

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022119\
 Data File : VF061695.D
 Acq On : 21 Feb 2019 13:46
 Operator : VA/AP
 Sample : VF0221SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0221SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/22/2019 12:27:44 PM

Quant Time: Feb 22 03:38:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	348226	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	507278	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	435148	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	251626	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	124243	48.65	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.30%	
35) Dibromofluoromethane	4.11	113	185484	49.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.48%	
50) Toluene-d8	7.55	98	532552	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
62) 4-Bromofluorobenzene	11.41	95	218146	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	90908	22.733	ug/l	95
3) Chloromethane	1.10	50	85822	20.454	ug/l	99
4) Vinyl Chloride	1.14	62	81310	20.846	ug/l	98
5) Bromomethane	1.32	94	52565	19.581	ug/l	95
6) Chloroethane	1.39	64	37676	19.600	ug/l	93
7) Trichlorofluoromethane	1.49	101	92525m	19.667	ug/l	
8) Diethyl Ether	1.63	74	21632	18.246	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.83	101	64536	19.015	ug/l	99
10) Methyl Iodide	1.90	142	121078m	18.676	ug/l	
11) Tert butyl alcohol	2.58	59	15067	101.952	ug/l	99
12) 1,1-Dichloroethene	1.80	96	57945	19.419	ug/l	97
13) Acrolein	2.00	56	17597	94.740	ug/l	98
14) Allyl chloride	2.10	41	82716	22.590	ug/l	93
15) Acrylonitrile	2.95	53	43049	82.123	ug/l	93
16) Acetone	2.24	43	57063	104.151	ug/l	94
17) Carbon Disulfide	1.84	76	180262m	19.219	ug/l	
18) Methyl Acetate	2.35	43	40001	32.409	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	102277	20.055	ug/l	97
20) Methylene Chloride	2.18	84	72222m	23.252	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	60807	18.746	ug/l	91
22) Diisopropyl ether	2.80	45	174064	19.804	ug/l	96
23) Vinyl Acetate	3.20	43	393833	91.738	ug/l	99
24) 1,1-Dichloroethane	2.87	63	106221	19.970	ug/l	99
25) 2-Butanone	4.34	43	112939	94.371	ug/l	96
26) 2,2-Dichloropropane	3.60	77	48361	21.465	ug/l	93
27) cis-1,2-Dichloroethene	3.48	96	80342	18.870	ug/l	99
28) Bromochloromethane	3.72	49	54268	21.264	ug/l	96
29) Tetrahydrofuran	4.08	42	50660	93.136	ug/l	95
30) Chloroform	3.87	83	120496	19.920	ug/l	97
31) Cyclohexane	3.70	56	117423	20.392	ug/l	97
32) 1,1,1-Trichloroethane	4.09	97	72518	18.301	ug/l	94
36) 1,1-Dichloropropene	4.28	75	94502	18.806	ug/l	94
37) Ethyl Acetate	4.11	43	42080	18.028	ug/l #	83
38) Carbon Tetrachloride	3.99	117	72674m	20.944	ug/l	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022119\
 Data File : VF061695.D
 Acq On : 21 Feb 2019 13:46
 Operator : VA/AP
 Sample : VF0221SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0221SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/22/2019 12:27:44 PM

Quant Time: Feb 22 03:38:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	114375	19.245	ug/l	99
40) Benzene	4.64	78	264618	20.132	ug/l	99
41) Methacrylonitrile	4.74	41	22541	18.884	ug/l	97
42) 1,2-Dichloroethane	4.94	62	61649	19.607	ug/l	99
43) Isopropyl Acetate	6.96	43	49136	17.785	ug/l #	97
44) Trichloroethene	5.50	130	78973	18.579	ug/l	99
45) 1,2-Dichloropropane	6.24	63	59791	18.819	ug/l	100
46) Dibromomethane	6.09	93	38313	19.585	ug/l	89
47) Bromodichloromethane	6.39	83	82276	19.206	ug/l	99
48) Methyl methacrylate	6.72	41	29833	17.943	ug/l	91
49) 1,4-Dioxane	6.71	88	5470	349.976	ug/l	96
51) 4-Methyl-2-Pentanone	8.26	43	176508	89.411	ug/l	97
52) Toluene	7.62	92	149188	18.715	ug/l	97
53) t-1,3-Dichloropropene	8.27	75	71405	20.028	ug/l	96
54) cis-1,3-Dichloropropene	7.31	75	93849	19.762	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	44117	18.836	ug/l	95
56) Ethyl methacrylate	8.62	69	49612	19.025	ug/l	96
57) 1,3-Dichloropropane	8.86	76	71933	18.400	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.30	63	42885	95.317	ug/l	96
59) 2-Hexanone	9.50	43	133640	96.574	ug/l	98
60) Dibromochloromethane	8.72	129	59842	18.356	ug/l	94
61) 1,2-Dibromoethane	8.98	107	47445	18.676	ug/l	95
64) Tetrachloroethene	8.16	164	69951	19.667	ug/l	99
65) Chlorobenzene	9.80	112	175266	19.849	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	65969	19.066	ug/l	98
67) Ethyl Benzene	9.90	91	285803	19.463	ug/l	98
68) m/p-Xylenes	10.13	106	221720	39.452	ug/l	94
69) o-Xylene	10.71	106	121868	20.322	ug/l	91
70) Styrene	10.79	104	168387	19.849	ug/l	100
71) Bromoform	10.77	173	34565	18.396	ug/l	92
73) Isopropylbenzene	11.12	105	343476	19.172	ug/l	97
74) N-amyl acetate	11.37	43	76153	17.710	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.70	83	56478	17.597	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	39363	18.039	ug/l	95
77) Bromobenzene	11.50	156	85727	19.369	ug/l	94
78) n-propylbenzene	11.60	91	415151	20.194	ug/l	96
79) 2-Chlorotoluene	11.72	91	219645	19.077	ug/l	90
80) 1,3,5-Trimethylbenzene	11.82	105	285615	19.947	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	16996m	16.246	ug/l	
82) 4-Chlorotoluene	11.90	91	227378	19.027	ug/l	97
83) tert-Butylbenzene	12.13	119	306988	19.357	ug/l	98
84) 1,2,4-Trimethylbenzene	12.21	105	274983	19.331	ug/l	99
85) sec-Butylbenzene	12.31	105	397311	19.373	ug/l	97
86) p-Isopropyltoluene	12.47	119	354457	20.594	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	167364	19.397	ug/l	96
88) 1,4-Dichlorobenzene	12.56	146	158083	19.051	ug/l	99
89) n-Butylbenzene	12.85	91	338716	20.841	ug/l	95
90) Hexachloroethane	12.92	117	78217	19.540	ug/l	98
91) 1,2-Dichlorobenzene	12.94	146	156274	19.042	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	9542	18.751	ug/l	59

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\
Data File : VF061695.D
Acq On : 21 Feb 2019 13:46
Operator : VA/AP
Sample : VF0221SBS01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

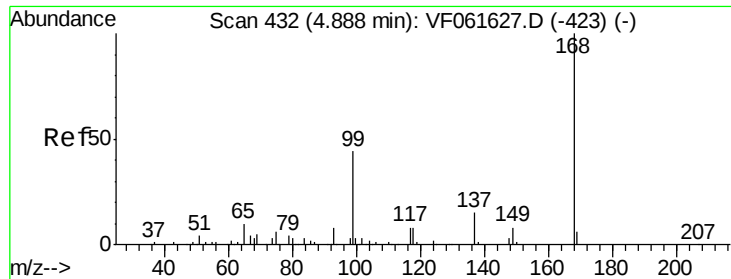
Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM

Quant Time: Feb 22 03:38:44 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	113084	19.224	ug/l	97
94) Hexachlorobutadiene	14.19	225	70615	19.437	ug/l	97
95) Naphthalene	14.46	128	179484	17.439	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	98186	18.185	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampled :

VF0221SBS01

Tot Ion:168 Resp: 348226

Ion Ratio Lower Upper

168 100

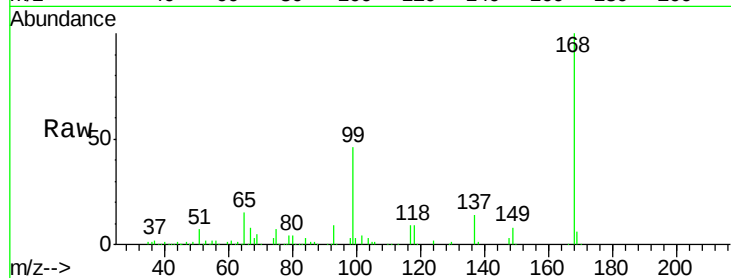
99 46.4 34.9 52.3

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

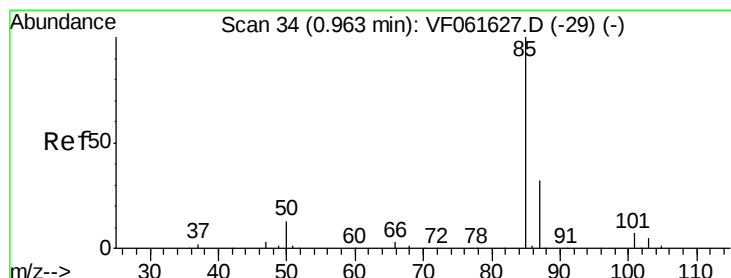
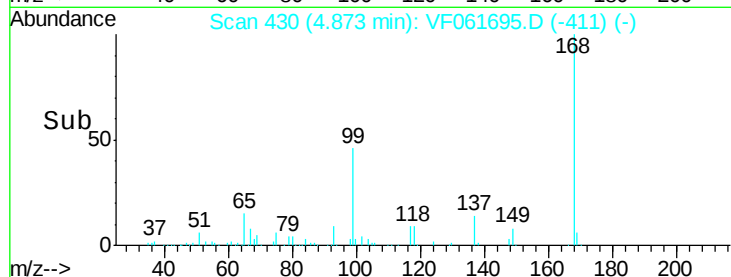
4.87

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.733 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061695.D

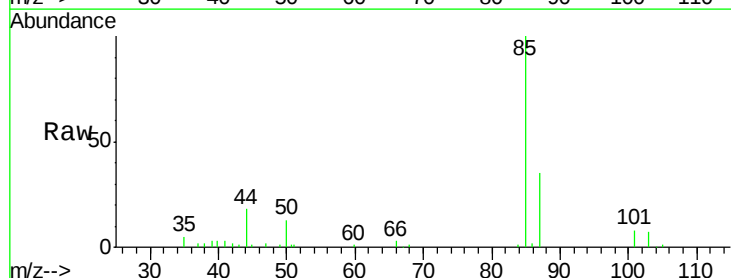
Acq: 21 Feb 2019 13:46

Tgt Ion: 85 Resp: 90908

Ion Ratio Lower Upper

85 100

87 35.0 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

25000

20000

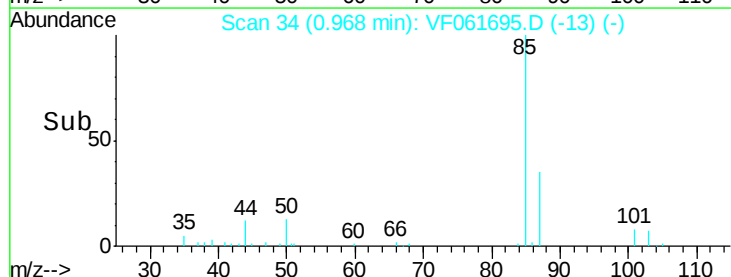
15000

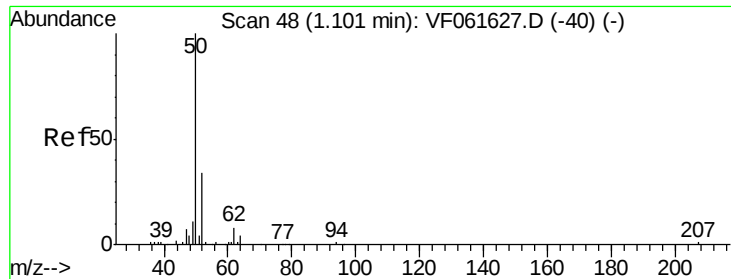
10000

5000

0

Time-->





#3

Chloromethane

Concen: 20.454 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 50 Resp: 85822

Ion Ratio Lower Upper

50 100

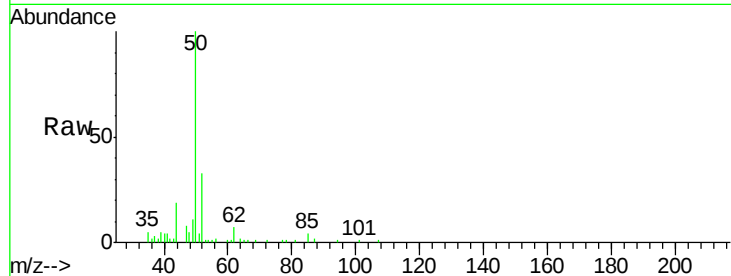
52 33.4 26.2 39.4

Manual Integrations

APPROVED

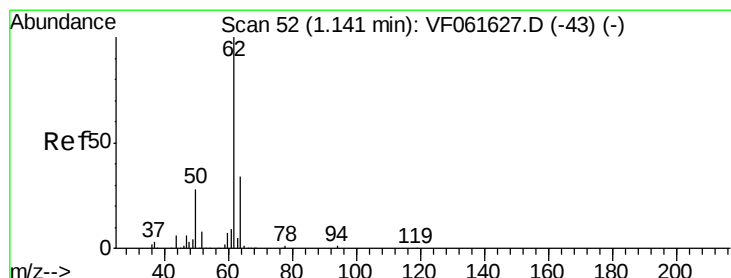
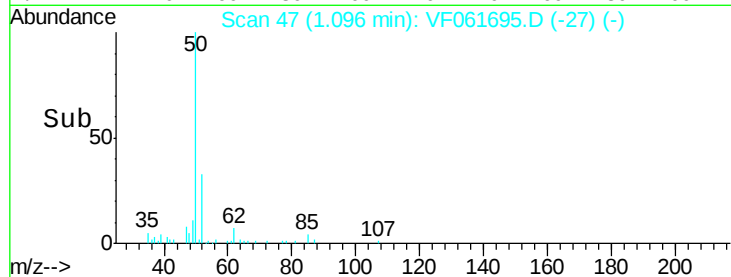
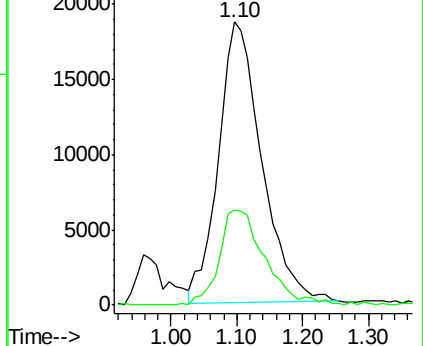
MMDadoda

2/22/2019 12:27:44 PM



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 20.846 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061695.D

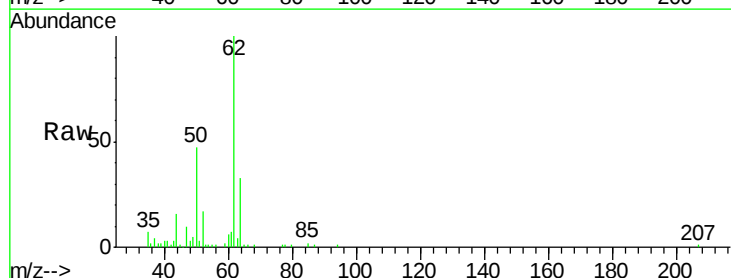
Acq: 21 Feb 2019 13:46

Tgt Ion: 62 Resp: 81310

Ion Ratio Lower Upper

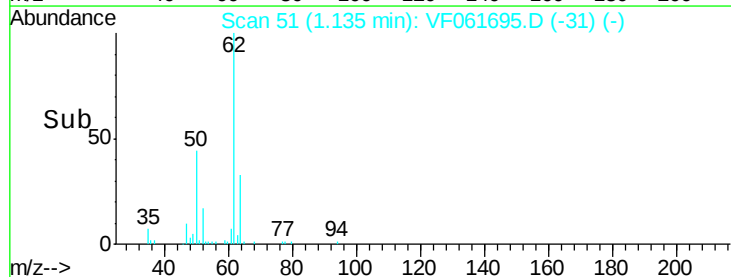
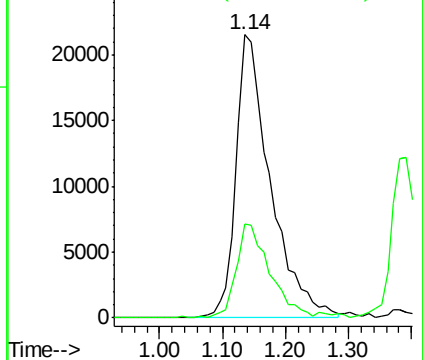
62 100

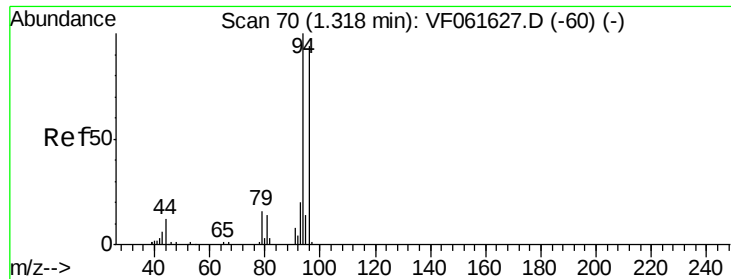
64 33.3 27.5 41.3



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 19.581 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 94 Resp: 52565

Ion Ratio Lower Upper

94 100

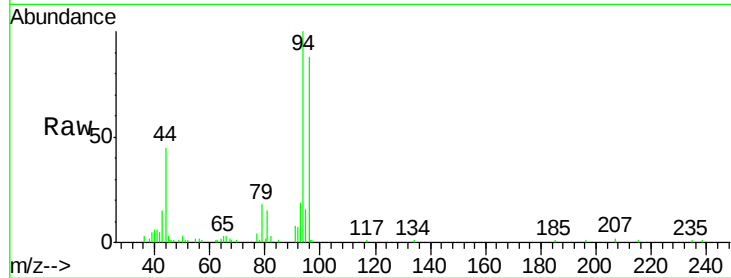
96 88.4 74.6 112.0

Manual Integrations

APPROVED

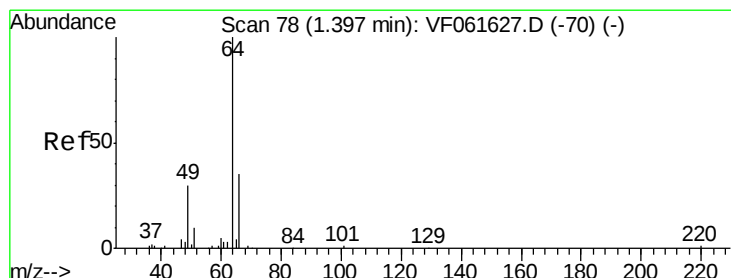
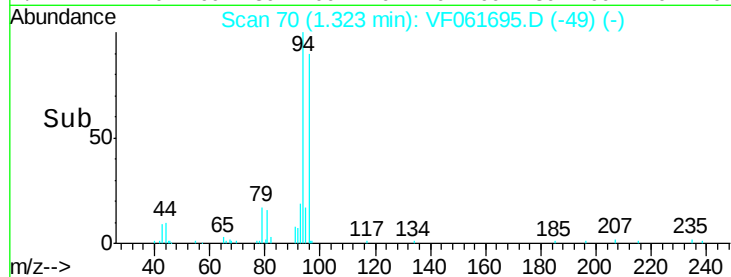
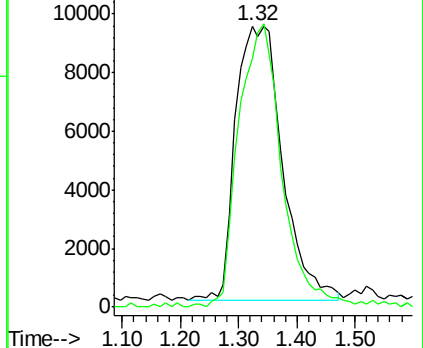
MMDadoda

2/22/2019 12:27:44 PM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 19.600 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061695.D

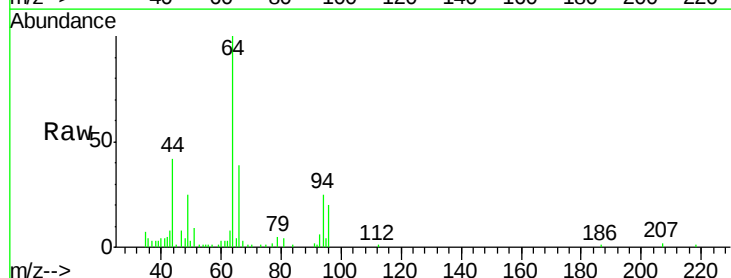
Acq: 21 Feb 2019 13:46

Tgt Ion: 64 Resp: 37676

Ion Ratio Lower Upper

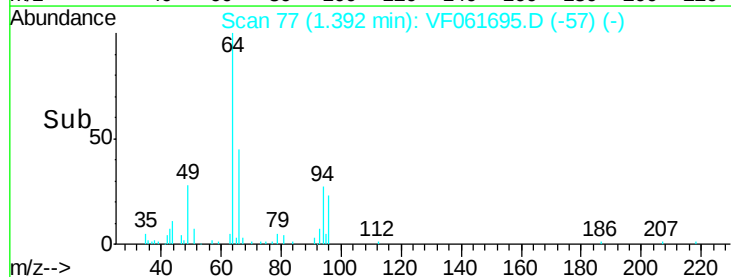
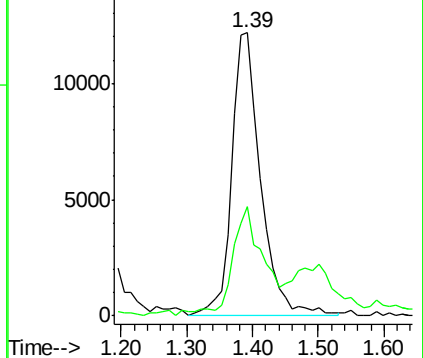
64 100

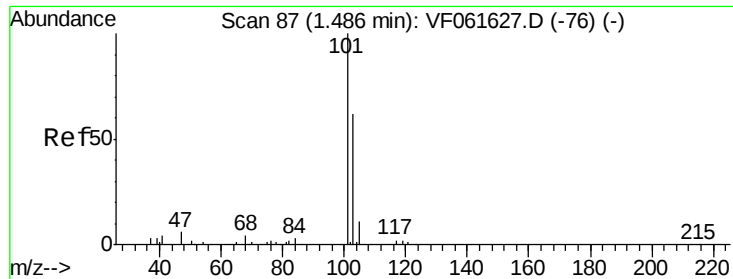
66 38.7 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

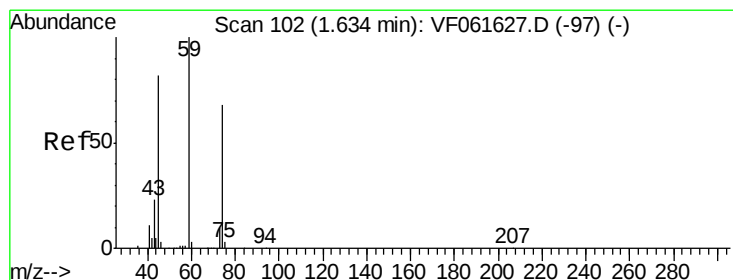
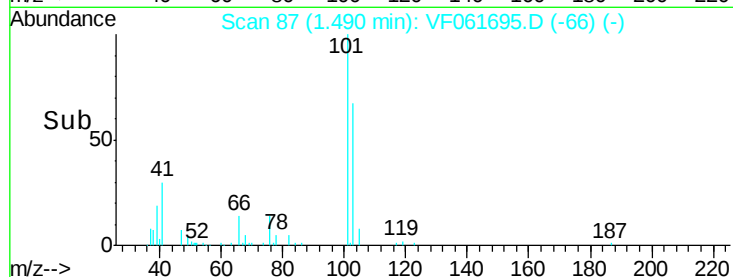
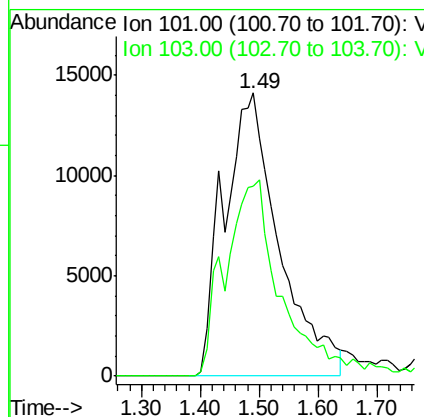
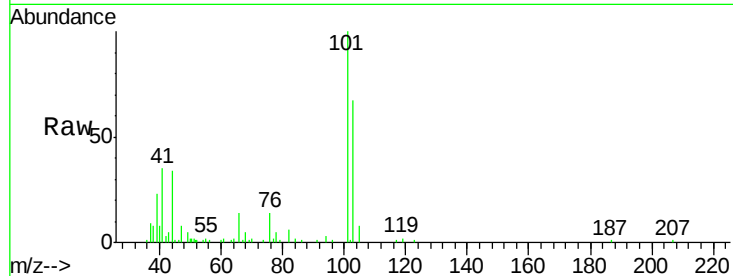
Trichlorofluoromethane
Concen: 19.667 ug/l m
RT: 1.49 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.1	49.3	73.9

Manual Integrations
APPROVED

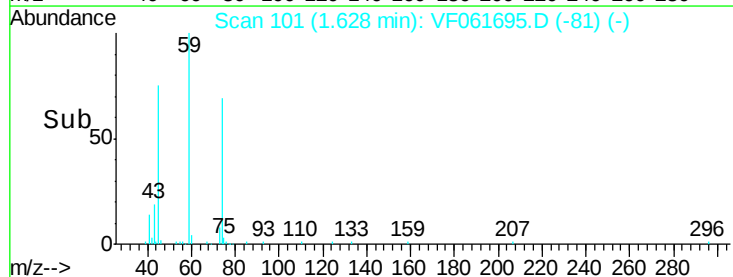
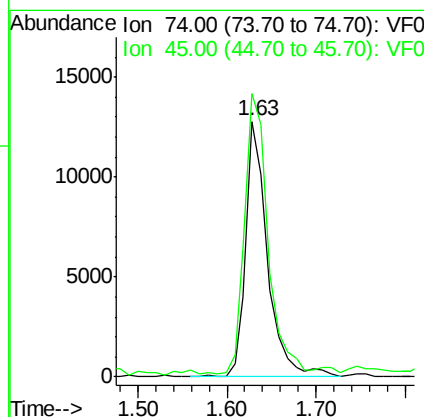
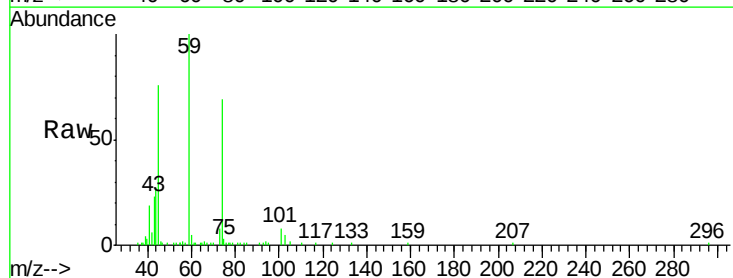
MMDadoda
2/22/2019 12:27:44 PM

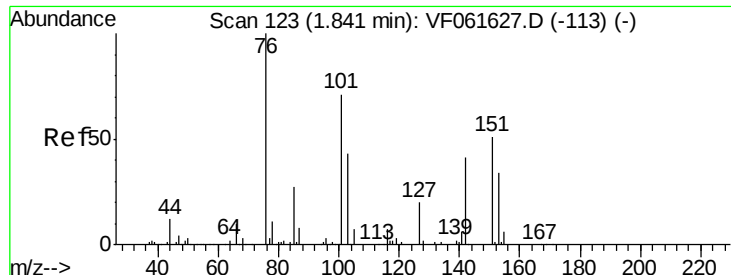


#8

Diethyl Ether
Concen: 18.246 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Lower	Upper
74	100		
45	110.7	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.015 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

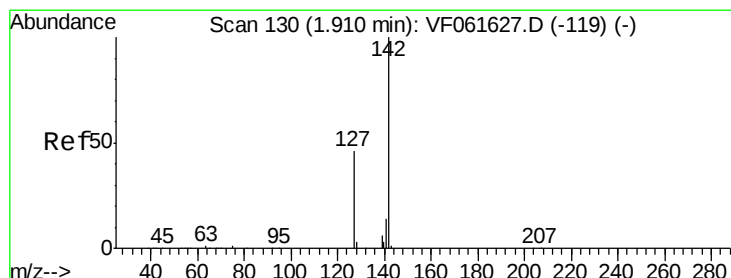
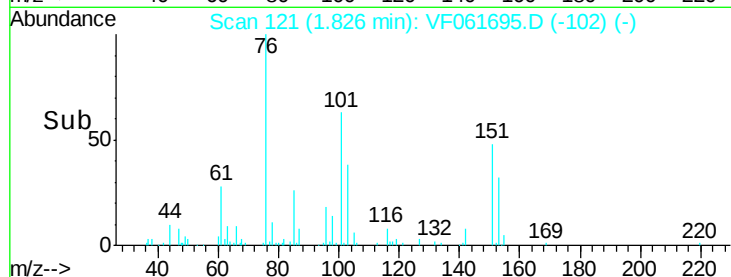
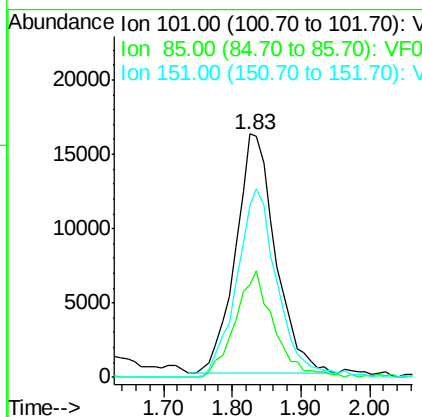
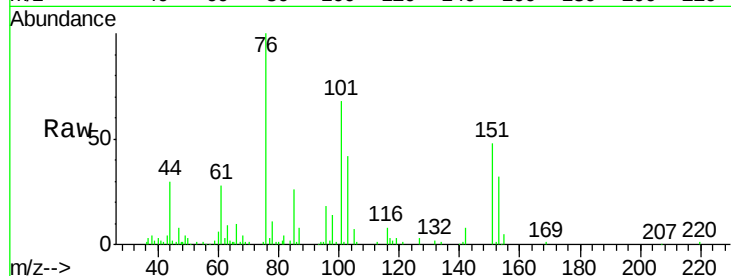
ClientSampleId :

VF0221SBS01

Tot Ion:	101	Resp:	64536
Ion Ratio	Lower	Upper	
101	100		
85	38.0	29.8	44.6
151	70.7	56.3	84.5

