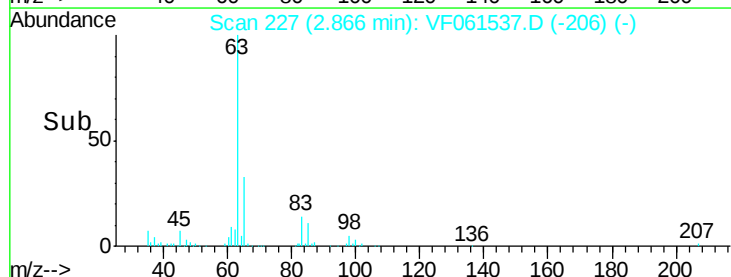
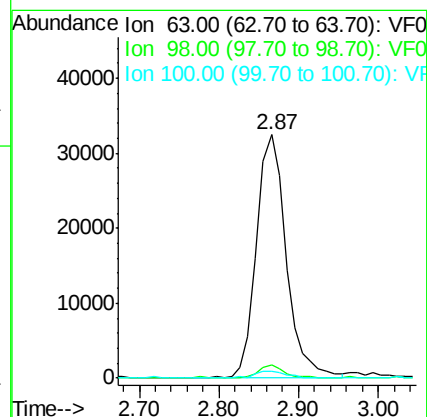
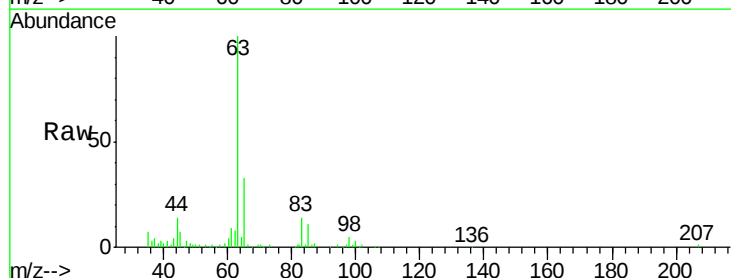
Tgt Ion: 63 Resp: 83965

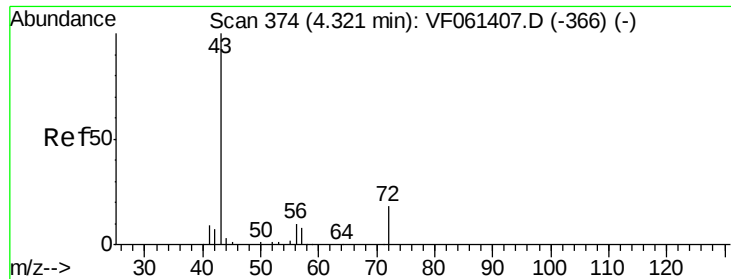
Ion Ratio Lower Upper

63 100

98 5.3 2.9 8.8

100 3.0 1.6 4.8





#25

2-Butanone

Concen: 126.590 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 43 Resp: 101904

Ion Ratio Lower Upper

43 100

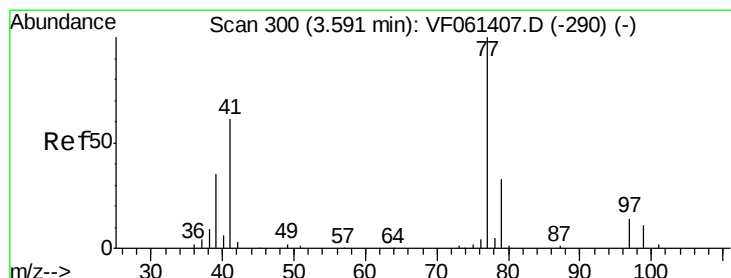
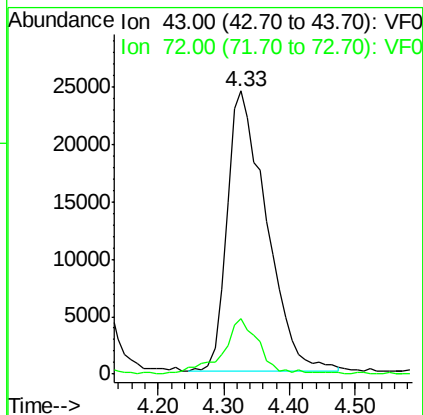
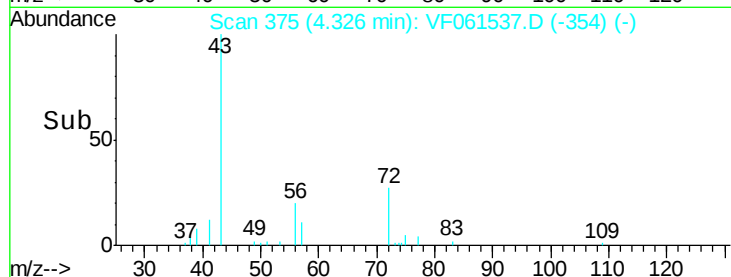
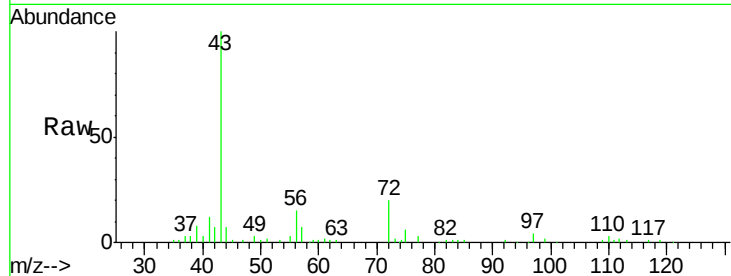
72 19.8 15.8 23.6

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#26

2,2-Dichloropropane

Concen: 19.018 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.00 min

Lab File: VF061537.D

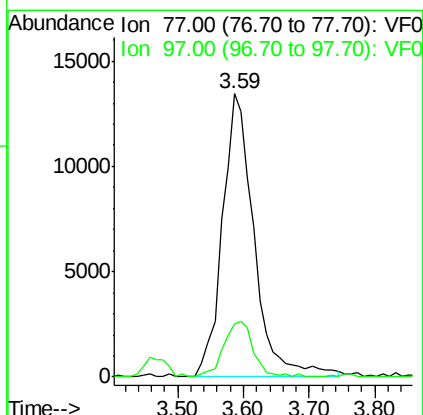
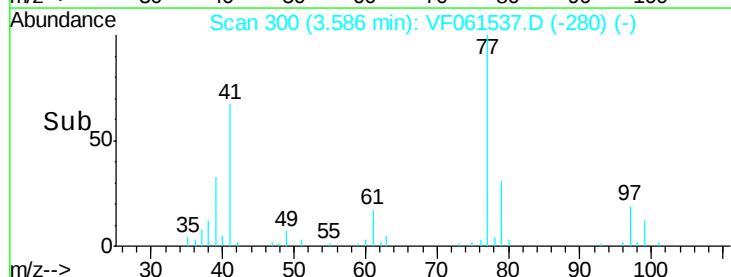
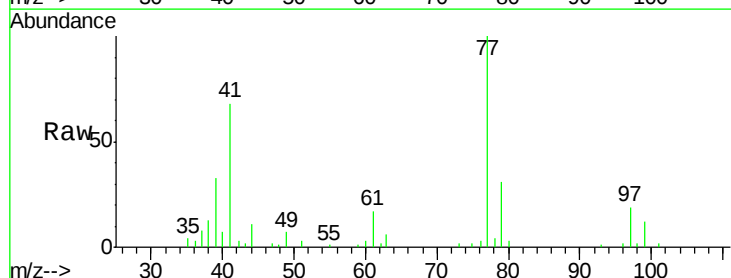
Acq: 28 Jan 2019 13:13

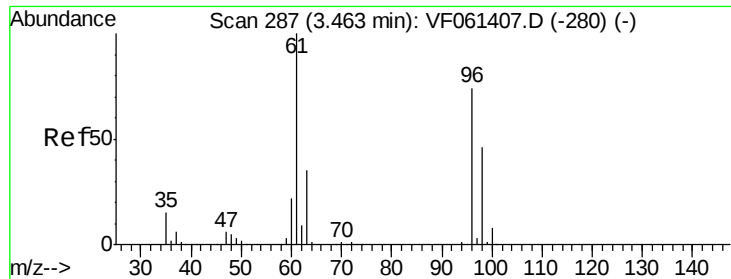
Tgt Ion: 77 Resp: 45363

Ion Ratio Lower Upper

77 100

97 18.6 8.5 25.5





#27

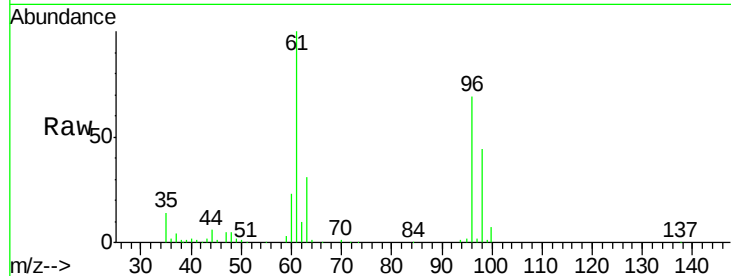
cis-1,2-Dichloroethene
Concen: 21.886 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

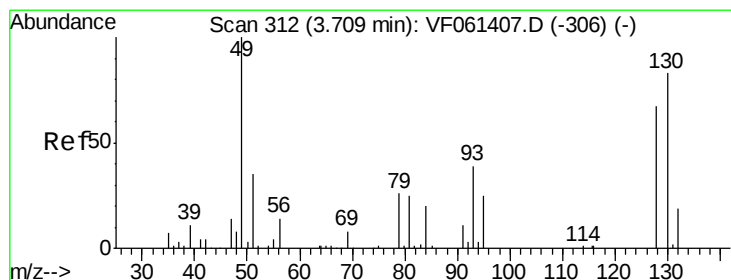
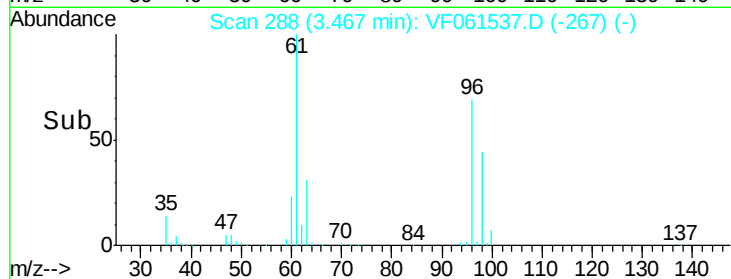
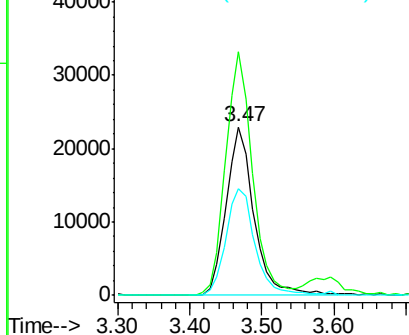
Tot Ion	Ratio	Lower	Upper
96	100		
61	144.7	0.0	270.2
98	63.4	0.0	124.0

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



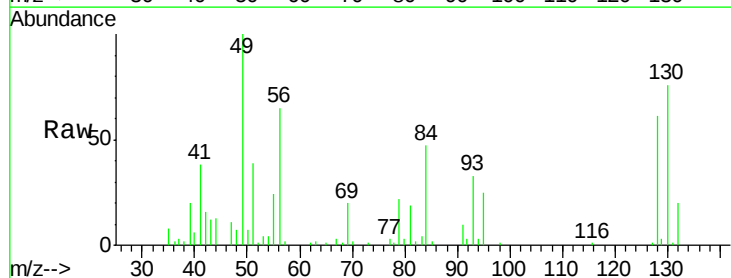
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



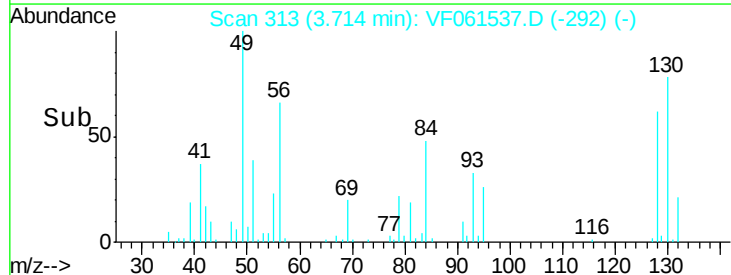
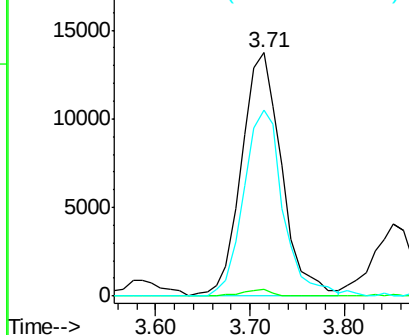
#28

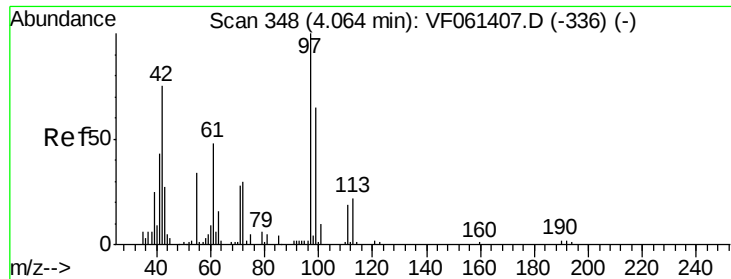
Bromochloromethane
Concen: 23.298 ug/l
RT: 3.71 min Scan# 313
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	0.0#
130	76.4	65.4	98.2



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V





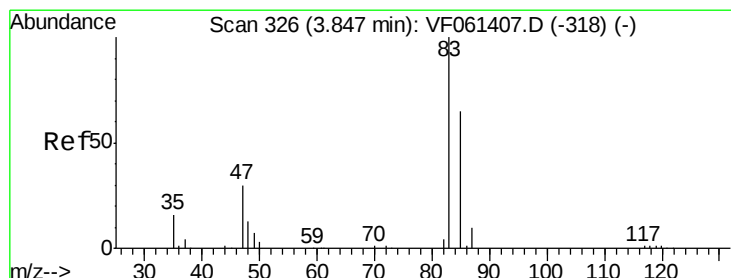
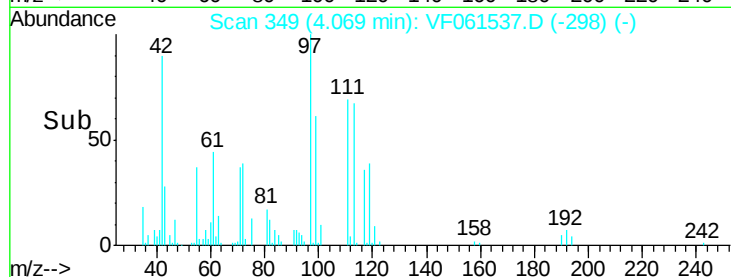
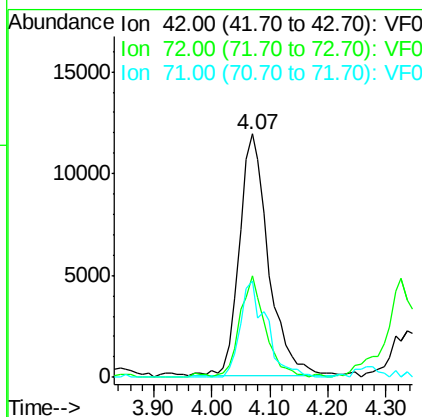
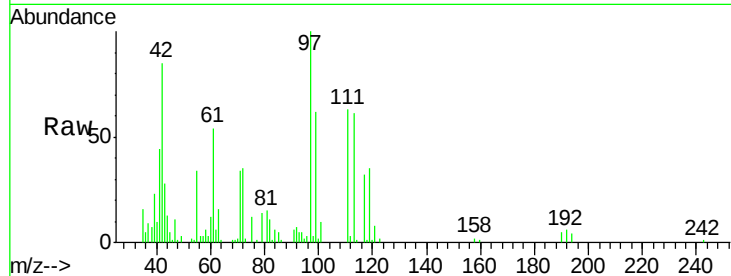
#29
Tetrahydrofuran
Concen: 119.068 ug/l
RT: 4.07 min Scan# 349
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.9	28.9	43.3
71	36.6	29.6	44.4

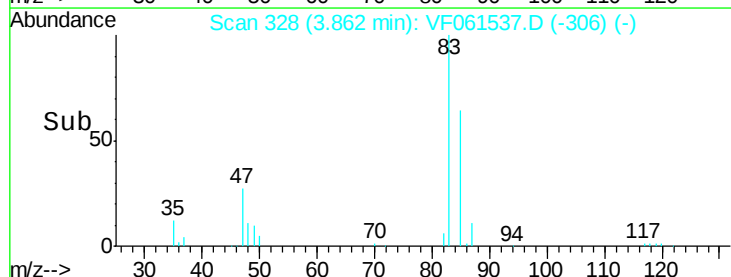
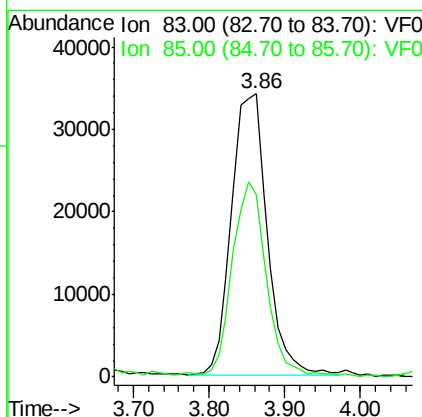
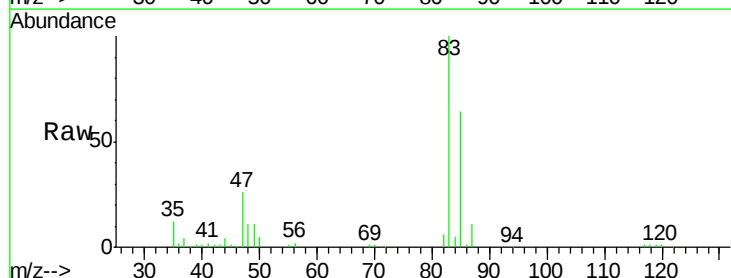
Manual Integrations
APPROVED

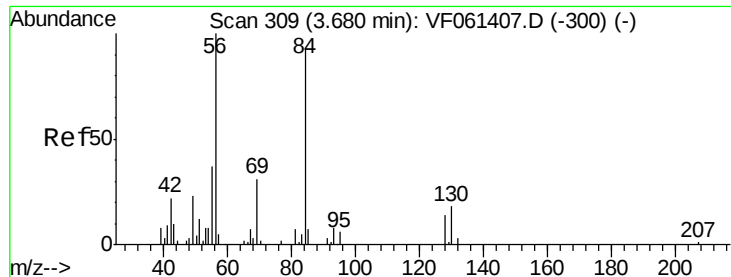
MMDadoda
1/29/2019 12:18:59 PM



#30
Chloroform
Concen: 21.275 ug/l
RT: 3.86 min Scan# 328
Delta R.T. 0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.7	79.1





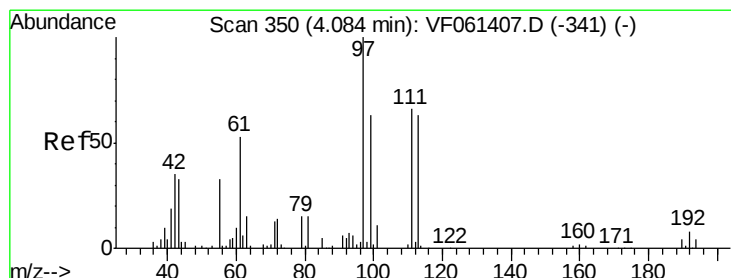
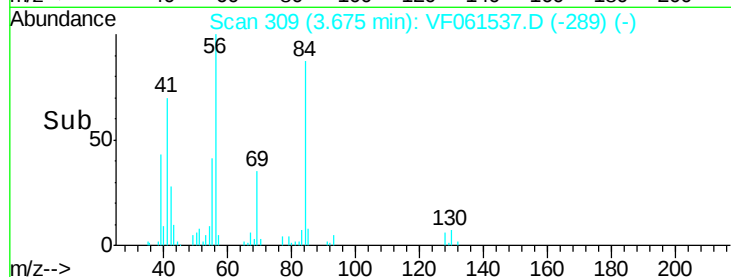
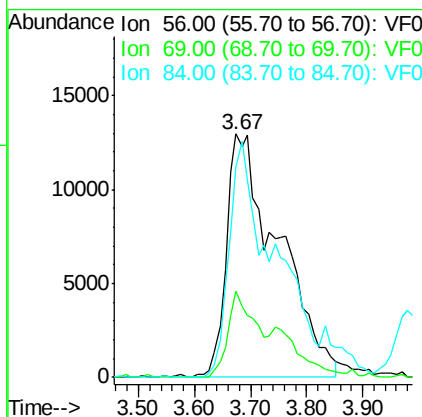
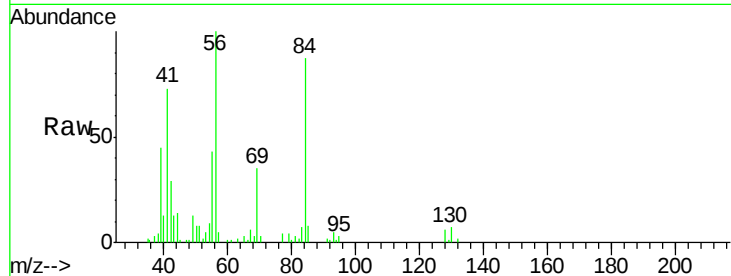
#31
Cyclohexane
Concen: 21.605 ug/l m
RT: 3.67 min Scan# 309
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	35.4	24.6	36.8
84	86.6	74.2	111.2

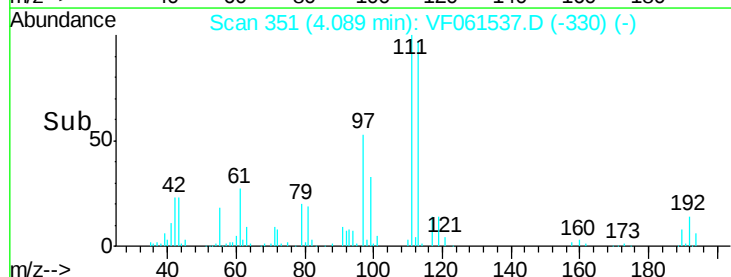
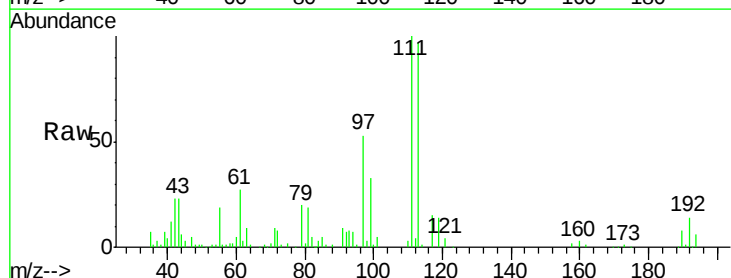
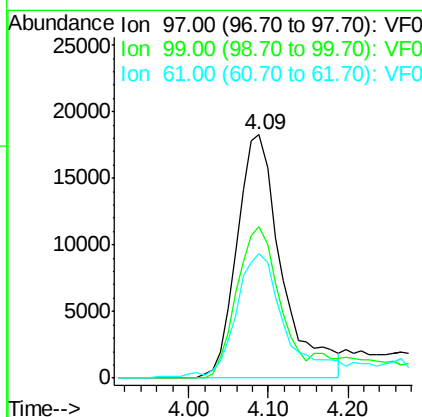
Manual Integrations
APPROVED

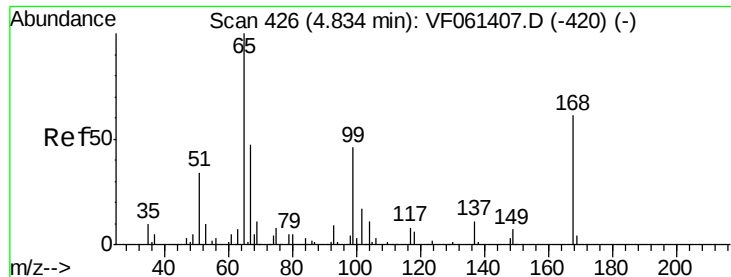
MMDadoda
1/29/2019 12:18:59 PM



#32
1,1,1-Trichloroethane
Concen: 18.572 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.3	50.1	75.1
61	51.1	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 51.641 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tot Ion: 65 Resp: 124610

Ion Ratio Lower Upper

65 100

67 49.5 0.0 99.8

Instrument :

MSVOA_F

ClientSampleId :

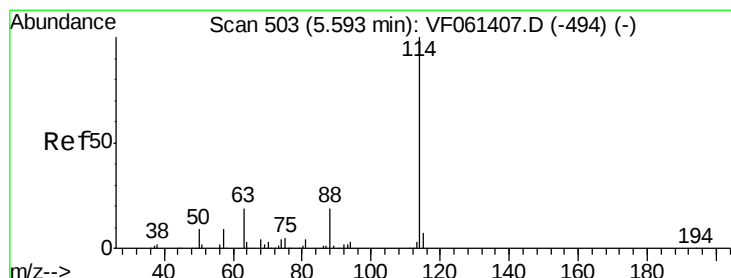
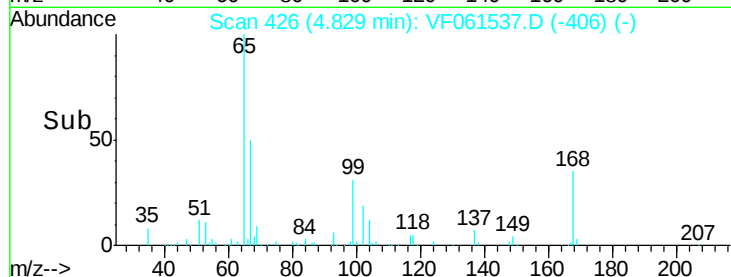
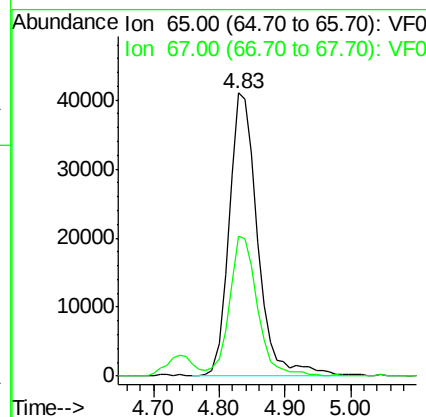
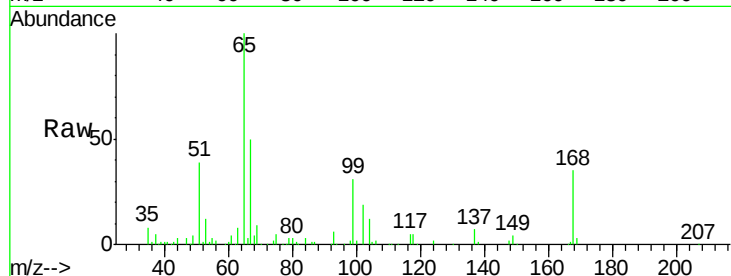
VF0128SBS01

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

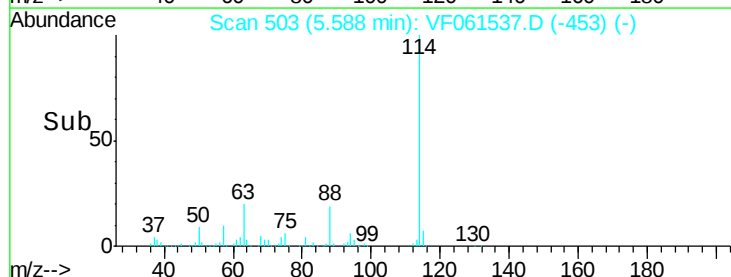
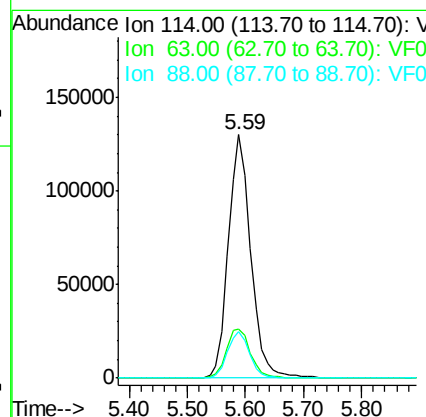
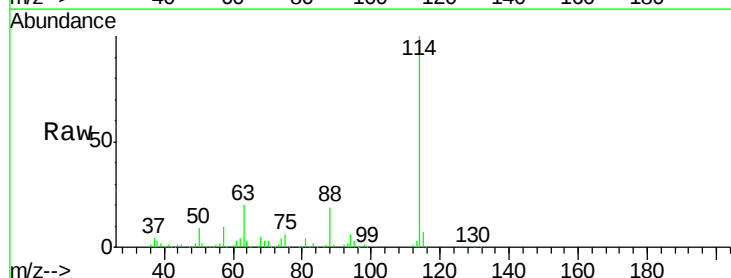
Tgt Ion: 114 Resp: 348748

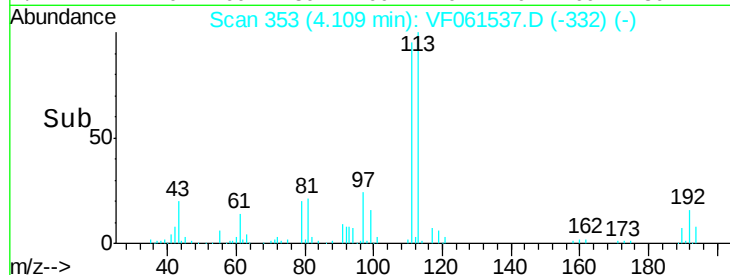
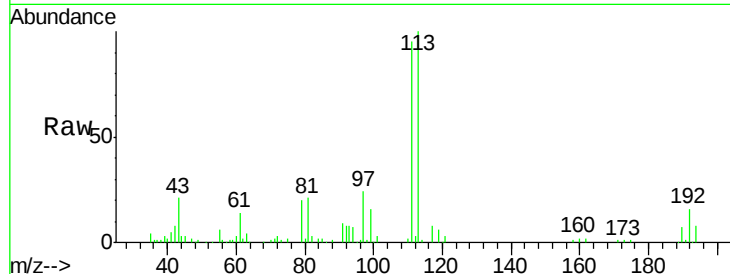
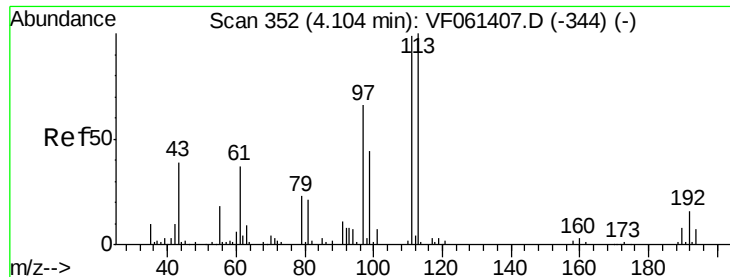
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

88 19.0 0.0 37.4





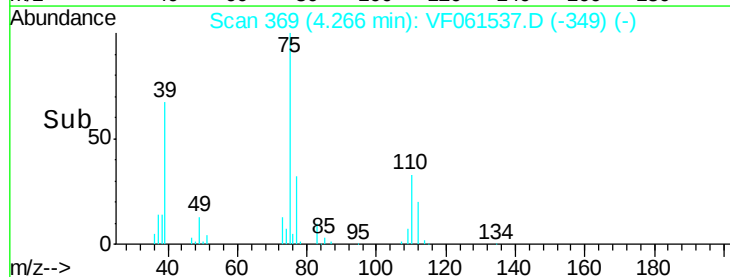
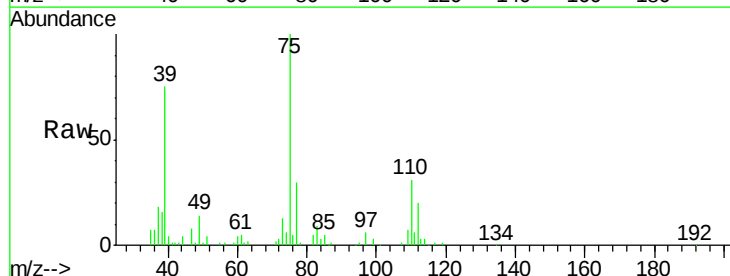
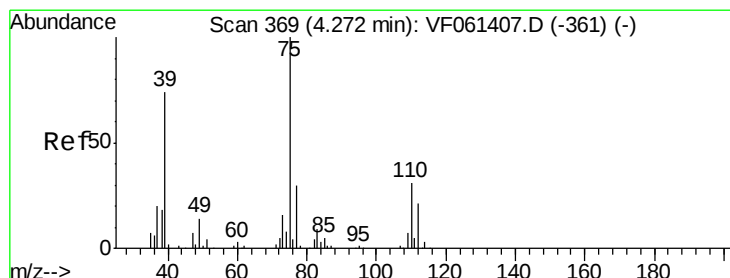
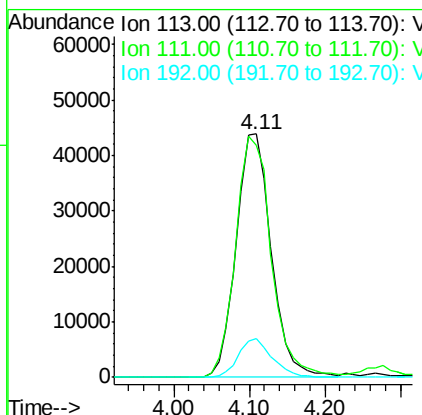
#35
Dibromofluoromethane
Concen: 51.433 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tot Ion	Ratio	Resp	Lower	Upper
113	100	141540		
111	95.1	79.4	119.0	
192	15.7	12.4	18.6	

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

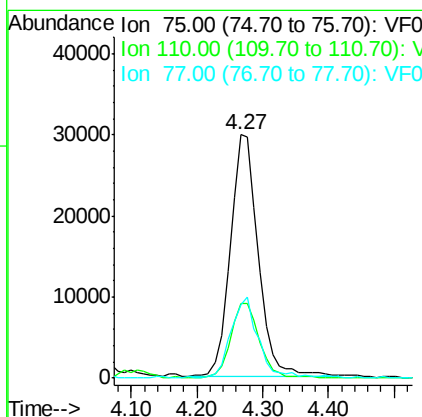
Manual Integrations
APPROVED

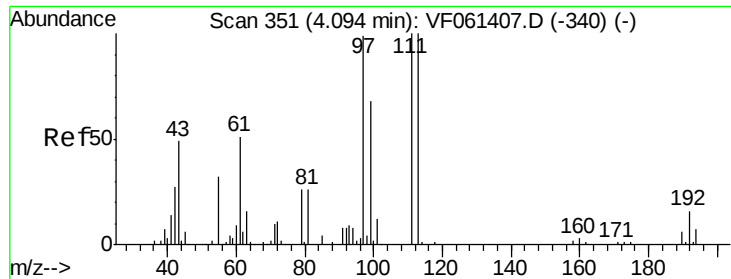
MMDadoda
1/29/2019 12:18:59 PM



#36
1,1-Dichloropropene
Concen: 21.656 ug/l
RT: 4.27 min Scan# 369
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	87568		
110	30.8	15.8	47.3	
77	30.3	24.0	36.0	





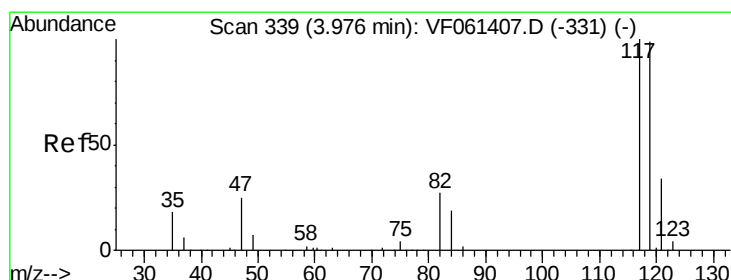
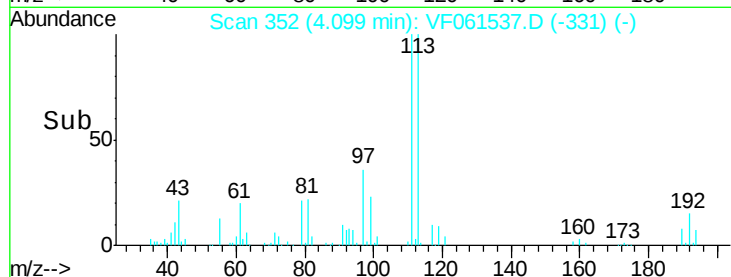
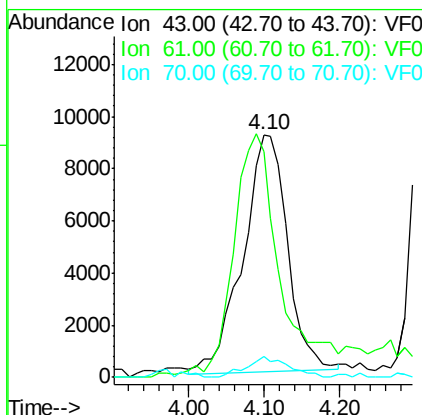
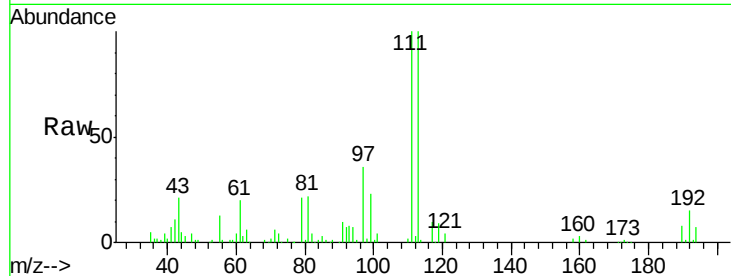
#37
Ethyl Acetate
Concen: 23.149 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	43	61	70	Ratio	100	92.9	8.6	Resp	37416	Lower	Upper
43	100										
61		92.9								81.7	122.5
70			8.6							6.2	9.2

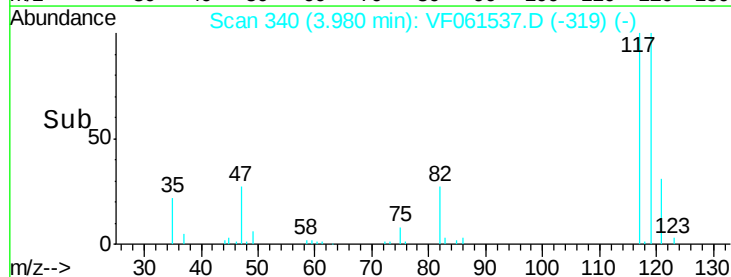
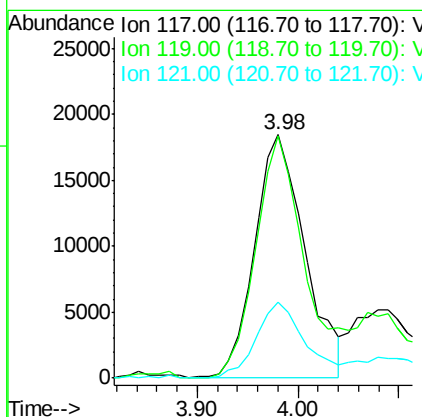
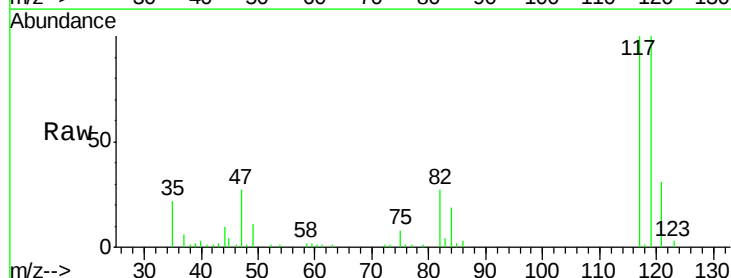
Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#38
Carbon Tetrachloride
Concen: 18.171 ug/l
RT: 3.98 min Scan# 340
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	117	119	121	Ratio	100	99.7	31.4	Resp	64234	Lower	Upper
117	100										
119		99.7								79.0	118.6
121			31.4							27.0	40.6





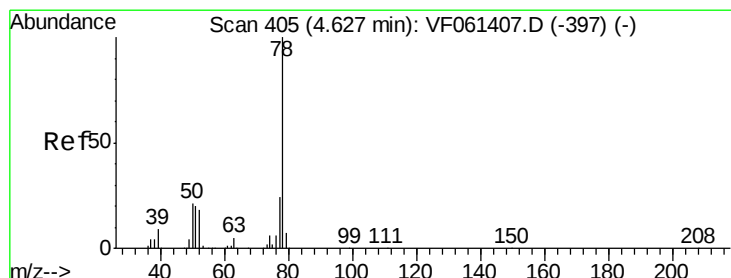
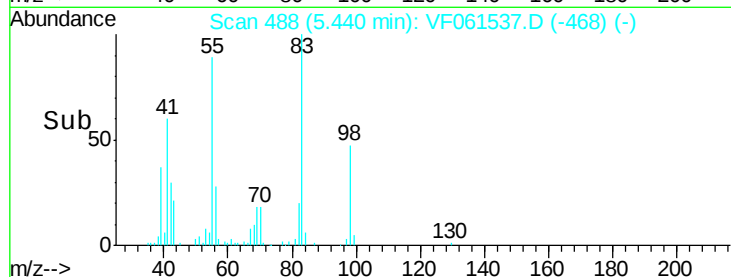
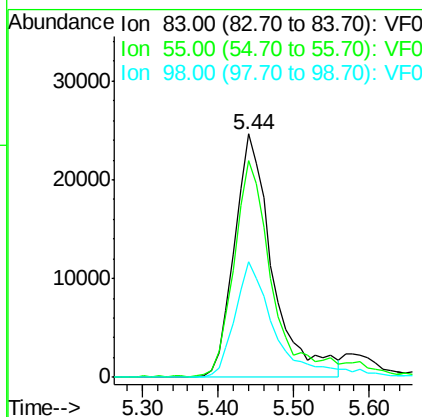
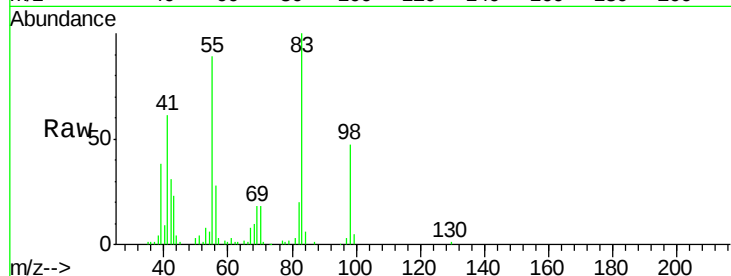
#39
Methylvlcvclohexane
Concen: 19.771 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.2	67.4	101.2
98	47.5	36.7	55.1

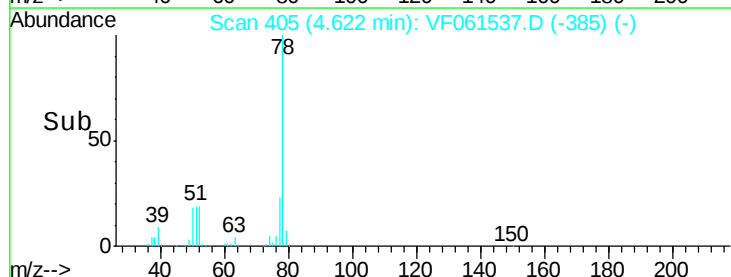
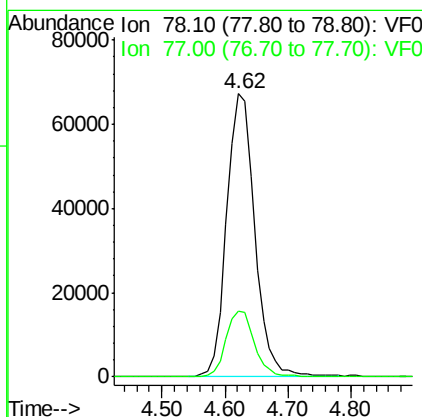
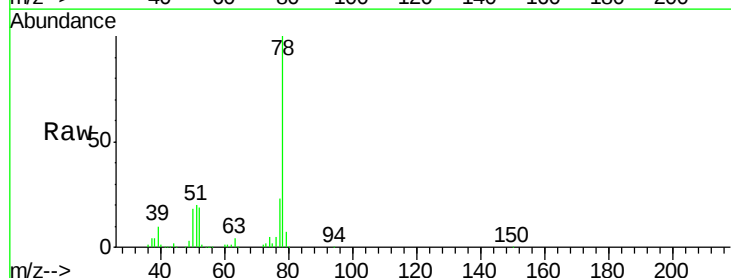
Manual Integrations
APPROVED

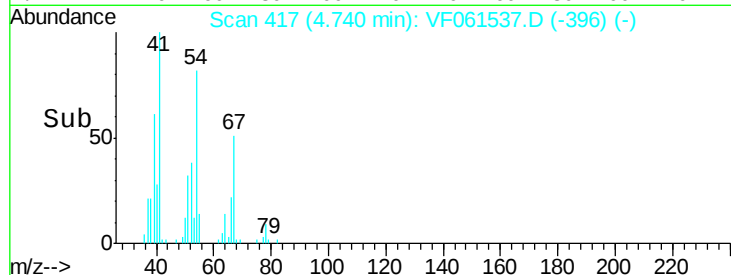
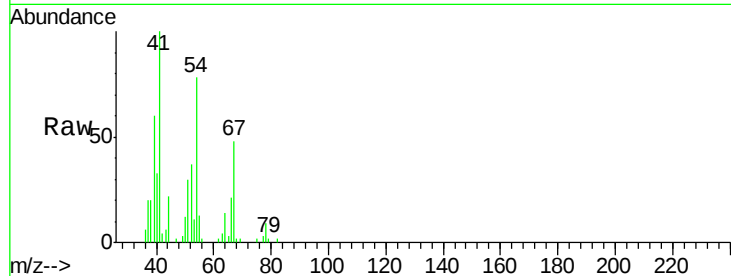
MMDadoda
1/29/2019 12:18:59 PM



#40
Benzene
Concen: 23.136 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

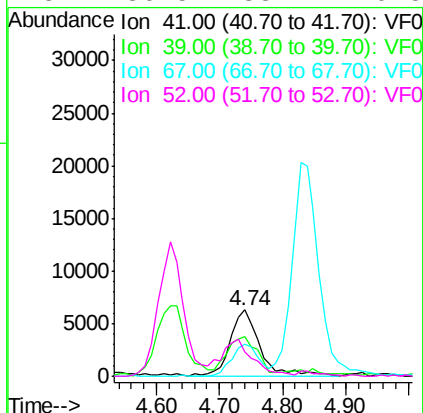
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6





#41
Methacrylonitrile
Concen: 23.902 ug/l
RT: 4.74 min Scan# 417
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