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#10

Methyl Iodide

Concen: 18.676 ug/l m

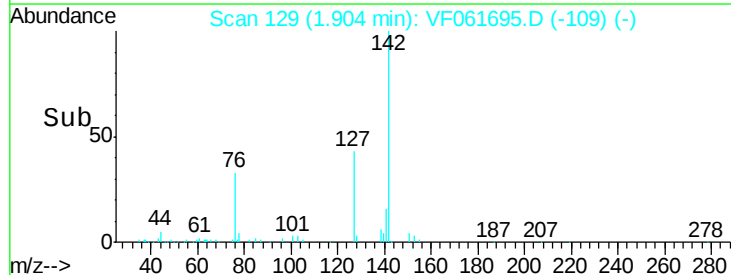
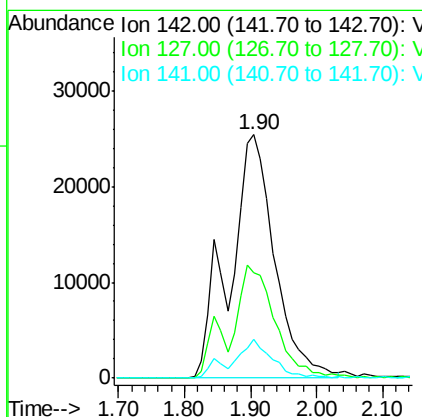
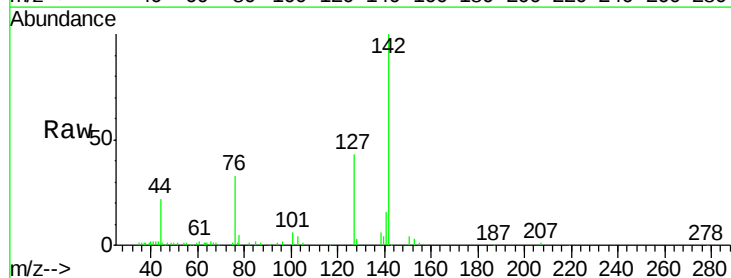
RT: 1.90 min Scan# 129

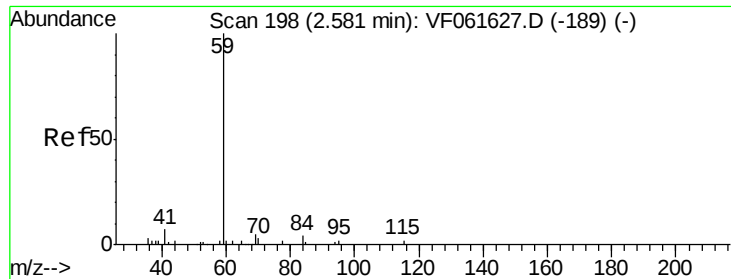
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	142	Resp:	121078
Ion Ratio	Lower	Upper	
142	100		
127	43.3	36.6	55.0
141	15.9	11.0	16.6





#11

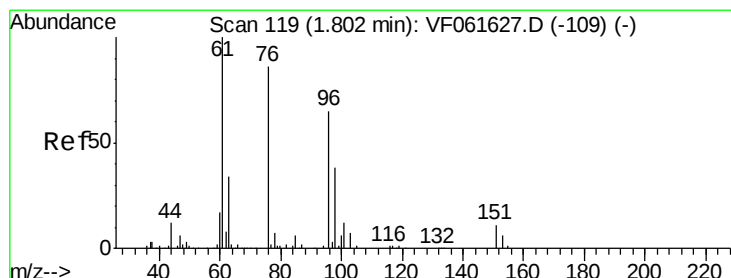
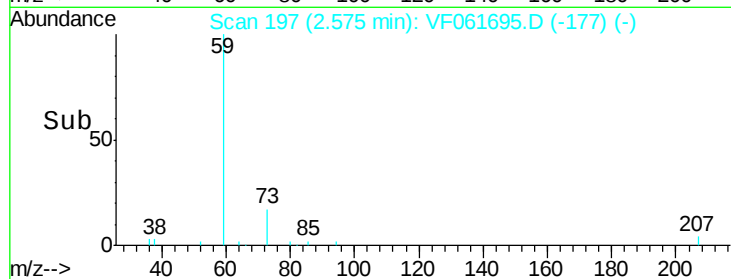
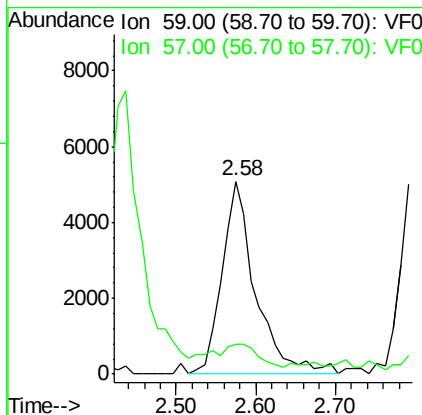
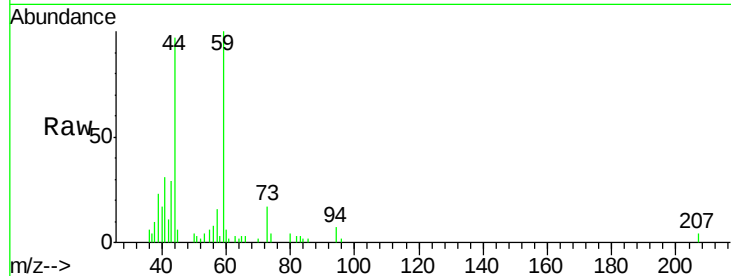
Tert butyl alcohol
Concen: 101.952 ug/l
RT: 2.58 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	59	Resp	15067
Ion Ratio	100	Lower	Upper
57	15.8	12.5	18.7

Manual Integrations
APPROVED

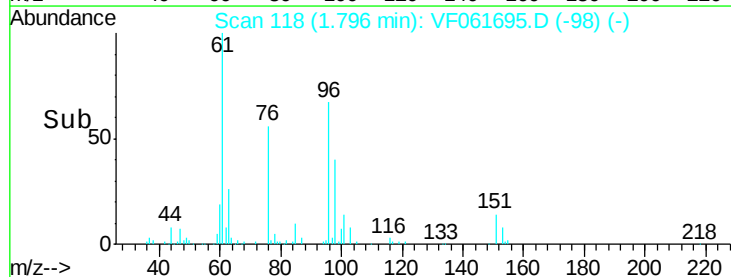
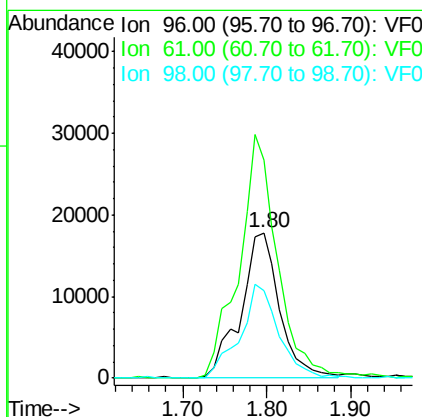
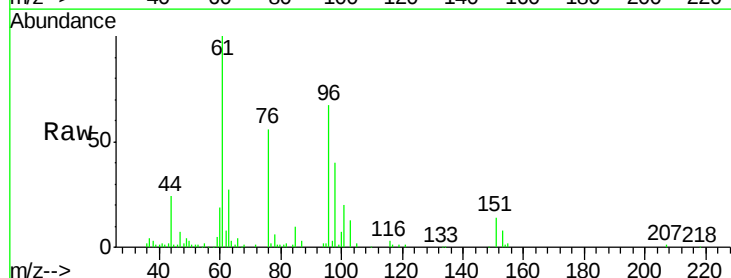
MMDadoda
2/22/2019 12:27:44 PM

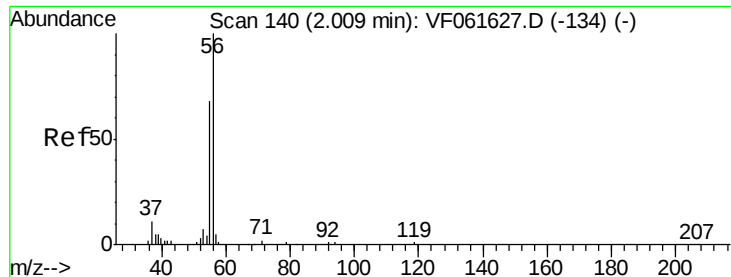


#12

1,1-Dichloroethene
Concen: 19.419 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	96	Resp	57945
Ion Ratio	100	Lower	Upper
61	149.5	122.6	184.0
98	60.1	47.2	70.8





#13

Acrolein

Concen: 94.740 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 56 Resp: 17597

Ion Ratio Lower Upper

56 100

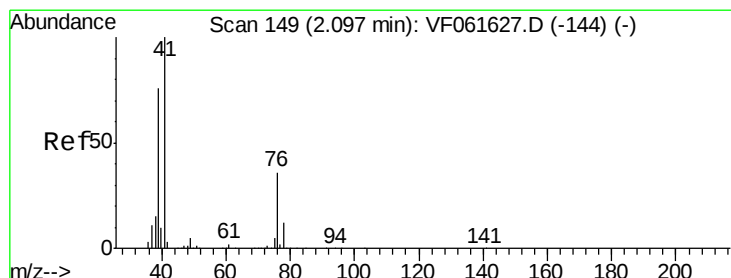
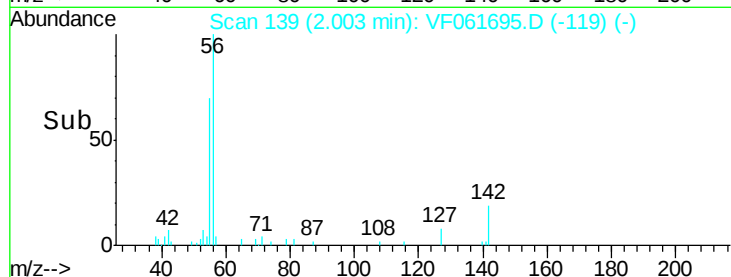
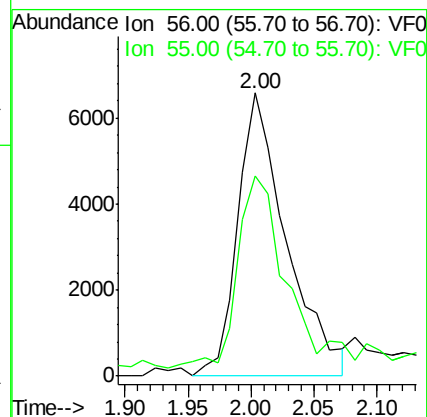
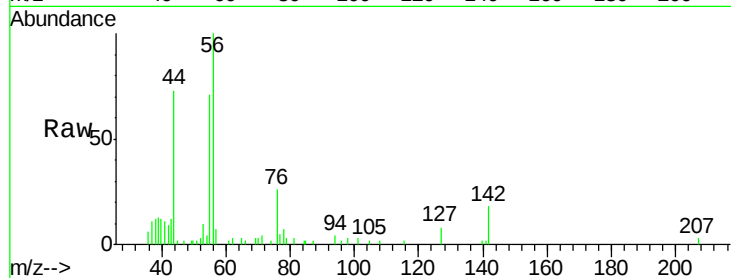
55 70.5 55.0 82.6

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



#14

Allyl chloride

Concen: 22.590 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

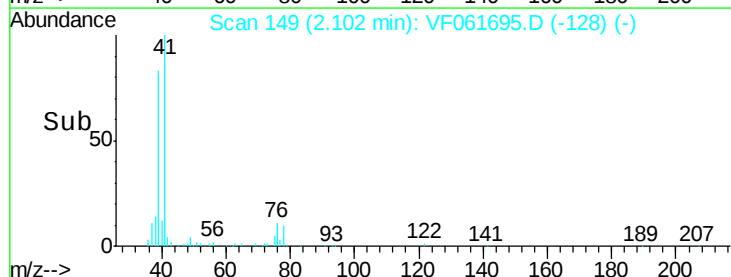
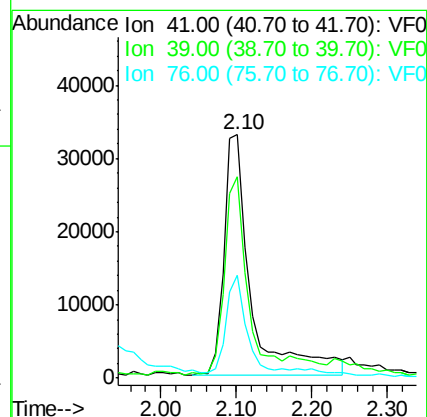
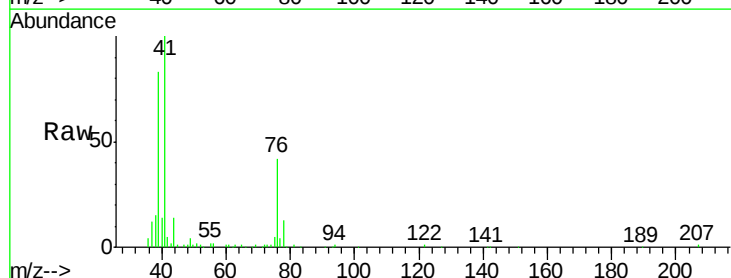
Tgt Ion: 41 Resp: 82716

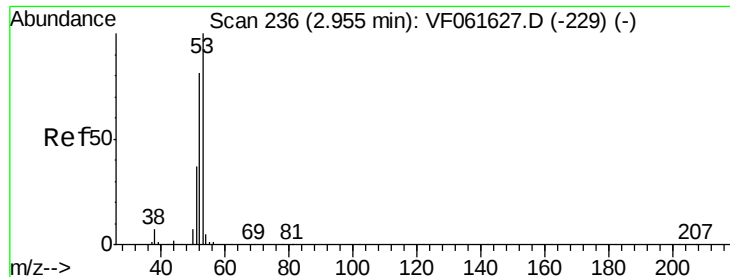
Ion Ratio Lower Upper

41 100

39 82.9 61.6 92.4

76 42.0 30.3 45.5





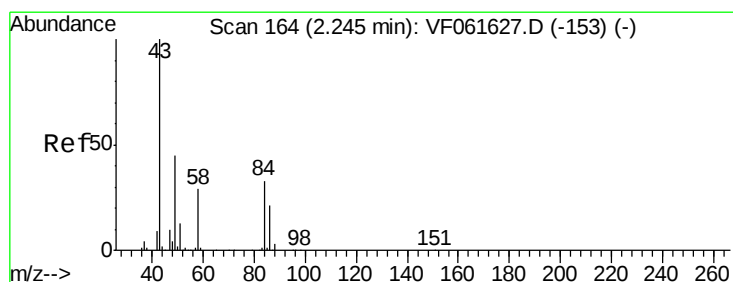
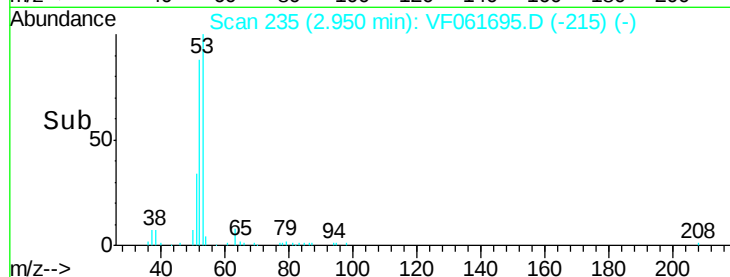
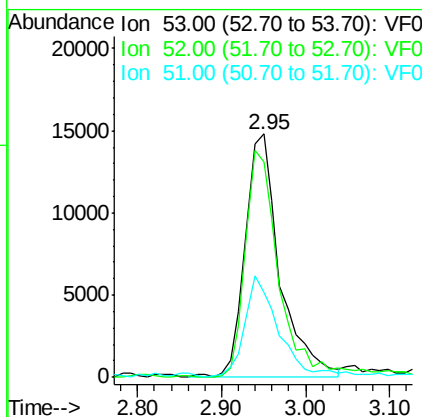
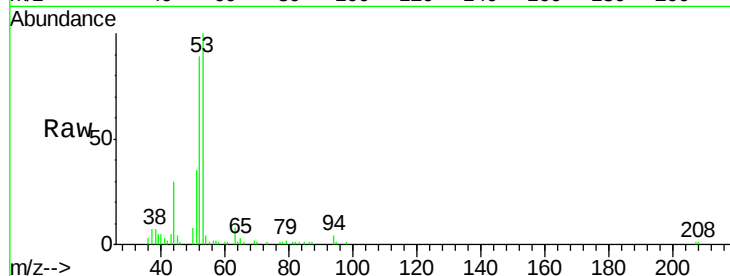
#15
 Acrylonitrile
 Concen: 82.123 ug/l
 RT: 2.95 min Scan# 235
 Delta R.T. -0.01 min
 Lab File: VF061695.D
 Acq: 21 Feb 2019 13:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0221SBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	88.6	64.6	97.0
51	35.0	29.8	44.8

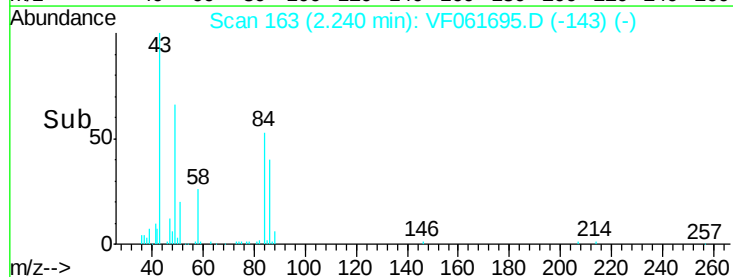
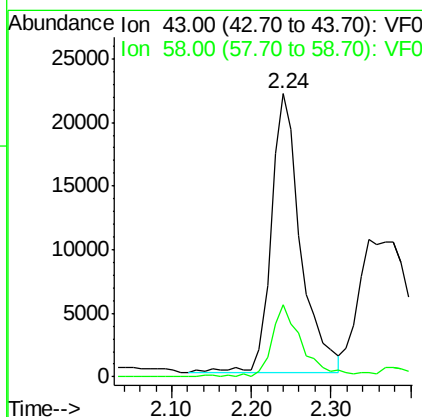
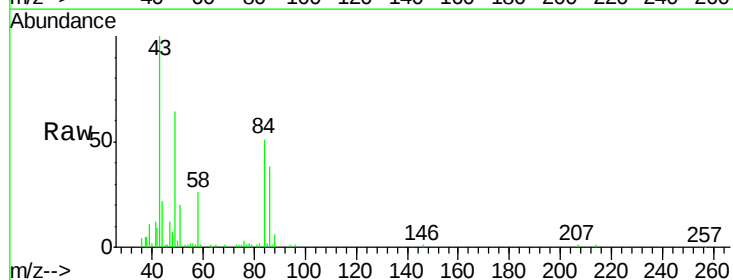
Manual Integrations
 APPROVED

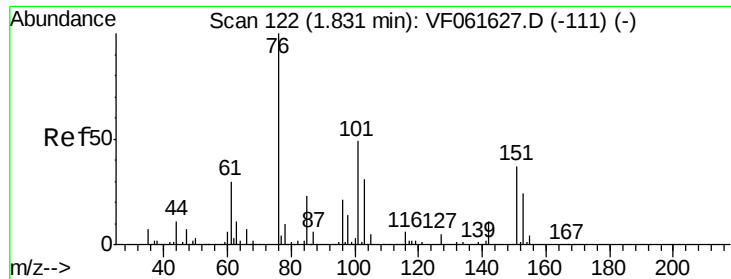
MMDadoda
 2/22/2019 12:27:44 PM



#16
 Acetone
 Concen: 104.151 ug/l
 RT: 2.24 min Scan# 163
 Delta R.T. -0.01 min
 Lab File: VF061695.D
 Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.6	22.9	34.3





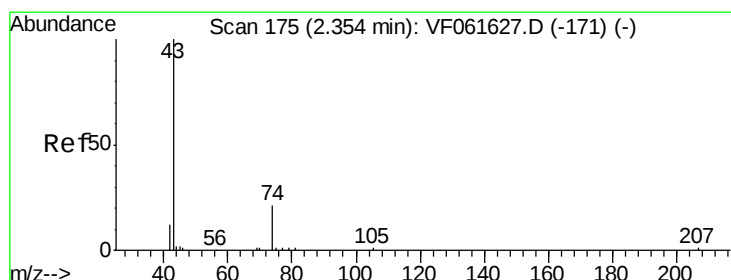
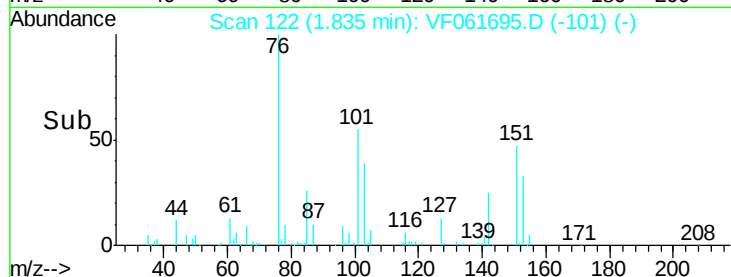
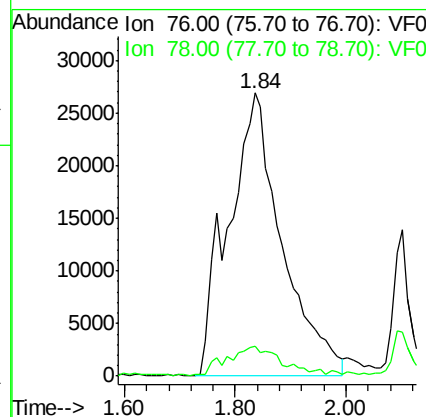
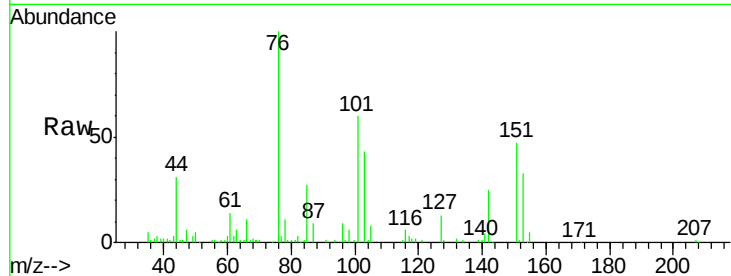
#17
Carbon Disulfide
Concen: 19.219 ug/l m
RT: 1.84 min Scan# 122
Delta R.T. 0.00 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion: 76 Resp: 180262
Ion Ratio Lower Upper
76 100
78 10.7 7.9 11.9

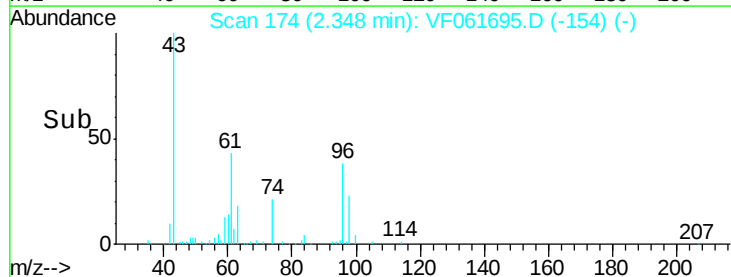
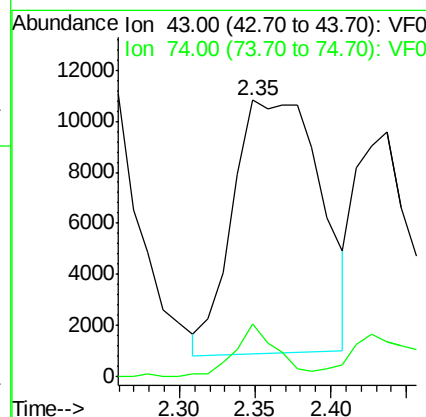
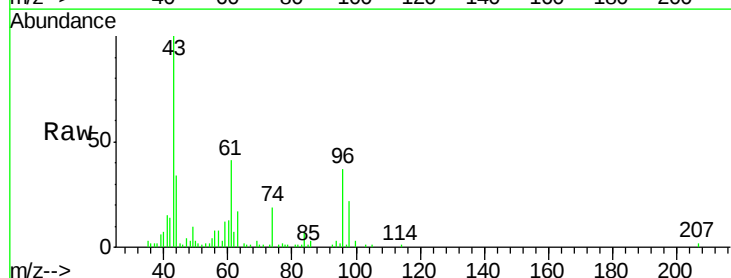
Manual Integrations
APPROVED

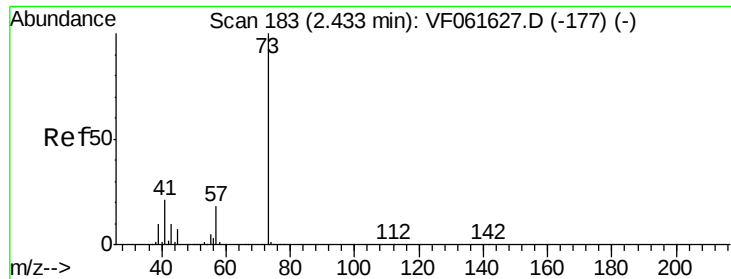
MMDadoda
2/22/2019 12:27:44 PM



#18
Methyl Acetate
Concen: 32.409 ug/l
RT: 2.35 min Scan# 174
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion: 43 Resp: 40001
Ion Ratio Lower Upper
43 100
74 19.3 14.6 21.8





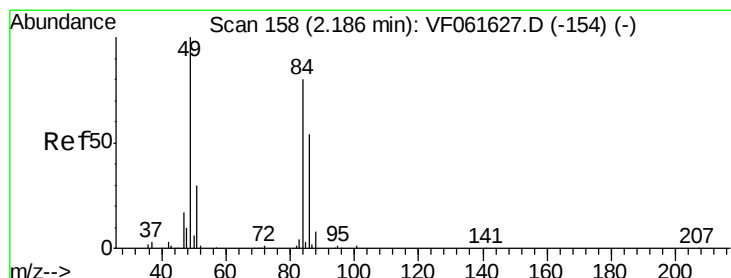
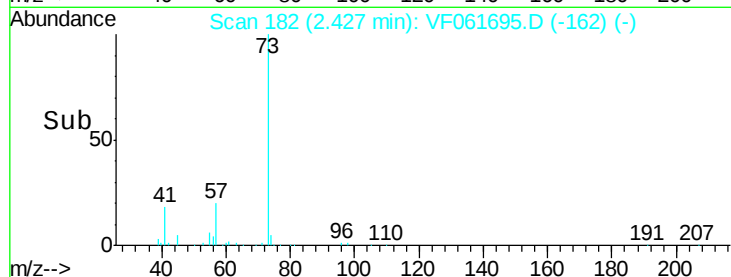
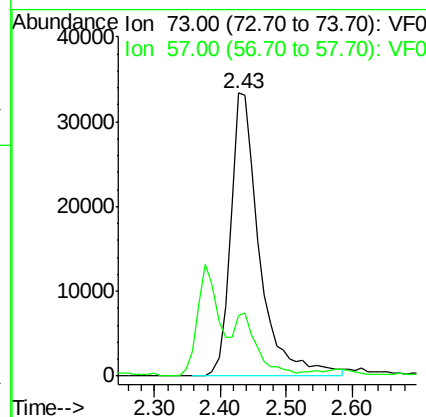
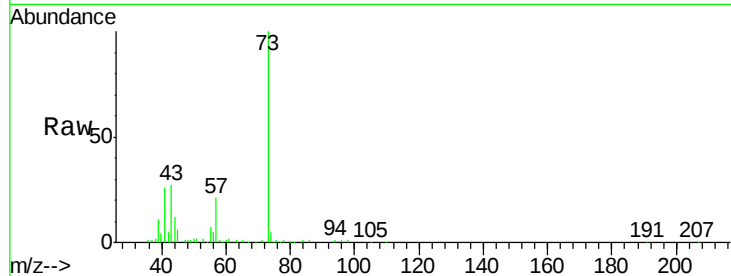
#19
Methvl tert-butvl Ether
Concen: 20.055 ug/l
RT: 2.43 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.2	15.8	23.8

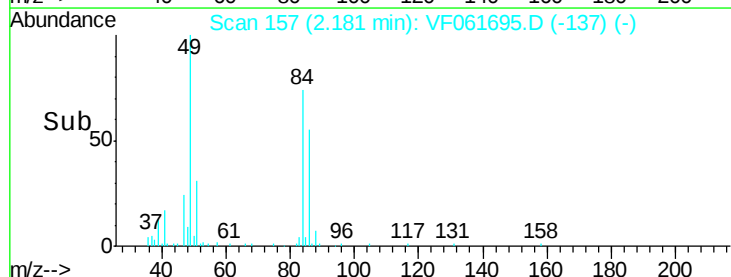
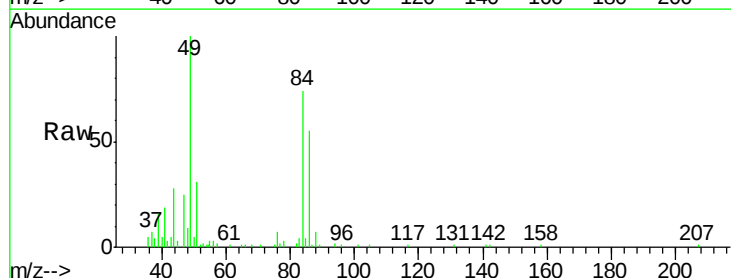
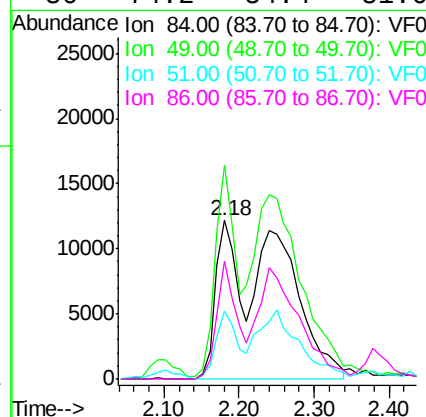
Manual Integrations
APPROVED

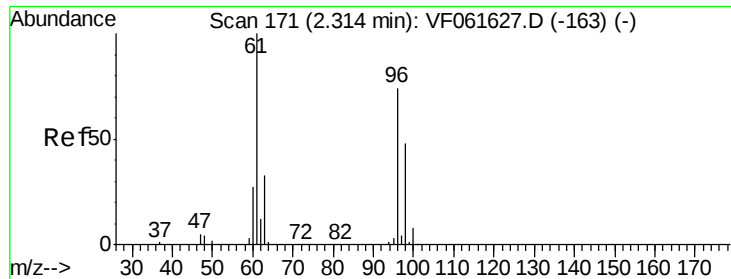
MMDadoda
2/22/2019 12:27:44 PM



#20
Methylene Chloride
Concen: 23.252 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Lower	Upper
84	100		
49	134.6	101.8	152.8
51	42.4	31.1	46.7
86	74.2	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 18.746 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

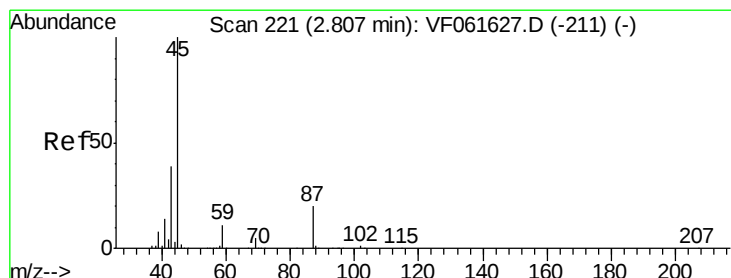
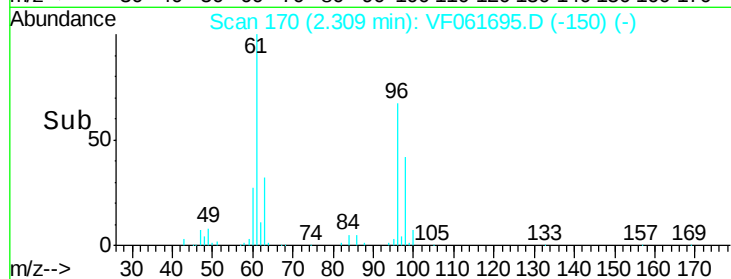
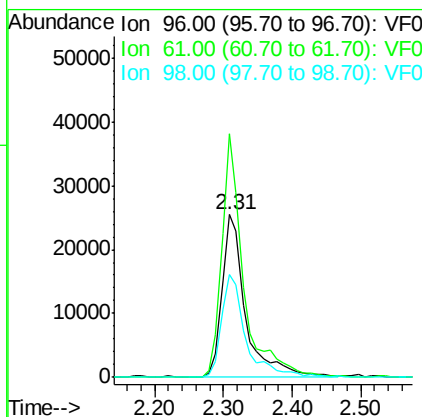
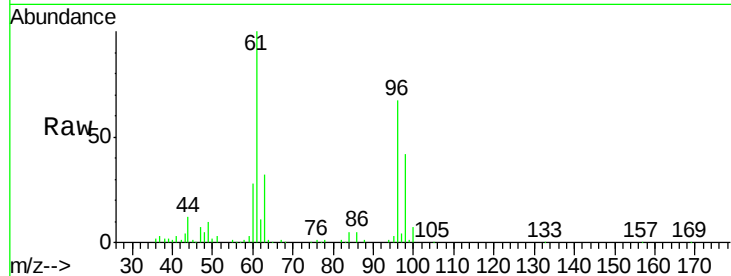
ClientSampleId :