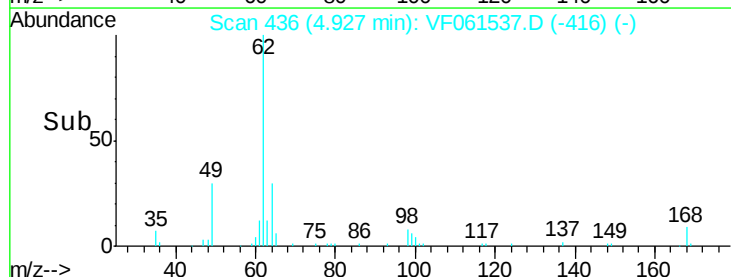
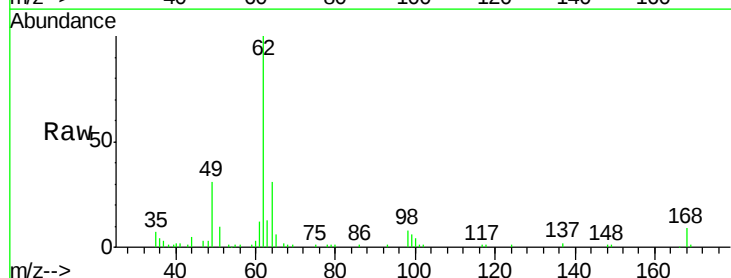
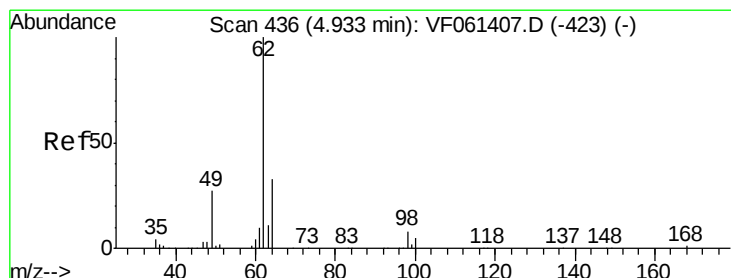
Tot Ion	Ratio	Lower	Upper
41	100		
39	59.8	43.1	64.7
67	48.1	38.8	58.2
52	36.5	33.2	49.8



Instrument :
MSVOA_F
ClientSampleId :
VF0128SBSD01

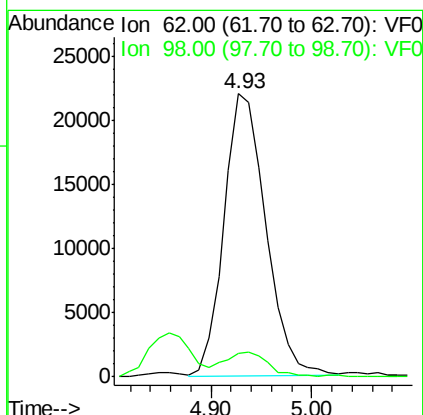
Manual Integrations
APPROVED

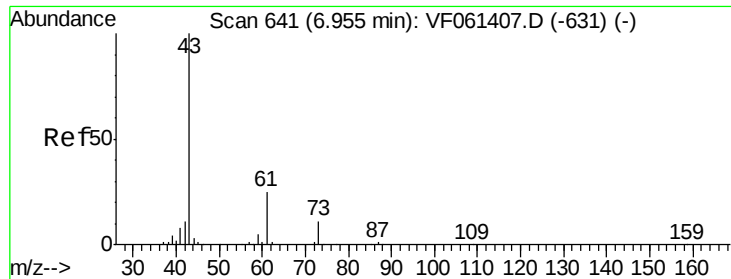
MMDadoda
1/29/2019 12:18:59 PM



#42
1,2-Dichloroethane
Concen: 19.740 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.0





#43

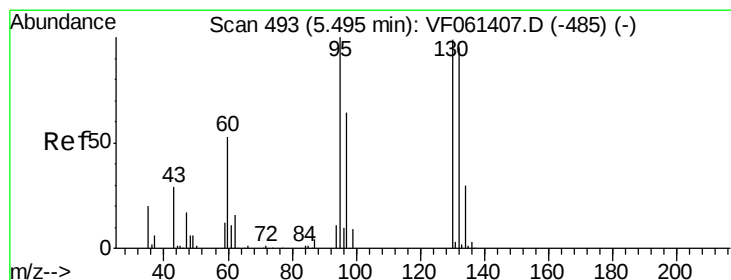
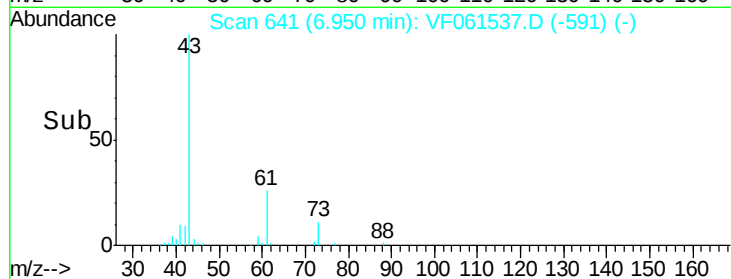
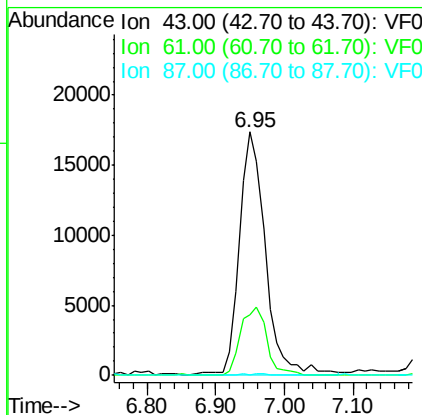
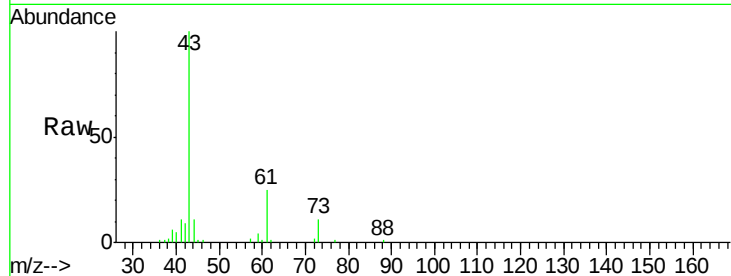
Isopropyl Acetate
 Concen: 22.608 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0128SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.0	20.3	30.5
87	0.0	0.5	0.7#

Manual Integrations
 APPROVED

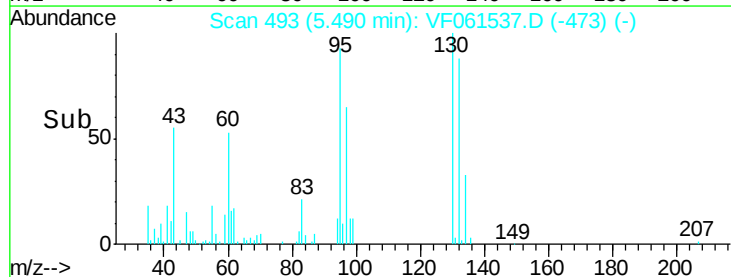
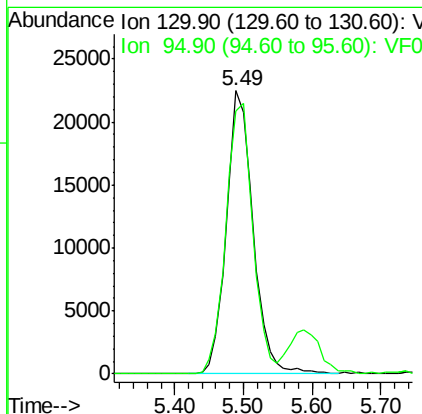
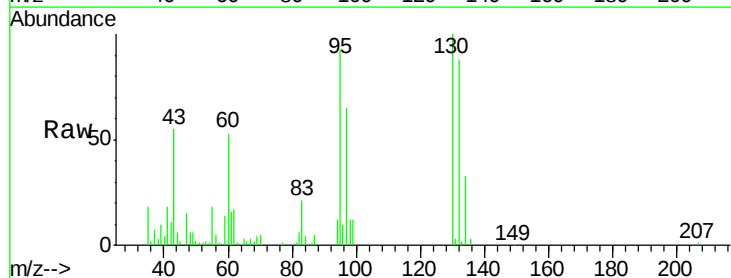
MMDadoda
 1/29/2019 12:18:59 PM

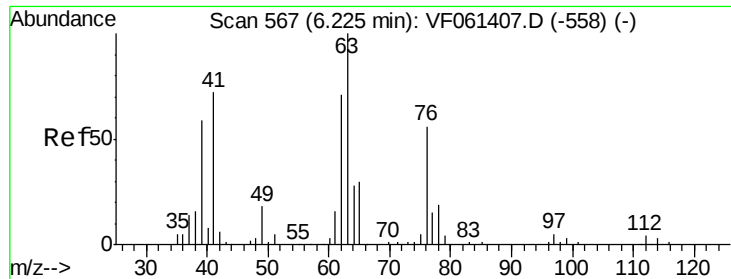


#44

Trichloroethene
 Concen: 21.945 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	202.8





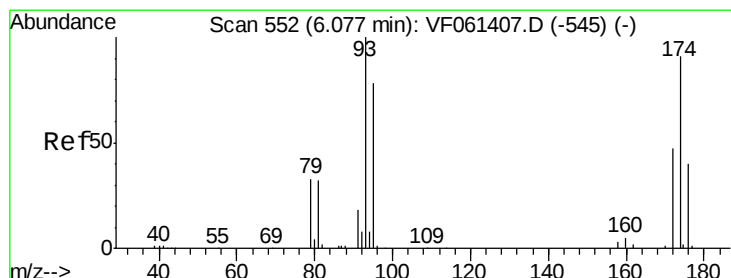
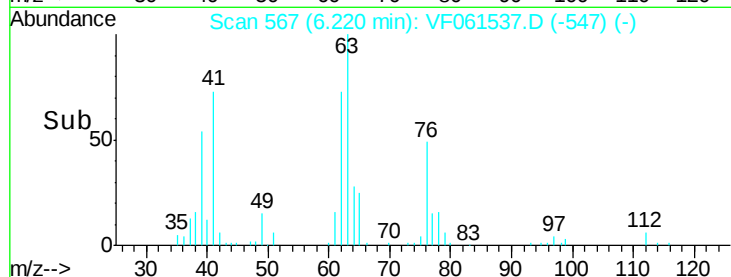
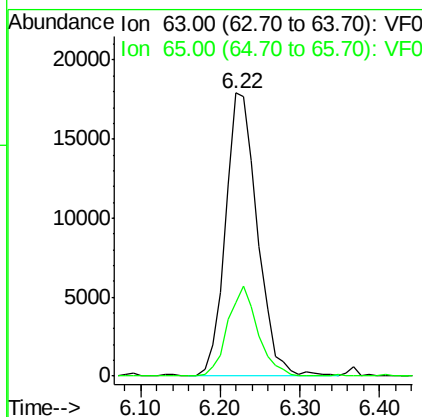
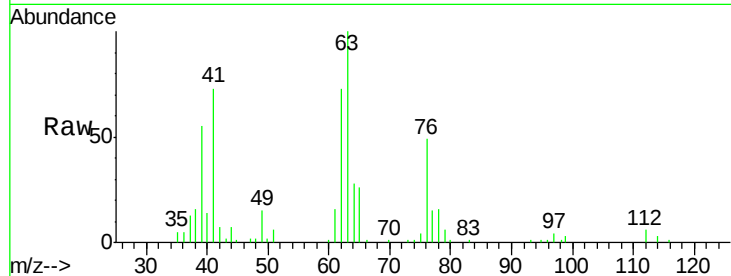
#45
 1,2-Dichloropropane
 Concen: 21.270 ug/l
 RT: 6.22 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0128SBS01

Tot Ion: 63 Resp: 50228
 Ion Ratio Lower Upper
 63 100
 65 26.1 24.4 36.6

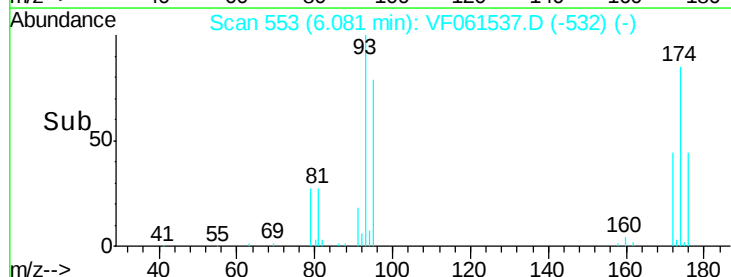
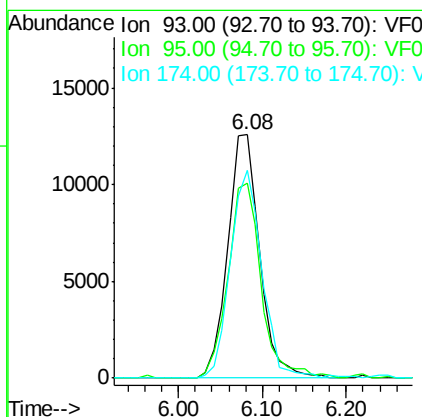
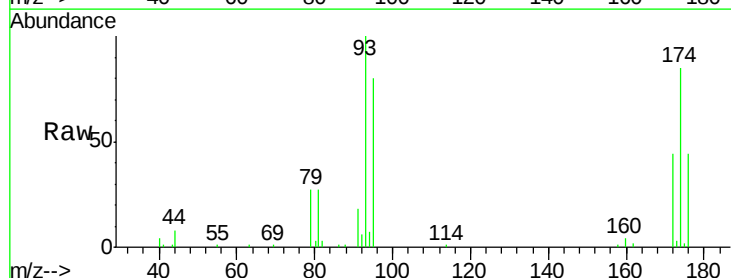
Manual Integrations
 APPROVED

MMDadoda
 1/29/2019 12:18:59 PM



#46
 Dibromomethane
 Concen: 21.253 ug/l
 RT: 6.08 min Scan# 553
 Delta R.T. 0.00 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Tgt Ion: 93 Resp: 33372
 Ion Ratio Lower Upper
 93 100
 95 80.3 62.1 93.1
 174 85.1 74.6 111.8





#47

Bromodichloromethane

Concen: 21.240 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

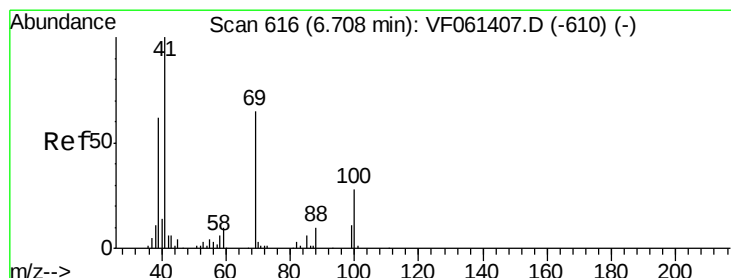
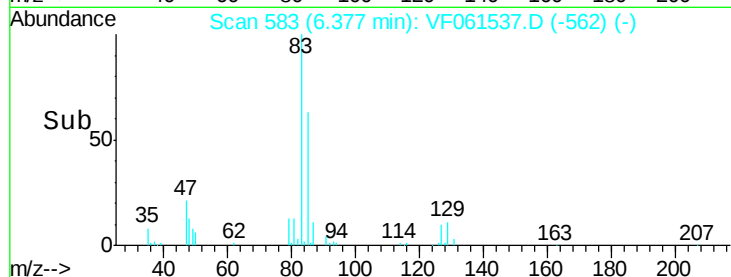
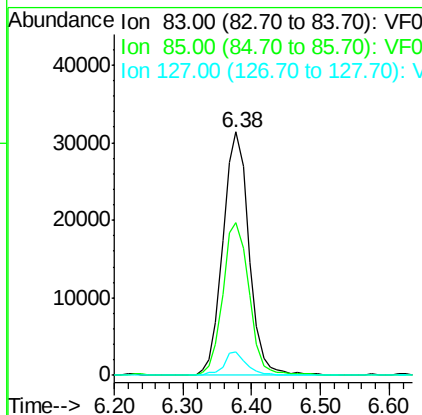
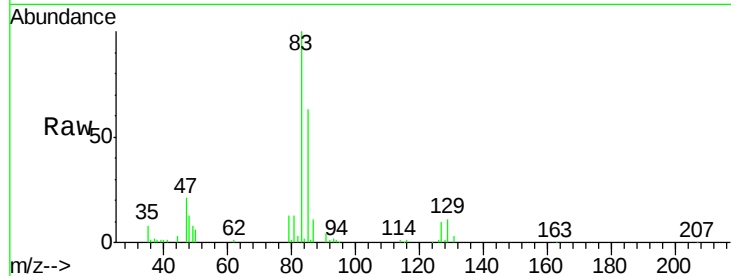
ClientSampleId :

VF0128SBS01

Tot Ion:	83	Resp:	82517
Ion Ratio	Lower	Upper	
83	100		
85	62.7	53.0	79.4
127	9.5	6.9	10.3

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#48

Methyl methacrylate

Concen: 22.208 ug/l

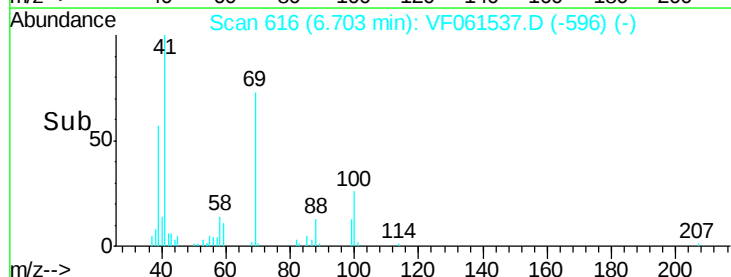
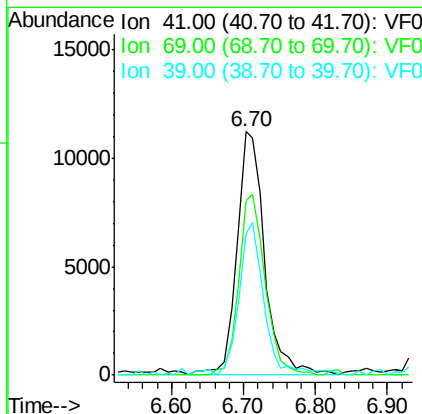
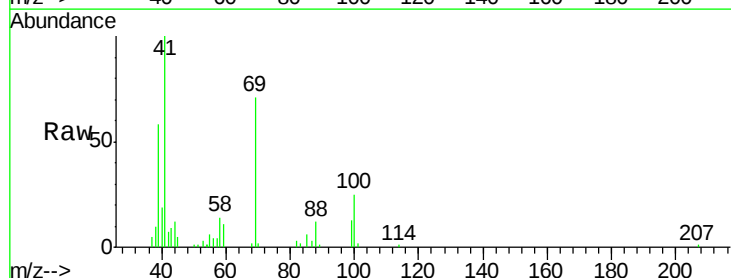
RT: 6.70 min Scan# 616

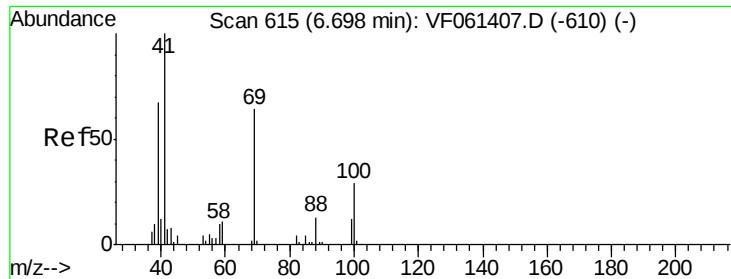
Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	41	Resp:	30252
Ion Ratio	Lower	Upper	
41	100		
69	71.5	51.7	77.5
39	57.8	49.2	73.8





#49

1,4-Dioxane

Concen: 418.131 ug/l

RT: 6.70 min Scan# 616

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

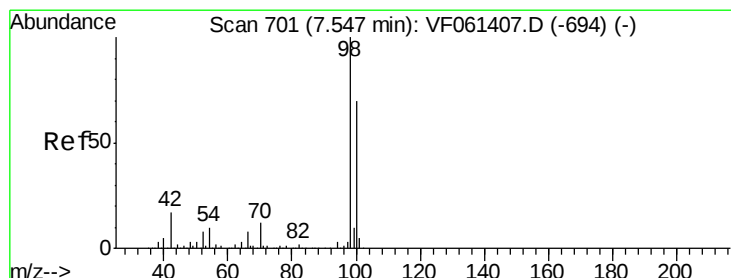
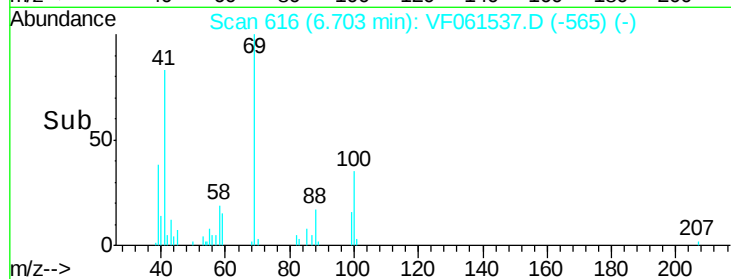
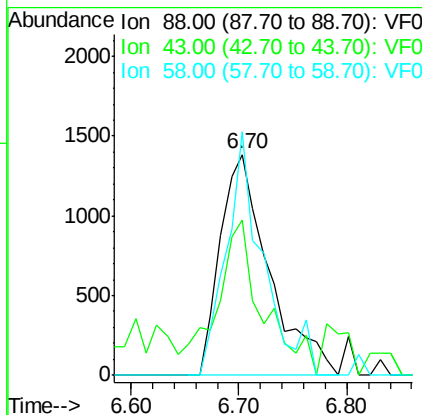
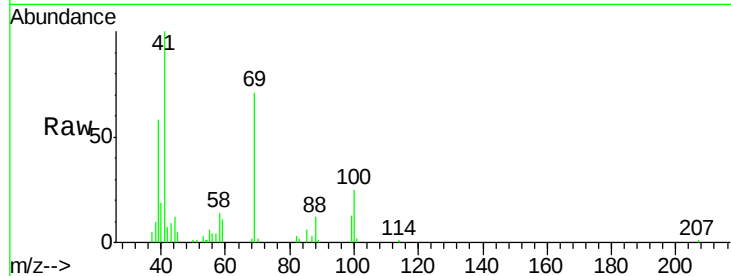
ClientSampleId :

VF0128SBS01

Tot Ion:	88	Resp:	4360
Ion	Ratio	Lower	Upper
88	100		
43	70.3	55.5	83.3
58	110.3	59.9	89.9

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#50

Toluene-d8

Concen: 49.296 ug/l

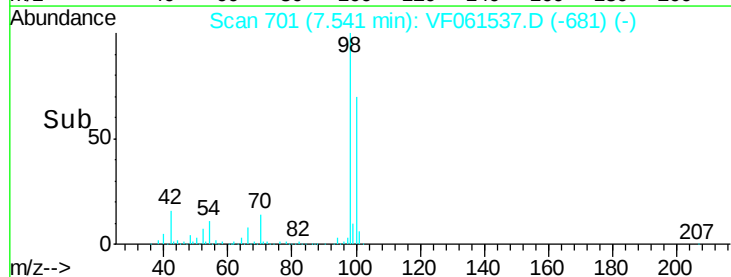
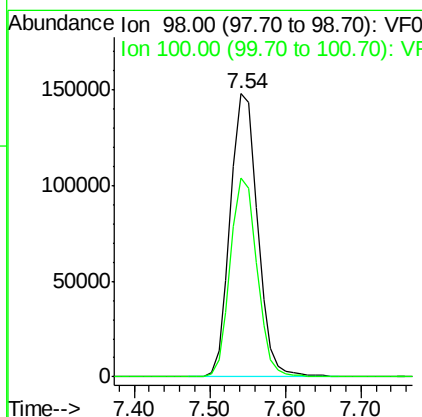
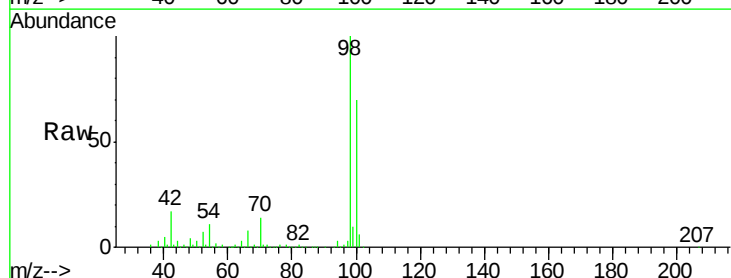
RT: 7.54 min Scan# 701