VF0221SBS01

Tot Ion:	96	Resp:	60807
Ion	Ratio	Lower	Upper
96	100		
61	149.6	108.2	162.4
98	62.8	52.2	78.2

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#22

Diisopropyl ether

Concen: 19.804 ug/l

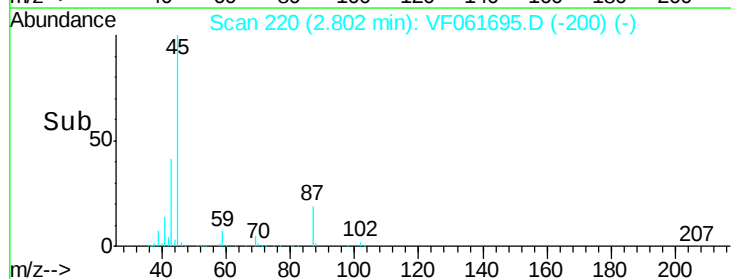
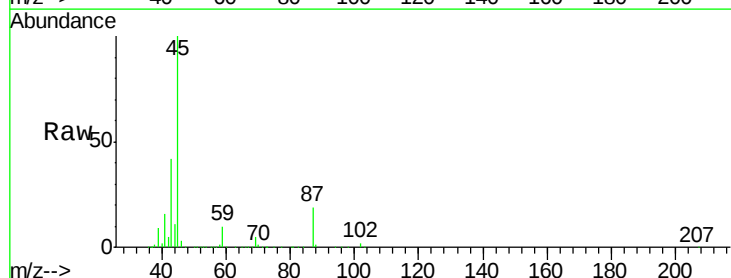
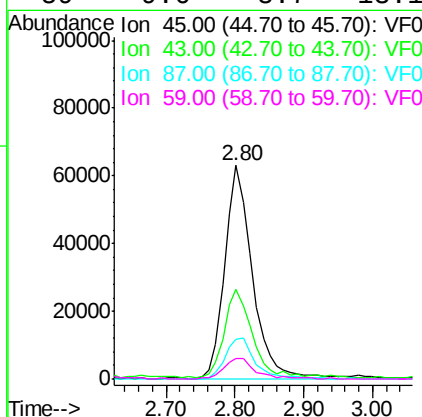
RT: 2.80 min Scan# 220

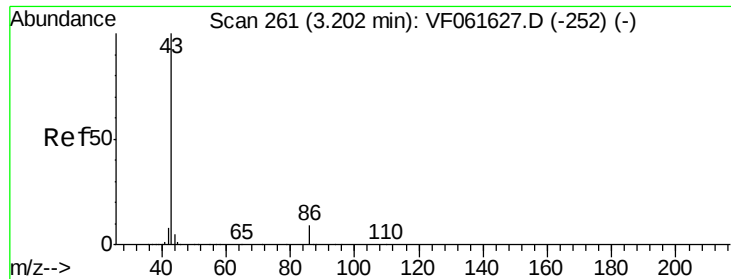
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	45	Resp:	174064
Ion	Ratio	Lower	Upper
45	100		
43	42.0	31.4	47.2
87	18.6	16.3	24.5
59	9.6	8.7	13.1





#23

Vinyl Acetate

Concen: 91.738 ug/l

RT: 3.20 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 43 Resp: 393833

Ion Ratio Lower Upper

43 100

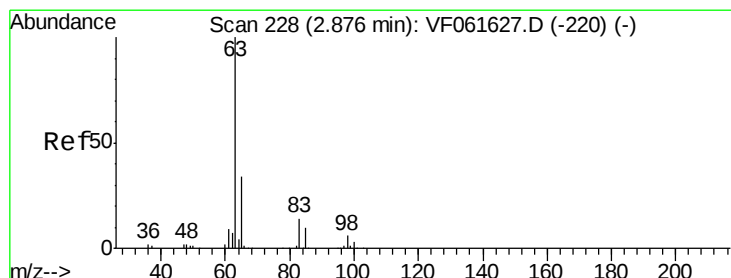
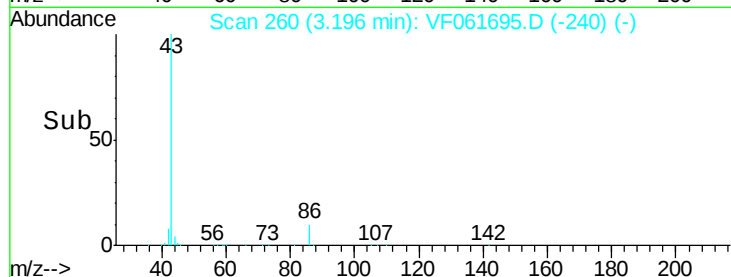
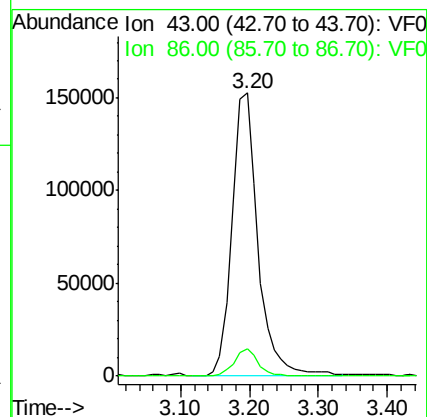
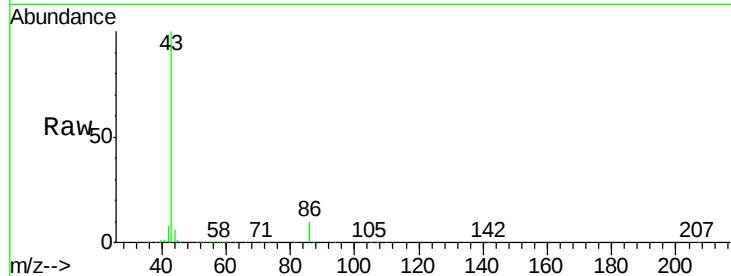
86 9.7 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



#24

1,1-Dichloroethane

Concen: 19.970 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

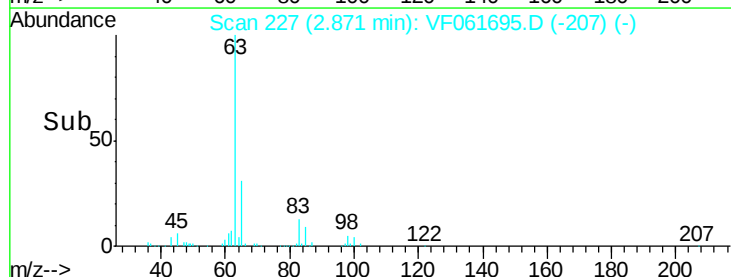
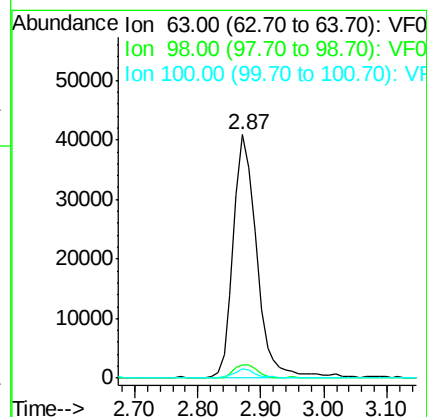
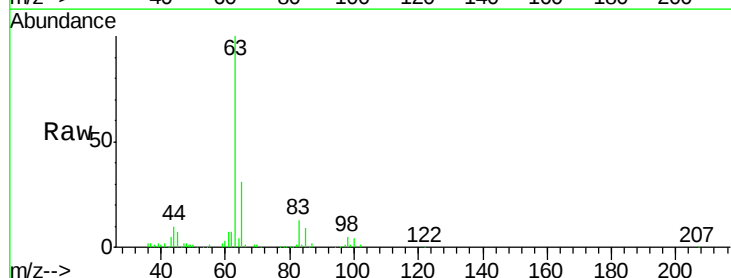
Tgt Ion: 63 Resp: 106221

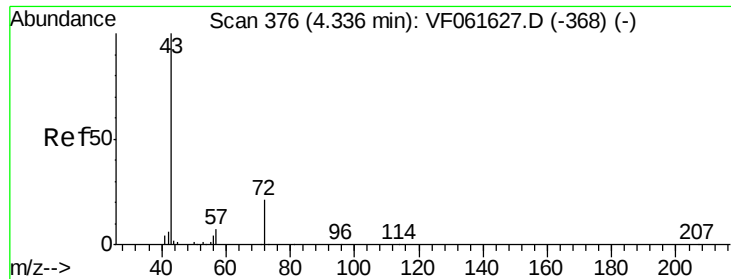
Ion Ratio Lower Upper

63 100

98 5.4 2.8 8.3

100 4.1 1.8 5.4





#25

2-Butanone

Concen: 94.371 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 43 Resp: 112939

Ion Ratio Lower Upper

43 100

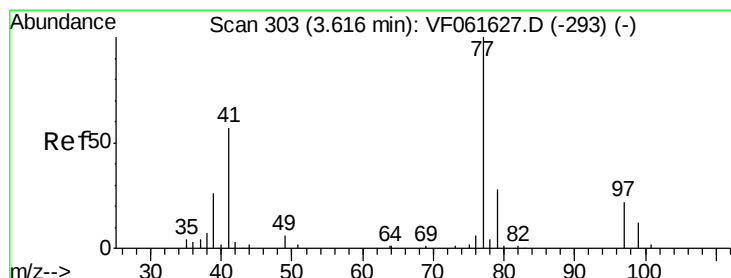
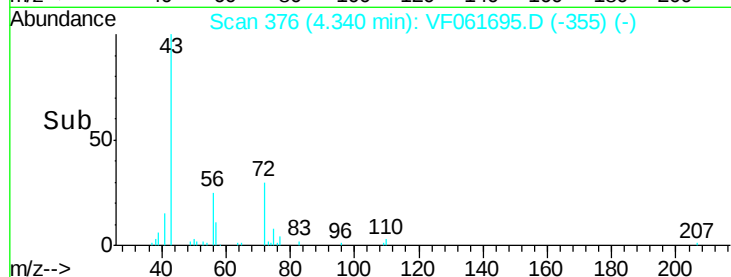
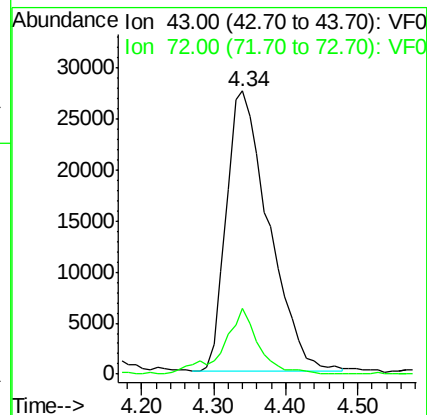
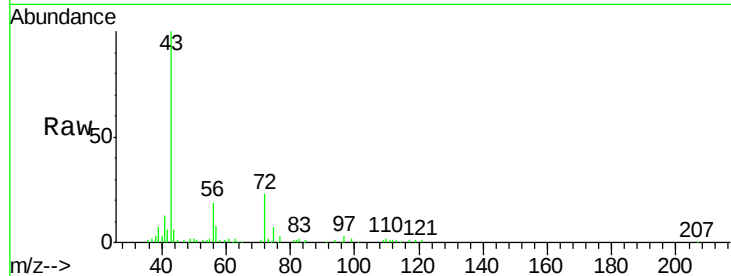
72 23.4 17.1 25.7

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



#26

2,2-Dichloropropane

Concen: 21.465 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061695.D

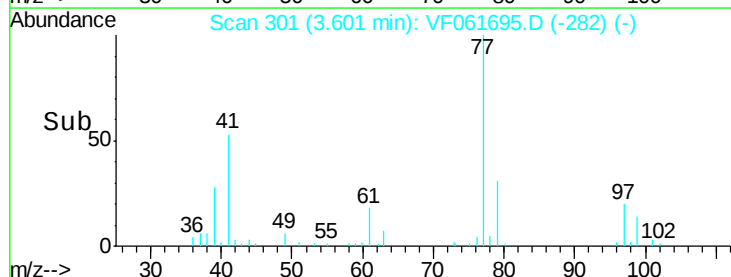
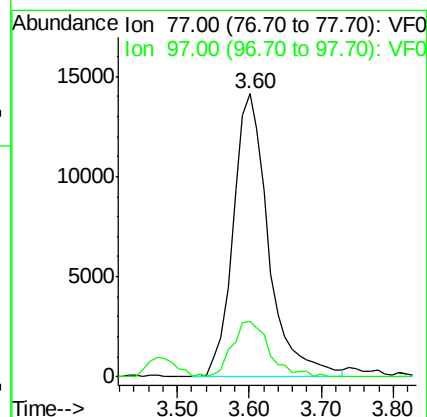
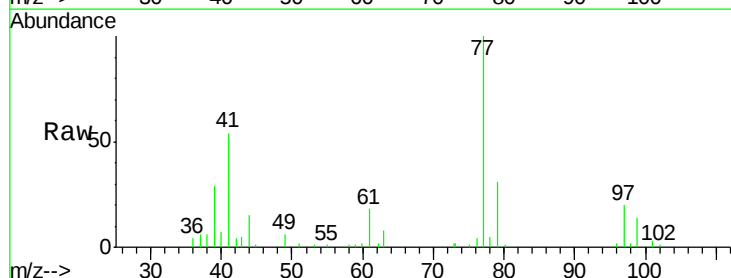
Acq: 21 Feb 2019 13:46

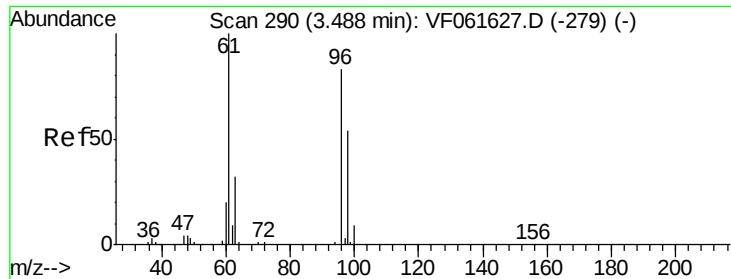
Tgt Ion: 77 Resp: 48361

Ion Ratio Lower Upper

77 100

97 19.7 11.7 35.0





#27

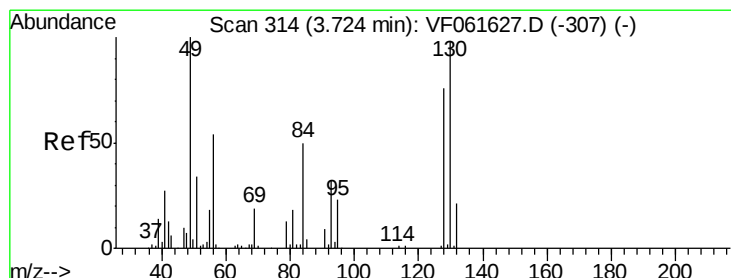
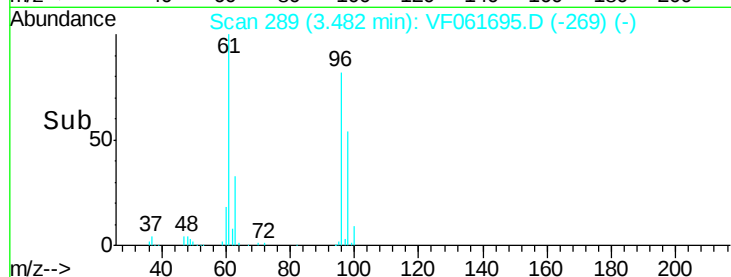
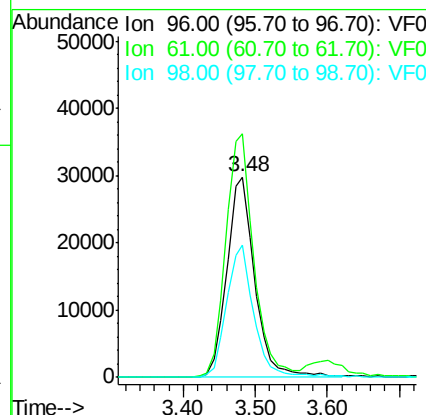
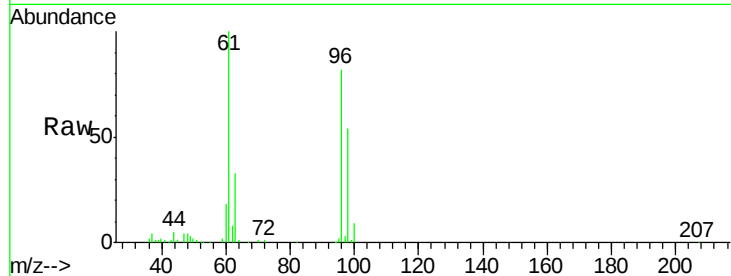
cis-1,2-Dichloroethene
Concen: 18.870 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	121.4	0.0	241.6
98	66.1	0.0	130.2

Manual Integrations
APPROVED

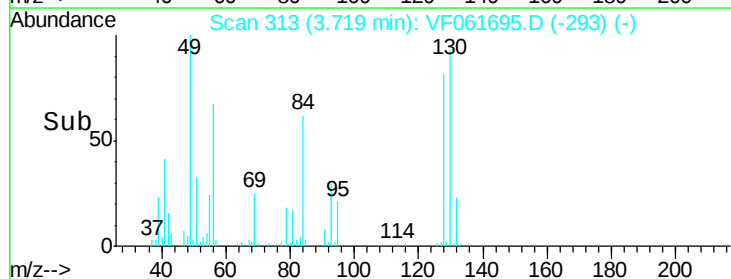
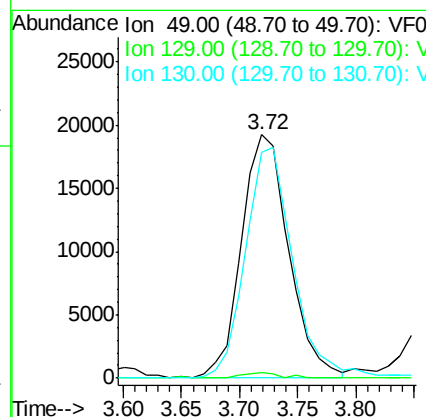
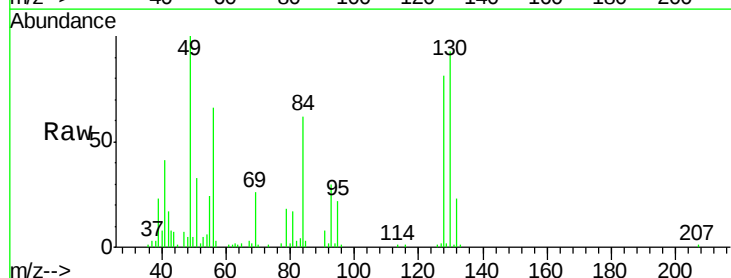
MMDadoda
2/22/2019 12:27:44 PM

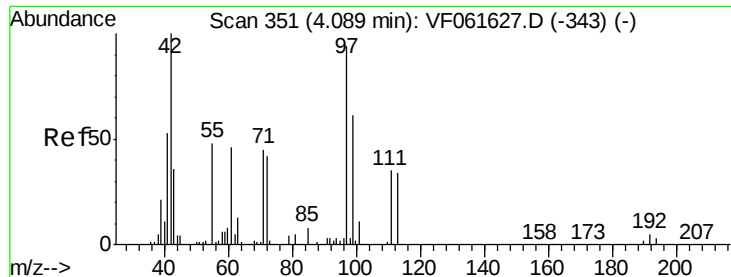


#28

Bromochloromethane
Concen: 21.264 ug/l
RT: 3.72 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	3.4
130	92.9	77.7	116.5





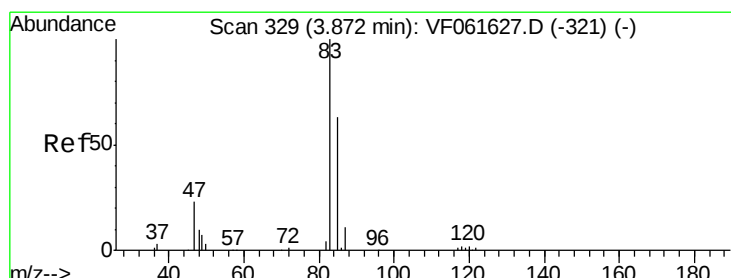
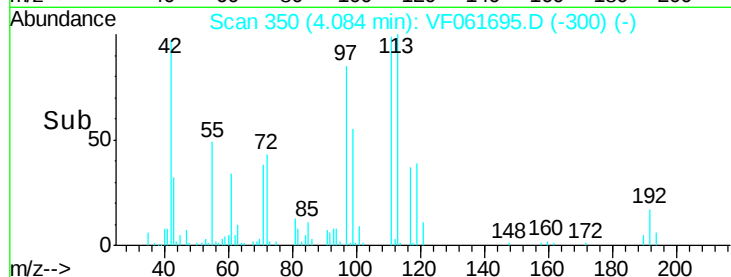
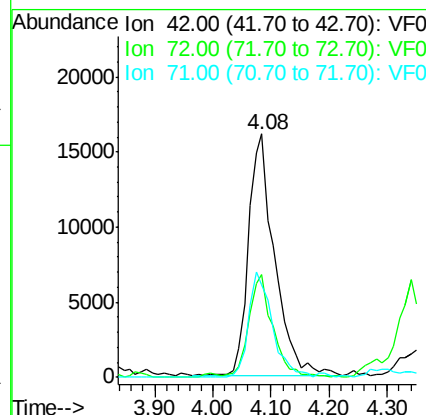
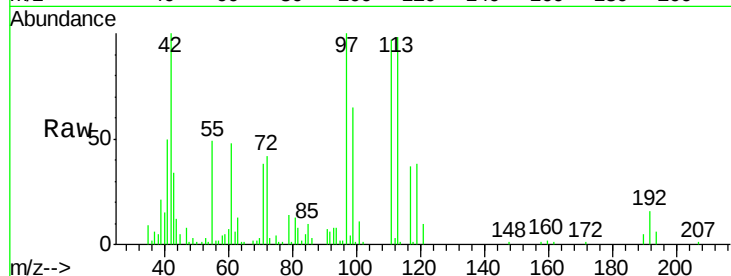
#29
Tetrahydrofuran
Concen: 93.136 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.0	35.2	52.8
71	39.5	32.9	49.3

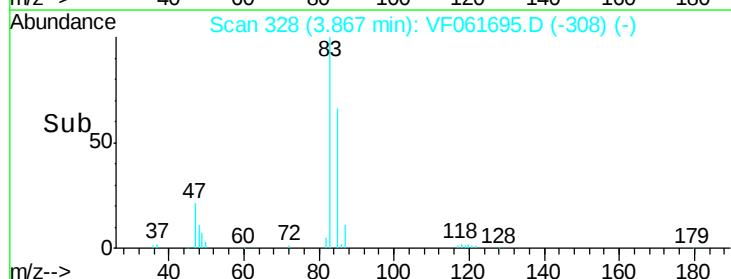
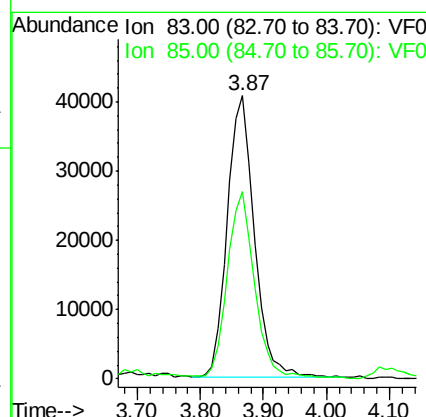
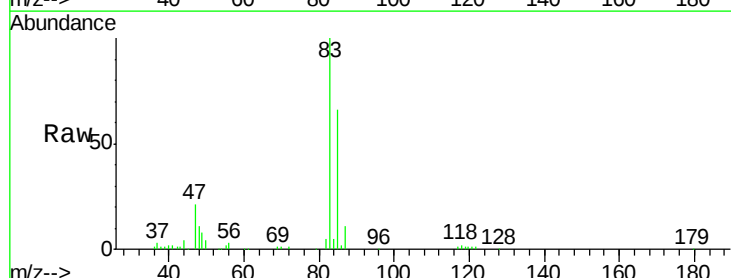
Manual Integrations
APPROVED

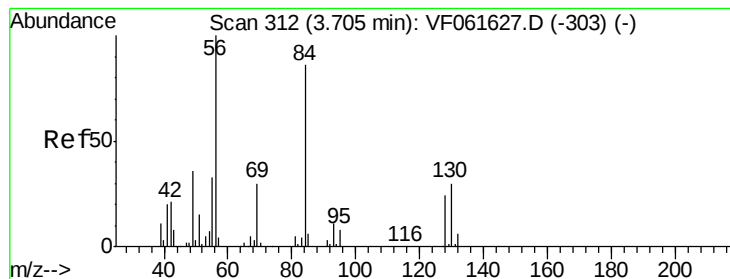
MMDadoda
2/22/2019 12:27:44 PM



#30
Chloroform
Concen: 19.920 ug/l
RT: 3.87 min Scan# 328
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.1	76.7





#31

Cyclohexane

Concen: 20.392 ug/l

RT: 3.70 min Scan# 311

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

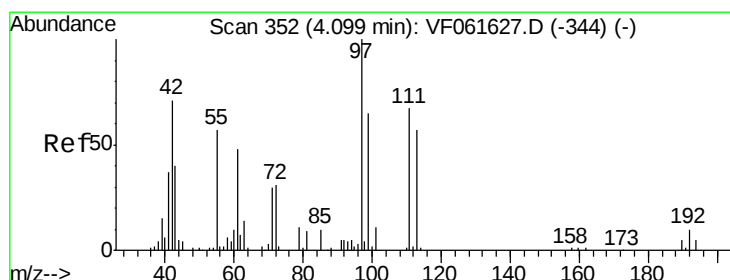
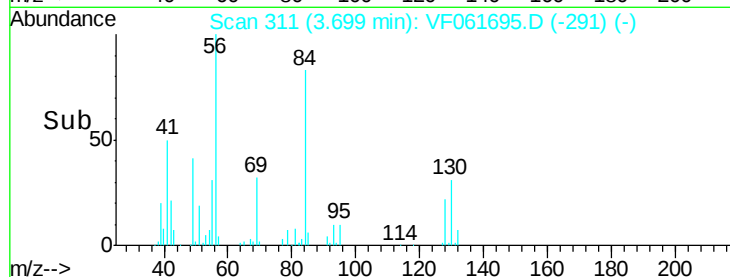
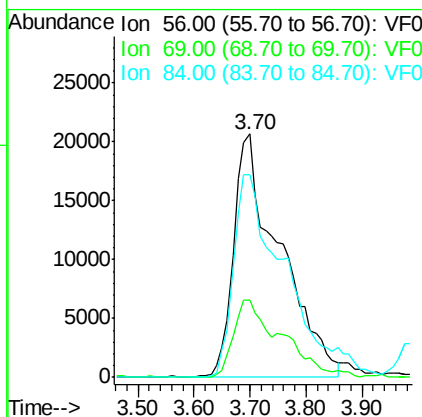
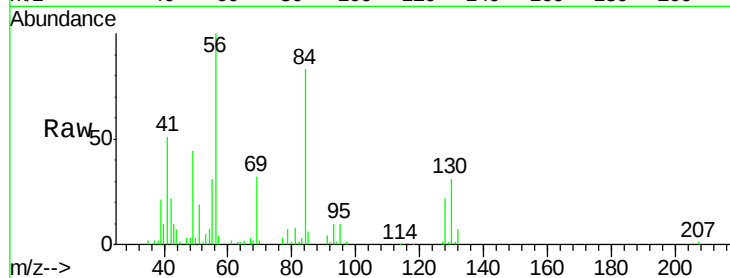
ClientSampleId :

VF0221SBS01

Tot Ion:	56	Resp:	117423
Ion Ratio	Lower	Upper	
56	100		
69	31.7	23.8	35.8
84	83.5	68.6	103.0

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#32

1,1,1-Trichloroethane

Concen: 18.301 ug/l

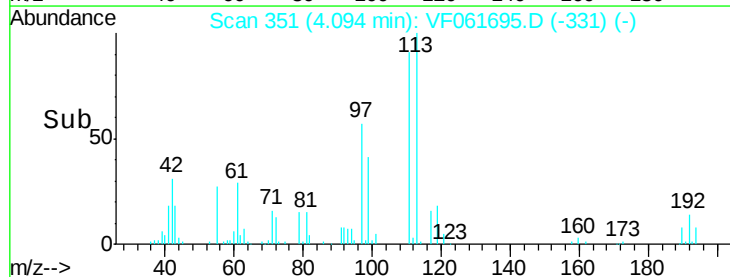
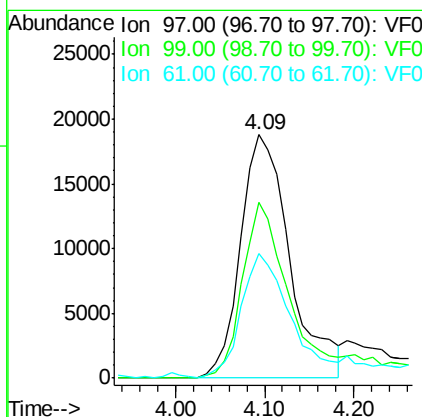
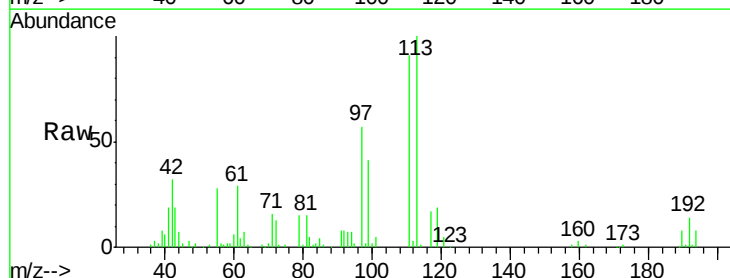
RT: 4.09 min Scan# 351

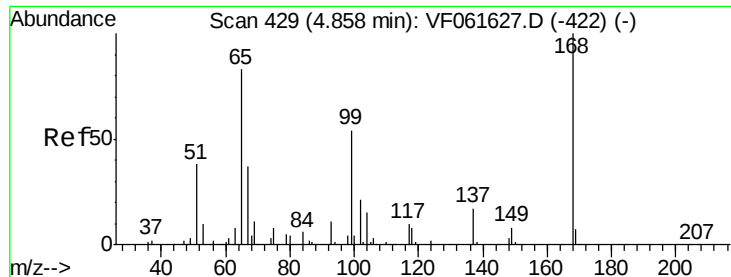
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	97	Resp:	72518
Ion Ratio	Lower	Upper	
97	100		
99	72.2	52.2	78.2
61	51.2	39.2	58.8