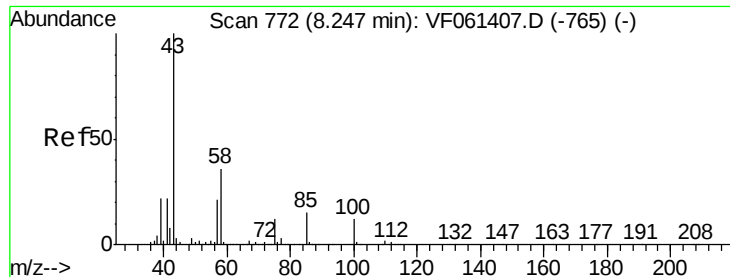
Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	98	Resp:	371683
Ion	Ratio	Lower	Upper
98	100		
100	70.4	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 111.520 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 43 Resp: 166316

Ion Ratio Lower Upper

43 100

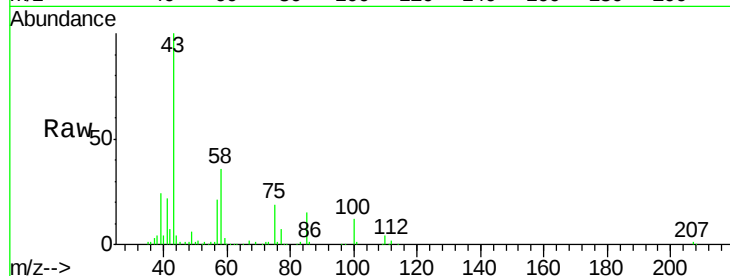
58 35.7 28.8 43.2

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM

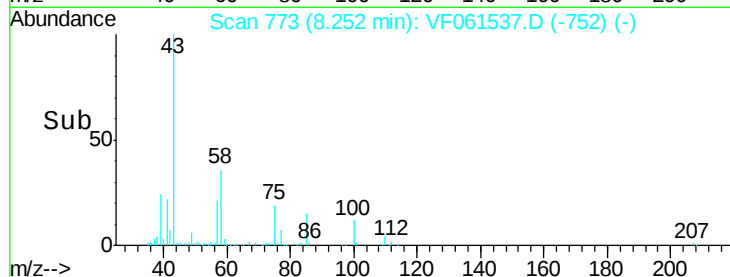


Abundance Ion 43.00 (42.70 to 43.70): VF0

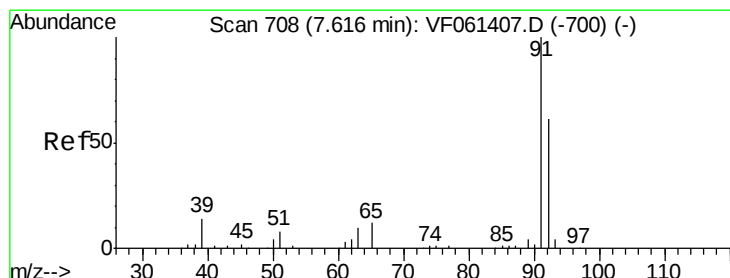
Ion 58.00 (57.70 to 58.70): VF0

8.25

8.20 8.30 8.40



Time-->



#52

Toluene

Concen: 20.568 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF061537.D

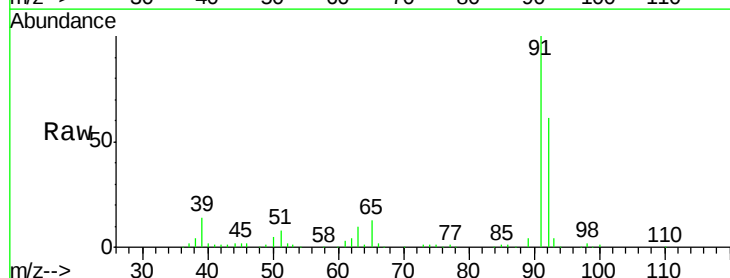
Acq: 28 Jan 2019 13:13

Tgt Ion: 92 Resp: 121868

Ion Ratio Lower Upper

92 100

91 164.6 131.2 196.8

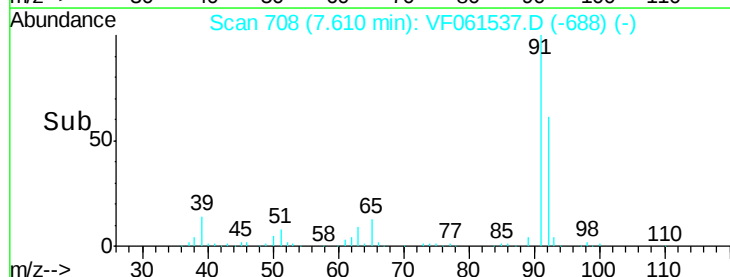


Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.61

7.50 7.60 7.70



Time-->



#53

t-1,3-Dichloropropene

Concen: 21.449 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBSD01

Tot Ion: 75 Resp: 66168

Ion Ratio Lower Upper

75 100

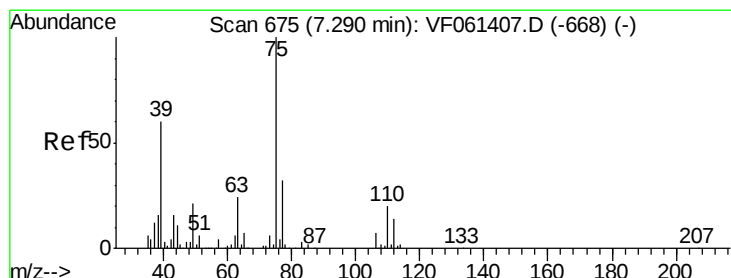
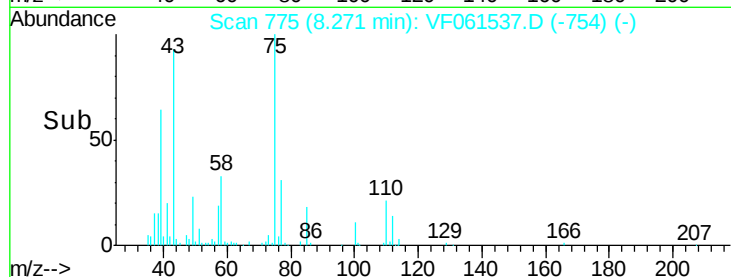
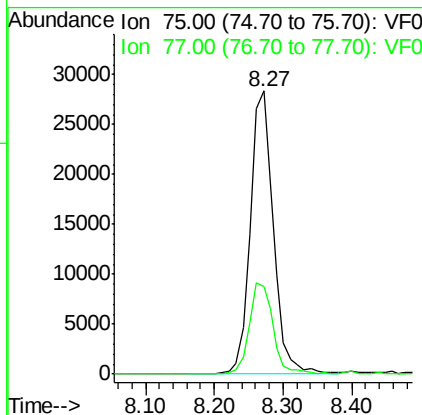
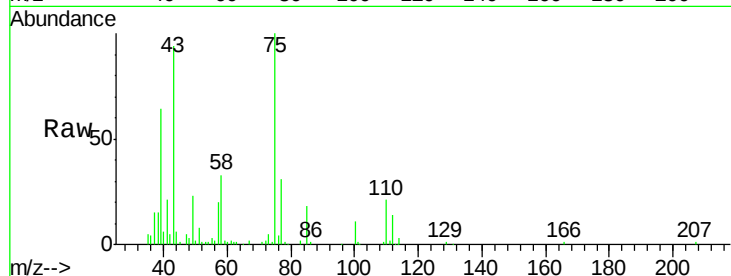
77 30.8 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#54

cis-1,3-Dichloropropene

Concen: 21.251 ug/l

RT: 7.29 min Scan# 676

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

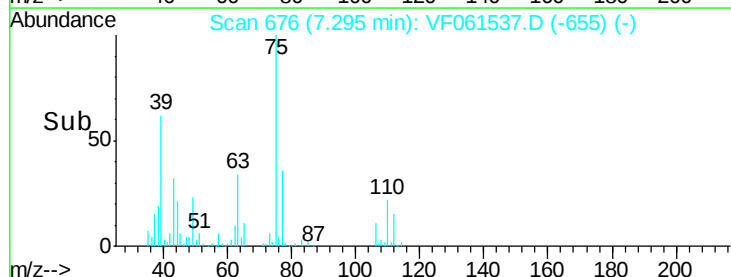
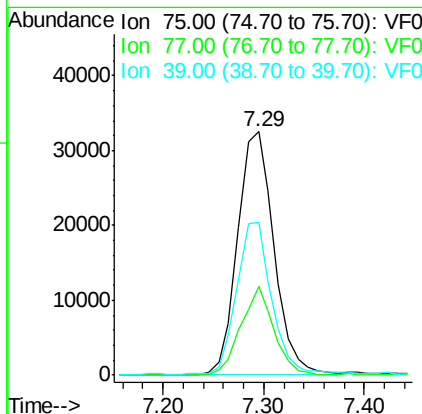
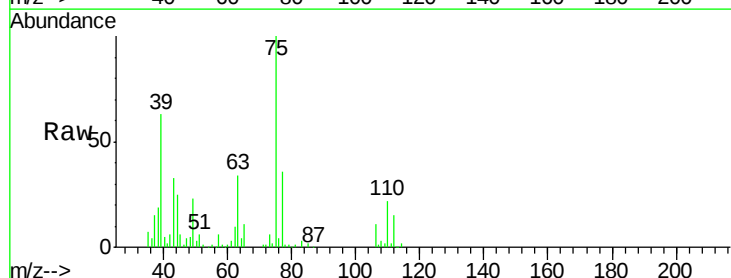
Tgt Ion: 75 Resp: 81945

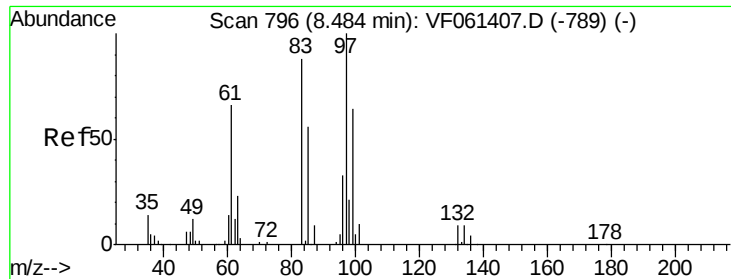
Ion Ratio Lower Upper

75 100

77 36.3 25.4 38.0

39 62.6 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 20.188 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

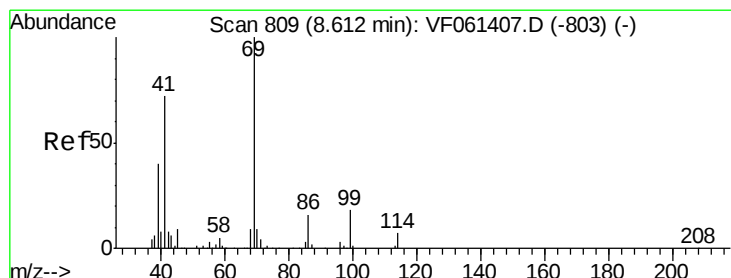
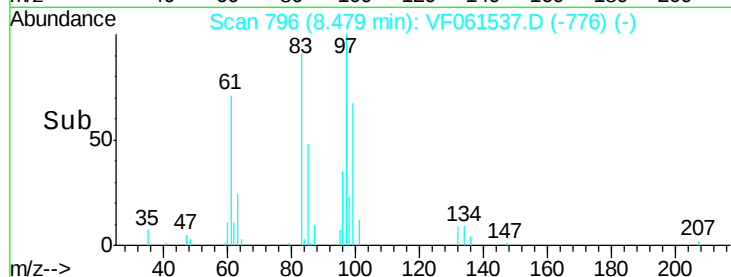
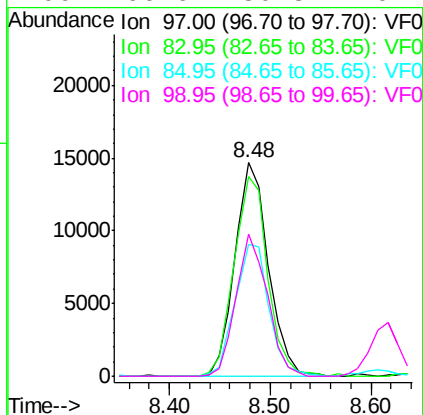
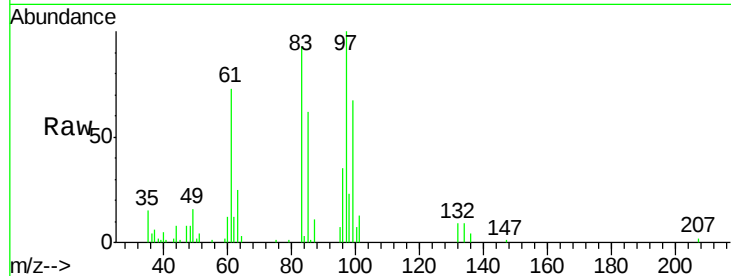
ClientSampleId :

VF0128SBS01

Tot Ion:	97	Resp:	33969
Ion	Ratio	Lower	Upper
97	100		
83	93.4	70.4	105.6
85	62.0	44.7	67.1
99	66.6	50.8	76.2

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#56

Ethyl methacrylate

Concen: 21.937 ug/l

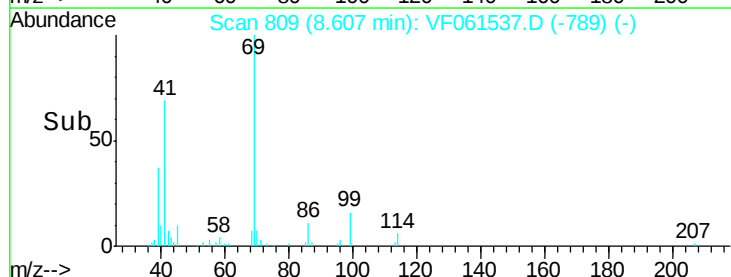
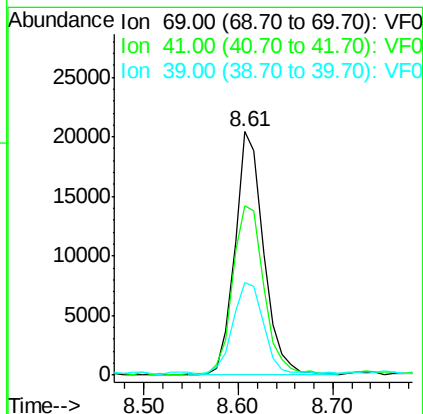
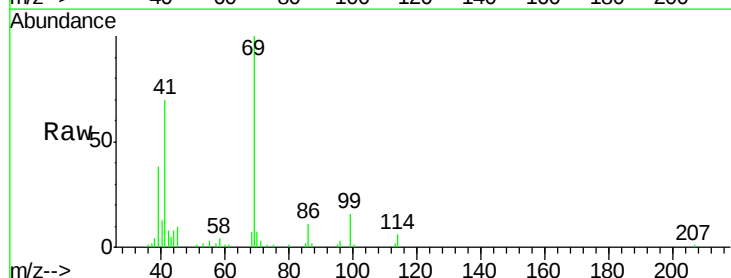
RT: 8.61 min Scan# 809

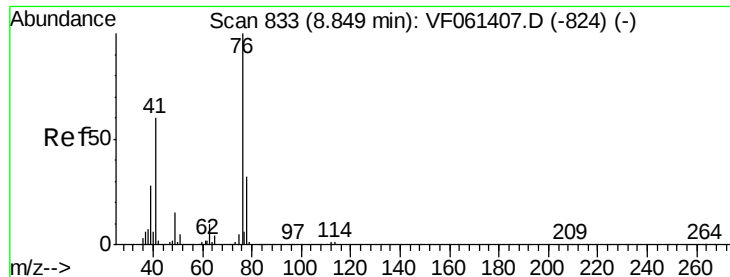
Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	69	Resp:	42944
Ion	Ratio	Lower	Upper
69	100		
41	69.6	57.5	86.3
39	38.0	32.0	48.0





#57

1,3-Dichloropropane

Concen: 20.194 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 76 Resp: 63688

Ion Ratio Lower Upper

76 100

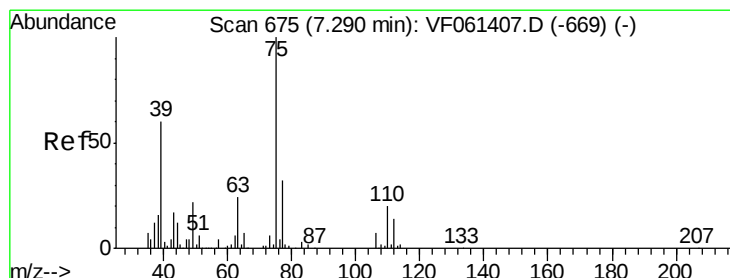
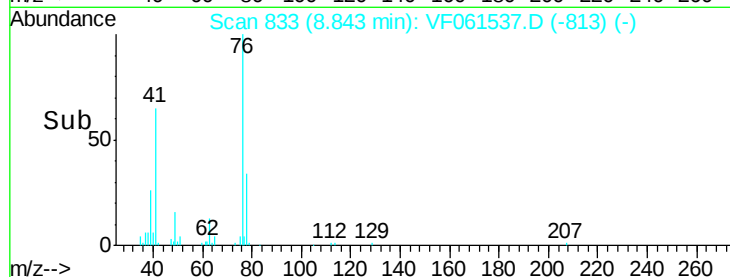
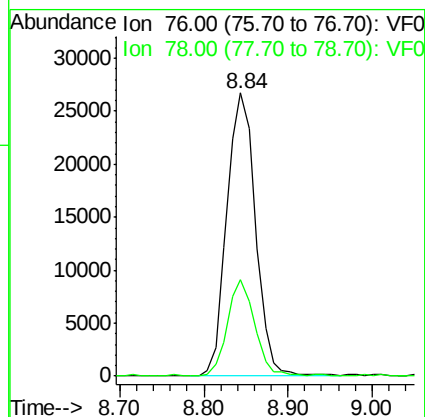
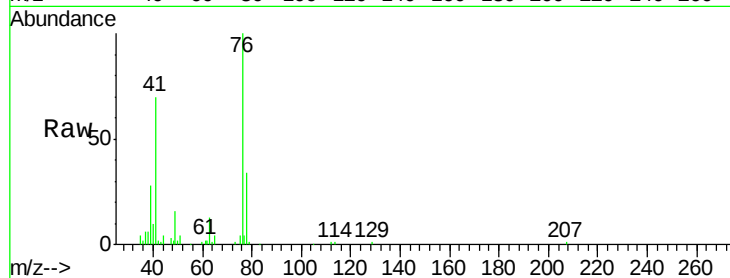
78 34.3 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#58

2-Chloroethyl Vinyl ether

Concen: 170.152 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.01 min

Lab File: VF061537.D

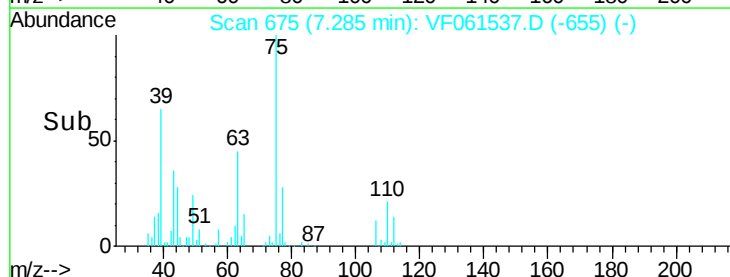
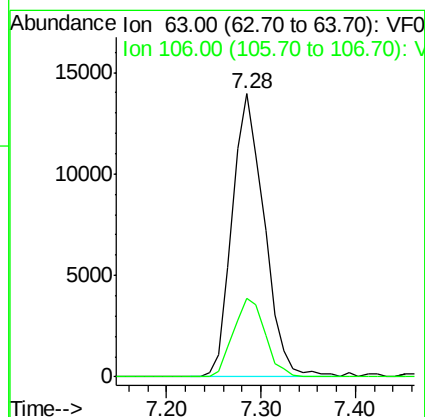
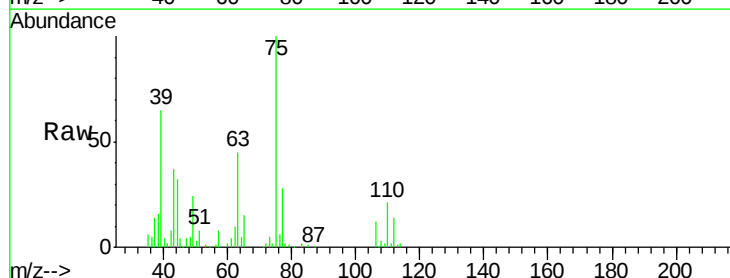
Acq: 28 Jan 2019 13:13

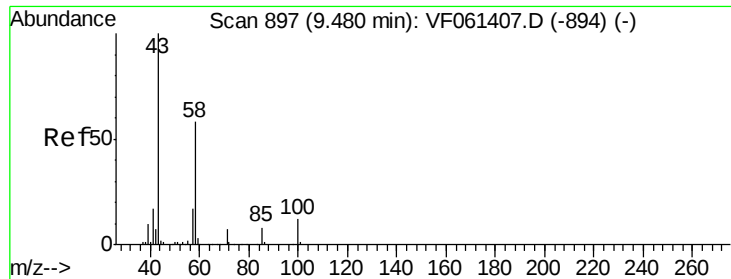
Tgt Ion: 63 Resp: 32901

Ion Ratio Lower Upper

63 100

106 27.6 21.9 32.9





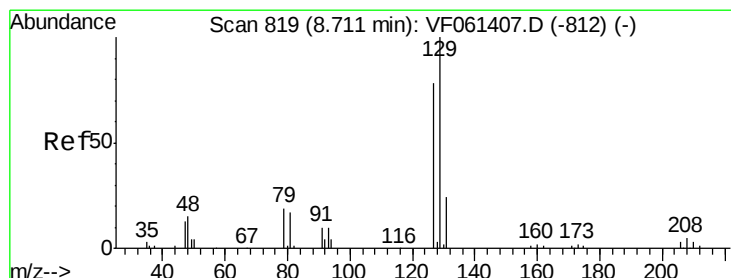
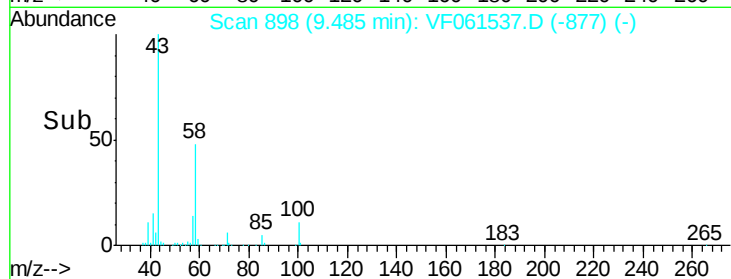
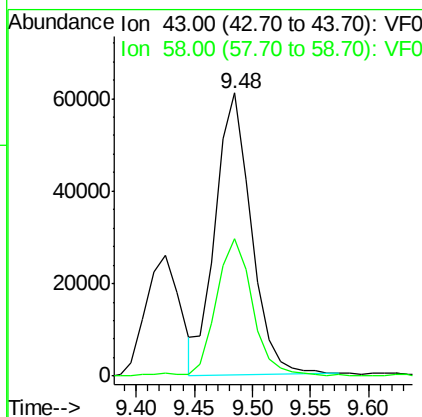
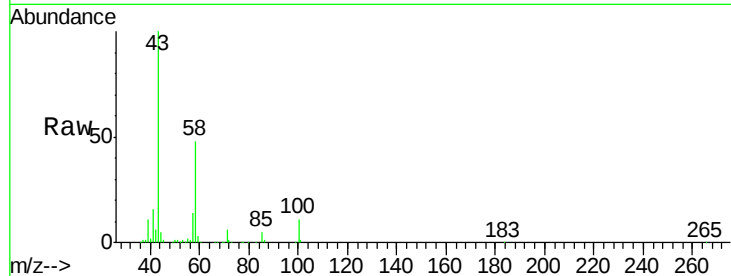
#59
2-Hexanone
Concen: 125.431 ug/l
RT: 9.48 min Scan# 898
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.5	25.9	77.6

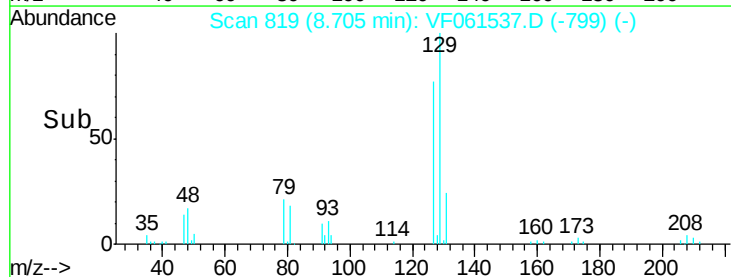
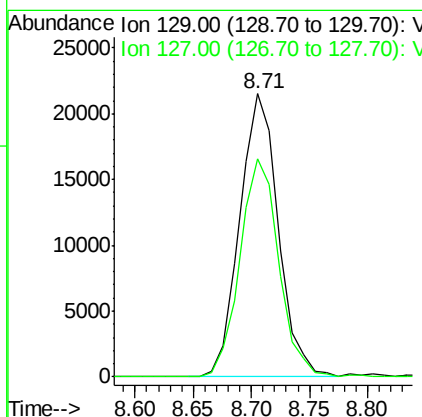
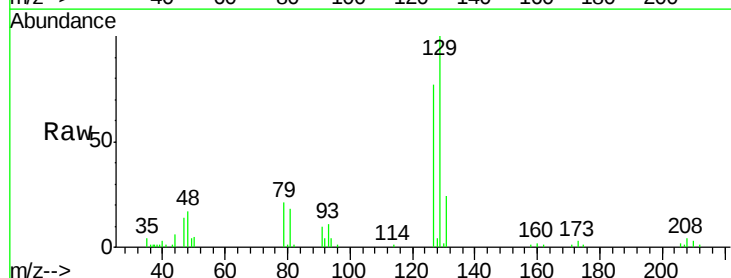
Manual Integrations
APPROVED

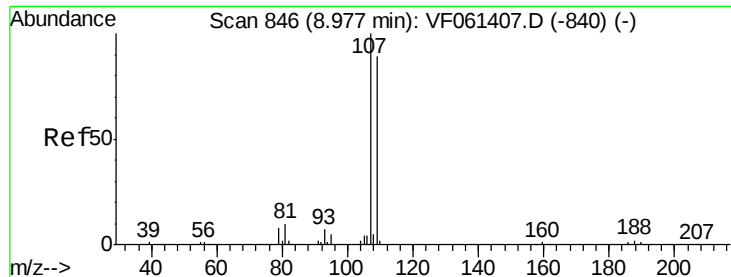
MMDadoda
1/29/2019 12:18:59 PM



#60
Dibromochloromethane
Concen: 20.050 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.9	39.1	117.2





#61

1,2-Dibromoethane

Concen: 19.394 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion:107 Resp: 37358

Ion Ratio Lower Upper

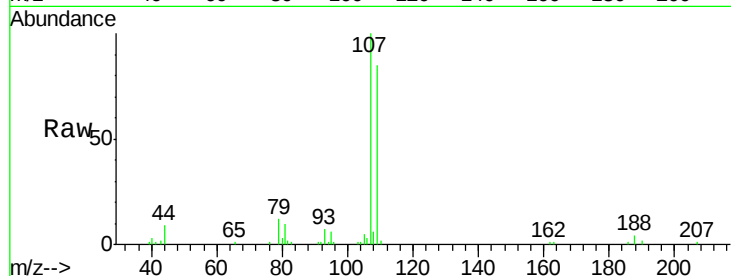
107 100

109 85.0 70.8 106.2

Manual Integrations
APPROVED

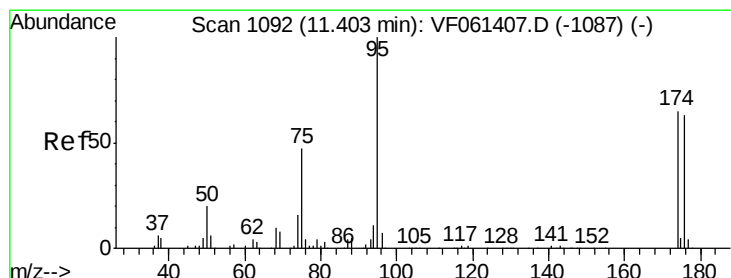
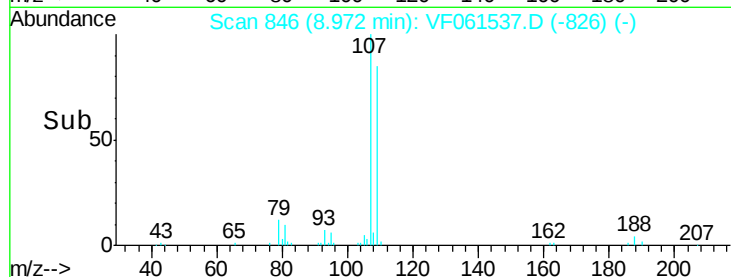
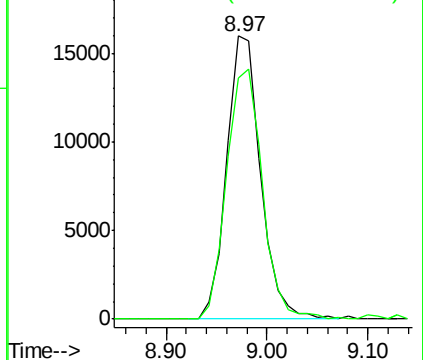
MMDadoda

1/29/2019 12:18:59 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 46.547 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

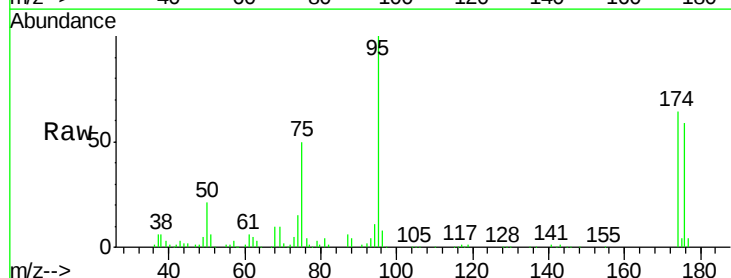
Tgt Ion: 95 Resp: 163975

Ion Ratio Lower Upper

95 100

174 64.1 0.0 130.4

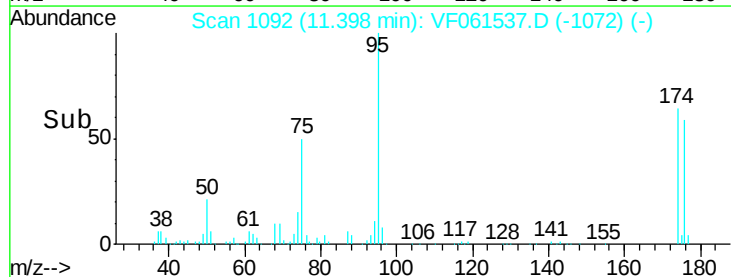
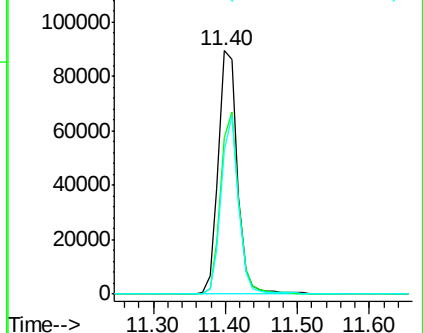
176 58.9 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

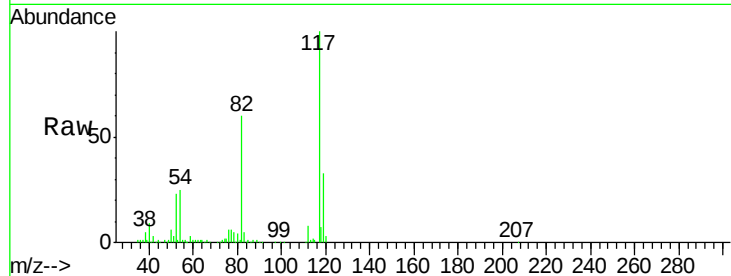
ClientSampleId :

VF0128SBS01

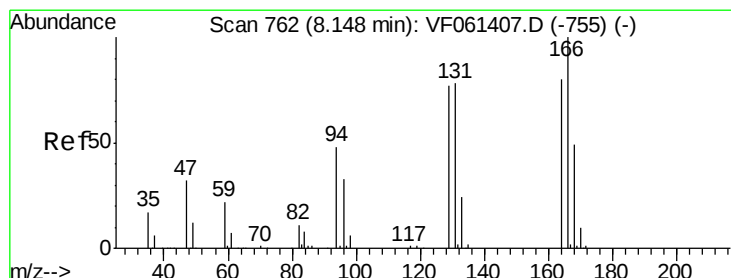
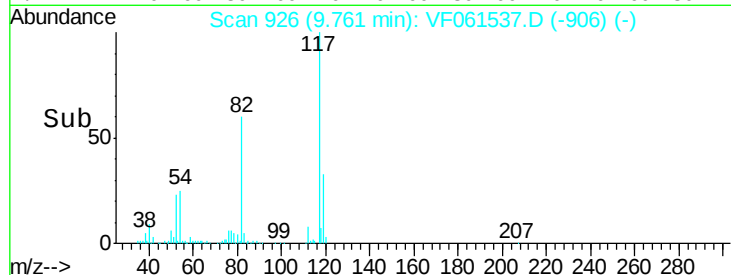
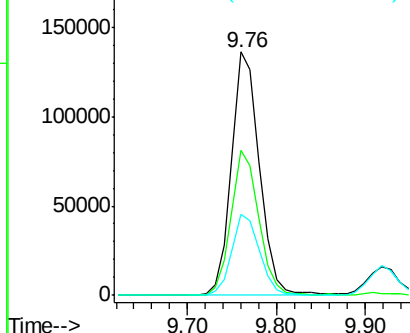
Tot Ion:	117	Resp:	302838
Ion Ratio	Lower	Upper	
117	100		
82	59.8	46.4	69.6
119	33.3	27.2	40.8

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 21.072 ug/l

RT: 8.14 min Scan# 762

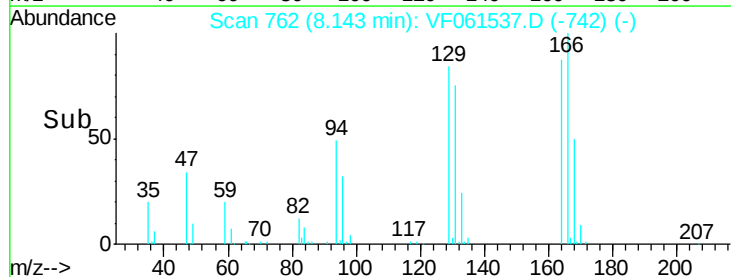
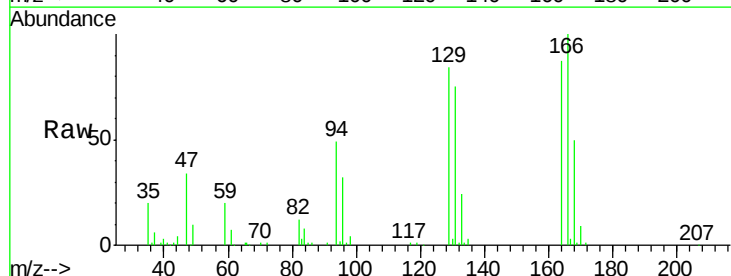
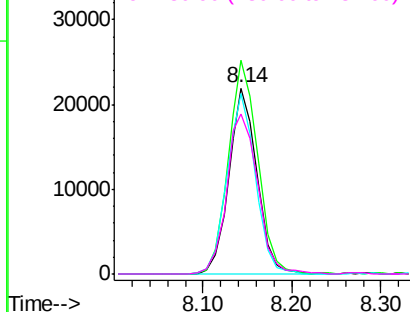
Delta R.T. -0.01 min

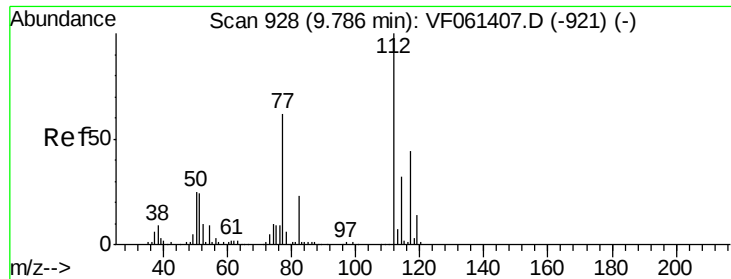
Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	164	Resp:	47988
Ion Ratio	Lower	Upper	
164	100		
166	114.9	99.6	149.4
129	97.0	76.4	114.6
131	85.9	77.9	116.9

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





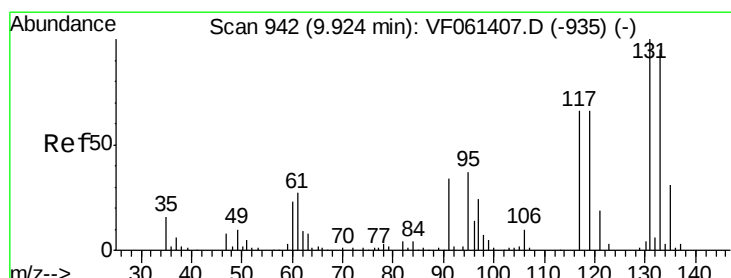
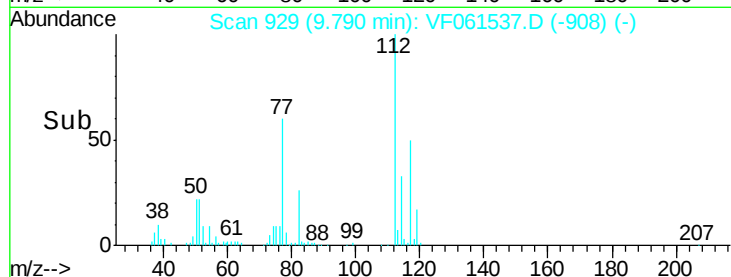
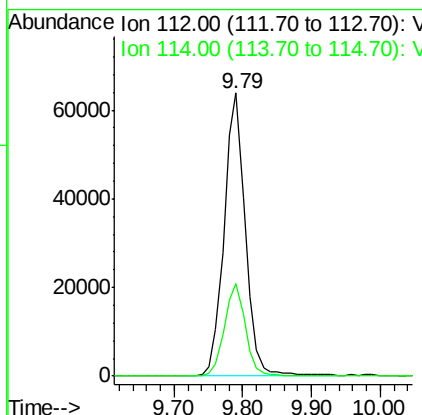
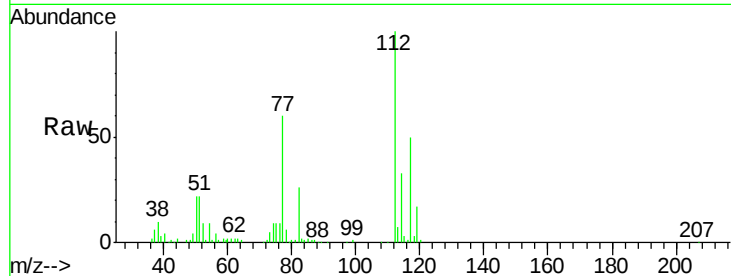
#65
Chlorobenzene
Concen: 22.139 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion:112 Resp: 136344
Ion Ratio Lower Upper
112 100
114 32.7 25.4 38.0

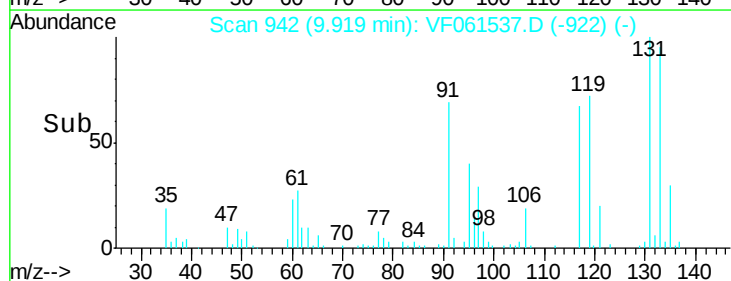
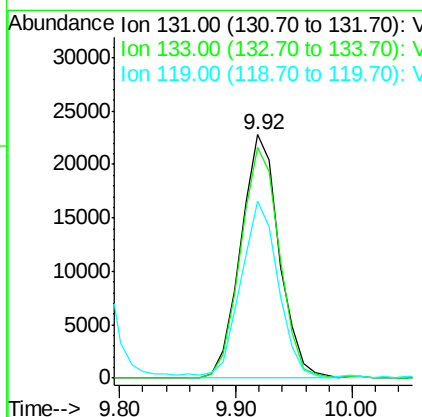
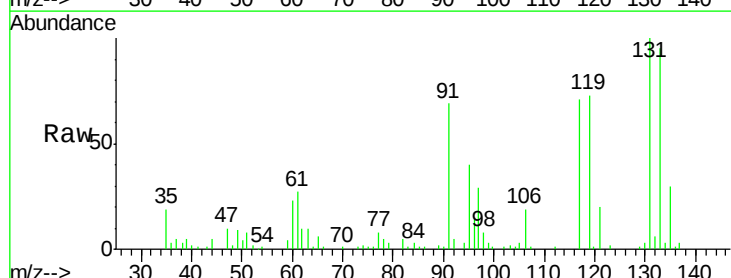
Manual Integrations
APPROVED

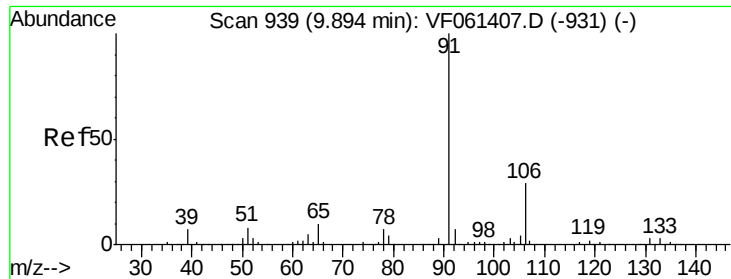
MMDadoda
1/29/2019 12:18:59 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.236 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion:131 Resp: 52099
Ion Ratio Lower Upper
131 100
133 94.8 47.4 142.2
119 72.6 33.1 99.3





#67

Ethyl Benzene

Concen: 20.992 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 91 Resp: 236195

Ion Ratio Lower Upper

91 100

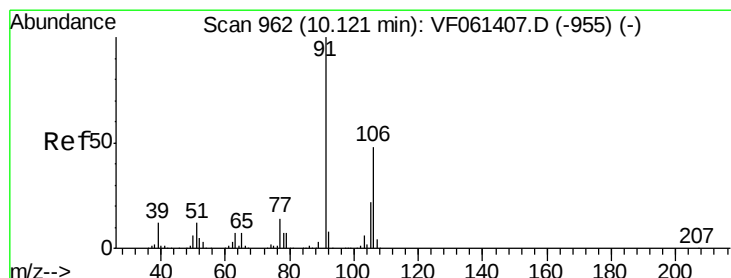
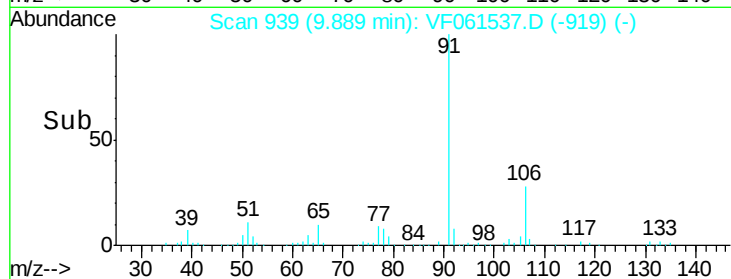
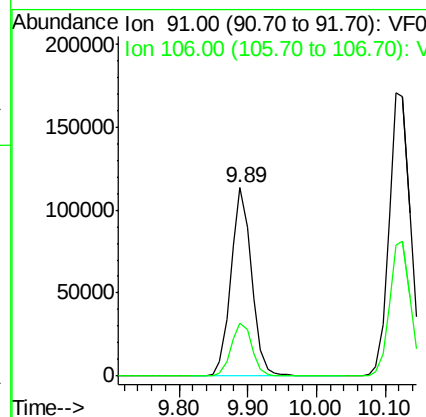
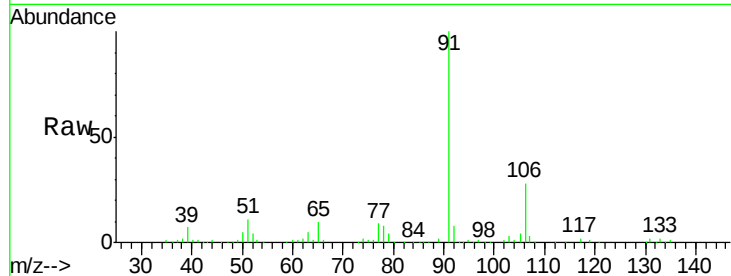
106 28.5 23.1 34.7

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#68

m/p-Xylenes

Concen: 43.184 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.00 min

Lab File: VF061537.D

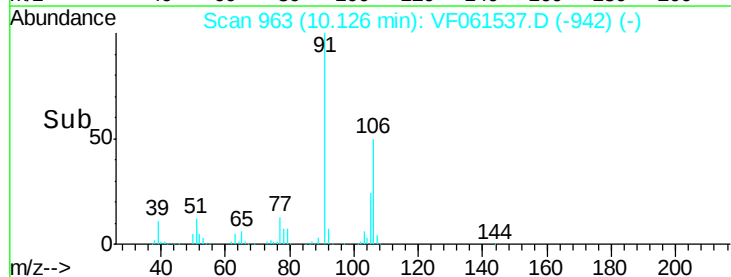
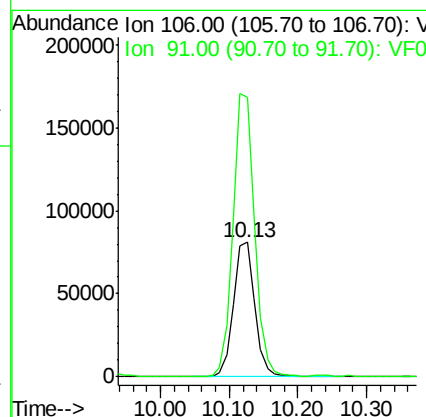
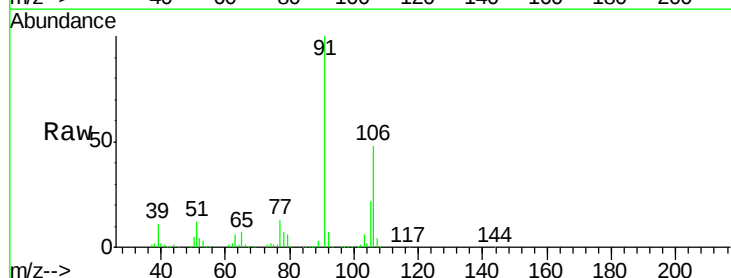
Acq: 28 Jan 2019 13:13