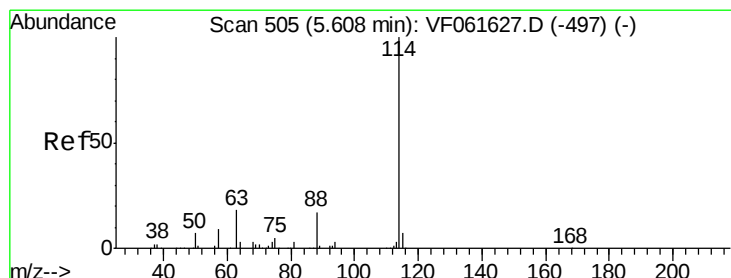
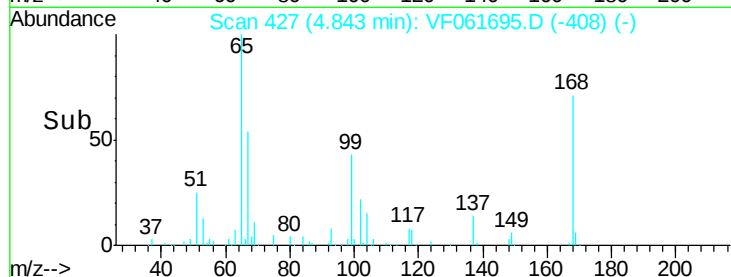
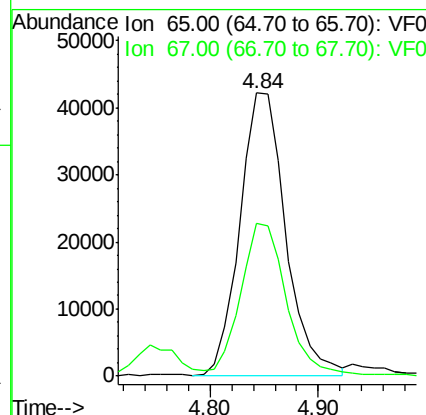
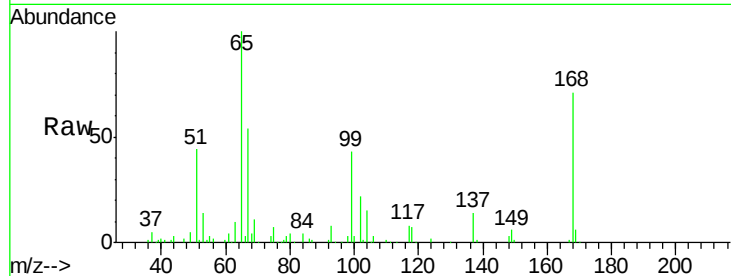
#33
 1,2-Dichloroethane-d4
 Concen: 48.654 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.02 min
 Lab File: VF061695.D
 Acq: 21 Feb 2019 13:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0221SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	124243		
67	53.9	0.0	104.0	

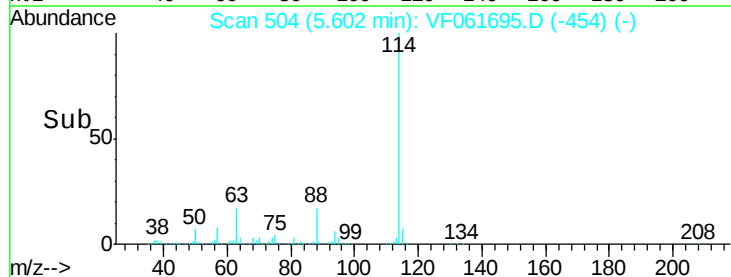
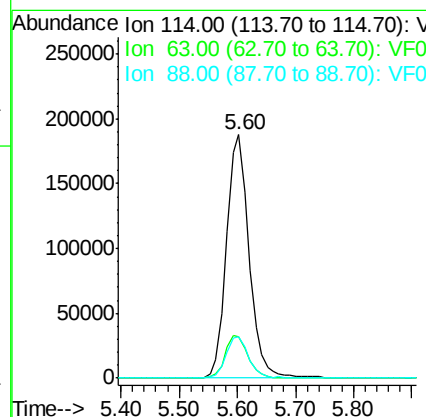
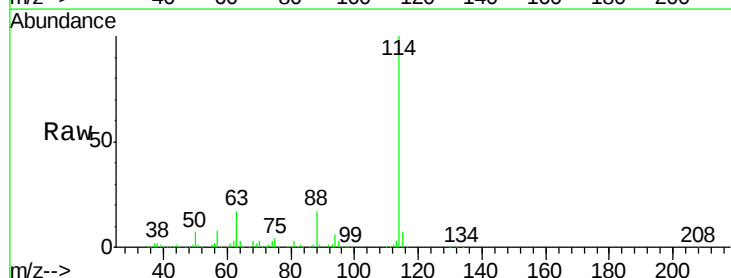
Manual Integrations
 APPROVED

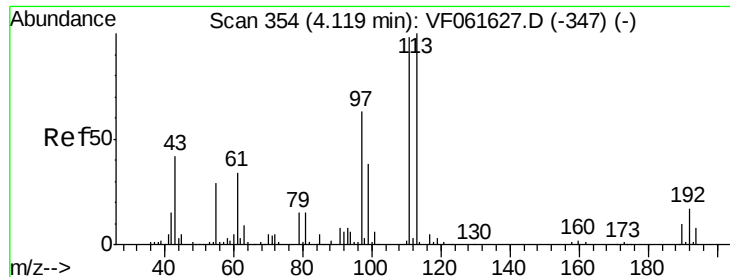
MMDadoda
 2/22/2019 12:27:44 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.01 min
 Lab File: VF061695.D
 Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	507278		
63	16.8	0.0	36.6	
88	16.9	0.0	34.4	





#35

Dibromofluoromethane

Concen: 49.238 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

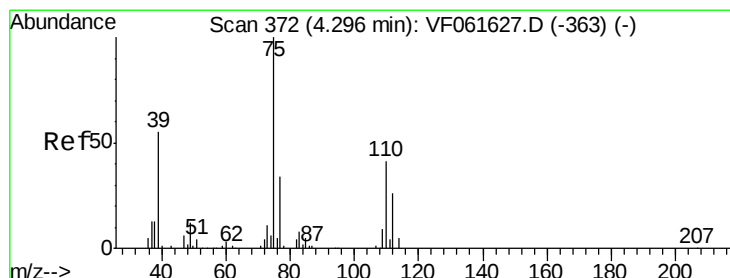
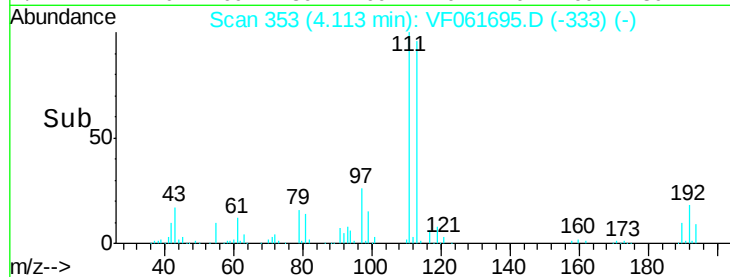
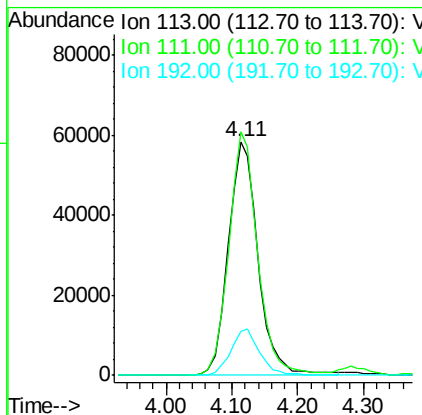
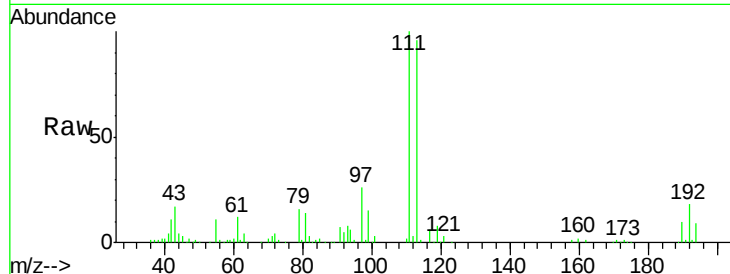
ClientSampleId :

VF0221SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	185484		
111	104.1	78.8	118.2	
192	19.5	13.4	20.0	

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#36

1,1-Dichloropropene

Concen: 18.806 ug/l

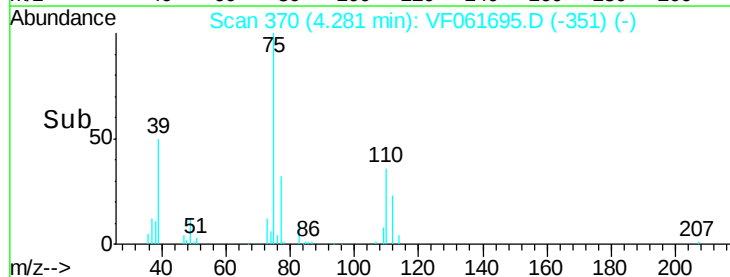
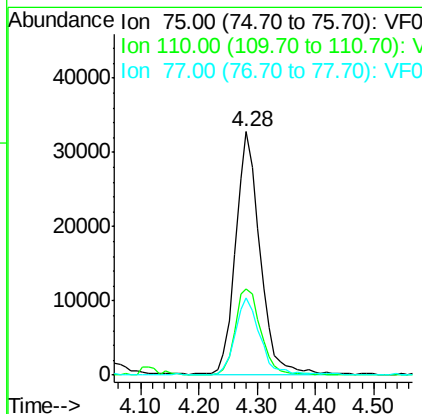
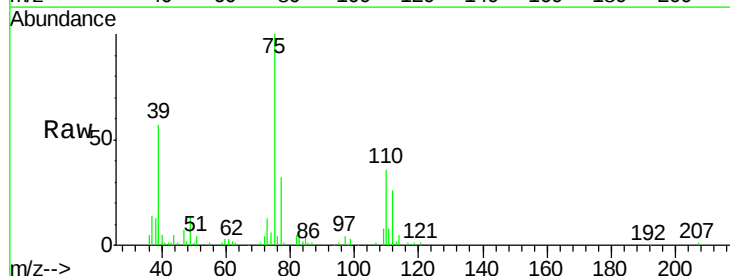
RT: 4.28 min Scan# 370

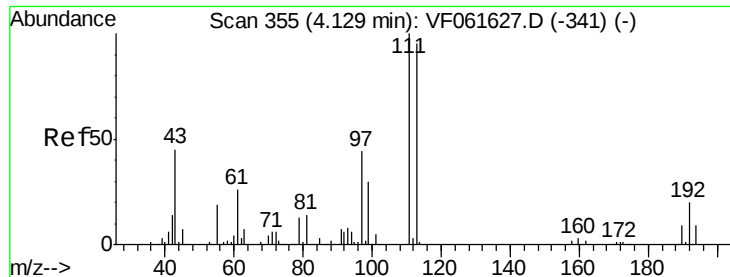
Delta R.T. -0.02 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	94502		
110	35.5	20.5	61.6	
77	31.8	27.0	40.4	





#37

Ethyl Acetate

Concen: 18.028 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.02 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

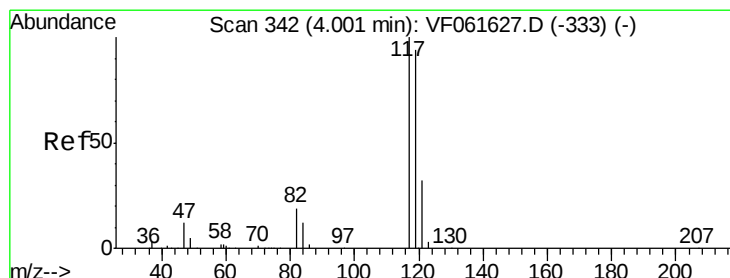
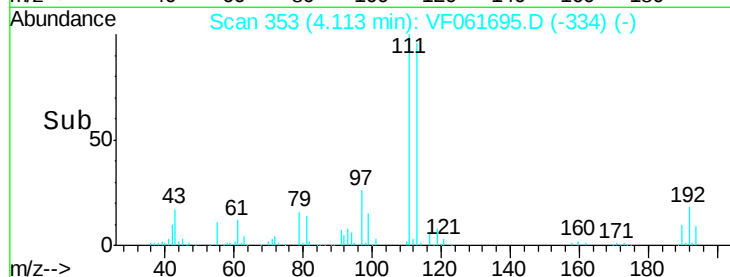
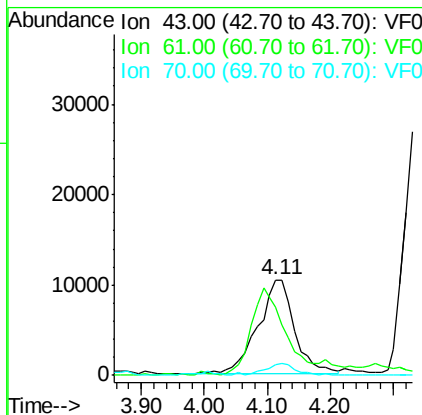
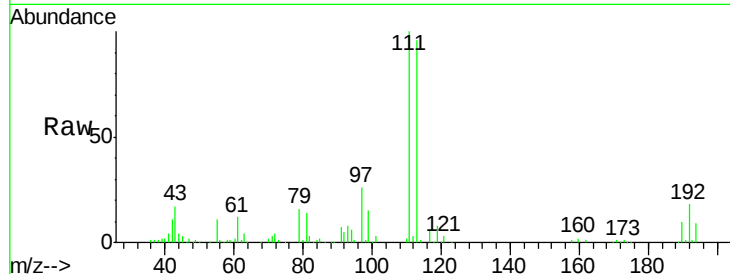
ClientSampleId :

VF0221SBS01

Tot Ion:	43	Resp:	42080
Ion	Ratio	Lower	Upper
43	100		
61	71.7	45.7	68.5#
70	10.5	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#38

Carbon Tetrachloride

Concen: 20.944 ug/l m

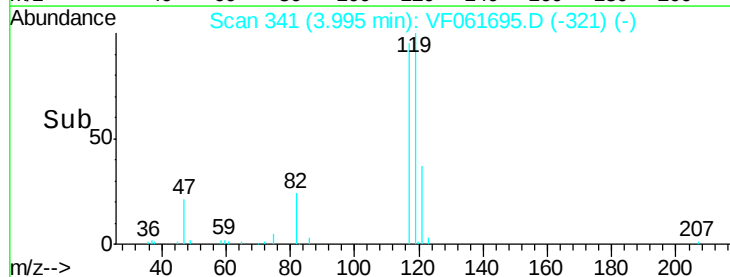
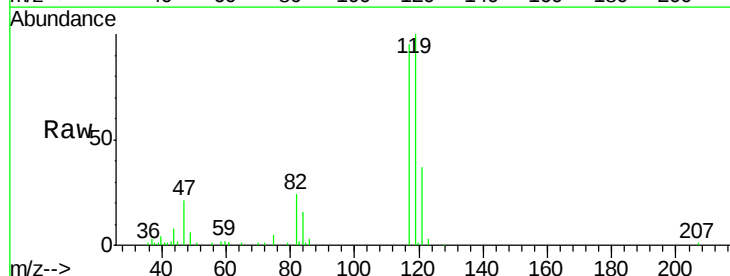
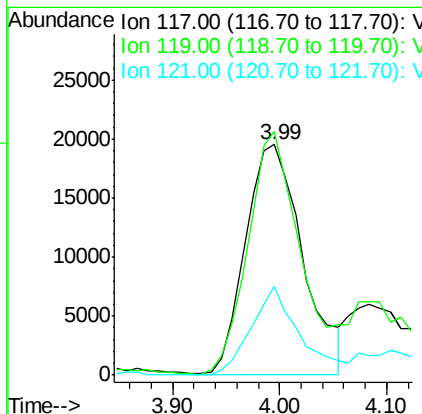
RT: 3.99 min Scan# 341

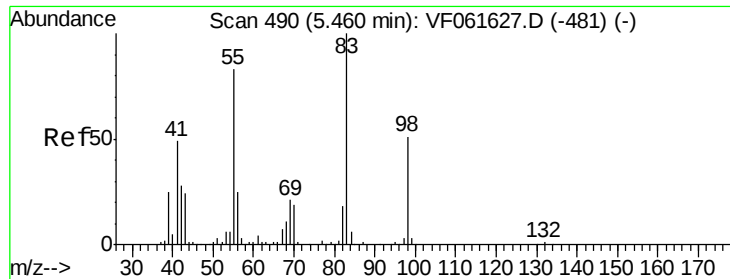
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	117	Resp:	72674
Ion	Ratio	Lower	Upper
117	100		
119	105.7	75.6	113.4
121	38.7	25.2	37.8#





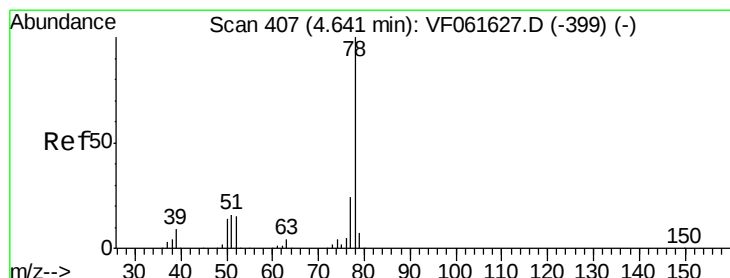
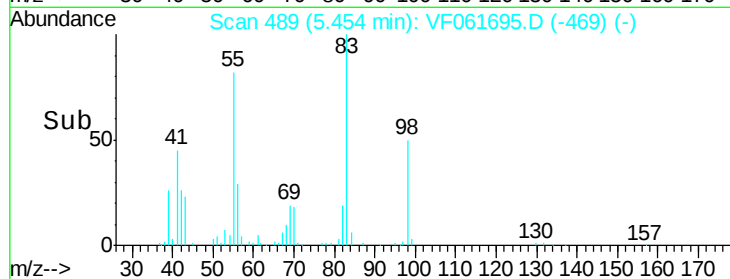
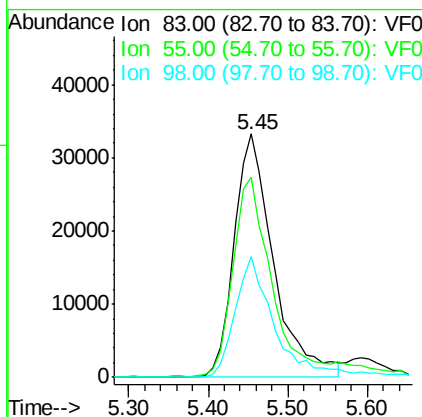
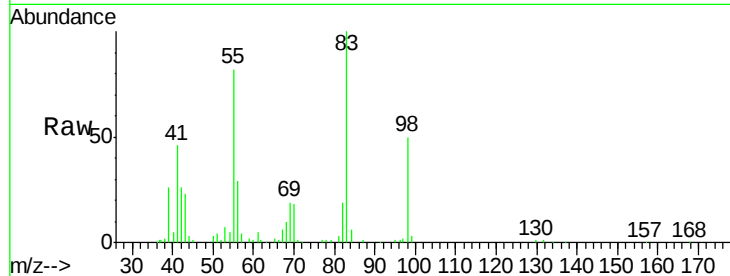
#39
Methylvlcvclohexane
Concen: 19.245 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	83	Resp	114375
Ion Ratio	Lower	Upper	
83	100		
55	82.4	66.6	99.8
98	49.7	40.4	60.6

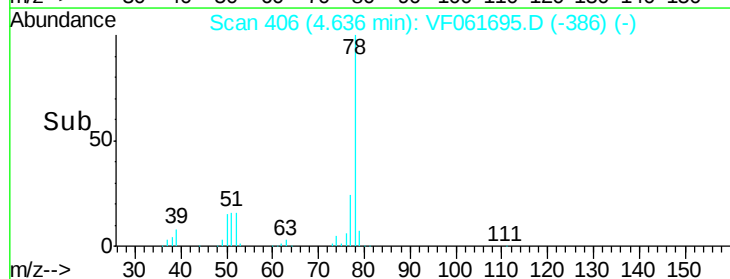
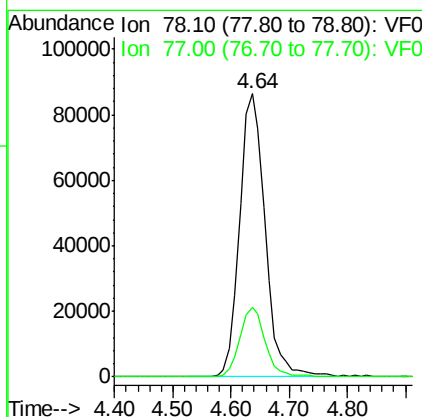
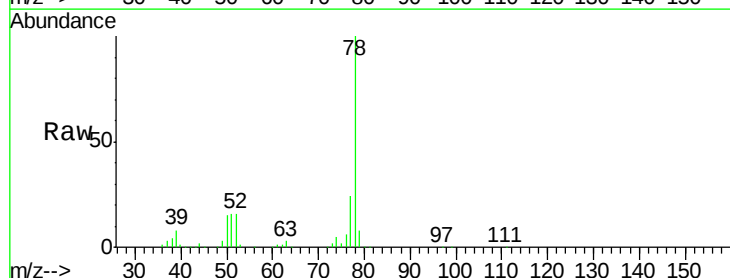
Manual Integrations
APPROVED

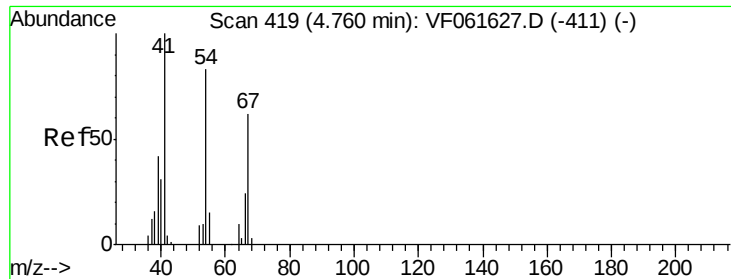
MMDadoda
2/22/2019 12:27:44 PM



#40
Benzene
Concen: 20.132 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	78	Resp	264618
Ion Ratio	Lower	Upper	
78	100		
77	24.4	19.0	28.6





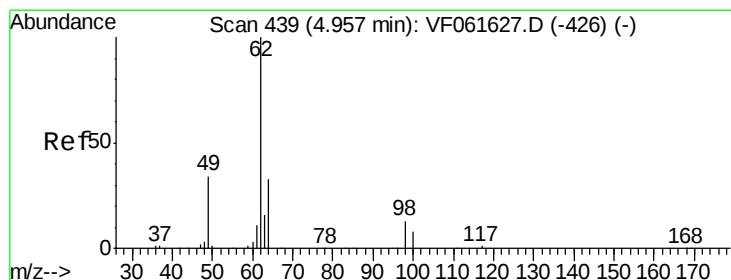
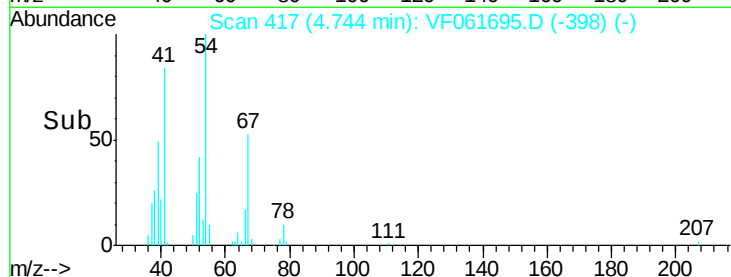
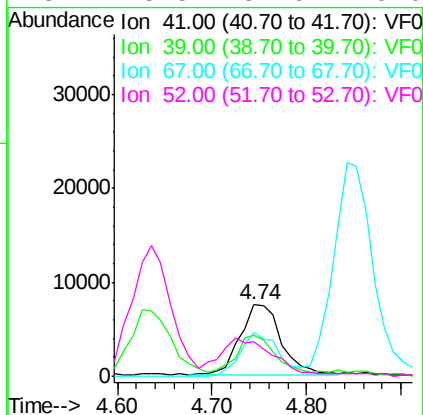
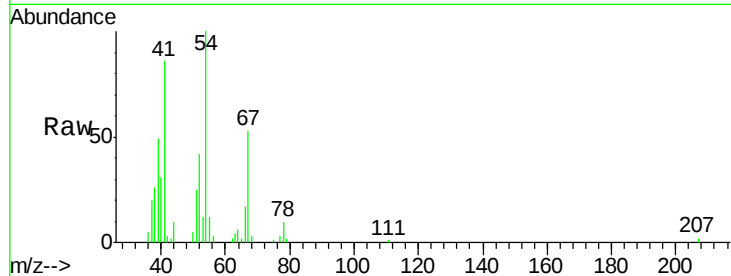
#41
Methacrylonitrile
Concen: 18.884 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.02 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.1	45.3	67.9	
67	61.5	49.3	73.9	
52	48.5	32.6	49.0	

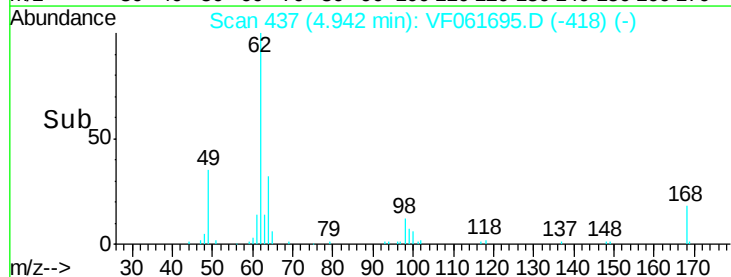
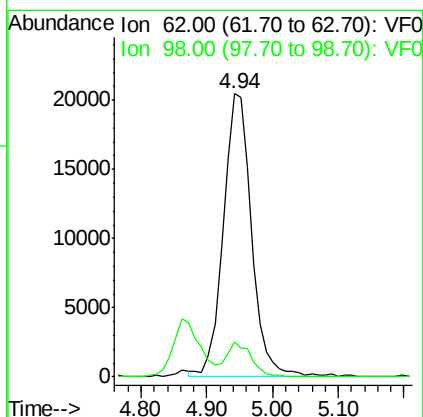
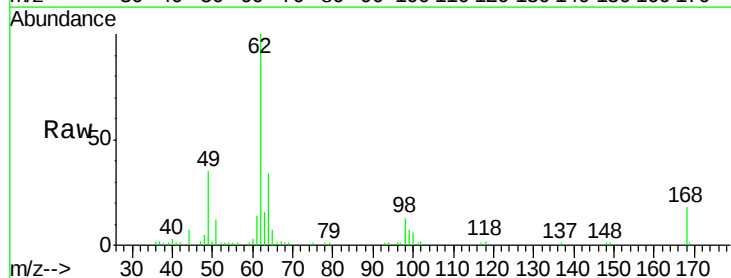
Manual Integrations
APPROVED

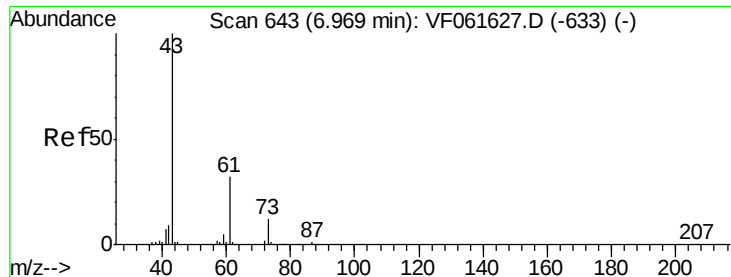
MMDadoda
2/22/2019 12:27:44 PM



#42
1,2-Dichloroethane
Concen: 19.607 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.02 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	12.5	0.0	26.0	





#43

Isopropyl Acetate

Concen: 17.785 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

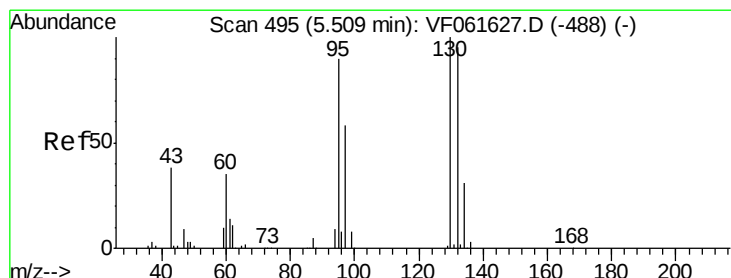
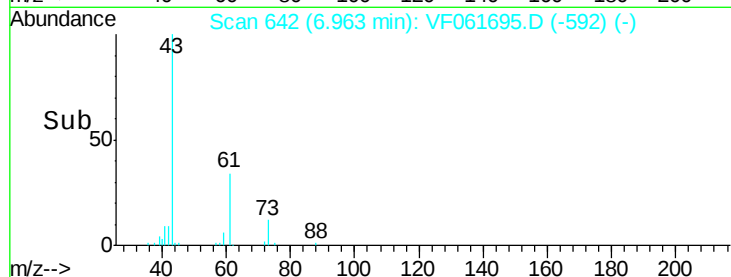
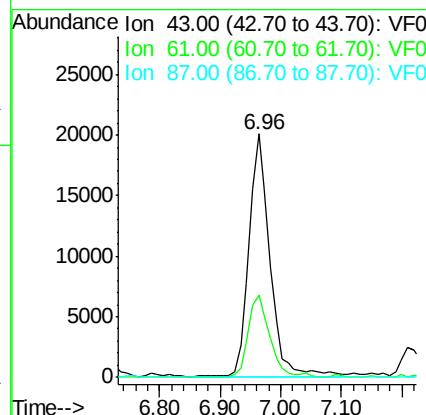
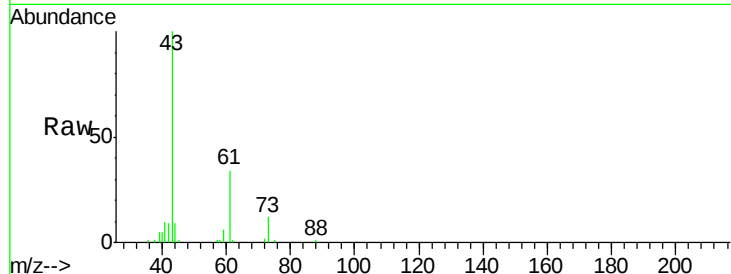
ClientSampleId :

VF0221SBS01

Tot Ion:	43	Resp:	49136
Ion Ratio	Lower	Upper	
43	100		
61	33.7	25.8	38.6
87	0.0	0.4	0.6#

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#44

Trichloroethene

Concen: 18.579 ug/l

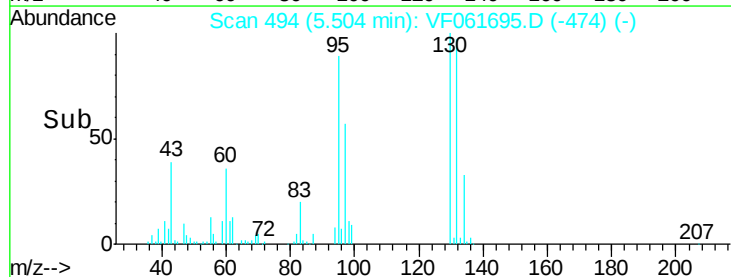
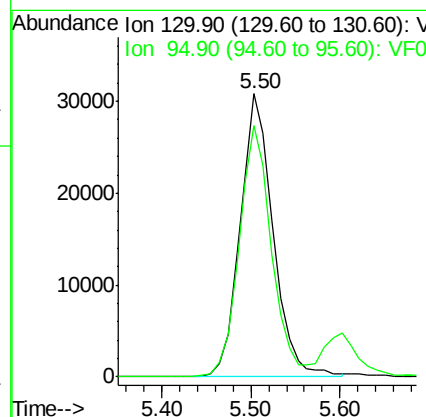
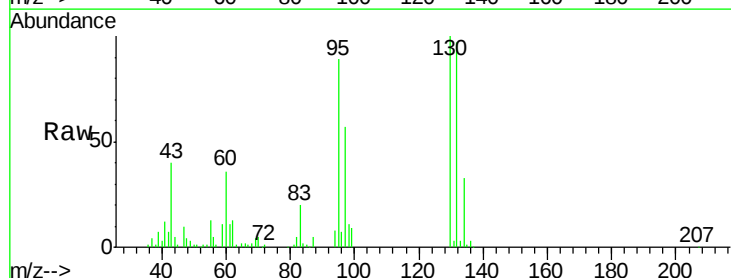
RT: 5.50 min Scan# 494