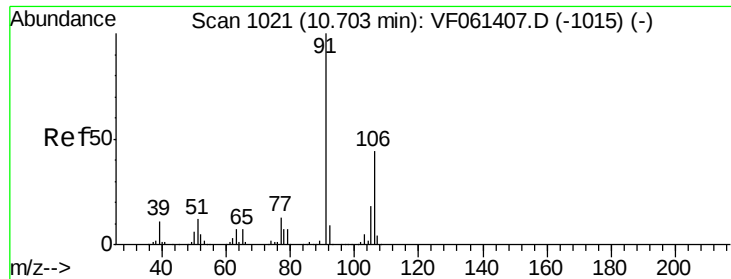
Tgt Ion: 106 Resp: 174760

Ion Ratio Lower Upper

106 100

91 207.9 166.2 249.4





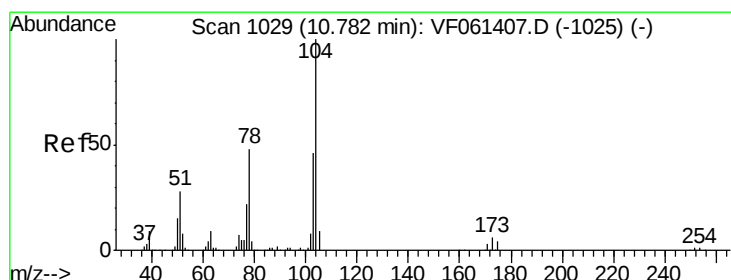
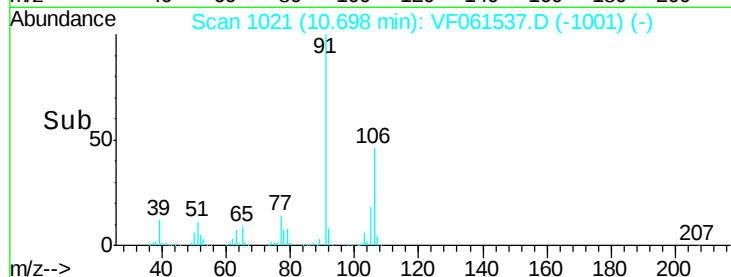
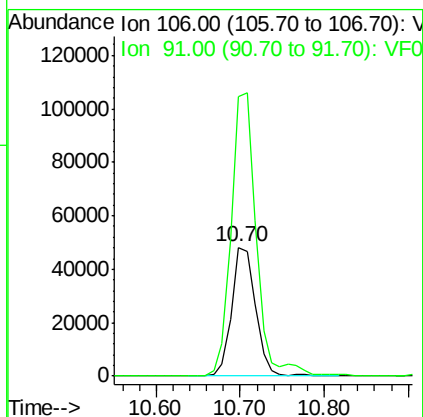
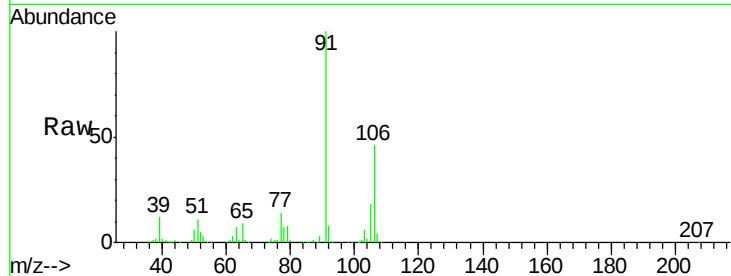
#69
o-Xylene
Concen: 21.885 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion:106 Resp: 95988
Ion Ratio Lower Upper
106 100
91 216.4 113.3 339.8

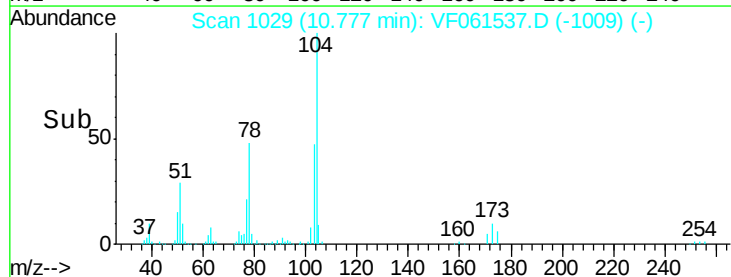
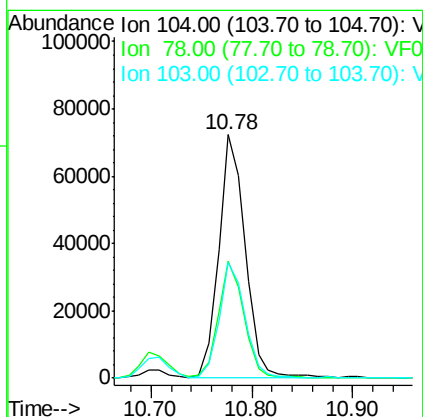
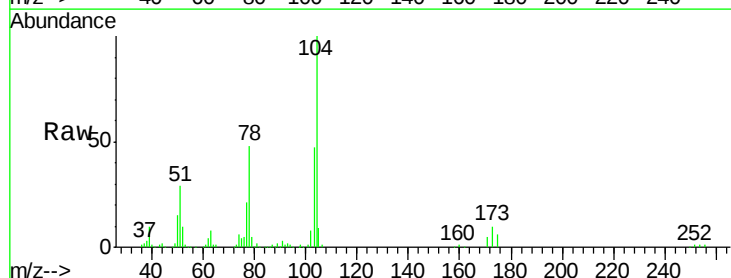
Manual Integrations
APPROVED

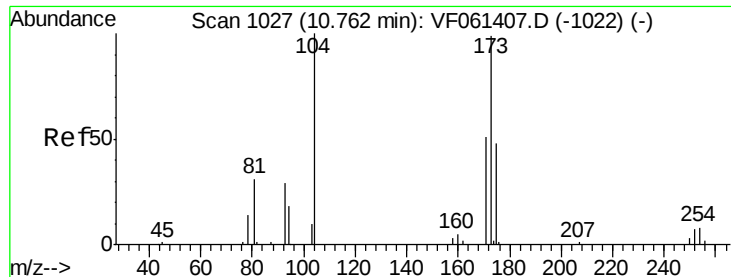
MMDadoda
1/29/2019 12:18:59 PM



#70
Styrene
Concen: 22.010 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion:104 Resp: 132145
Ion Ratio Lower Upper
104 100
78 48.0 38.8 58.2
103 47.3 37.0 55.6





#71

Bromoform

Concen: 24.041 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion:173 Resp: 26500

Ion Ratio Lower Upper

173 100

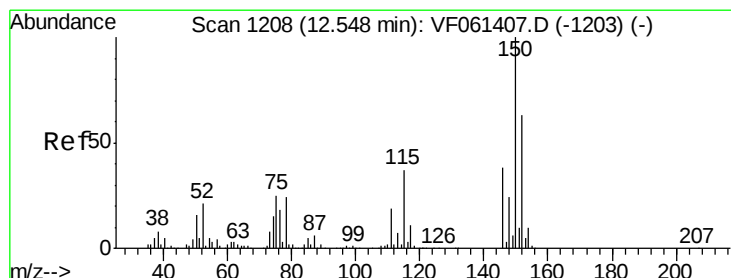
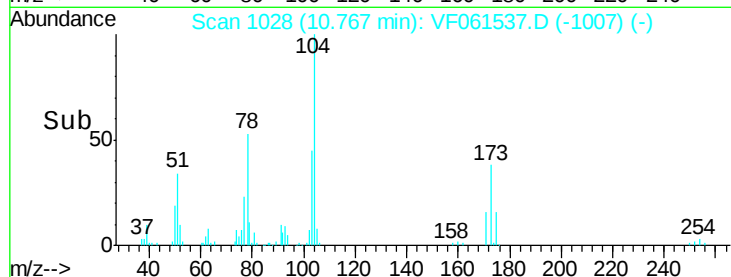
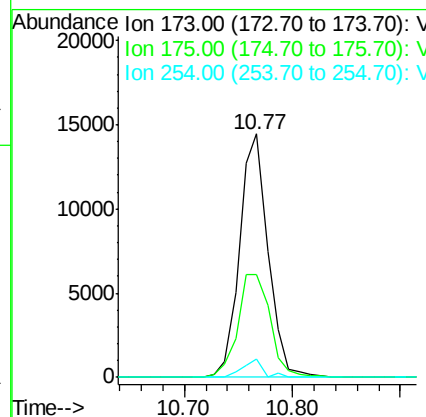
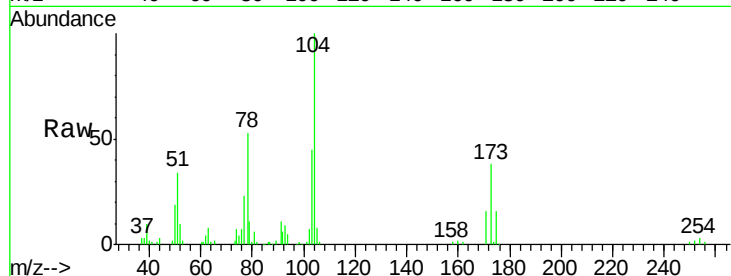
175 43.5 24.1 72.4

254 7.4 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

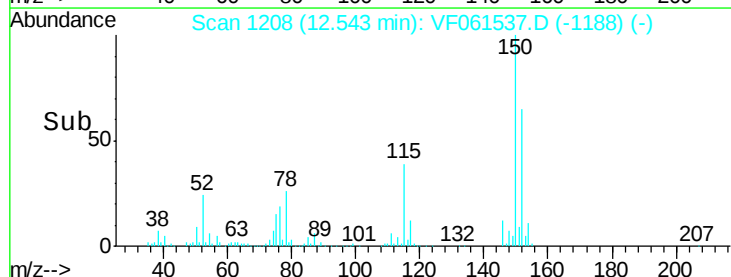
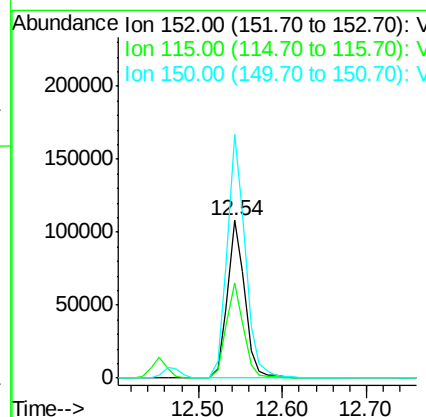
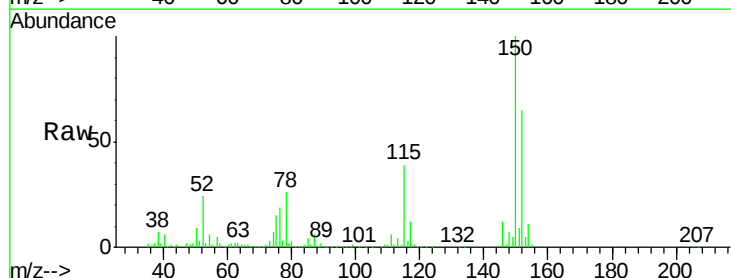
Tgt Ion:152 Resp: 157268

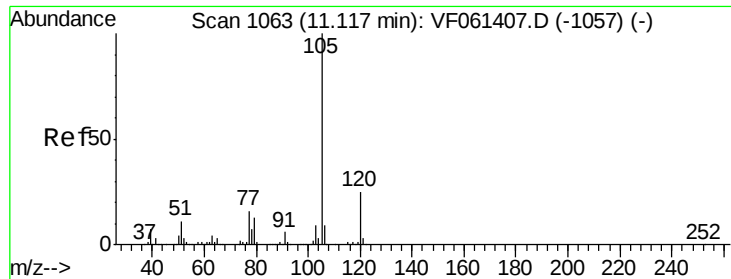
Ion Ratio Lower Upper

152 100

115 60.6 30.0 90.0

150 154.7 0.0 321.4





#73

Isopropylbenzene

Concen: 22.562 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion:105 Resp: 288583

Ion Ratio Lower Upper

105 100

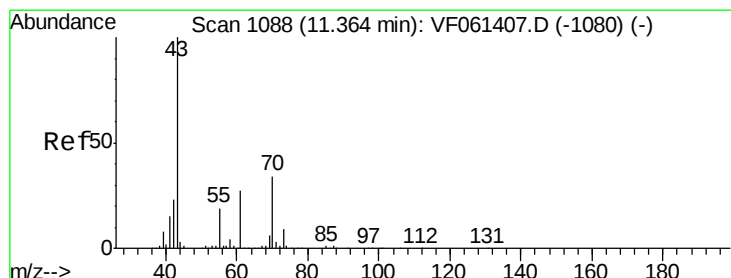
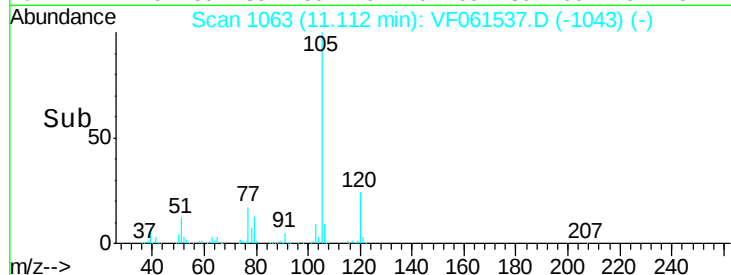
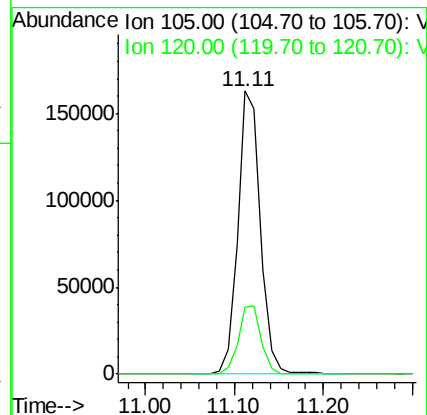
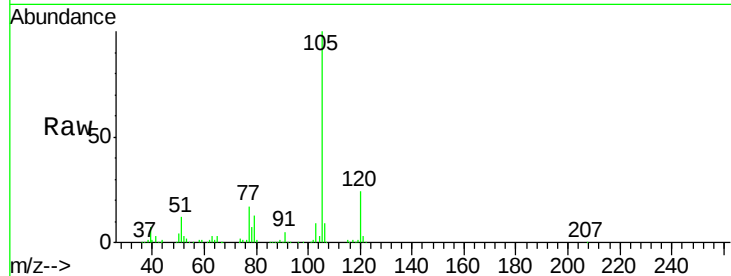
120 23.9 12.6 37.8

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#74

N-ethyl acetate

Concen: 25.979 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion: 43 Resp: 78576

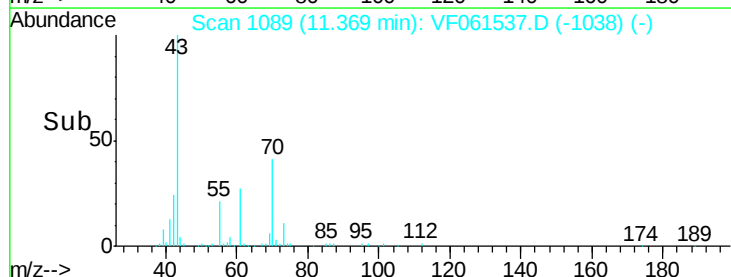
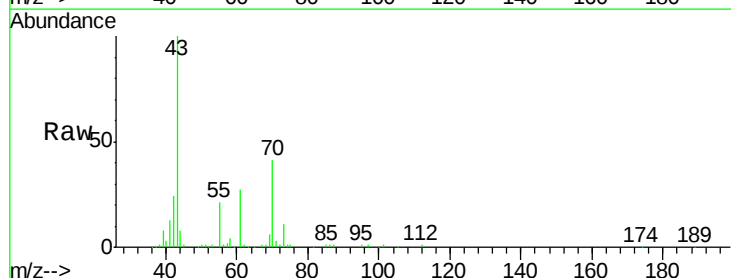
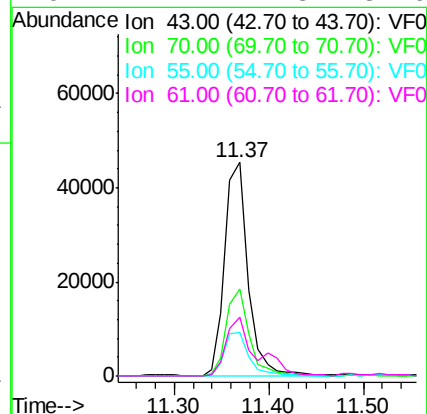
Ion Ratio Lower Upper

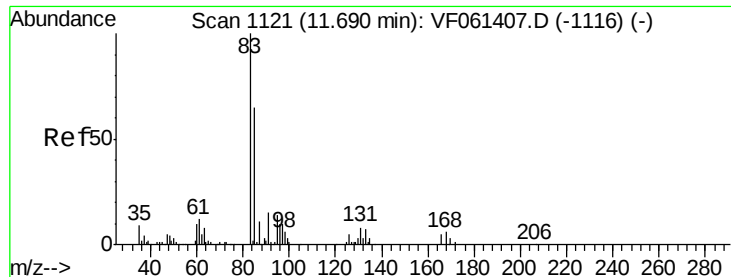
43 100

70 40.5 27.6 41.4

55 20.7 15.4 23.2

61 27.4 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 22.389 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

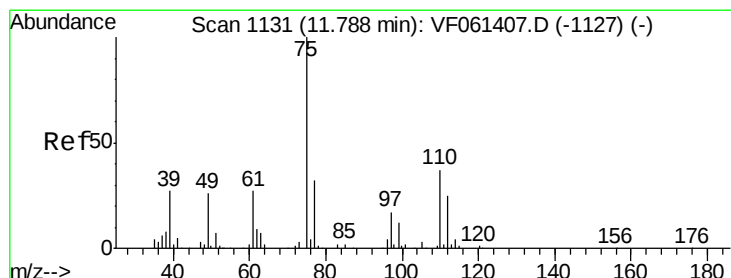
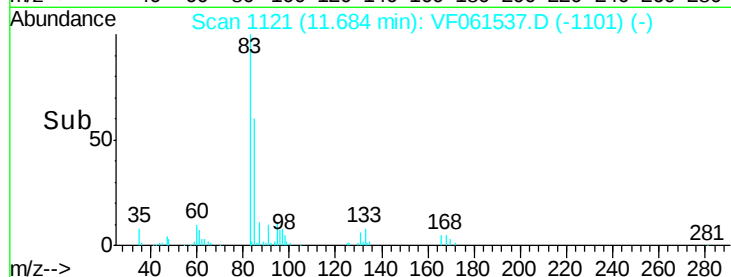
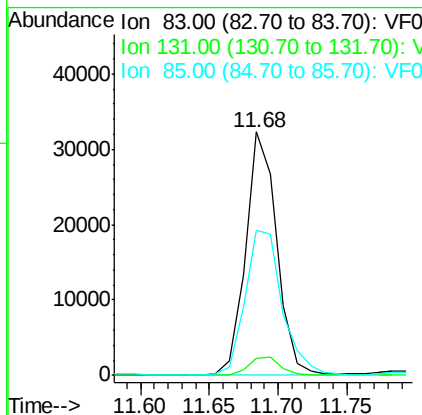
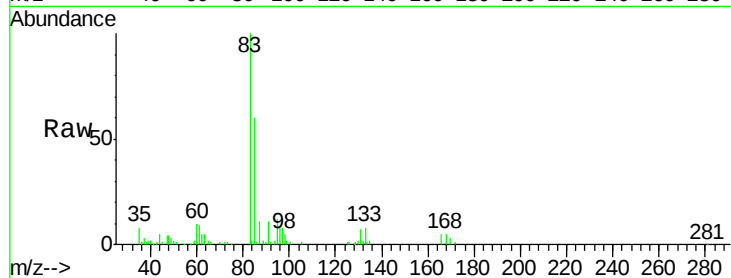
ClientSampleId :

VF0128SBS01

Tot Ion:	83	Resp:	51018
Ion Ratio	Lower	Upper	
83	100		
131	6.7	4.0	12.2
85	59.7	32.7	98.1

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#76

1,2,3-Trichloropropane

Concen: 21.638 ug/l

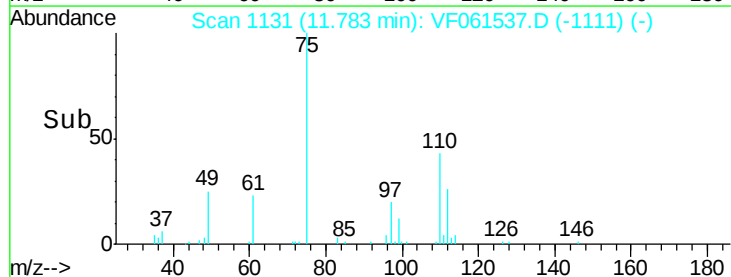
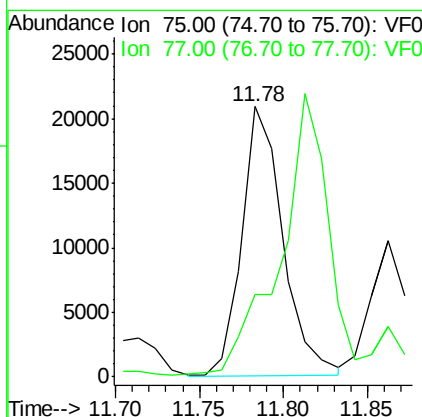
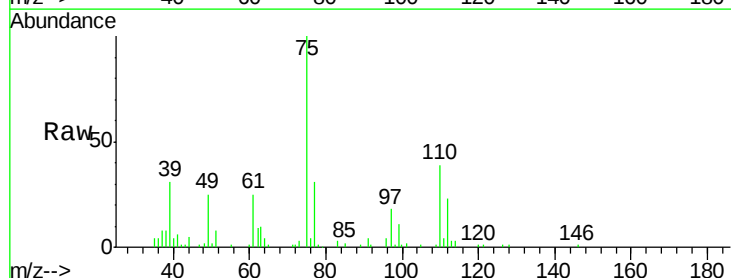
RT: 11.78 min Scan# 1131

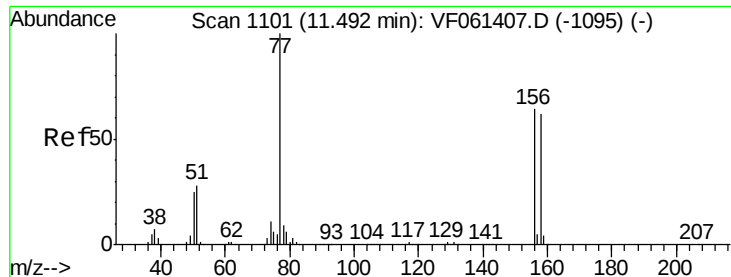
Delta R.T. -0.01 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	75	Resp:	35429
Ion Ratio	Lower	Upper	
75	100		
77	30.7	16.1	48.3





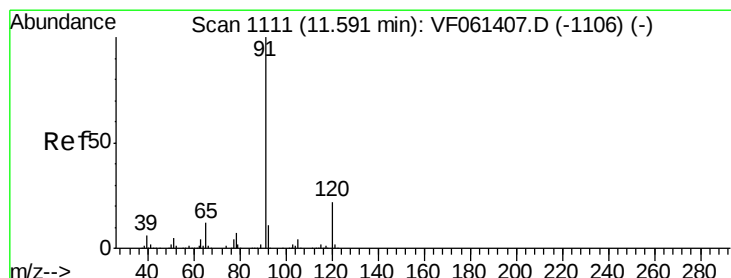
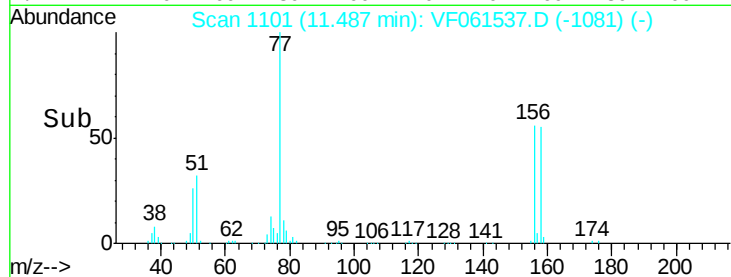
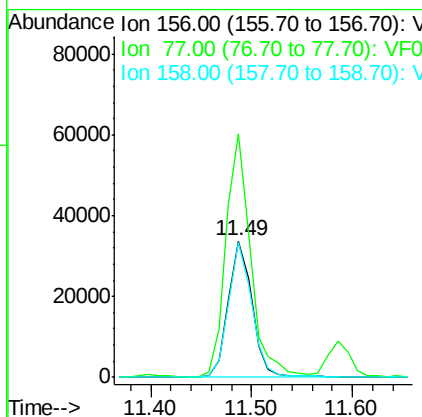
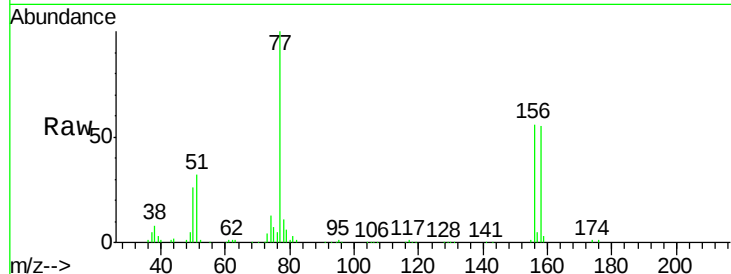
#77
Bromobenzene
Concen: 20.509 ug/l
RT: 11.49 min Scan# 1101
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	178.6	78.3	234.9
158	98.7	48.9	146.7