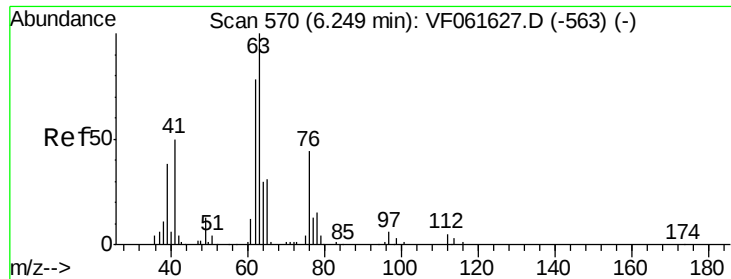
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	130	Resp:	78973
Ion Ratio	Lower	Upper	
130	100		
95	88.9	0.0	179.4





#45

1,2-Dichloropropane

Concen: 18.819 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 63 Resp: 59791

Ion Ratio Lower Upper

63 100

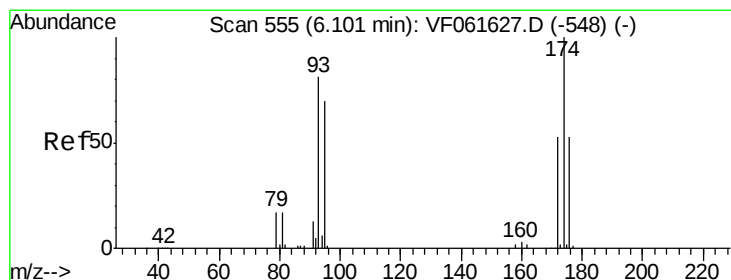
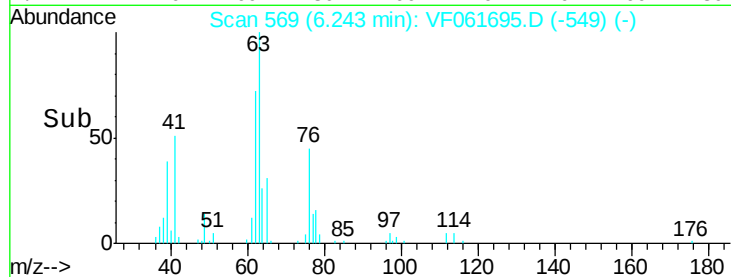
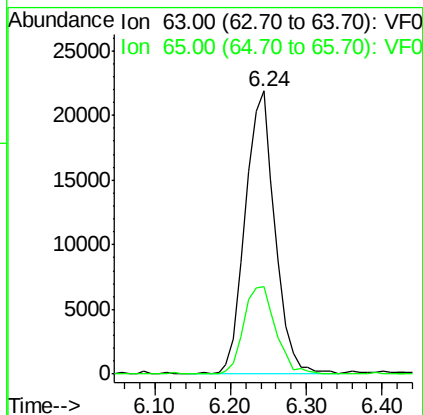
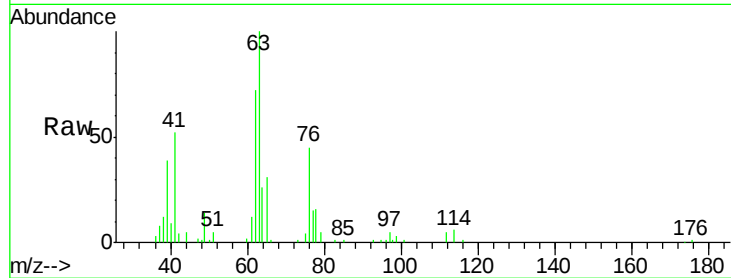
65 30.9 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



#46

Dibromomethane

Concen: 19.585 ug/l

RT: 6.09 min Scan# 553

Delta R.T. -0.02 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

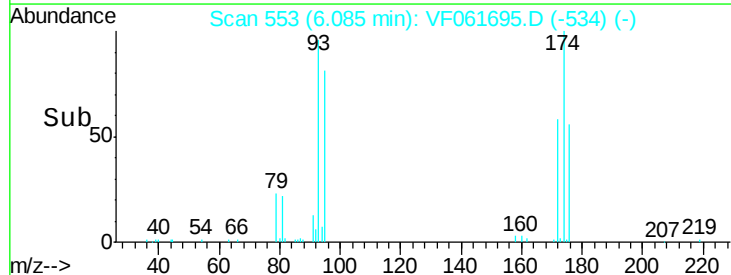
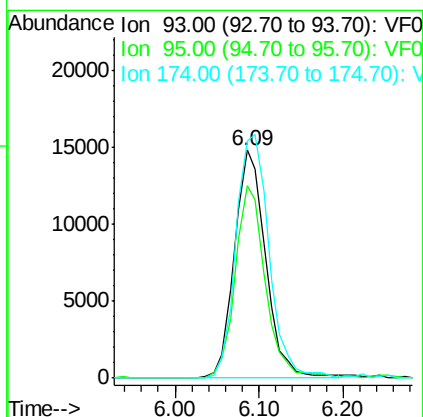
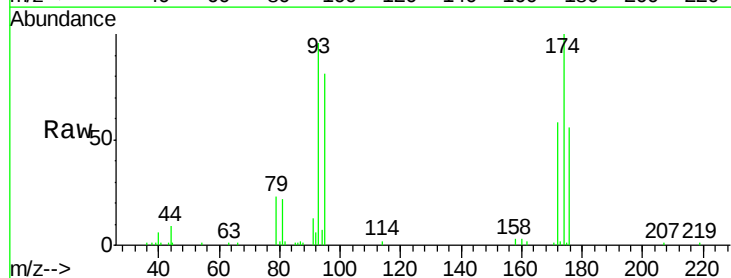
Tgt Ion: 93 Resp: 38313

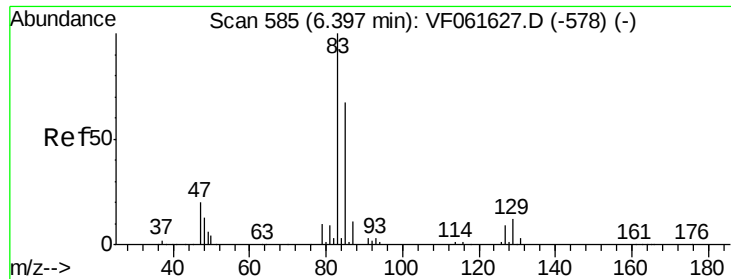
Ion Ratio Lower Upper

93 100

95 84.3 69.0 103.6

174 104.1 99.3 148.9





#47

Bromodichloromethane

Concen: 19.206 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

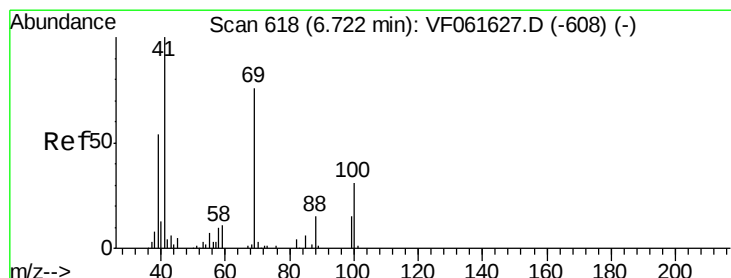
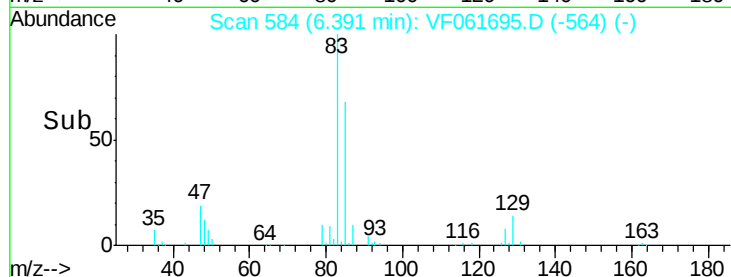
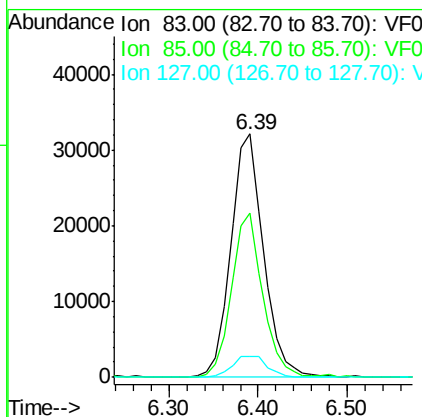
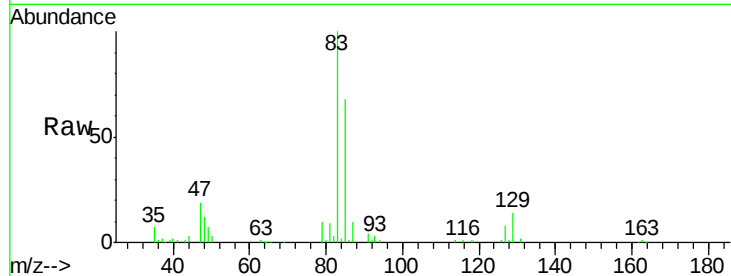
ClientSampleId :

VF0221SBS01

Tot Ion:	83	Resp:	82276
Ion	Ratio	Lower	Upper
83	100		
85	67.5	53.4	80.2
127	8.5	7.5	11.3

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#48

Methyl methacrylate

Concen: 17.943 ug/l

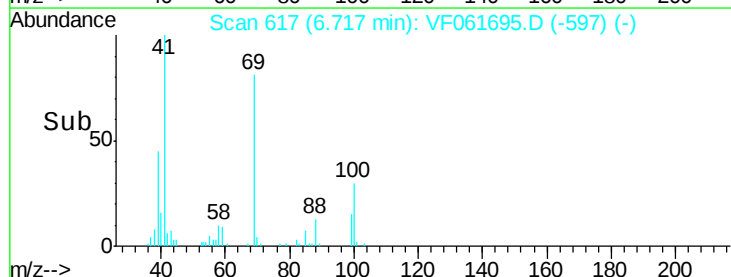
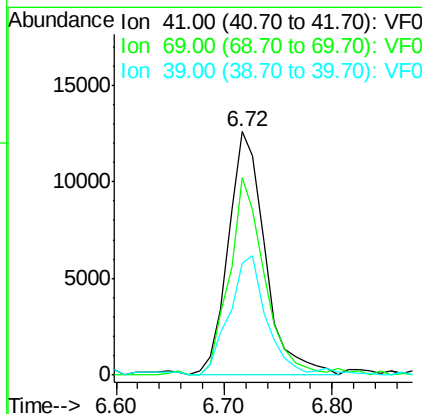
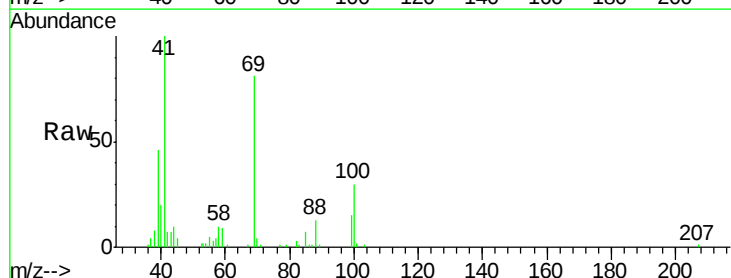
RT: 6.72 min Scan# 617

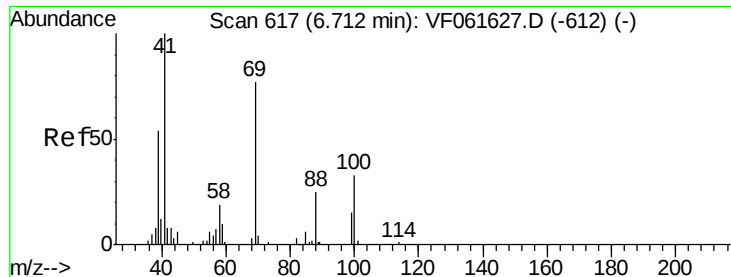
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	41	Resp:	29833
Ion	Ratio	Lower	Upper
41	100		
69	80.9	60.4	90.6
39	46.0	43.7	65.5





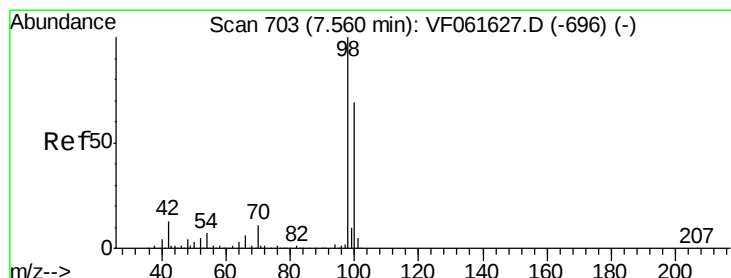
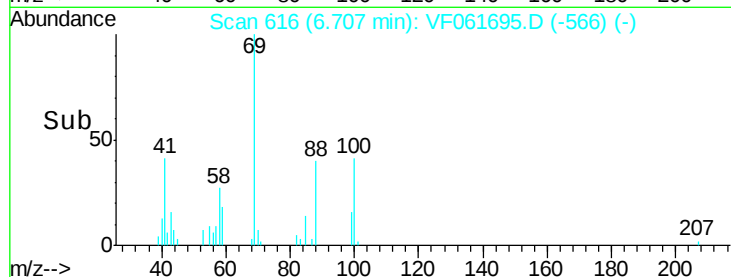
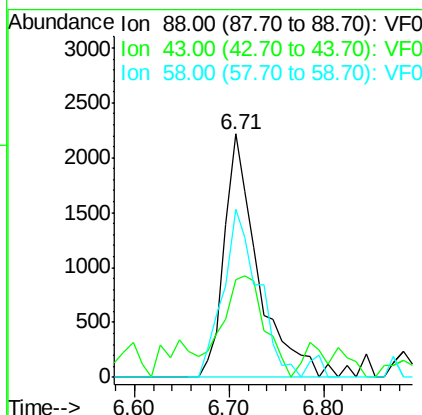
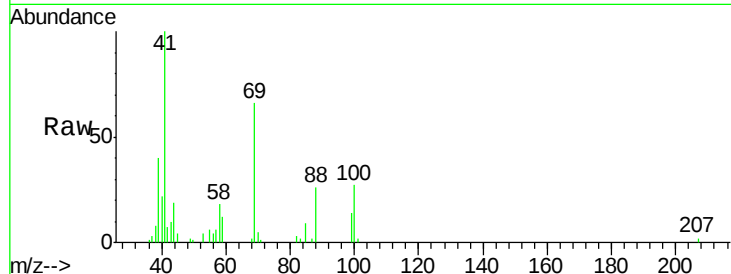
#49
1,4-Dioxane
Concen: 349.976 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	5470		
43	40.3		32.3	48.5
58	68.8		59.4	89.2

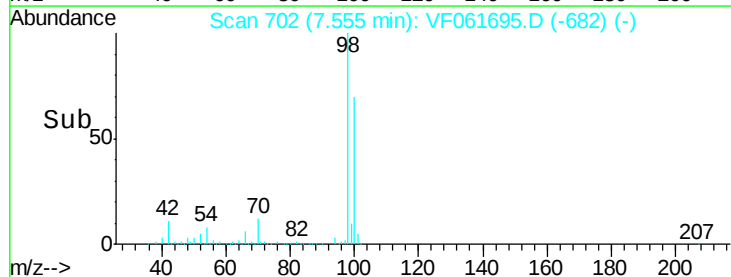
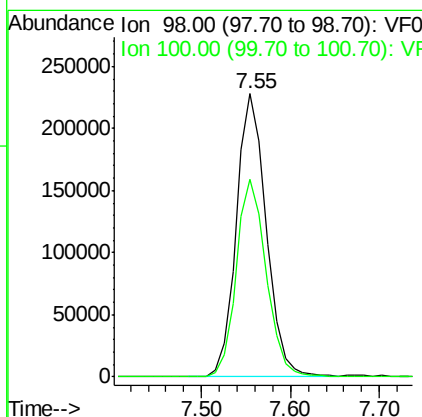
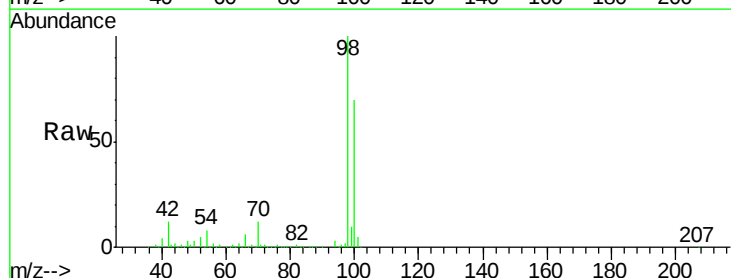
Manual Integrations
APPROVED

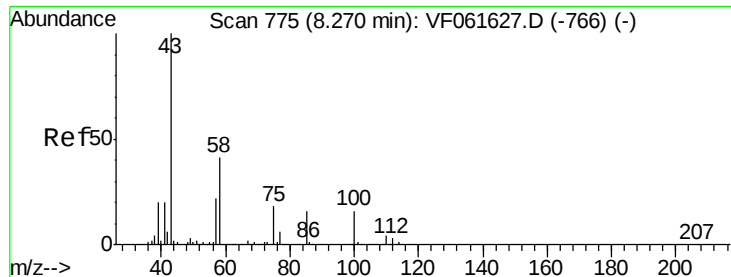
MMDadoda
2/22/2019 12:27:44 PM



#50
Toluene-d8
Concen: 49.177 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	532552		
100	69.8		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 89.411 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 43 Resp: 176508

Ion Ratio Lower Upper

43 100

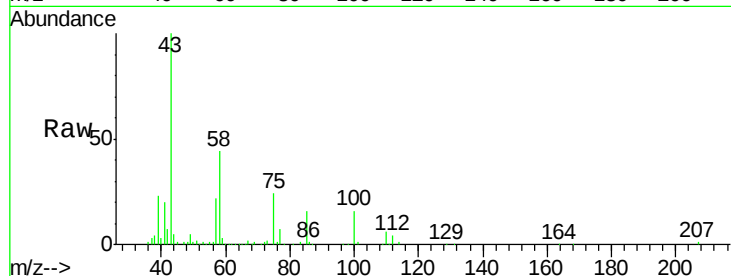
58 43.5 33.1 49.7

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

60000

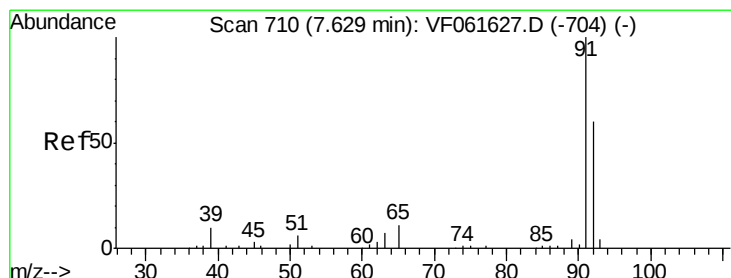
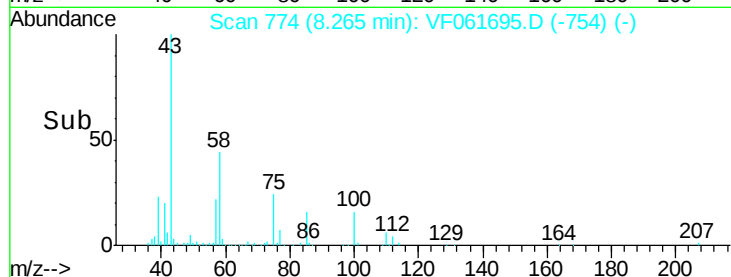
40000

20000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 18.715 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061695.D

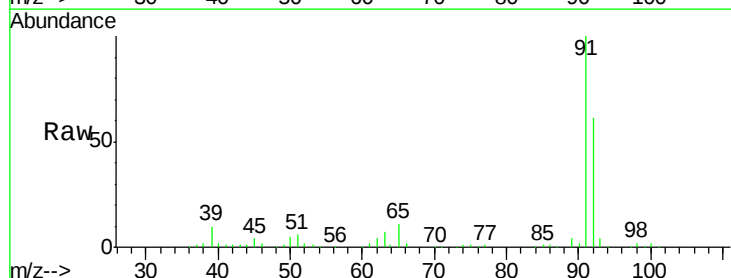
Acq: 21 Feb 2019 13:46

Tgt Ion: 92 Resp: 149188

Ion Ratio Lower Upper

92 100

91 163.6 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

120000

100000

80000

60000

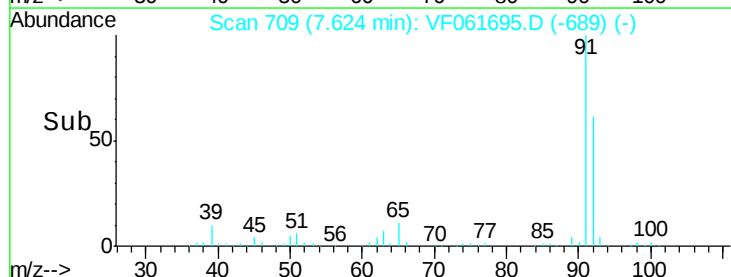
40000

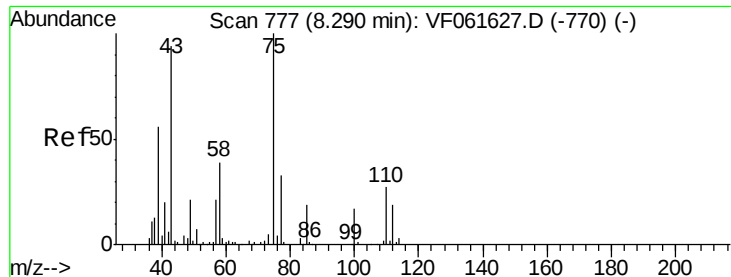
20000

0

7.50 7.60 7.70 7.80

Time-->





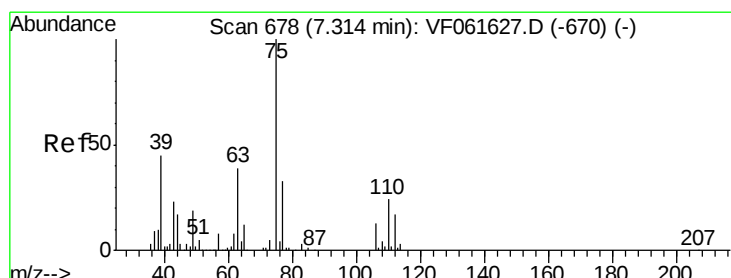
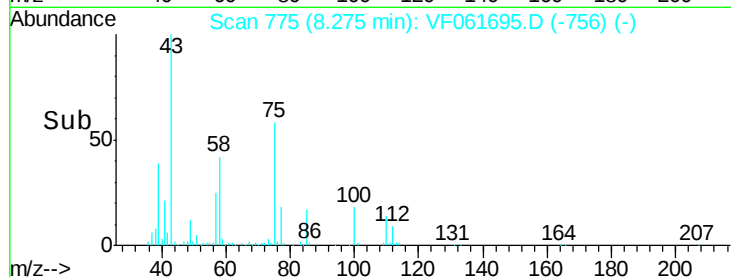
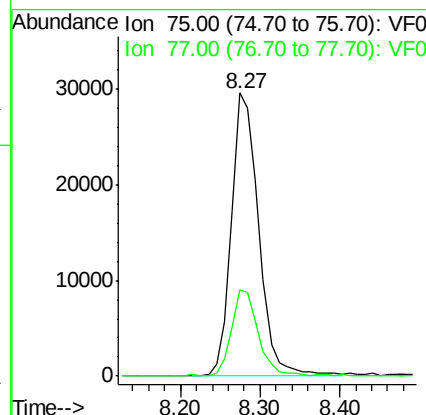
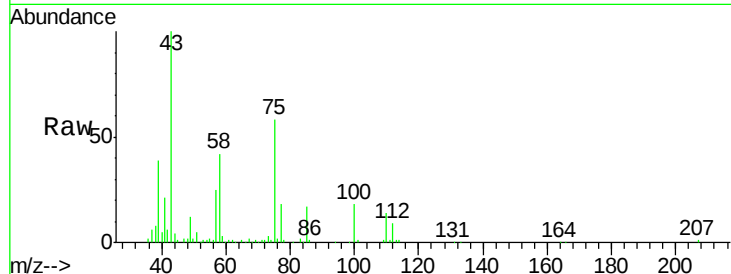
#53
t-1,3-Dichloropropene
Concen: 20.028 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.02 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion: 75 Resp: 71405
Ion Ratio Lower Upper
75 100
77 30.4 26.2 39.2

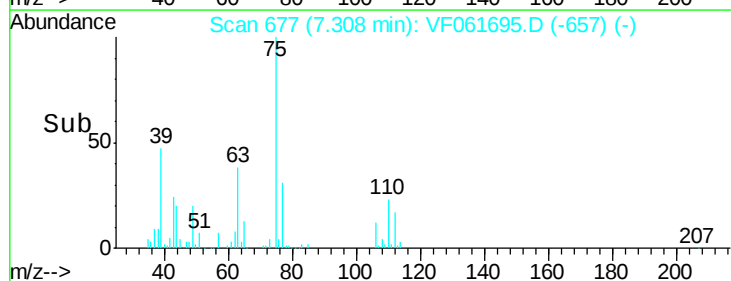
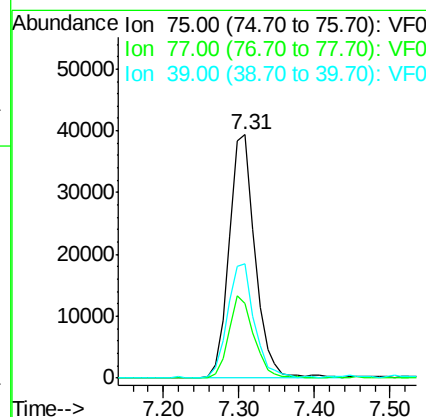
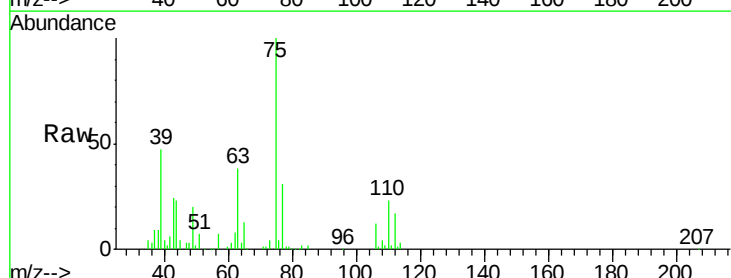
Manual Integrations
APPROVED

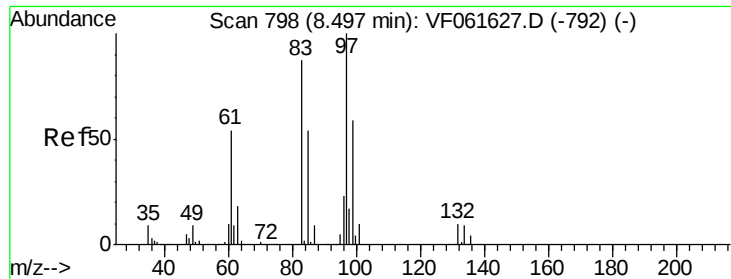
MMDadoda
2/22/2019 12:27:44 PM



#54
cis-1,3-Dichloropropene
Concen: 19.762 ug/l
RT: 7.31 min Scan# 677
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion: 75 Resp: 93849
Ion Ratio Lower Upper
75 100
77 30.6 26.4 39.6
39 47.0 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 18.836 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

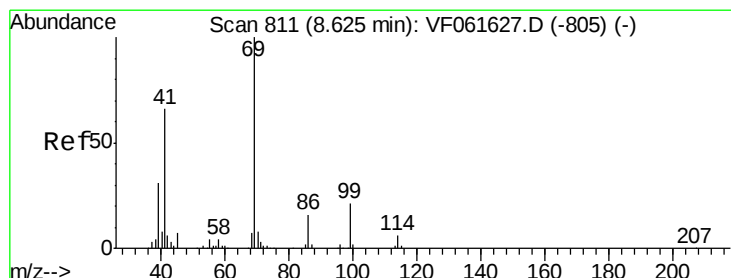
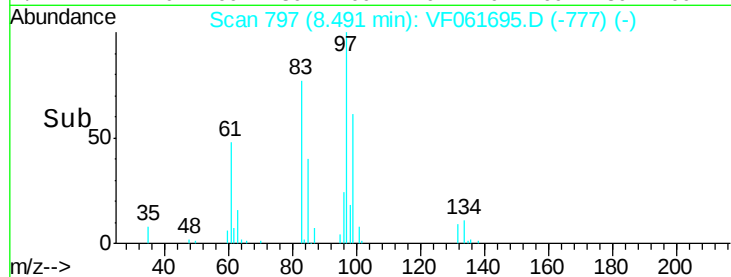
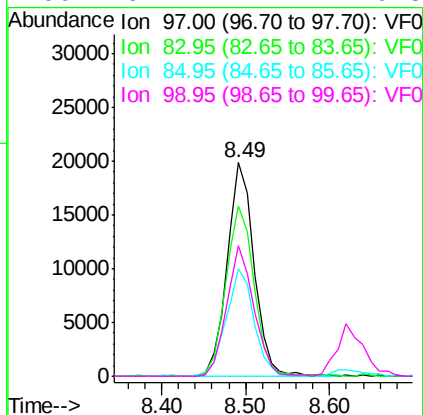
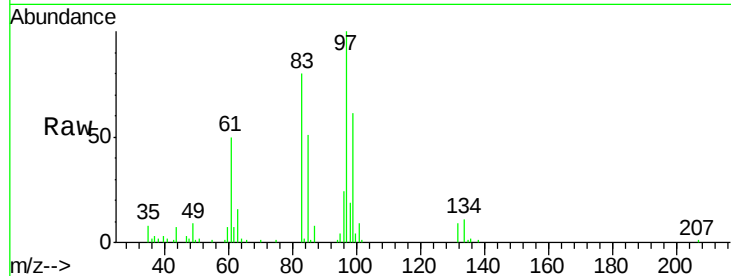
ClientSampleId :

VF0221SBS01

Tot Ion:	97	Resp:	44117
Ion	Ratio	Lower	Upper
97	100		
83	79.8	69.2	103.8
85	50.6	43.0	64.4
99	61.2	47.2	70.8

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#56

Ethyl methacrylate

Concen: 19.025 ug/l

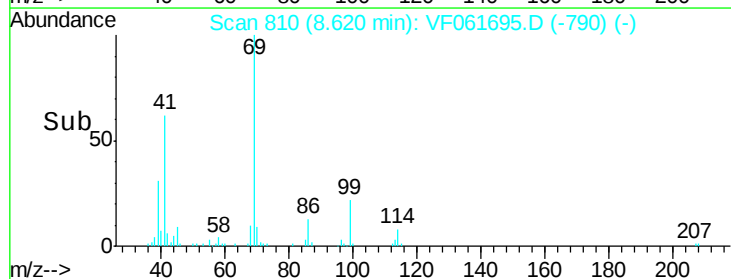
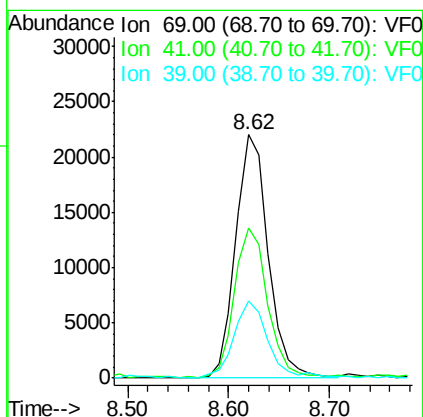
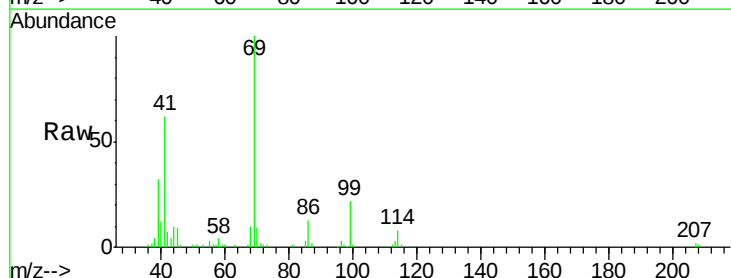
RT: 8.62 min Scan# 810

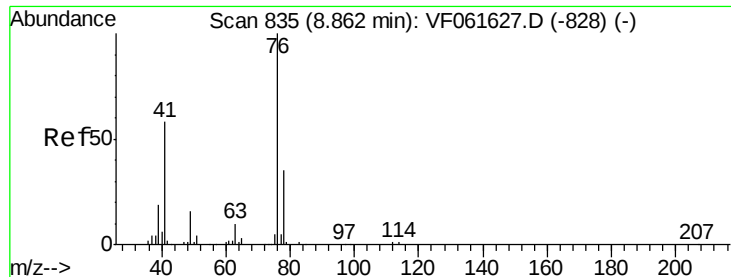
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	69	Resp:	49612
Ion	Ratio	Lower	Upper
69	100		
41	61.9	52.9	79.3
39	31.9	24.5	36.7





#57

1,3-Dichloropropane

Concen: 18.400 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 76 Resp: 71933

Ion Ratio Lower Upper

76 100

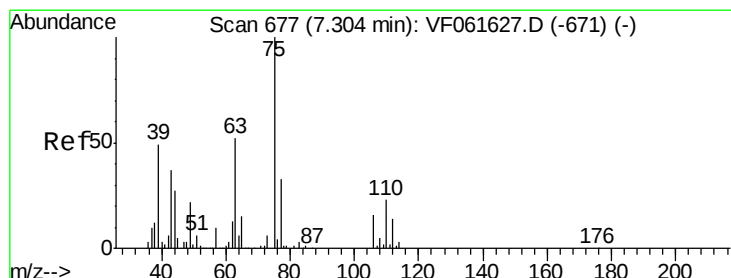
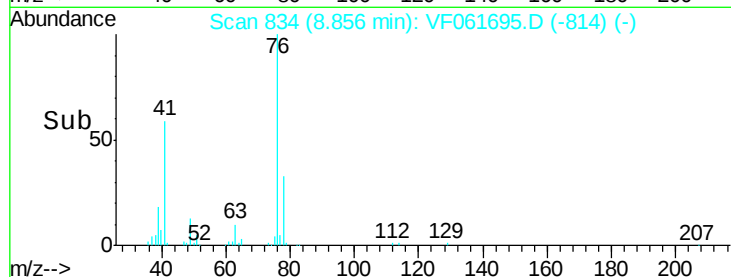
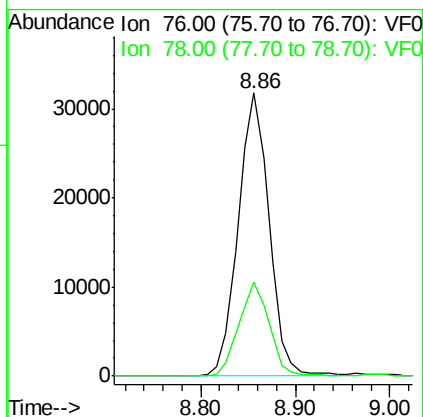
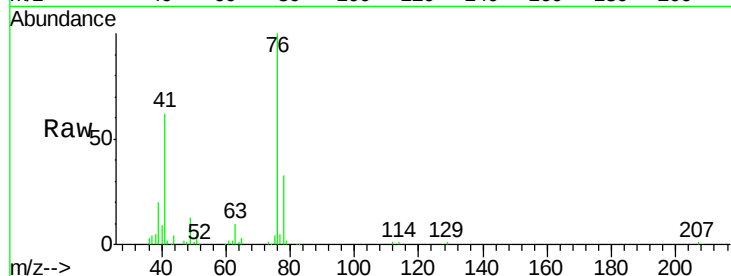
78 33.3 27.8 41.6

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



#58

2-Chloroethyl Vinyl ether

Concen: 95.317 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061695.D

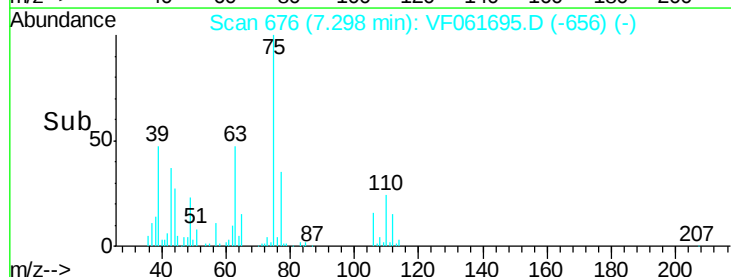
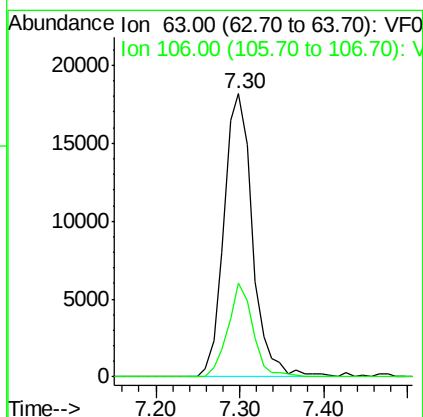
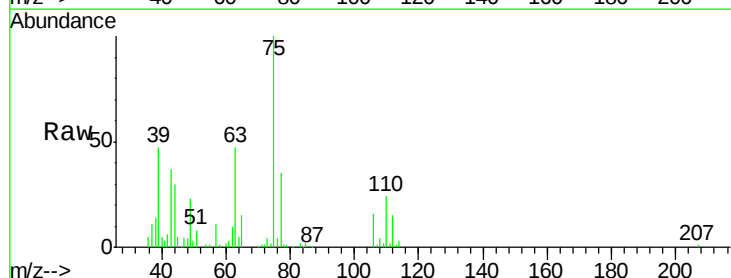
Acq: 21 Feb 2019 13:46

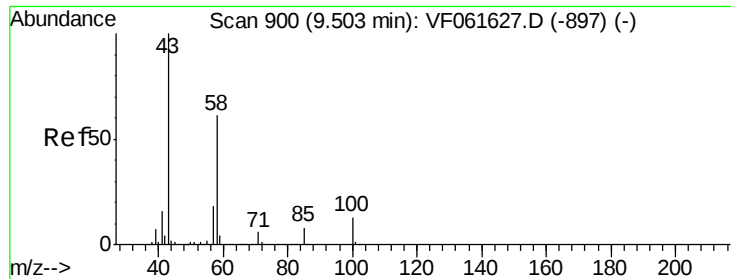
Tgt Ion: 63 Resp: 42885

Ion Ratio Lower Upper

63 100

106 33.1 24.6 36.8





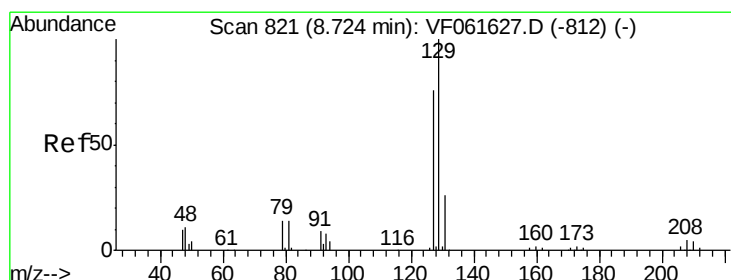
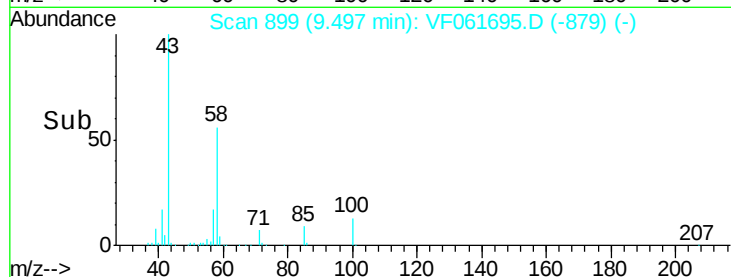
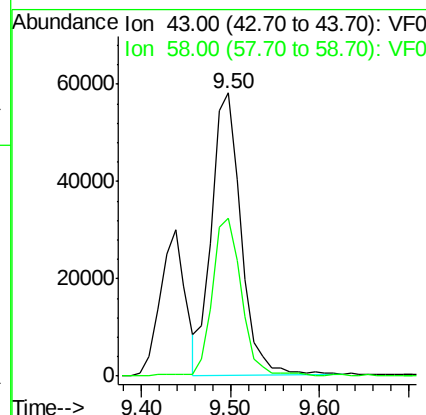
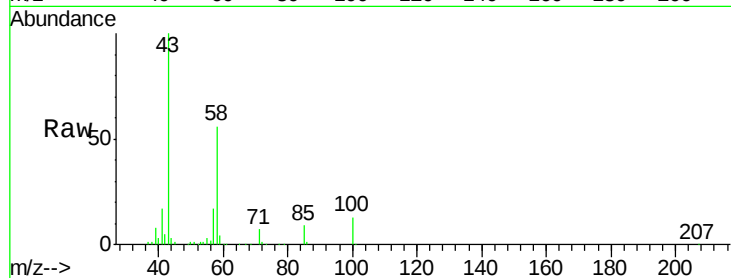
#59
2-Hexanone
Concen: 96.574 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion: 43 Resp: 133640
Ion Ratio Lower Upper
43 100
58 55.7 28.5 85.5

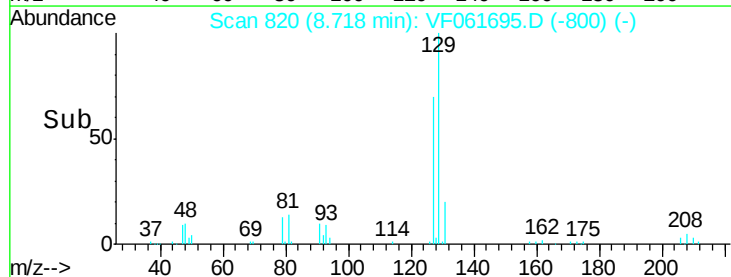
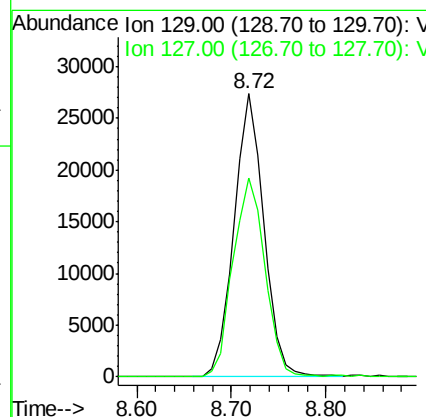
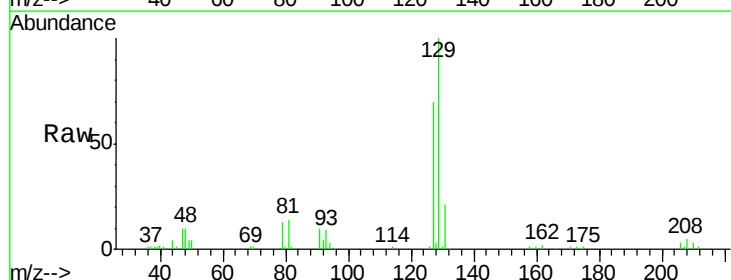
Manual Integrations
APPROVED

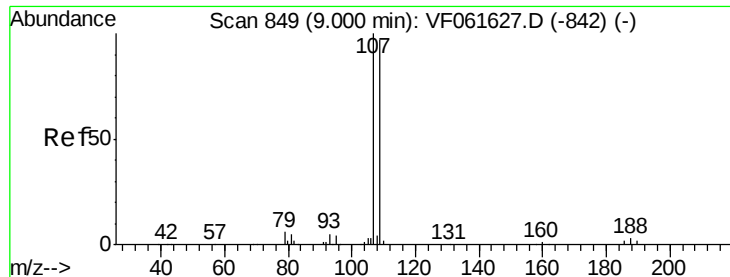
MMDadoda
2/22/2019 12:27:44 PM



#60
Dibromochloromethane
Concen: 18.356 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion: 129 Resp: 59842
Ion Ratio Lower Upper
129 100
127 70.2 37.8 113.4





#61

1,2-Dibromoethane

Concen: 18.676 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.02 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion:107 Resp: 47445

Ion Ratio Lower Upper

107 100

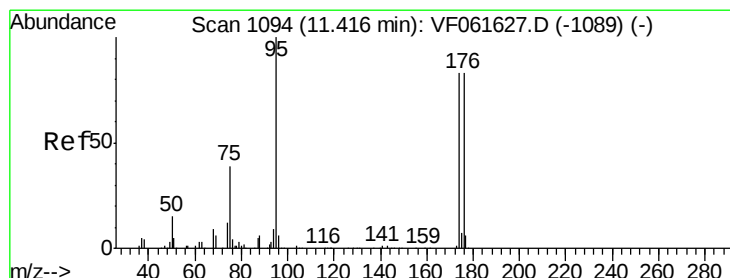
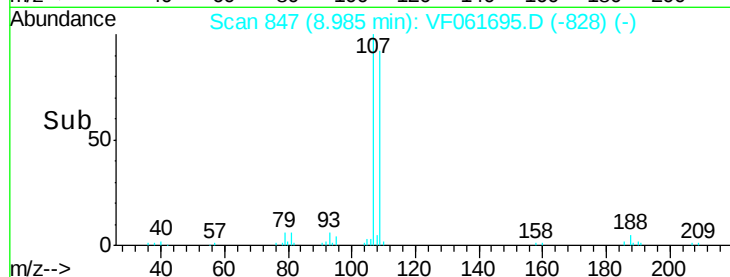
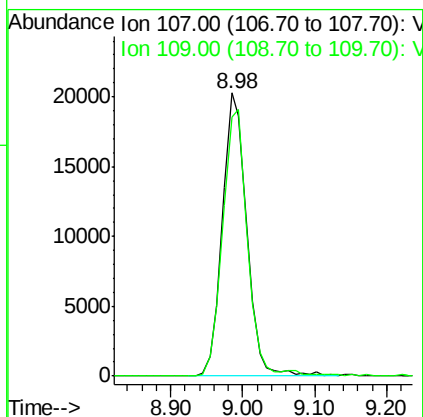
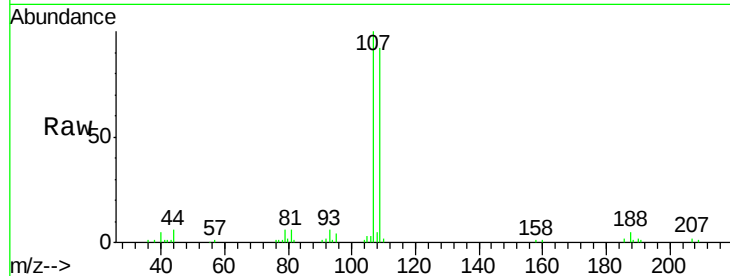
109 91.5 77.4 116.0

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



#62

4-Bromofluorobenzene

Concen: 49.785 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

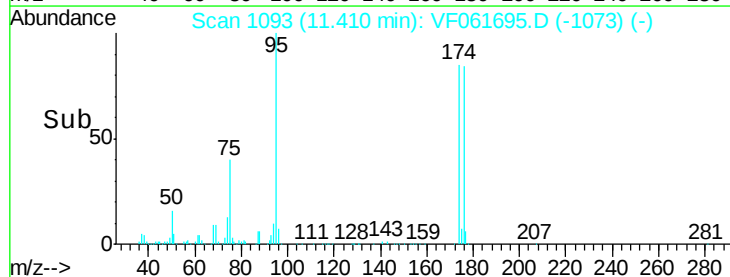
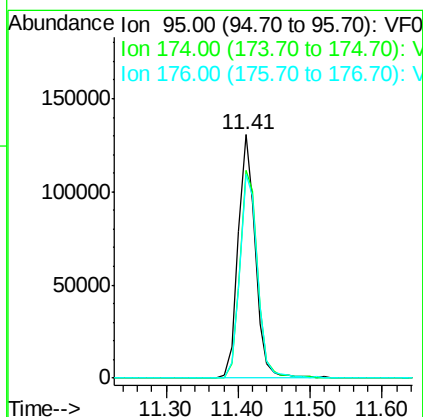
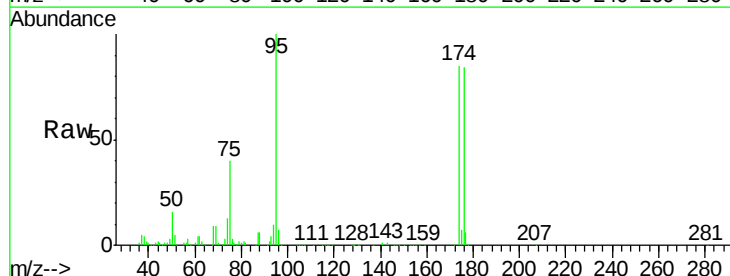
Tgt Ion: 95 Resp: 218146

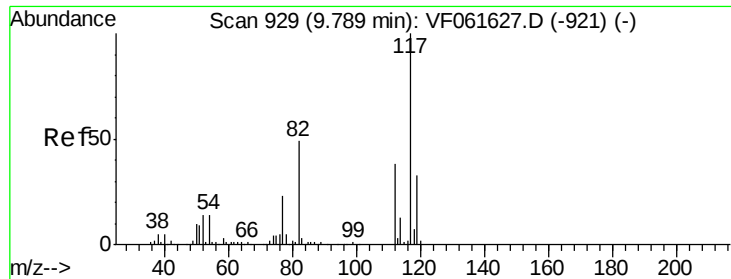
Ion Ratio Lower Upper

95 100

174 85.2 0.0 165.8

176 83.9 0.0 167.0





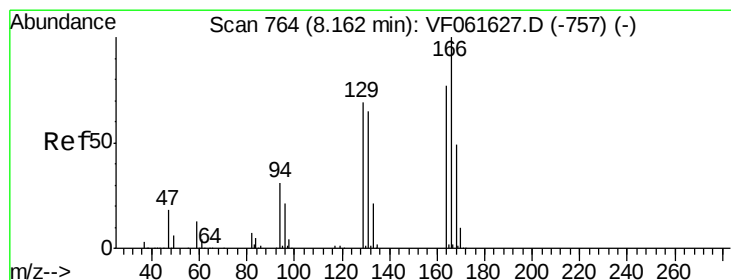
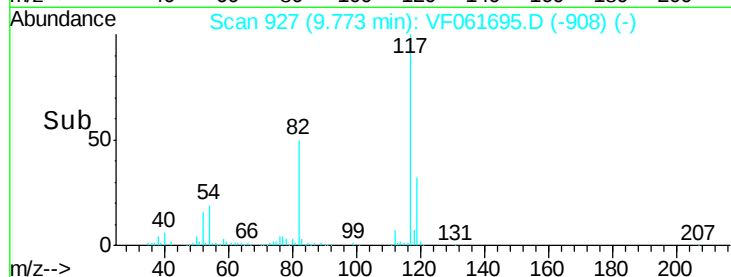
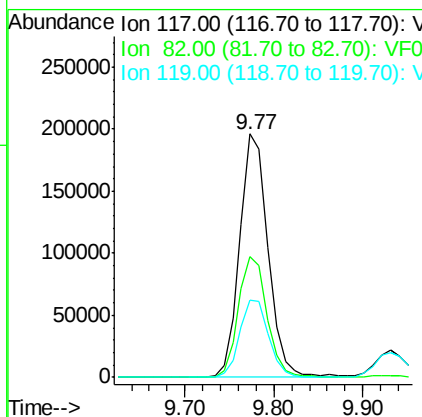
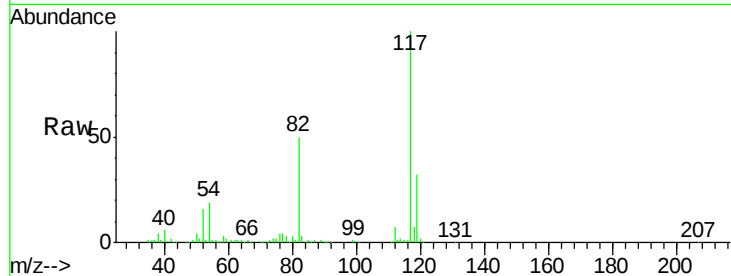
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.5	39.3	58.9
119	31.8	26.6	40.0

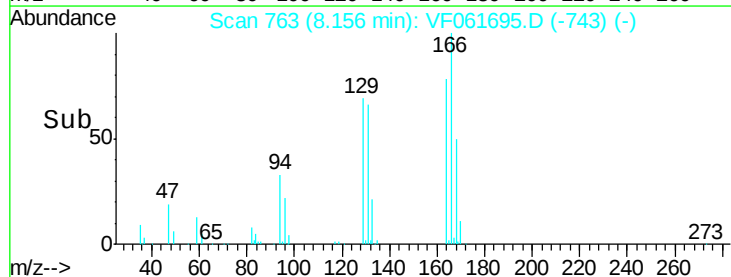
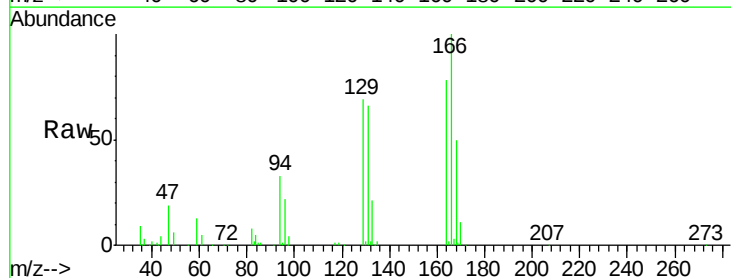
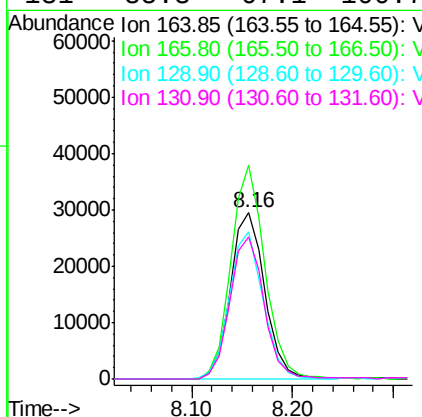
Manual Integrations
APPROVED

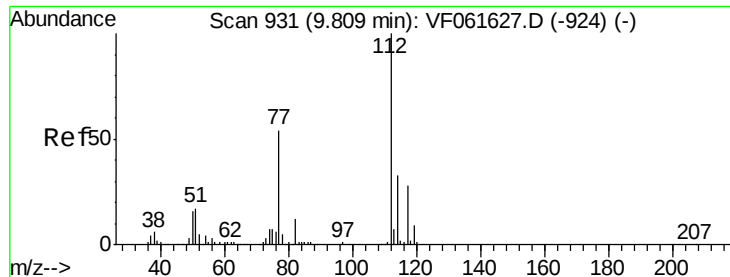
MMDadoda
2/22/2019 12:27:44 PM



#64
Tetrachloroethene
Concen: 19.667 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.5	103.9	155.9
129	88.7	71.3	106.9
131	85.3	67.1	100.7





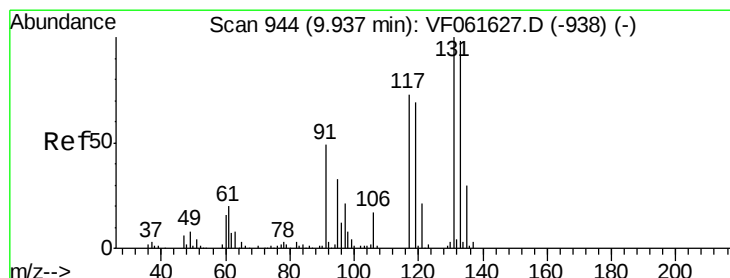
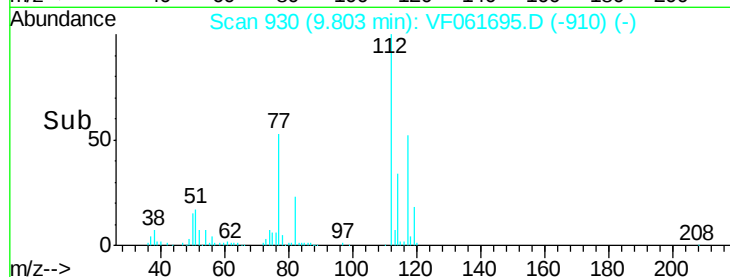
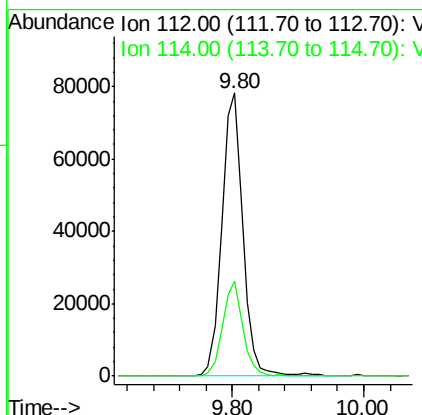
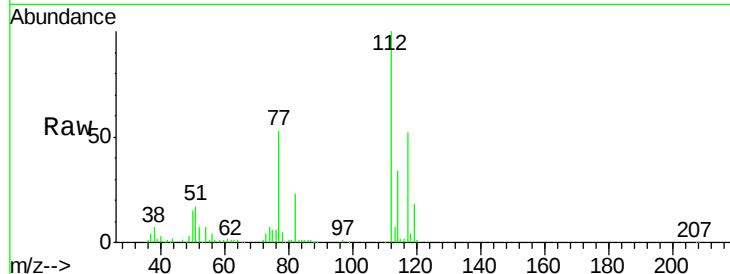
#65
Chlorobenzene
Concen: 19.849 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion:112 Resp: 175266
Ion Ratio Lower Upper
112 100
114 33.6 26.2 39.2

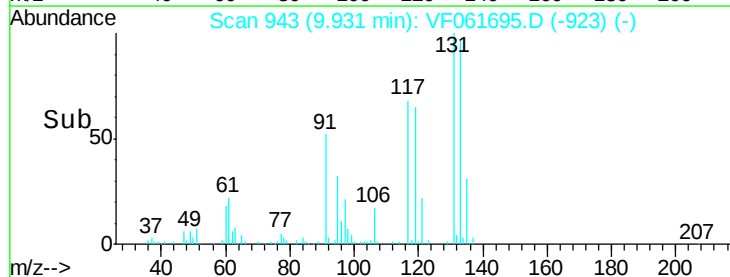
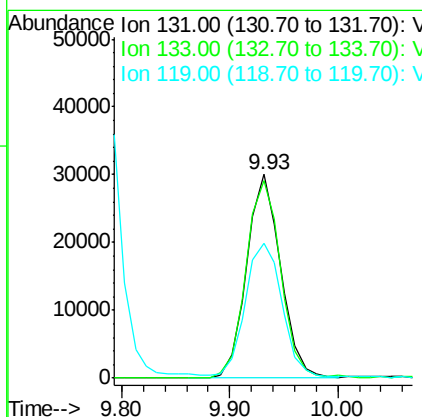
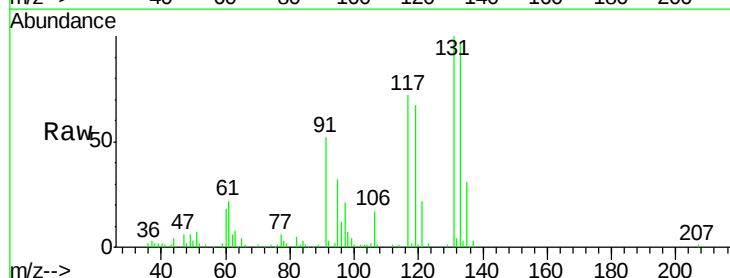
Manual Integrations
APPROVED

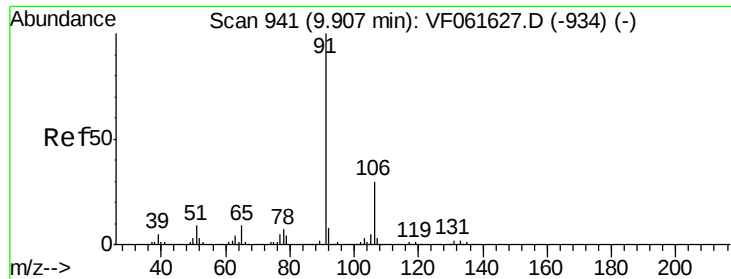
MMDadoda
2/22/2019 12:27:44 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.066 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion:131 Resp: 65969
Ion Ratio Lower Upper
131 100
133 97.1 48.9 146.6
119 66.6 34.8 104.3





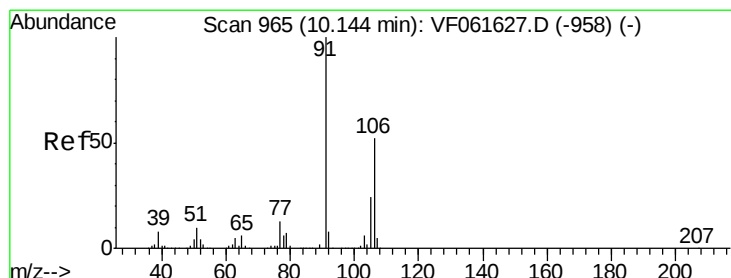
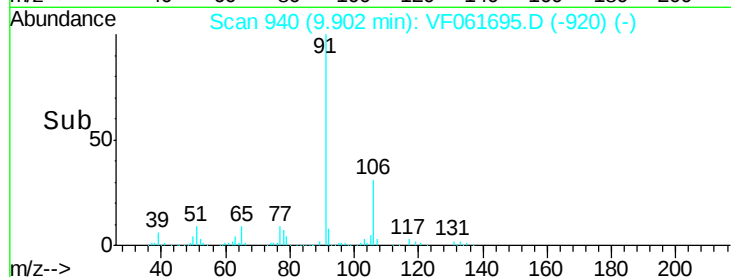
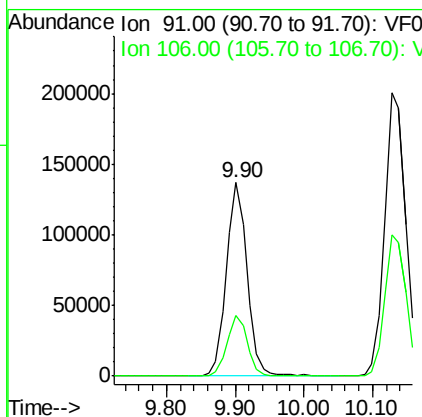
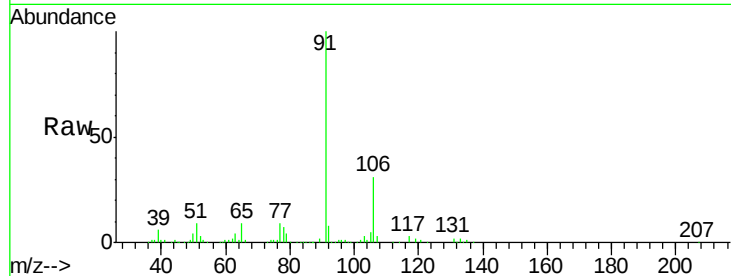
#67
Ethyl Benzene
Concen: 19.463 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion: 91 Resp: 285803
Ion Ratio Lower Upper
91 100
106 31.4 24.1 36.1