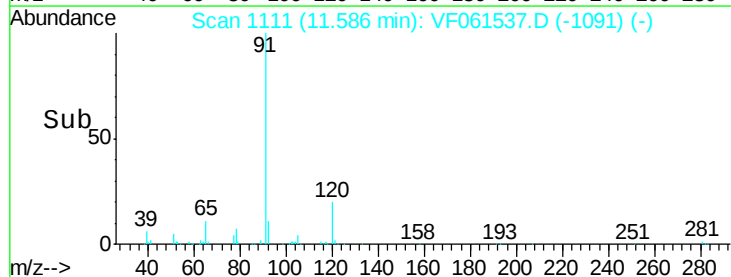
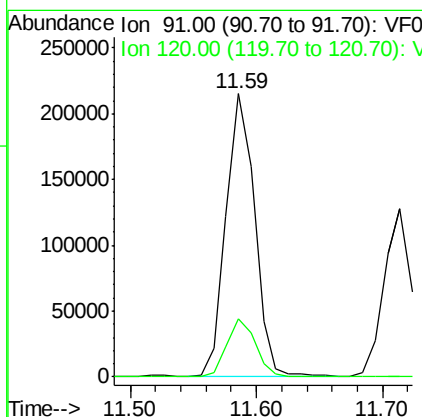
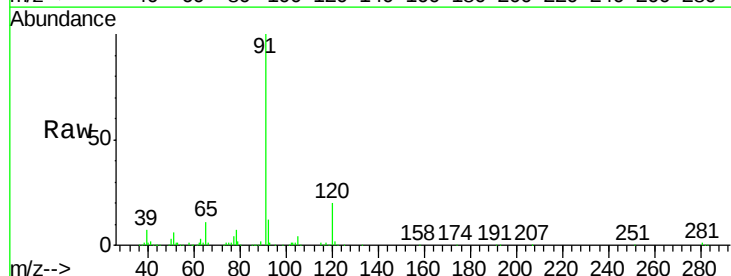
Manual Integrations
APPROVED

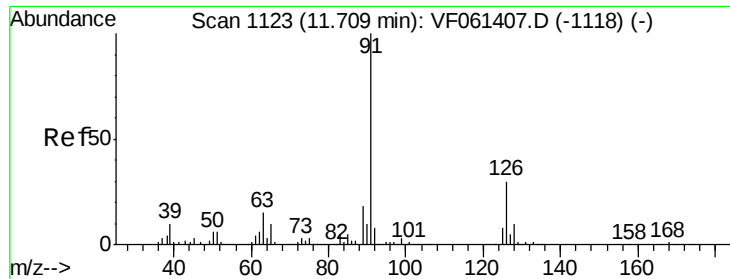
MMDadoda
1/29/2019 12:18:59 PM



#78
n-propylbenzene
Concen: 20.391 ug/l
RT: 11.59 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.3	10.9	32.6





#79

2-Chlorotoluene

Concen: 22.062 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

ClientSampleId :

VF0128SBS01

Tot Ion: 91 Resp: 195797

Ion Ratio Lower Upper

91 100

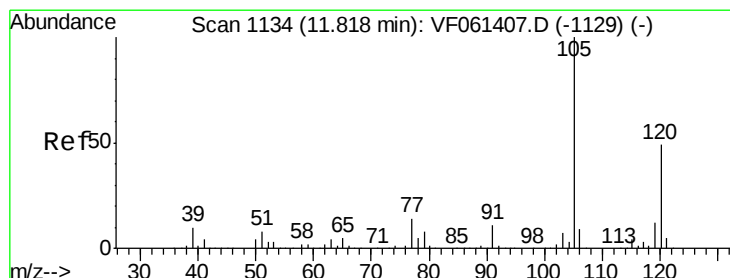
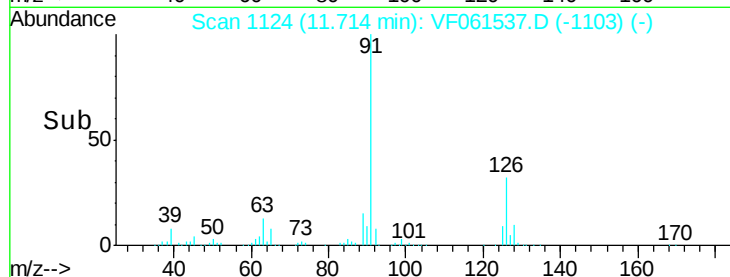
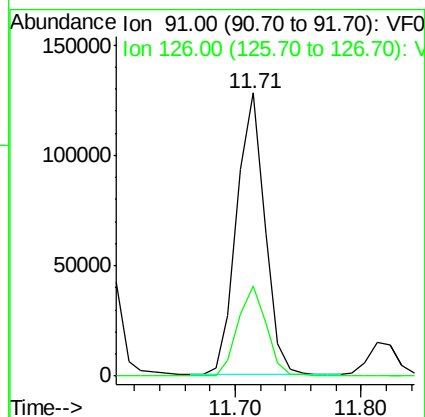
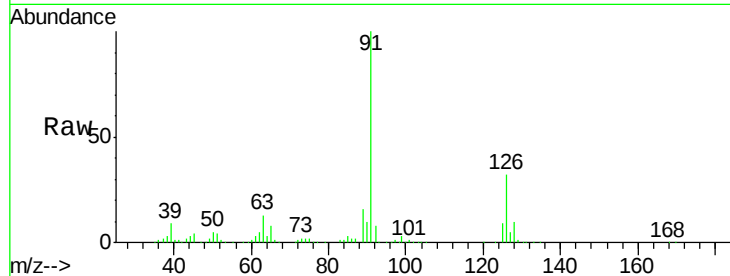
126 31.7 15.0 45.1

Manual Integrations

APPROVED

MMDadoda

1/29/2019 12:18:59 PM



#80

1,3,5-Trimethylbenzene

Concen: 22.510 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF061537.D

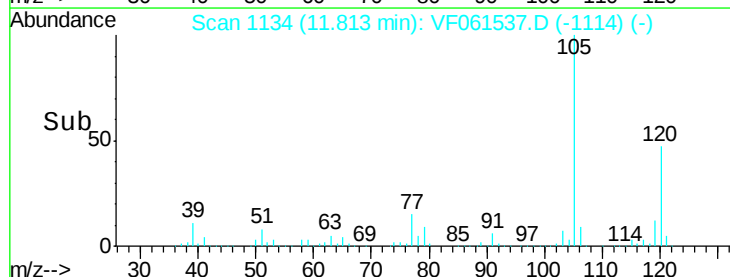
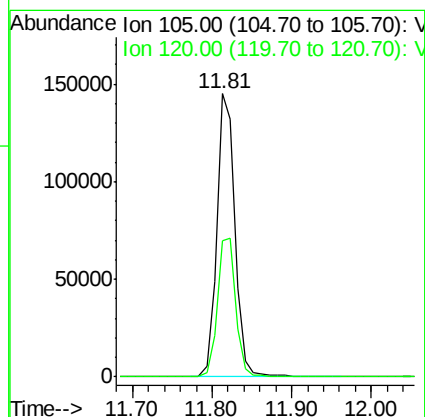
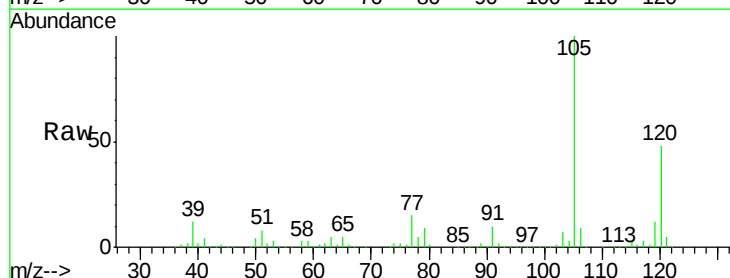
Acq: 28 Jan 2019 13:13

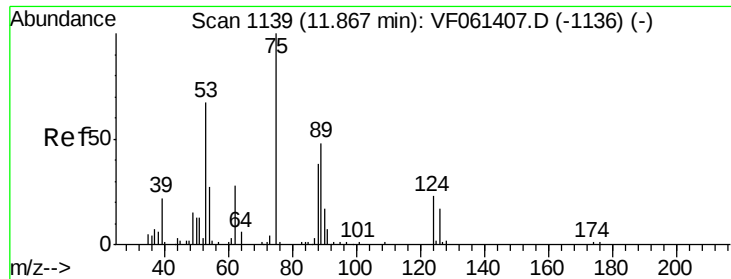
Tgt Ion: 105 Resp: 232360

Ion Ratio Lower Upper

105 100

120 48.0 24.7 74.1





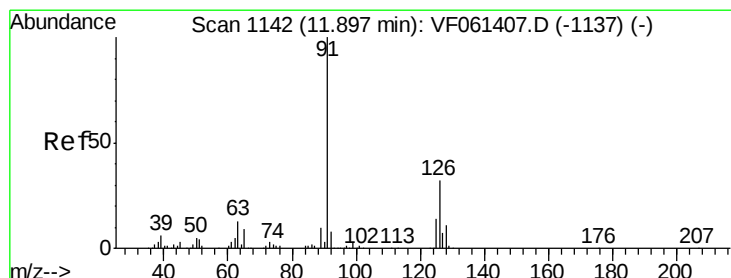
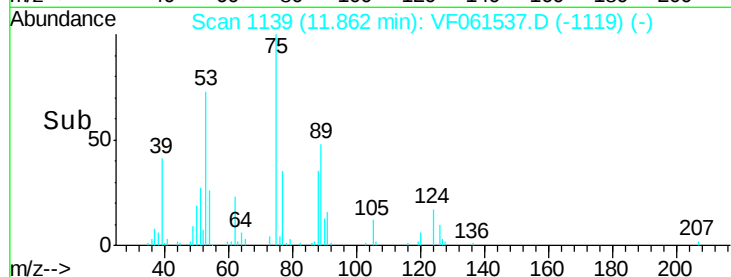
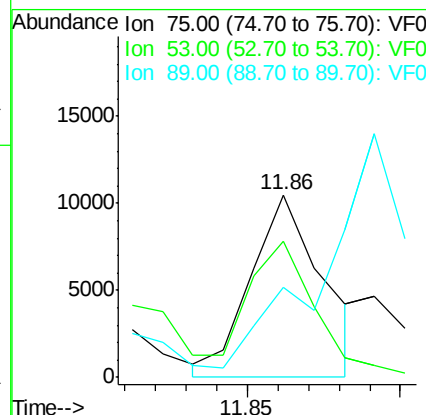
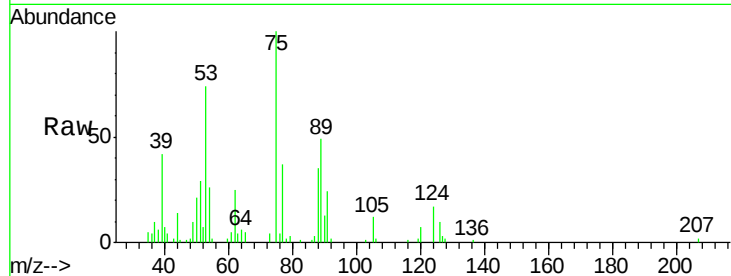
#81
trans-1,4-Dichloro-2-butene
Concen: 23.976 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	74.3	57.8	86.6
89	49.2	40.7	61.1

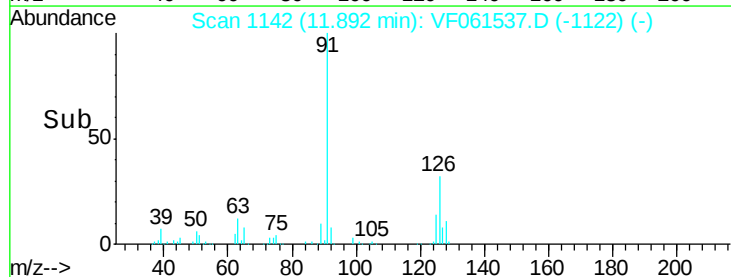
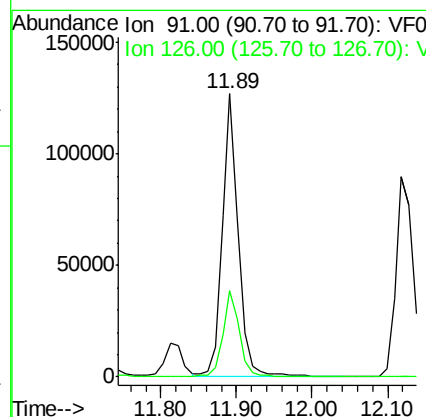
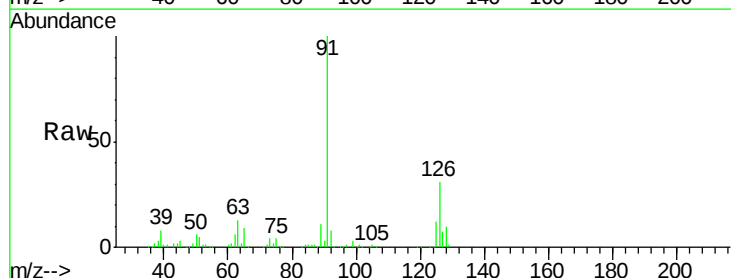
Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#82
4-Chlorotoluene
Concen: 21.077 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.6	16.0	47.9





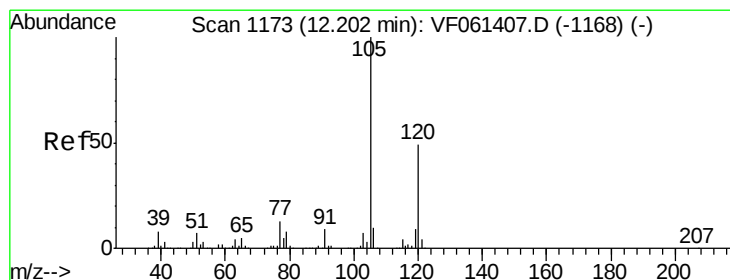
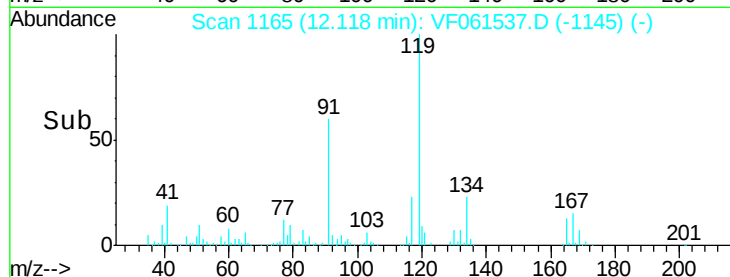
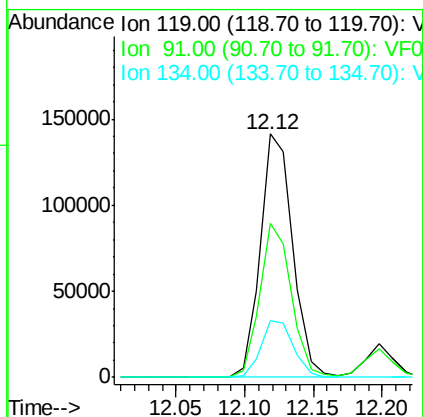
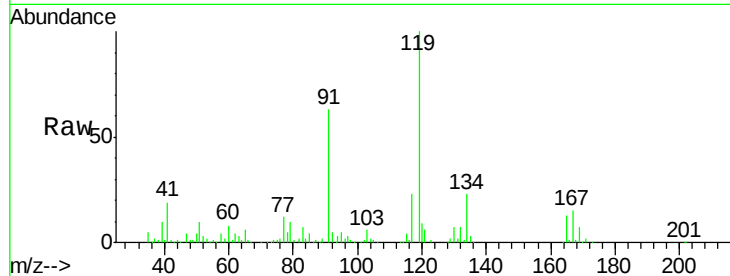
#83
tert-Butylbenzene
Concen: 21.693 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	231767		
91	63.3		31.3	93.8
134	23.1		12.4	37.0

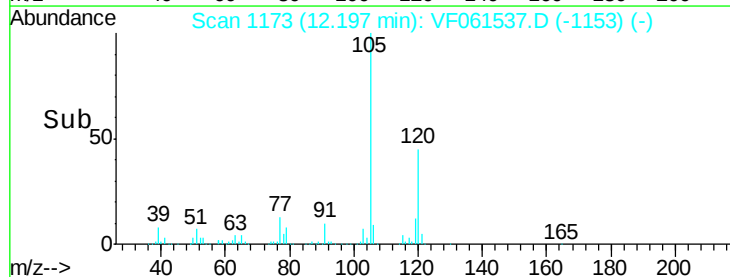
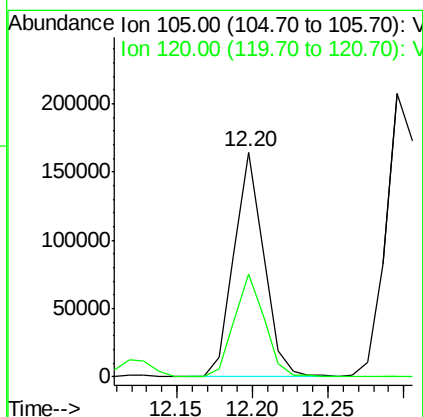
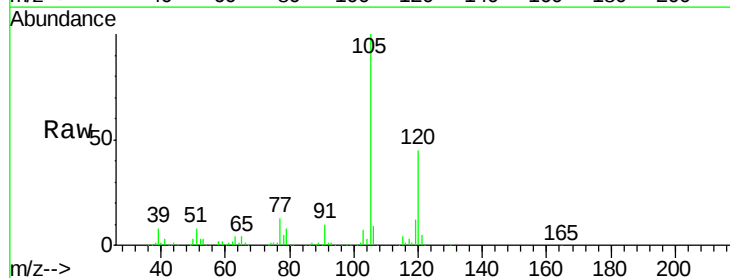
Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#84
1,2,4-Trimethylbenzene
Concen: 21.304 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	226517		
120	45.5		24.9	74.6





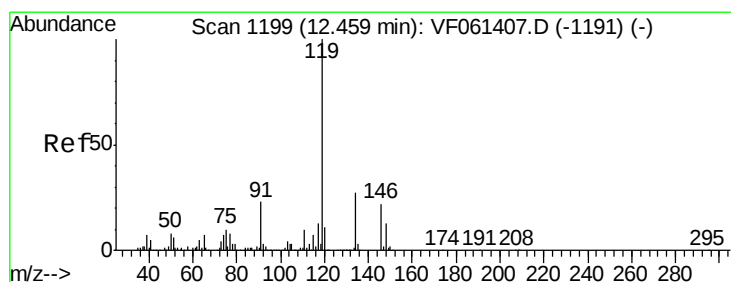
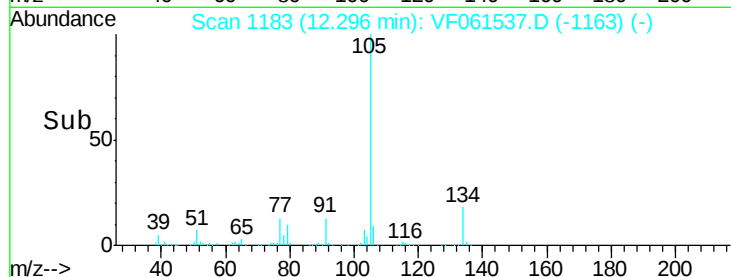
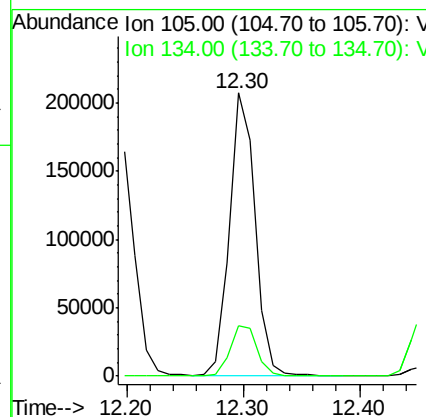
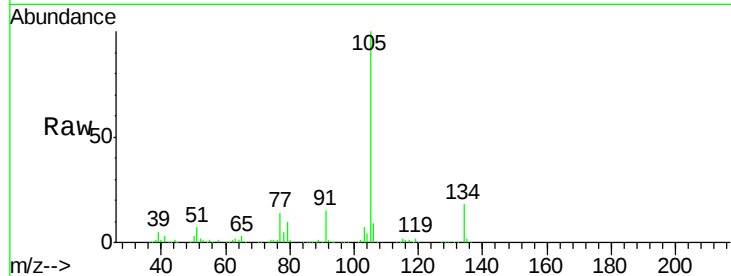
#85
 sec-Butylbenzene
 Concen: 21.826 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0128SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	316681		
134	18.0	10.0	30.0	

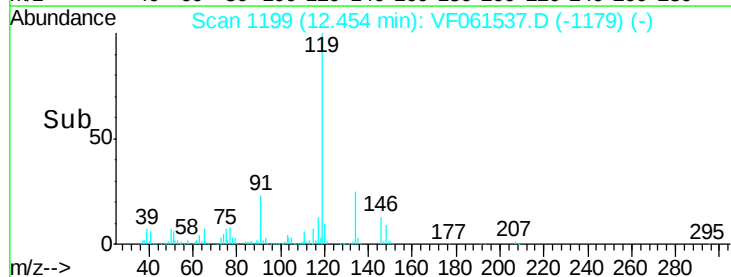
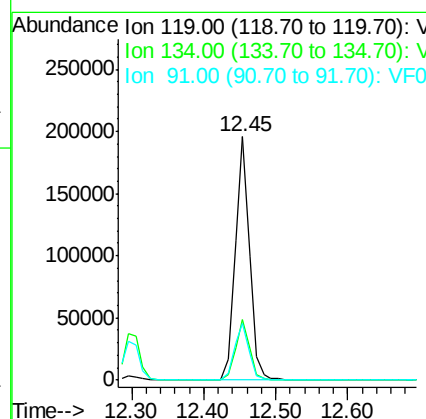
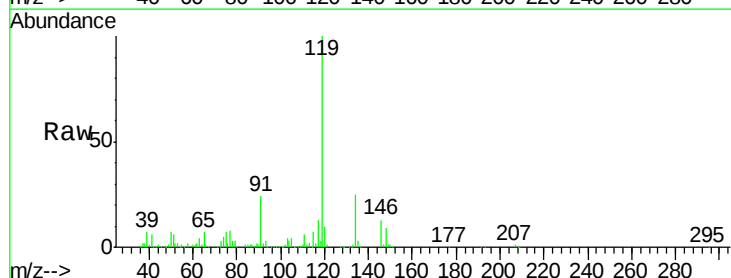
Manual Integrations
 APPROVED

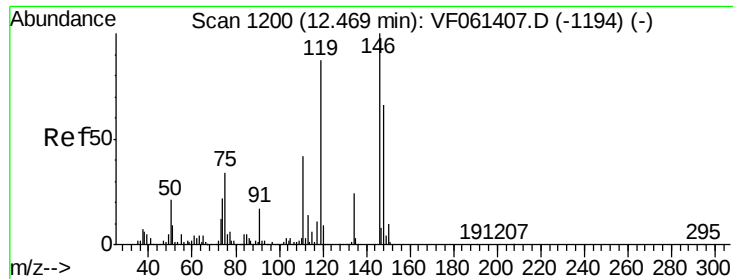
MMDadoda
 1/29/2019 12:18:59 PM



#86
 p-Isopropyltoluene
 Concen: 22.550 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	268580		
134	25.0	13.4	40.2	
91	23.6	11.4	34.2	





#87

1,3-Dichlorobenzene

Concen: 20.102 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Instrument :