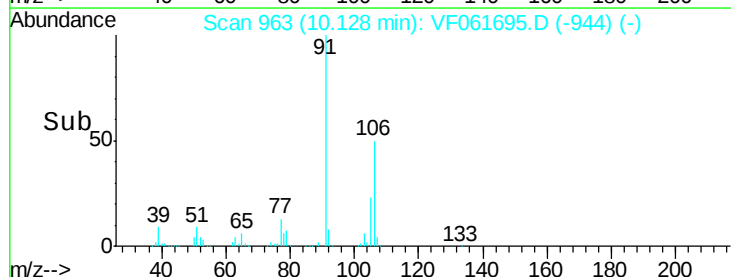
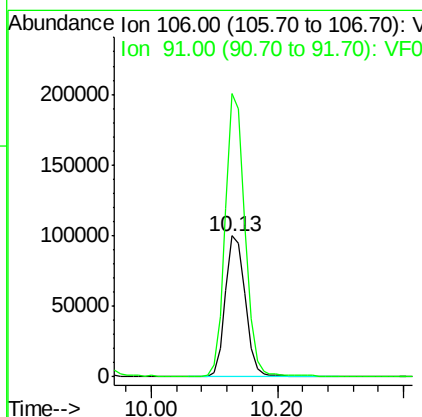
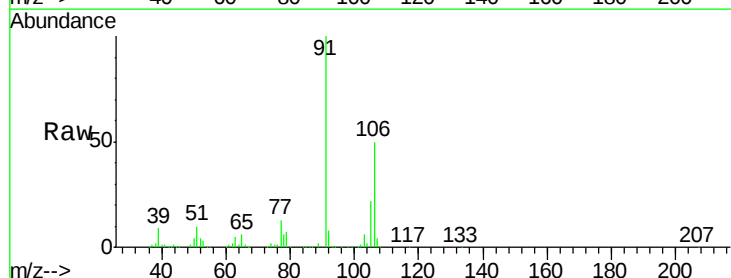
Manual Integrations
APPROVED

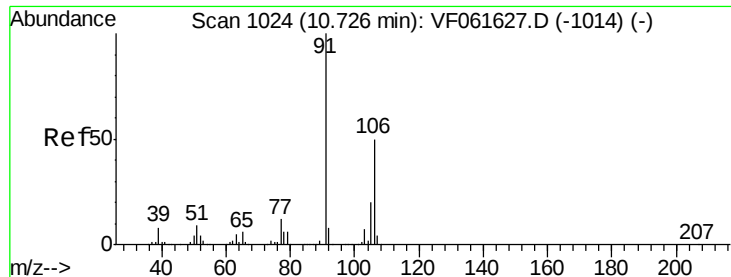
MMDadoda
2/22/2019 12:27:44 PM



#68
m/p-Xylenes
Concen: 39.452 ug/l
RT: 10.13 min Scan# 963
Delta R.T. -0.02 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion: 106 Resp: 221720
Ion Ratio Lower Upper
106 100
91 200.7 153.0 229.6





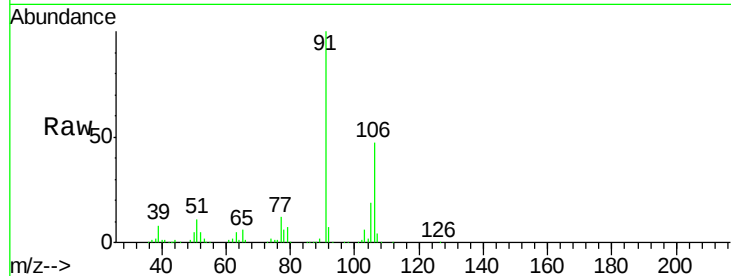
#69
o-Xylene
Concen: 20.322 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.02 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

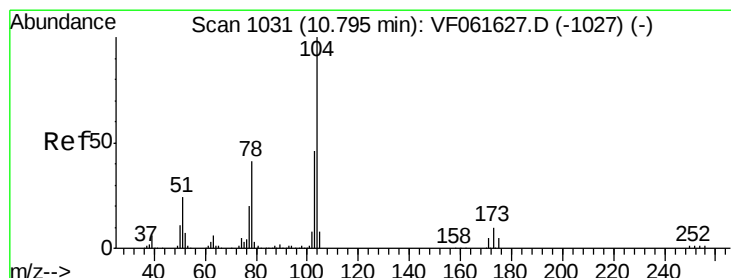
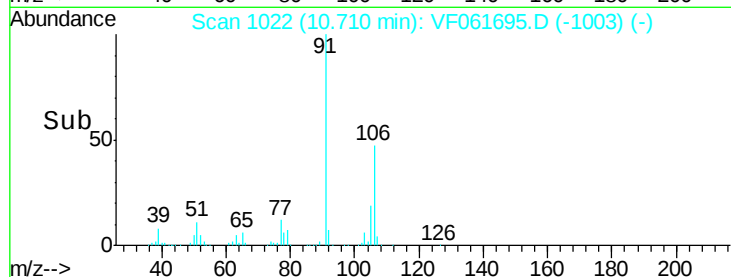
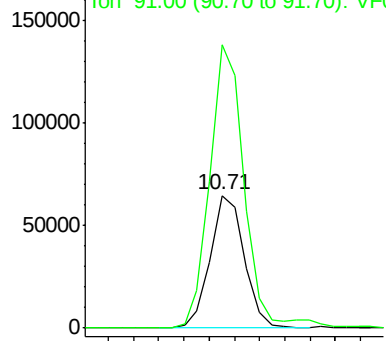
Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	213.5	100.1	300.1		

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM

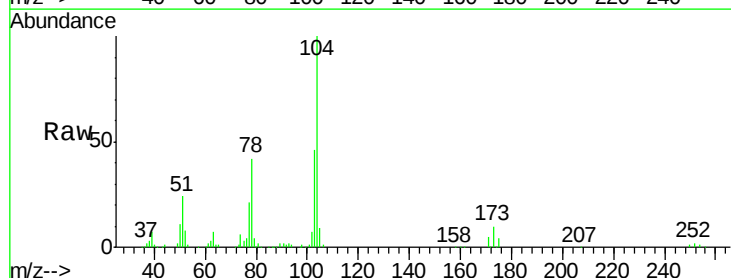


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

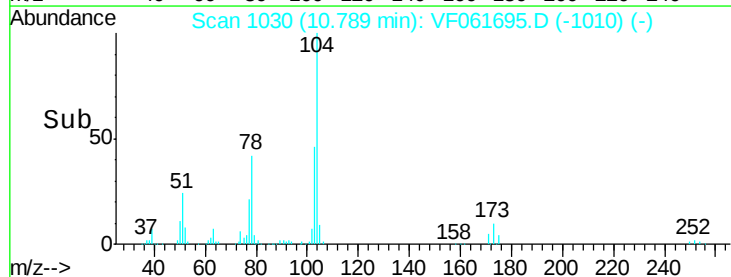
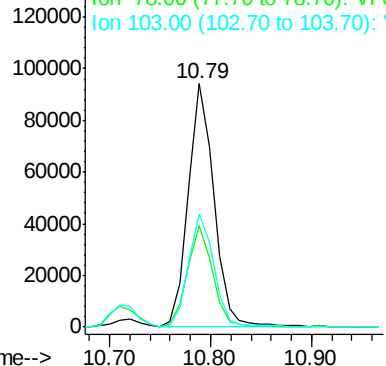


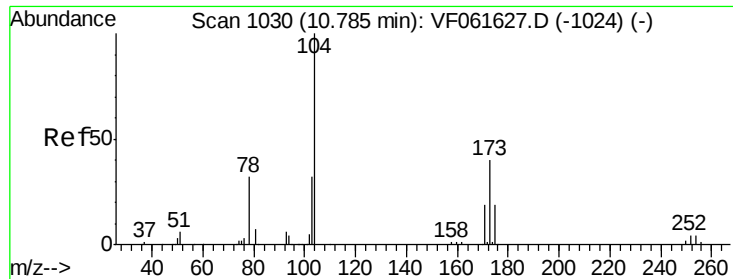
#70
Styrene
Concen: 19.849 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	41.8	33.2	49.8		
103	46.5	37.2	55.8		



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 18.396 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.02 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

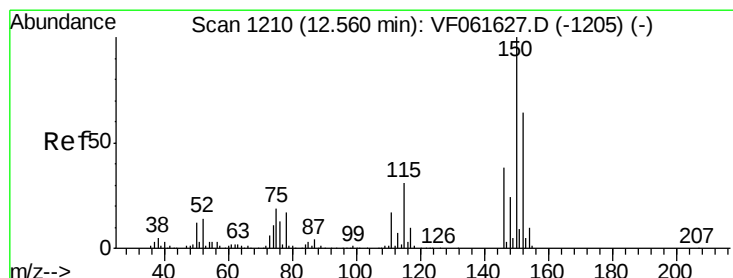
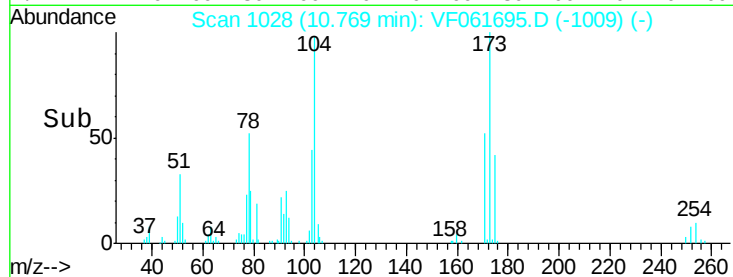
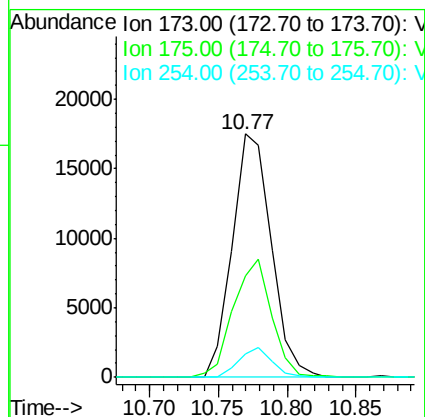
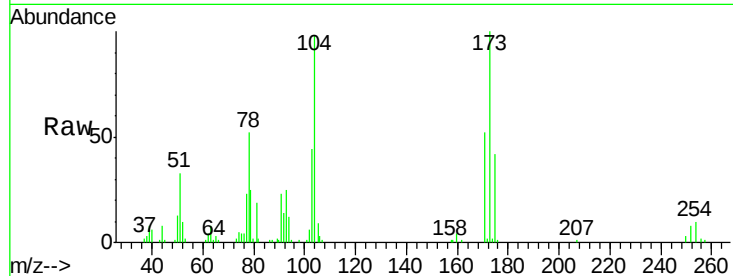
ClientSampleId :

VF0221SBS01

Tot Ion:173 Resp: 34565
 Ion Ratio Lower Upper
 173 100
 175 41.9 24.0 72.0
 254 9.5 8.2 12.2

Manual Integrations
 APPROVED

MMDadoda
 2/22/2019 12:27:44 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

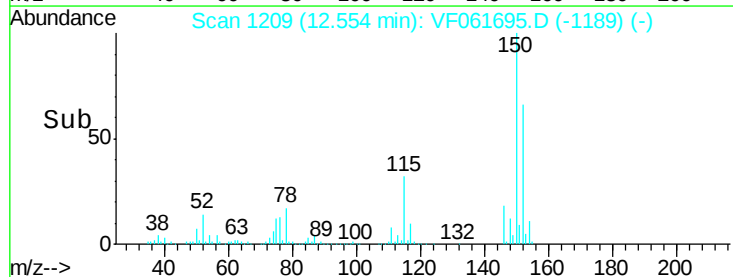
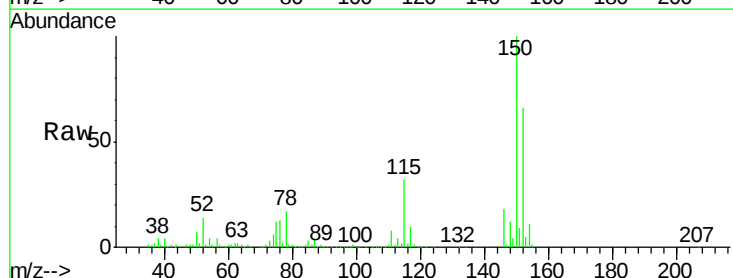
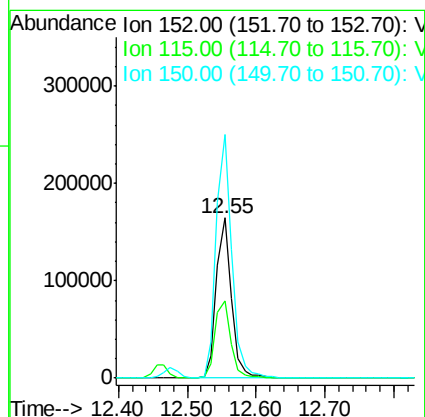
RT: 12.55 min Scan# 1209

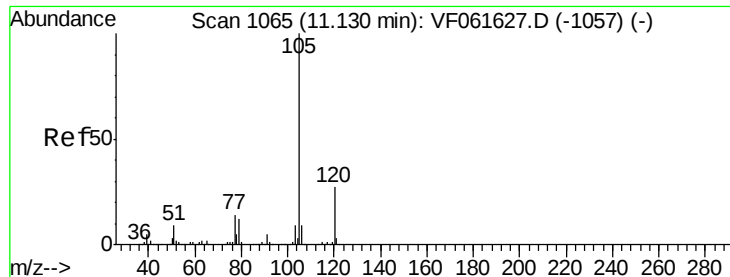
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:152 Resp: 251626
 Ion Ratio Lower Upper
 152 100
 115 48.3 24.3 72.8
 150 152.0 0.0 312.0





#73

Isopropylbenzene

Concen: 19.172 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion:105 Resp: 343476

Ion Ratio Lower Upper

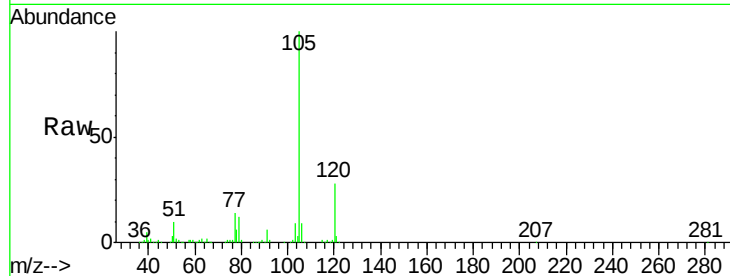
105 100

120 28.1 13.4 40.1

Manual Integrations
APPROVED

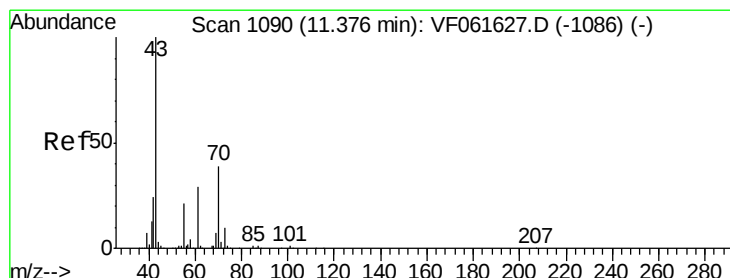
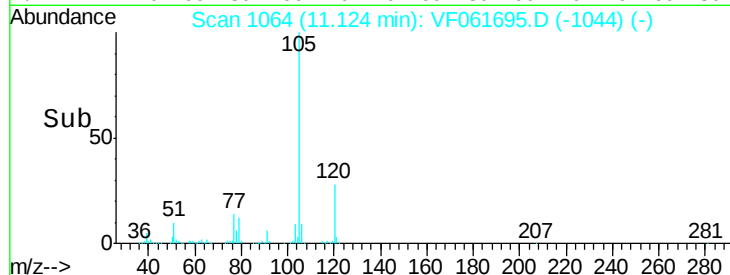
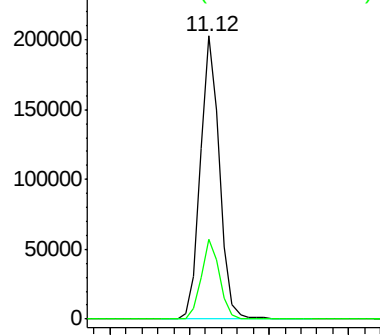
MMDadoda

2/22/2019 12:27:44 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 17.710 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion: 43 Resp: 76153

Ion Ratio Lower Upper

43 100

70 38.5 31.5 47.3

55 20.5 16.7 25.1

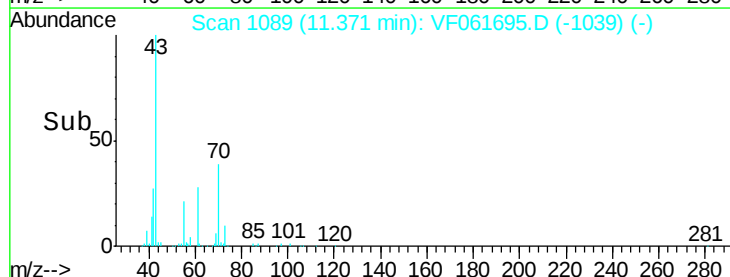
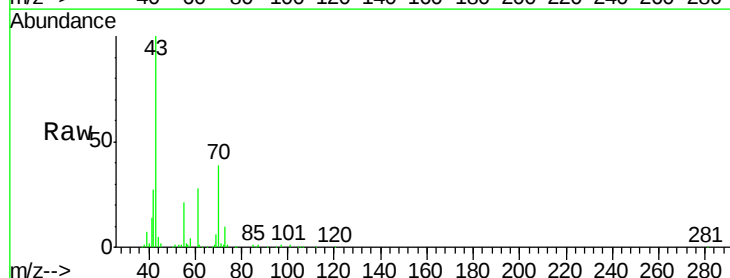
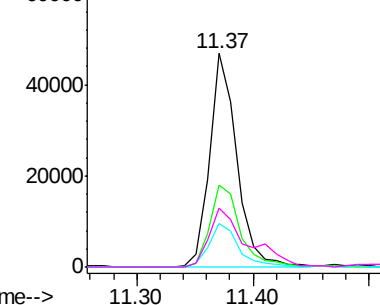
61 27.8 23.0 34.6

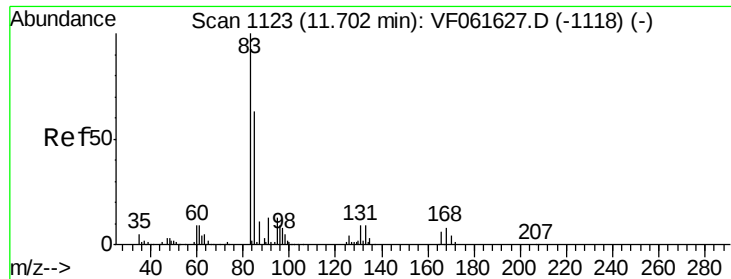
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 17.597 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

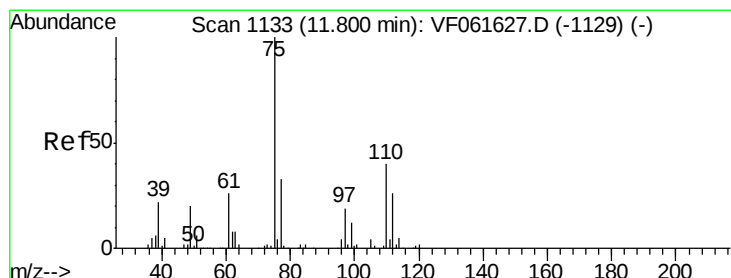
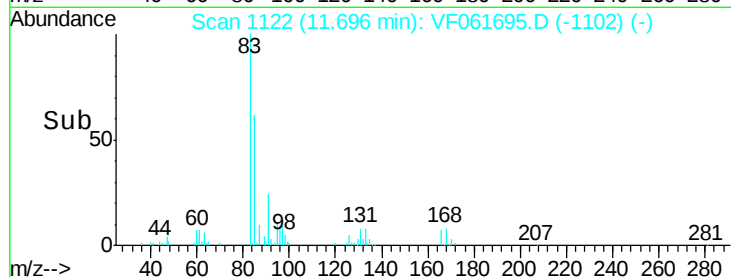
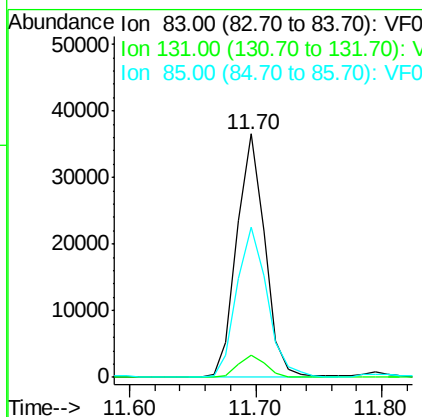
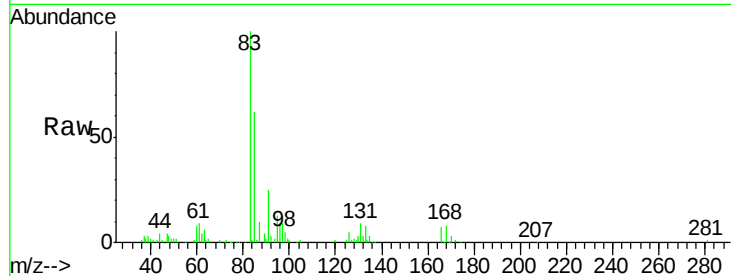
ClientSampleId :

VF0221SBS01

Tot Ion:	83	Resp:	56478
Ion Ratio	Lower	Upper	
83	100		
131	8.9	4.4	13.2
85	61.9	31.5	94.5

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#76

1,2,3-Trichloropropane

Concen: 18.039 ug/l

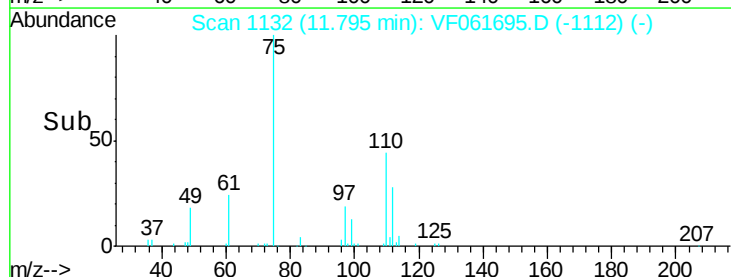
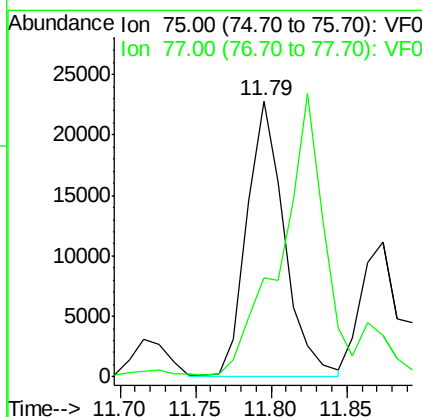
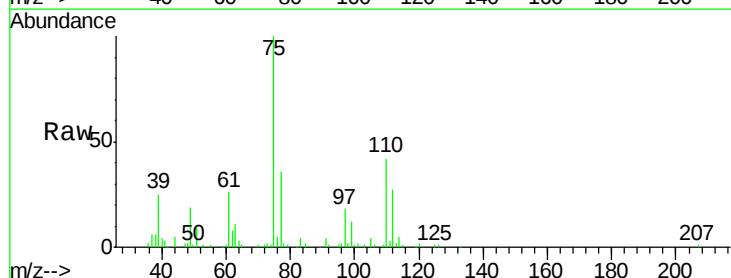
RT: 11.79 min Scan# 1132

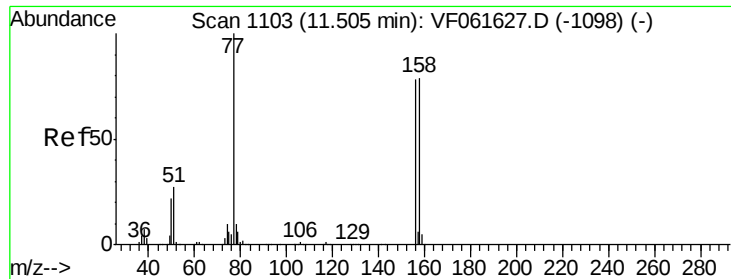
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	75	Resp:	39363
Ion Ratio	Lower	Upper	
75	100		
77	35.7	16.6	49.7





#77

Bromobenzene

Concen: 19.369 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

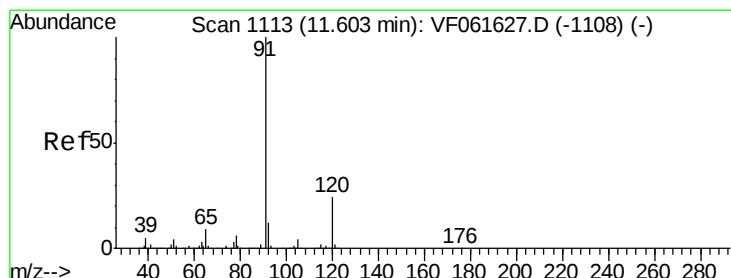
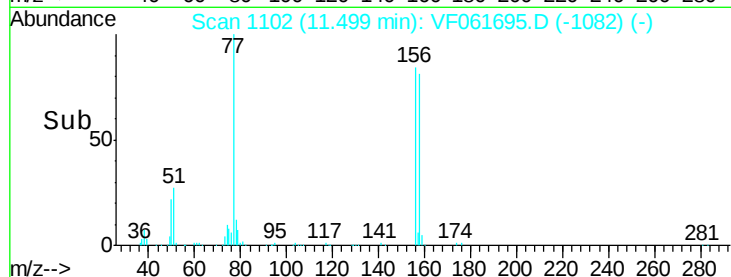
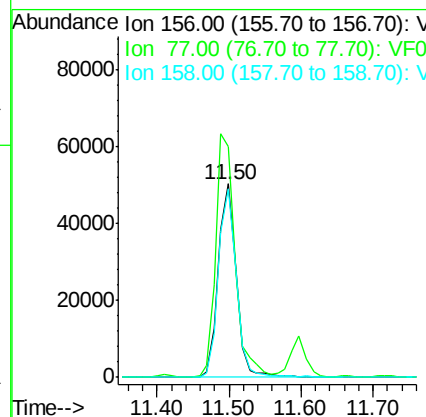
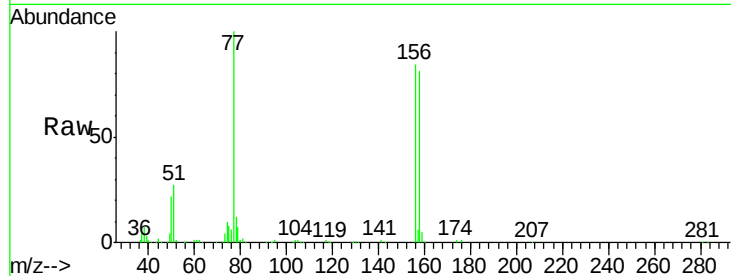
ClientSampleId :

VF0221SBS01

Tot Ion:	156	Resp:	85727
Ion Ratio	Lower	Upper	
156	100		
77	119.3	64.3	192.7
158	97.2	50.9	152.7

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#78

n-propylbenzene

Concen: 20.194 ug/l

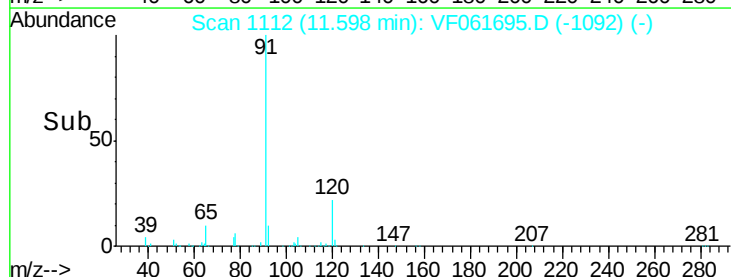
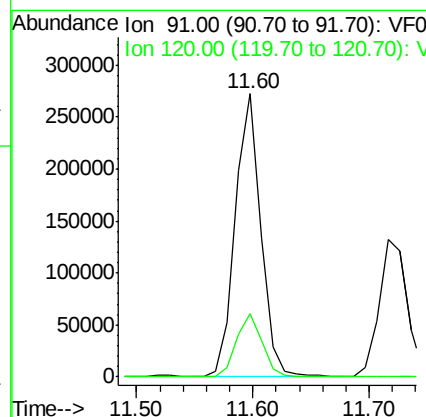
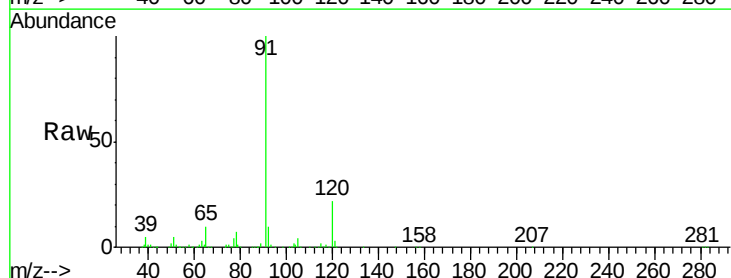
RT: 11.60 min Scan# 1112

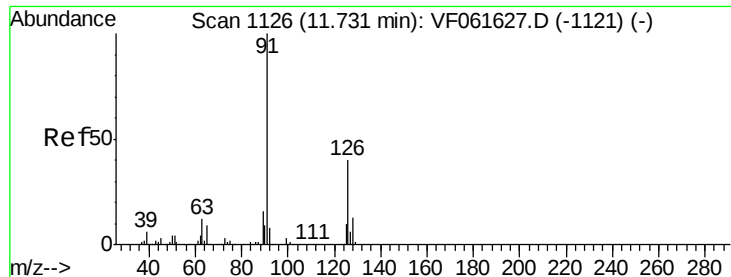
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	91	Resp:	415151
Ion Ratio	Lower	Upper	
91	100		
120	22.4	12.1	36.3





#79

2-Chlorotoluene

Concen: 19.077 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.02 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion: 91 Resp: 219645

Ion Ratio Lower Upper

91 100

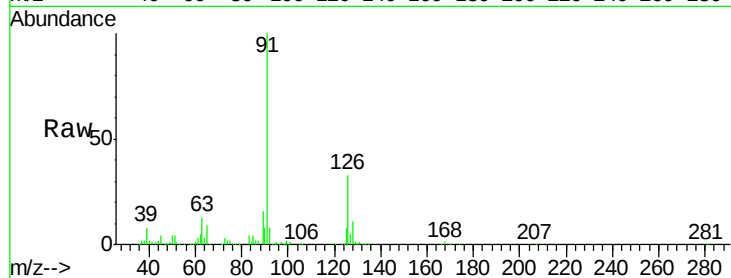
126 33.5 19.8 59.4

Manual Integrations

APPROVED

MMDadoda

2/22/2019 12:27:44 PM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

150000

100000

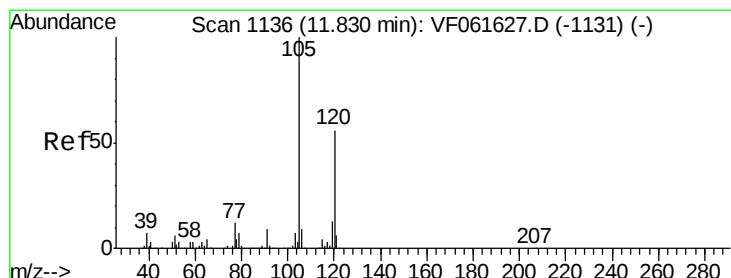
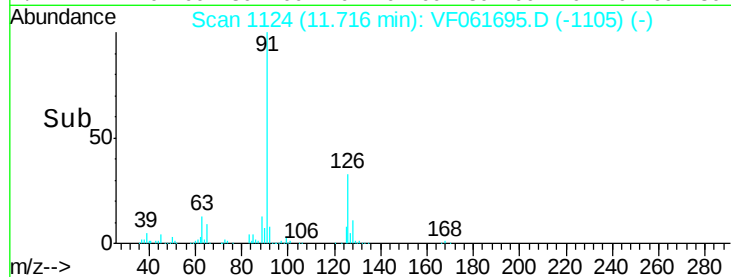
50000

0

11.72

11.70 11.80

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.947 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061695.D