MSVOA_F

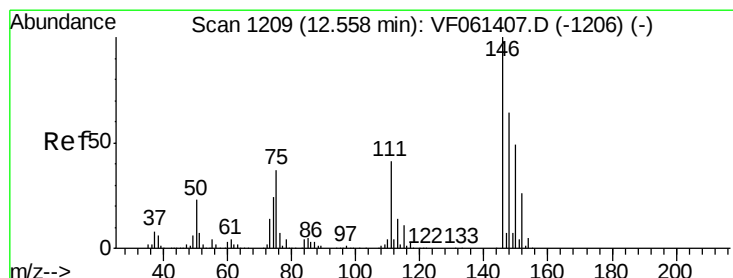
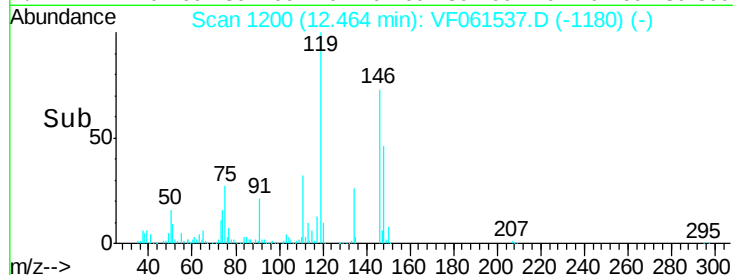
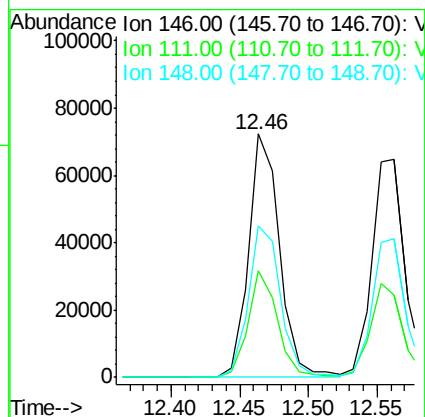
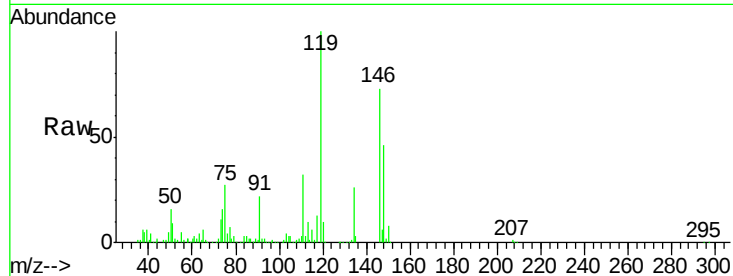
ClientSampleId :

VF0128SBS01

Tot Ion:	146	Resp:	114082
Ion Ratio	Lower	Upper	
146	100		
111	43.9	21.1	63.4
148	62.3	32.9	98.6

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#88

1,4-Dichlorobenzene

Concen: 21.696 ug/l

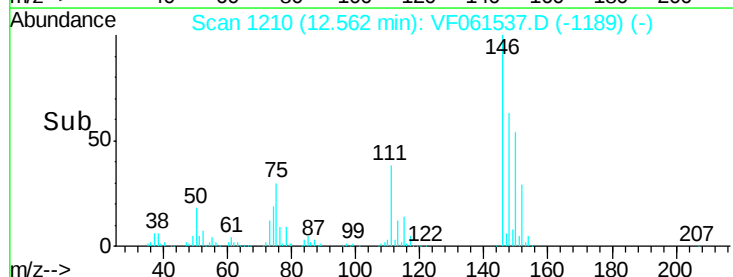
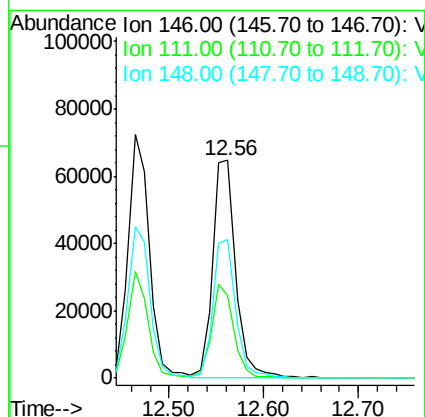
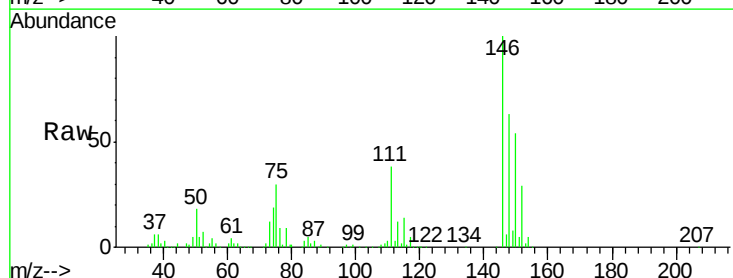
RT: 12.56 min Scan# 1210

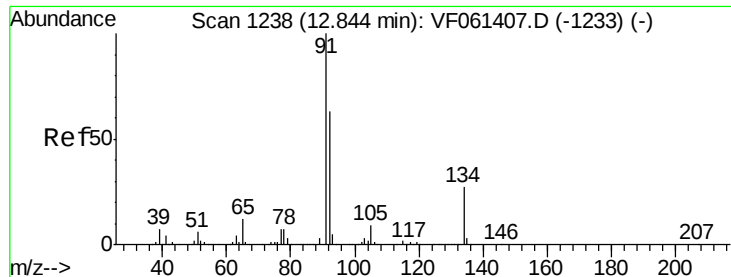
Delta R.T. 0.00 min

Lab File: VF061537.D

Acq: 28 Jan 2019 13:13

Tgt Ion:	146	Resp:	110747
Ion Ratio	Lower	Upper	
146	100		
111	37.6	20.8	62.2
148	63.4	32.1	96.5





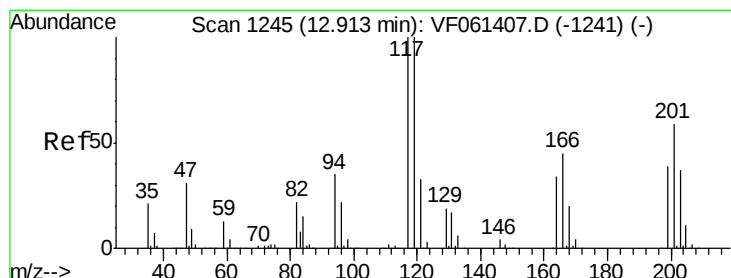
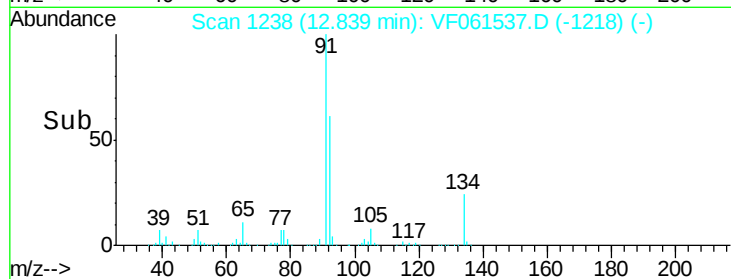
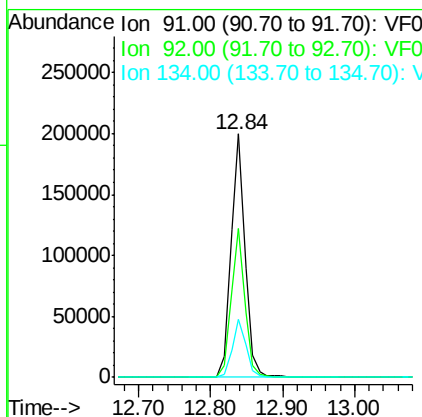
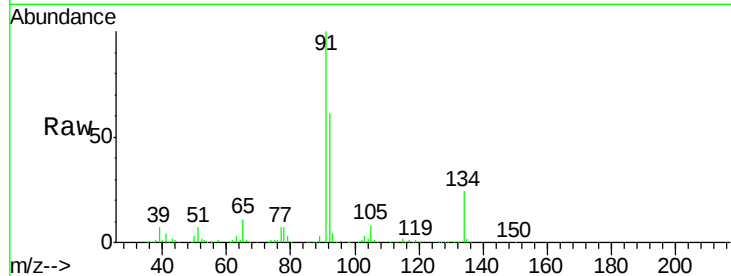
#89
n-Butylbenzene
Concen: 22.006 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.1	31.6	94.7
134	23.9	13.6	40.8

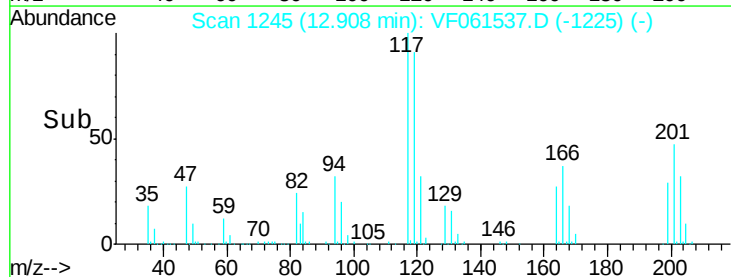
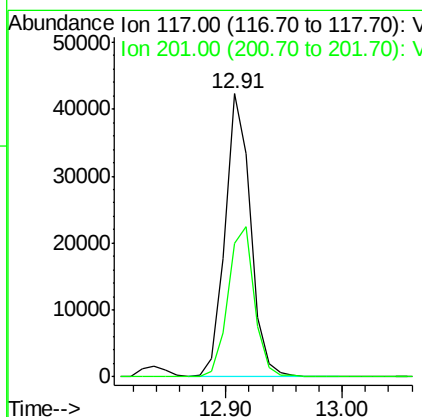
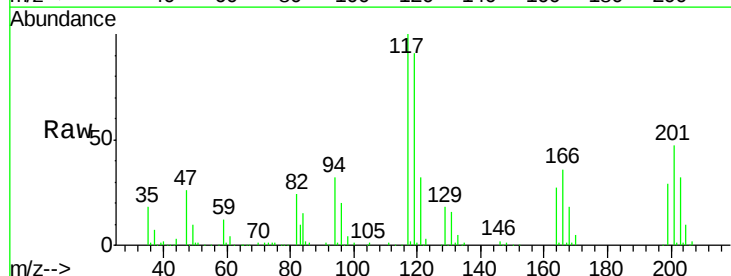
Manual Integrations
APPROVED

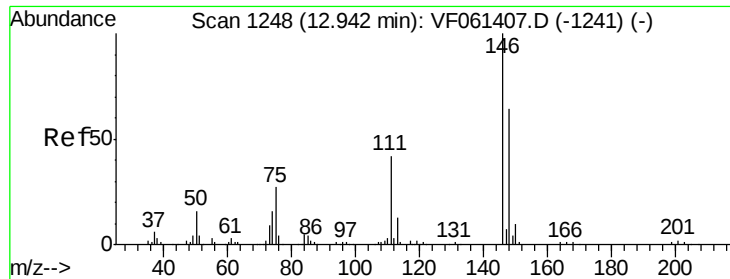
MMDadoda
1/29/2019 12:18:59 PM



#90
Hexachloroethane
Concen: 22.843 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
117	100		
201	47.1	29.3	87.8





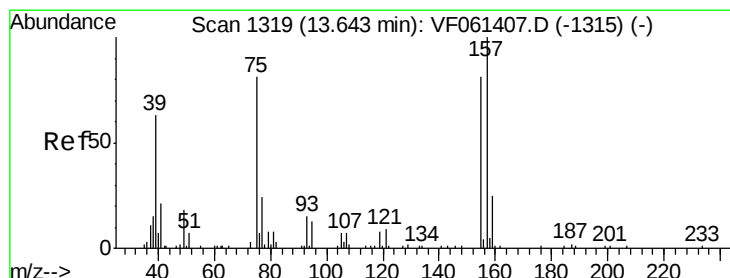
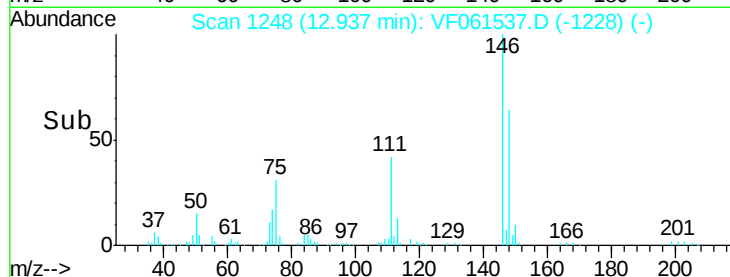
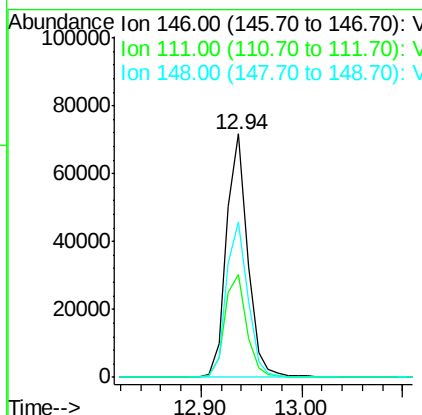
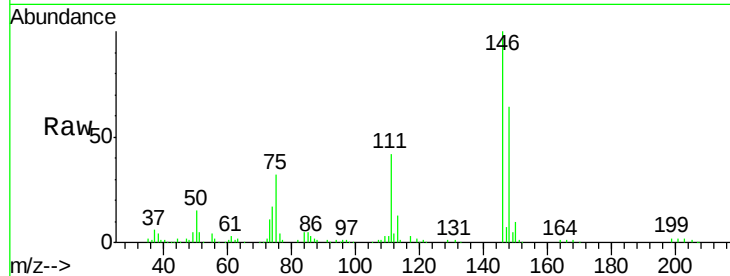
#91
 1,2-Dichlorobenzene
 Concen: 20.873 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0128SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.1	63.3
148	64.0	31.9	95.7

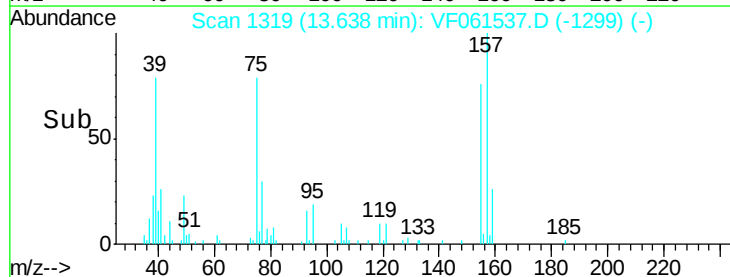
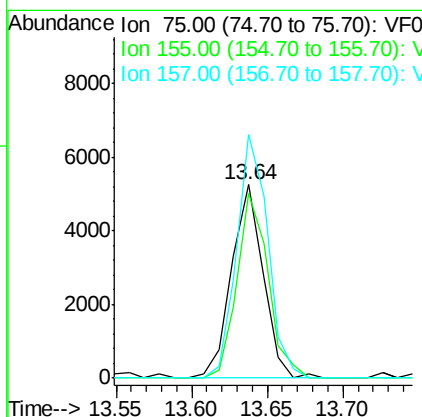
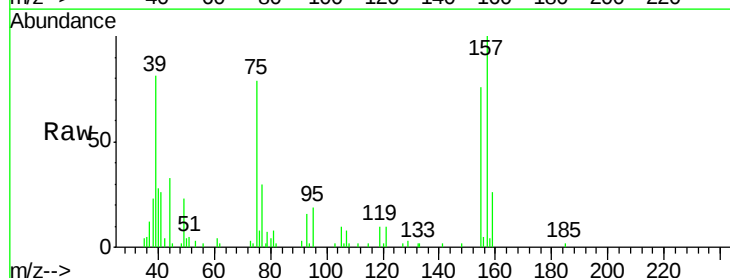
Manual Integrations
 APPROVED

MMDadoda
 1/29/2019 12:18:59 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.844 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.9	49.7	149.1
157	126.0	61.4	184.1





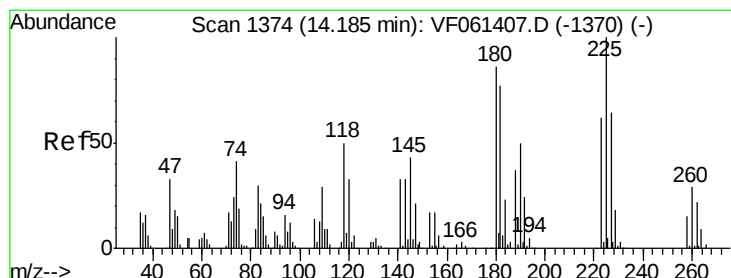
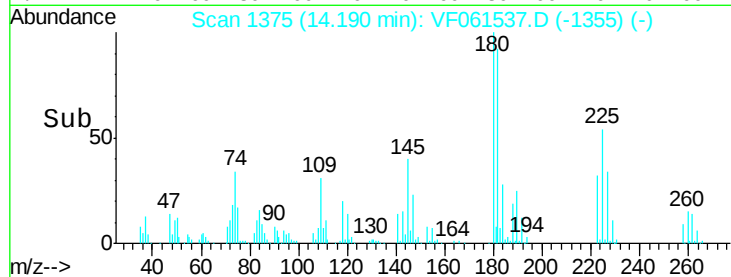
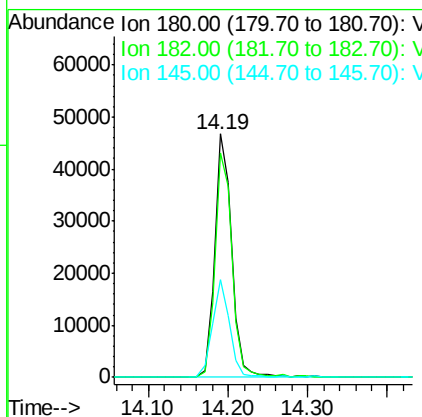
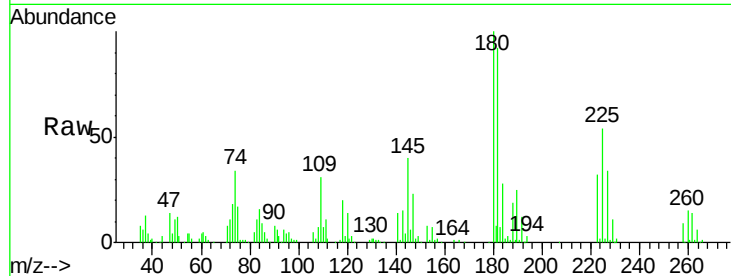
#93
 1,2,4-Trichlorobenzene
 Concen: 19.997 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0128SBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.4	48.5	145.6
145	40.2	17.5	52.6

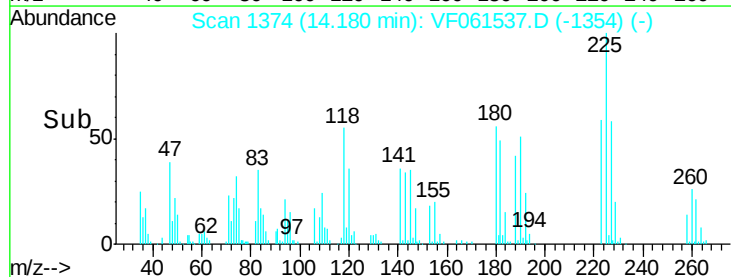
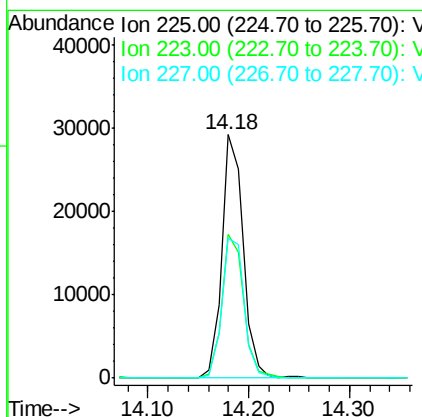
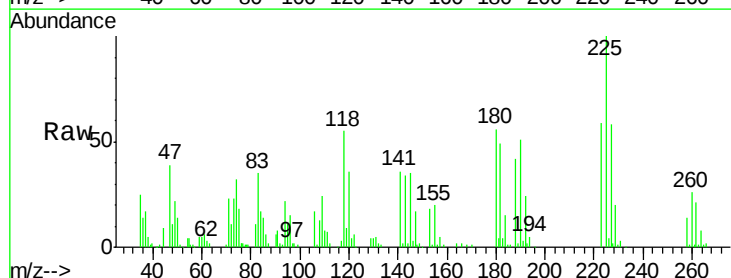
Manual Integrations
 APPROVED

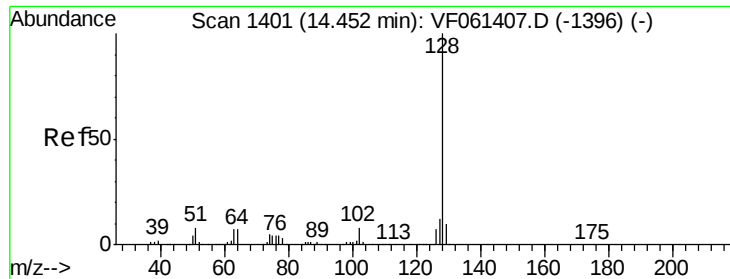
MMDadoda
 1/29/2019 12:18:59 PM



#94
 Hexachlorobutadiene
 Concen: 19.608 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061537.D
 Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Lower	Upper
225	100		
223	58.9	31.1	93.2
227	57.7	32.2	96.6





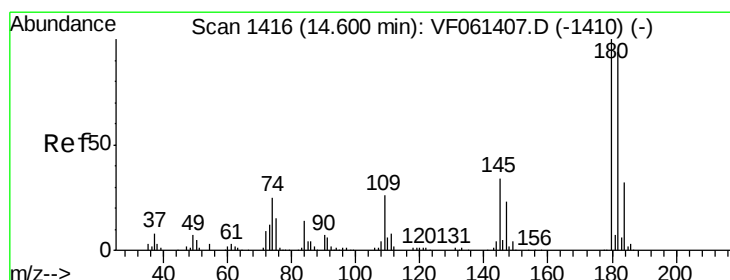
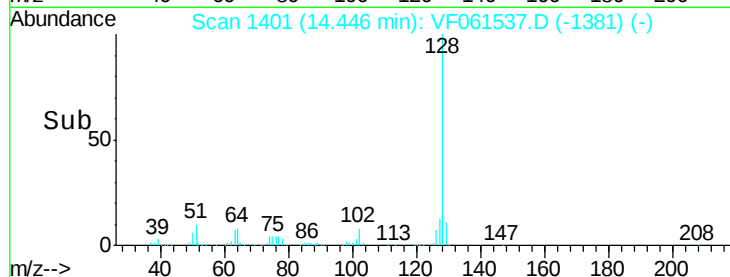
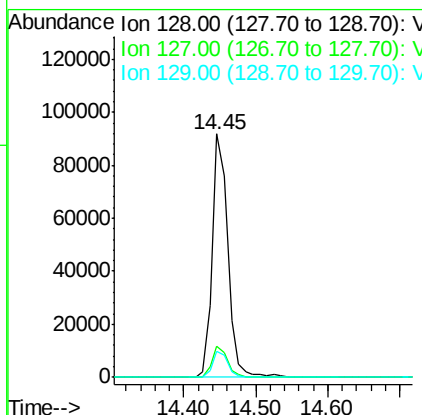
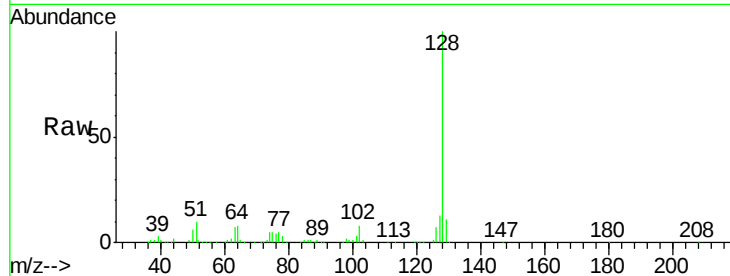
#95
Naphthalene
Concen: 20.481 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Instrument :
MSVOA_F
ClientSampleId :
VF0128SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	137745		
127	12.6	9.5	14.3	
129	10.8	8.4	12.6	

Manual Integrations
APPROVED

MMDadoda
1/29/2019 12:18:59 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.252 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.01 min
Lab File: VF061537.D
Acq: 28 Jan 2019 13:13

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	66366		
182	96.2	47.0	141.2	
145	37.1	17.1	51.2	