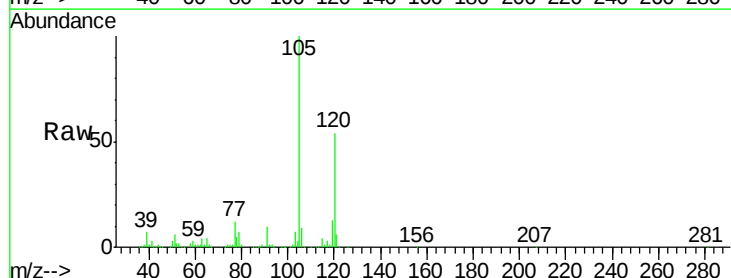
Acq: 21 Feb 2019 13:46

Tgt Ion:105 Resp: 285615

Ion Ratio Lower Upper

105 100

120 54.3 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

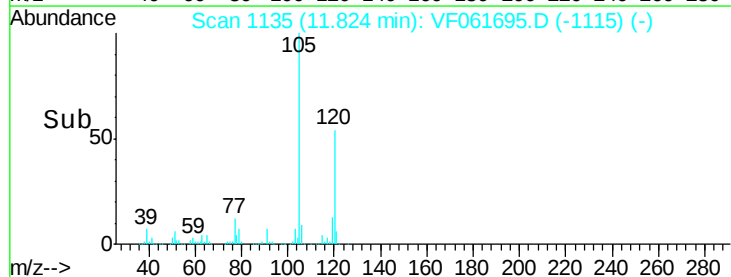
50000

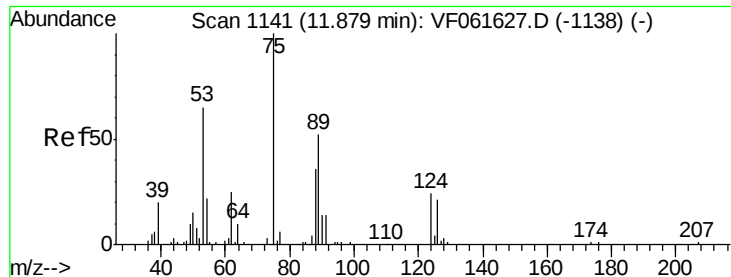
0

11.82

11.70 11.90 12.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 16.246 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

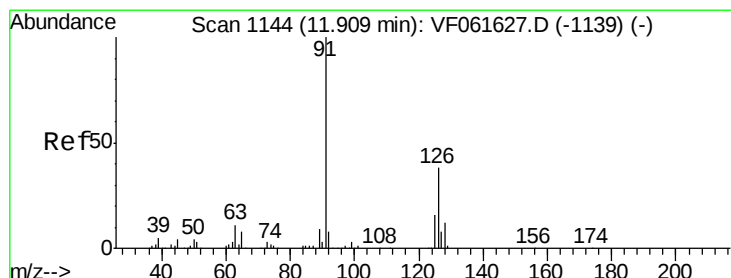
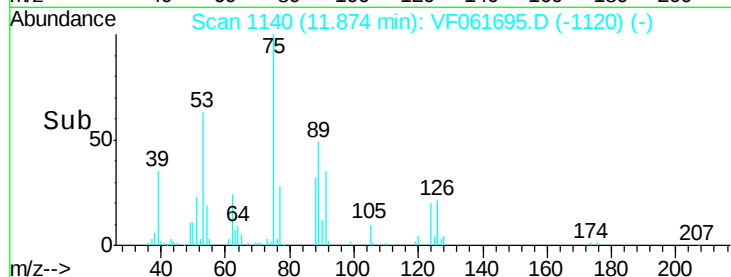
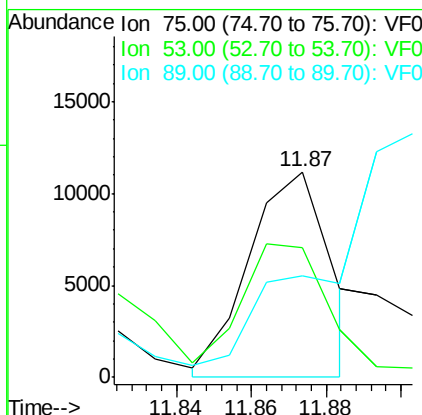
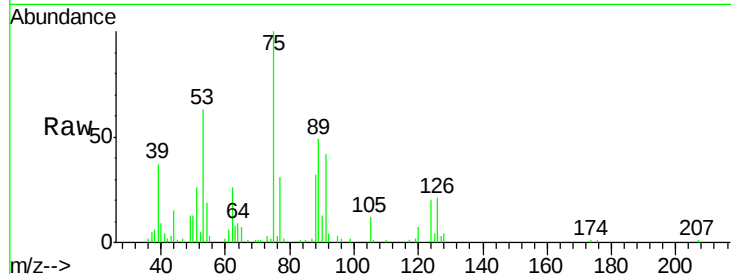
ClientSampleId :

VF0221SBS01

Tot Ion:	75	Resp:	16996
Ion	Ratio	Lower	Upper
75	100		
53	63.0	53.7	80.5
89	49.2	41.6	62.4

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#82

4-Chlorotoluene

Concen: 19.027 ug/l

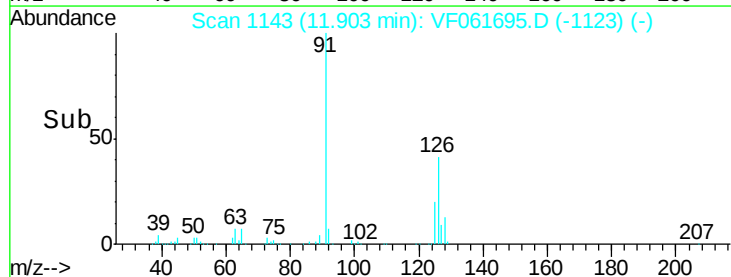
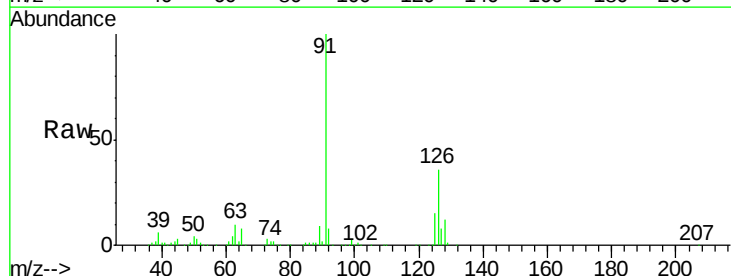
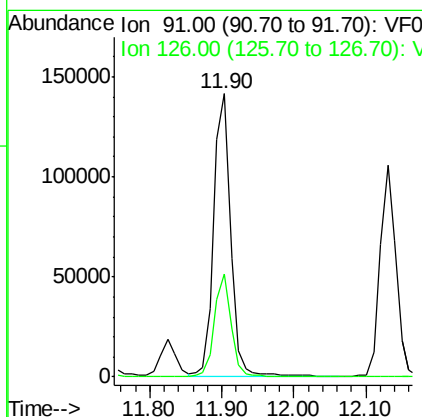
RT: 11.90 min Scan# 1143

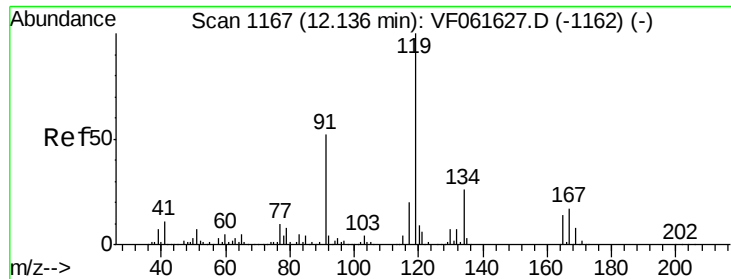
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	91	Resp:	227378
Ion	Ratio	Lower	Upper
91	100		
126	36.4	19.1	57.1





#83

tert-Butylbenzene

Concen: 19.357 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

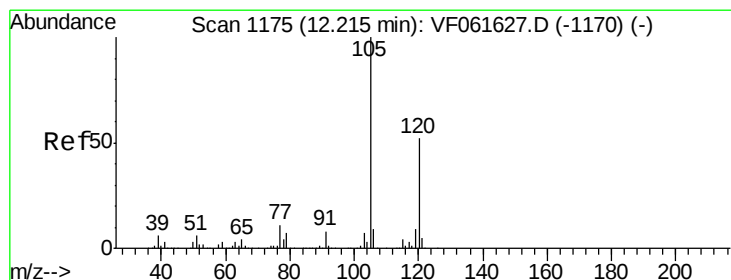
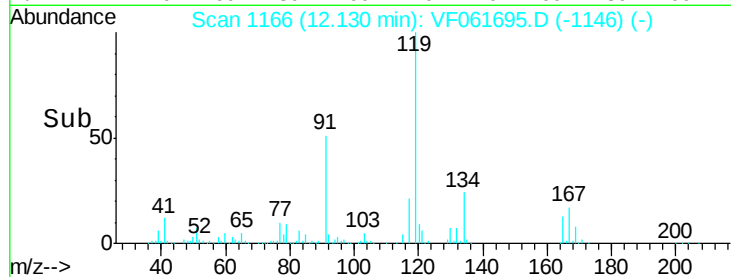
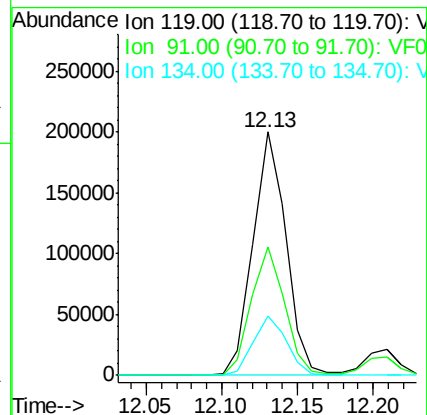
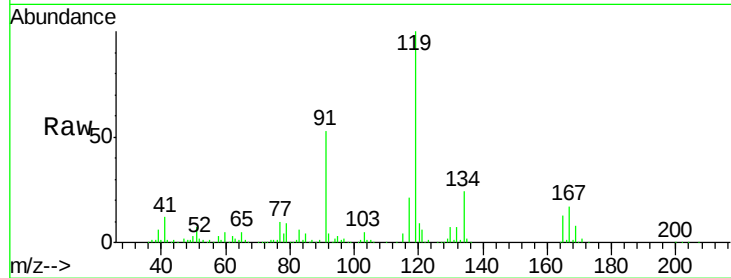
ClientSampleID :

VF0221SBS01

Tot Ion:	119	Resp:	306988
Ion Ratio	Lower	Upper	
119	100		
91	53.0	26.3	78.8
134	24.1	12.9	38.7

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#84

1,2,4-Trimethylbenzene

Concen: 19.331 ug/l

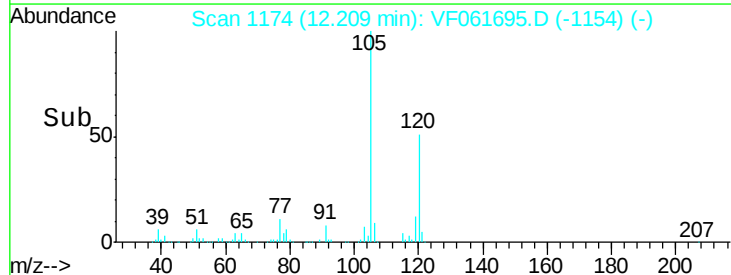
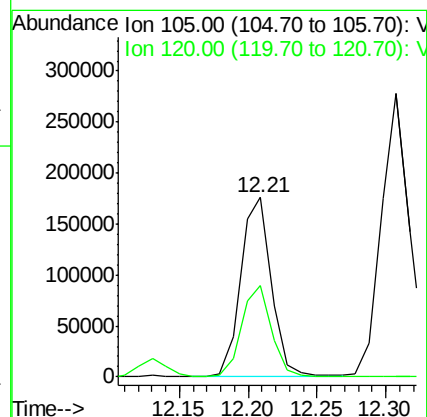
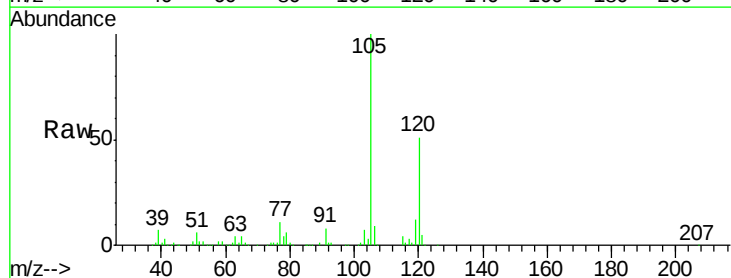
RT: 12.21 min Scan# 1174

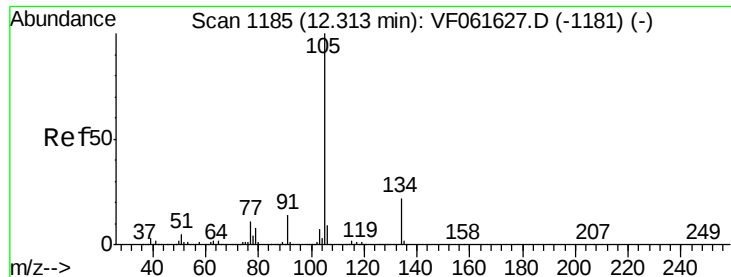
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	105	Resp:	274983
Ion Ratio	Lower	Upper	
105	100		
120	51.3	26.1	78.3





#85

sec-Butylbenzene

Concen: 19.373 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

ClientSampleId :

VF0221SBS01

Tot Ion:105 Resp: 397311

Ion Ratio Lower Upper

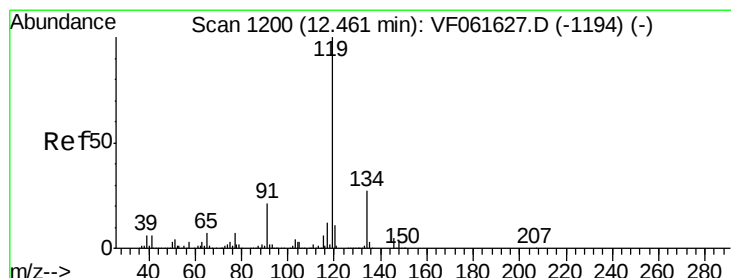
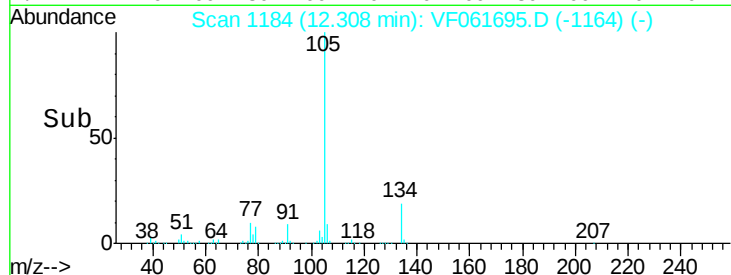
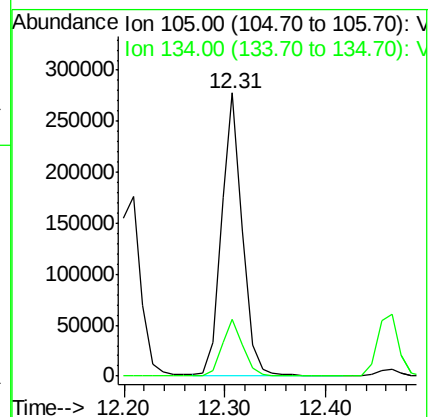
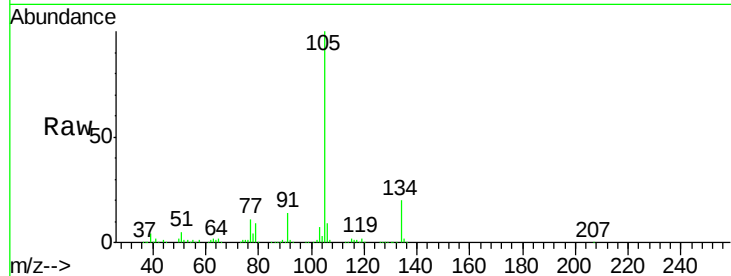
105 100

134 20.1 10.8 32.4

Manual Integrations
APPROVED

MMDadoda

2/22/2019 12:27:44 PM



#86

p-Isopropyltoluene

Concen: 20.594 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

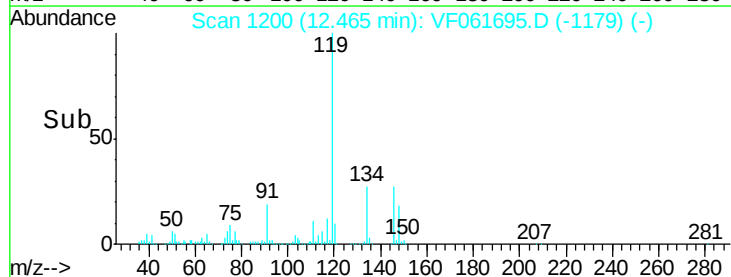
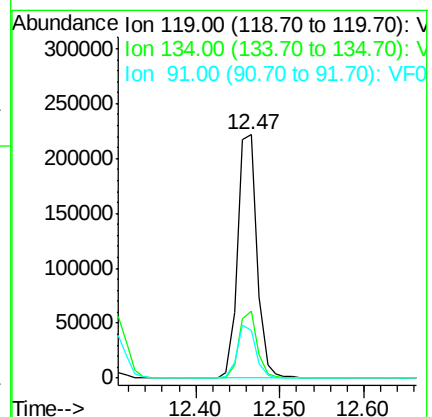
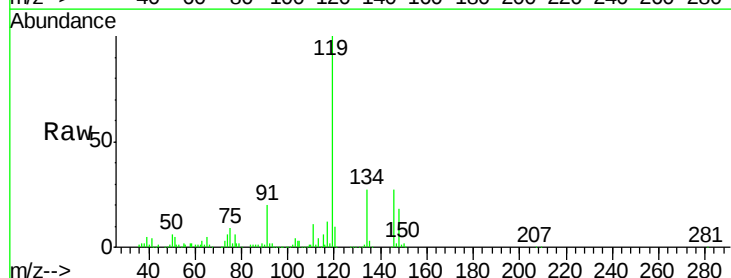
Tgt Ion:119 Resp: 354457

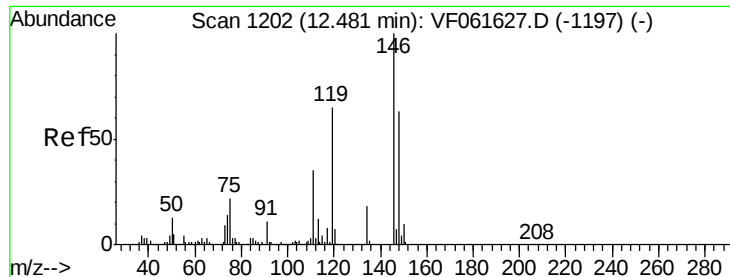
Ion Ratio Lower Upper

119 100

134 27.4 13.7 41.1

91 19.5 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 19.397 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Instrument :

MSVOA_F

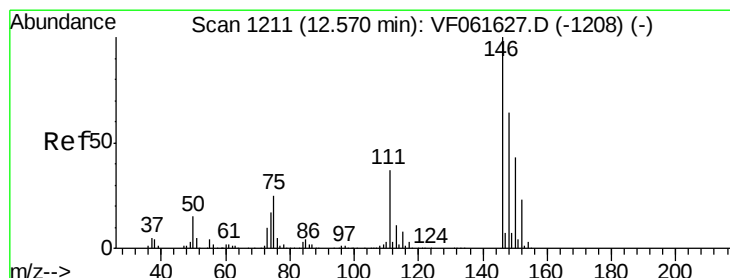
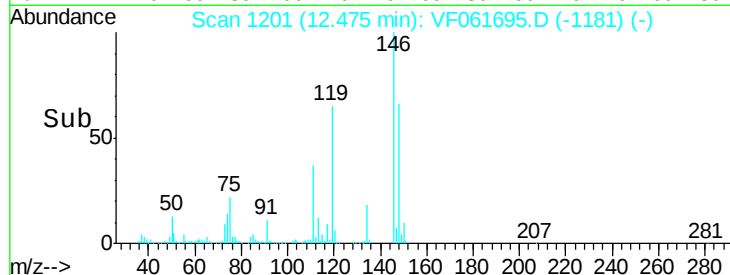
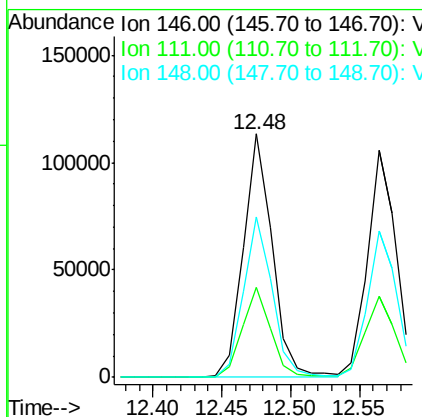
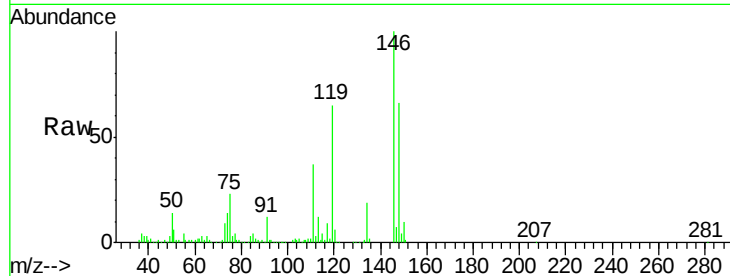
ClientSampled :

VF0221SBS01

Tot Ion:	146	Resp:	167364
Ion Ratio	Lower	Upper	
146	100		
111	37.1	17.5	52.6
148	65.8	31.4	94.3

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#88

1,4-Dichlorobenzene

Concen: 19.051 ug/l

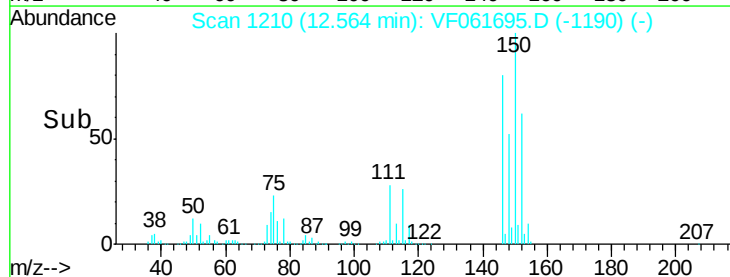
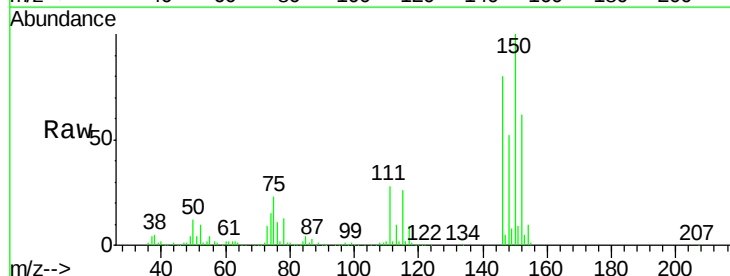
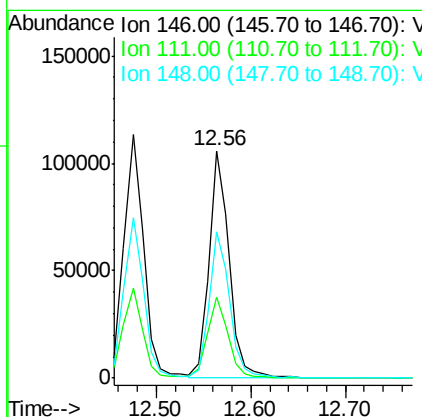
RT: 12.56 min Scan# 1210

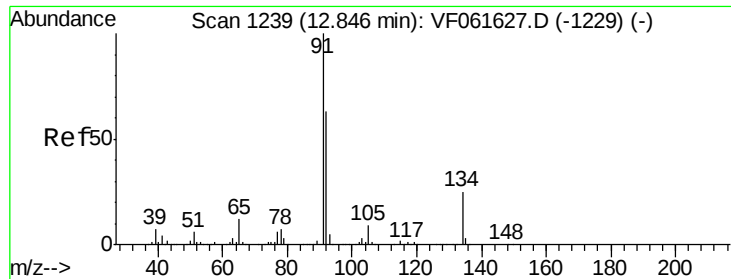
Delta R.T. -0.01 min

Lab File: VF061695.D

Acq: 21 Feb 2019 13:46

Tgt Ion:	146	Resp:	158083
Ion Ratio	Lower	Upper	
146	100		
111	35.5	18.4	55.4
148	64.5	32.2	96.6





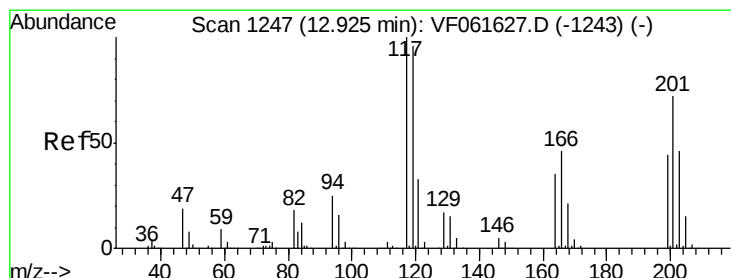
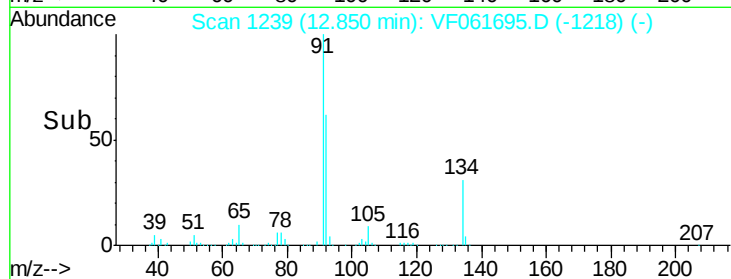
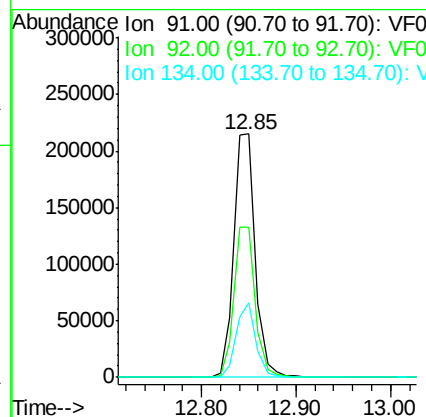
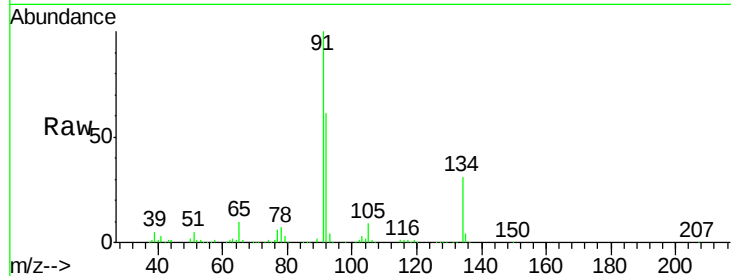
#89
n-Butylbenzene
Concen: 20.841 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.4	31.4	94.3
134	30.8	12.3	36.9

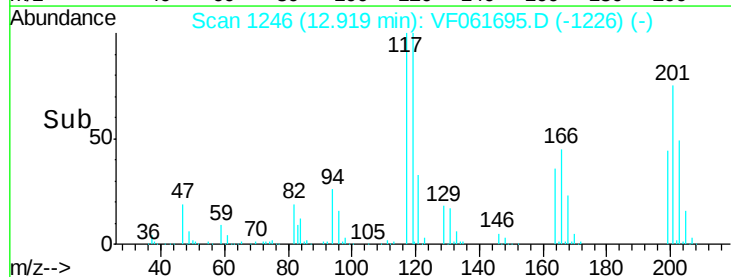
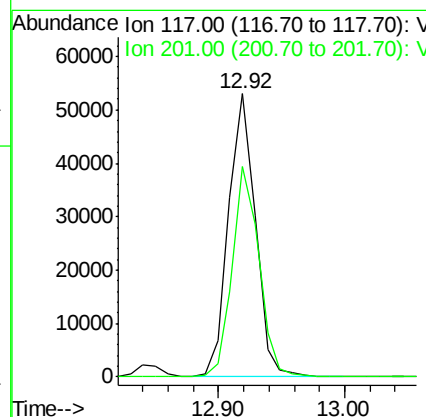
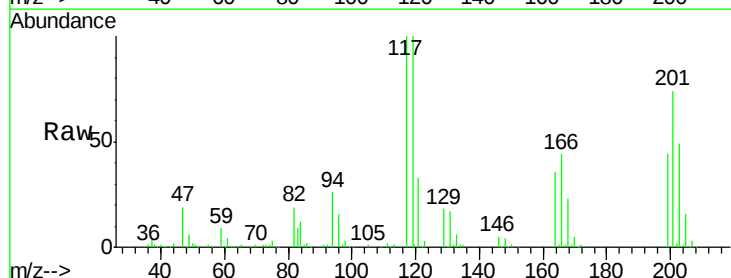
Manual Integrations
APPROVED

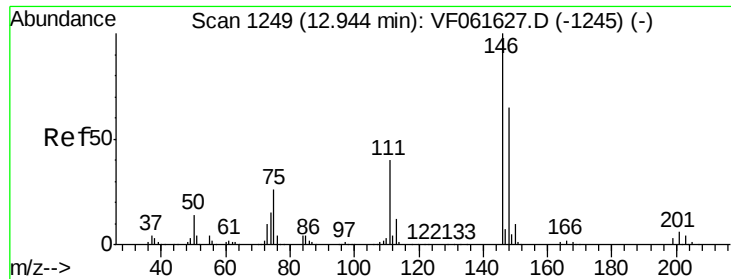
MMDadoda
2/22/2019 12:27:44 PM



#90
Hexachloroethane
Concen: 19.540 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.3	36.2	108.6





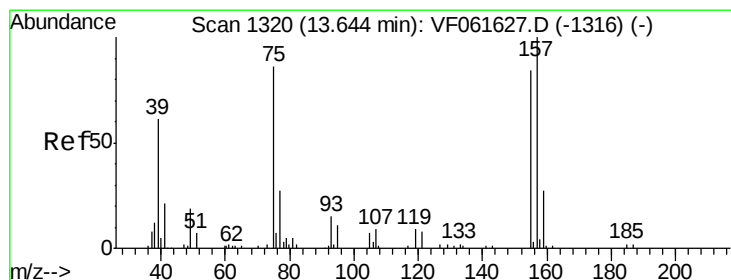
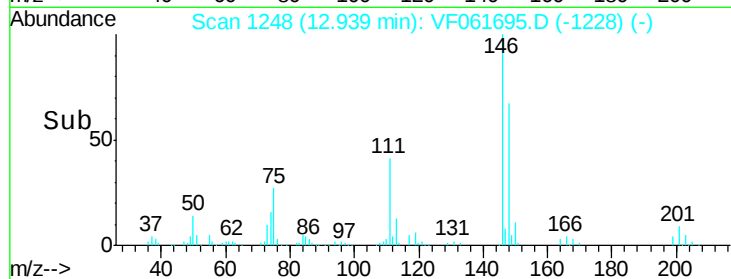
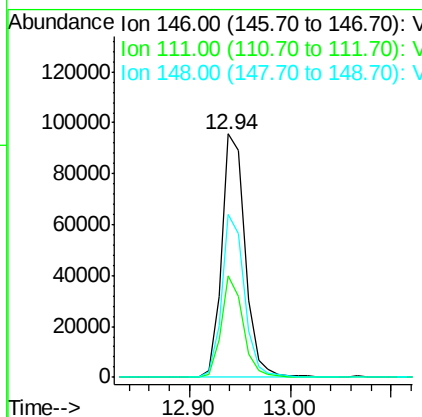
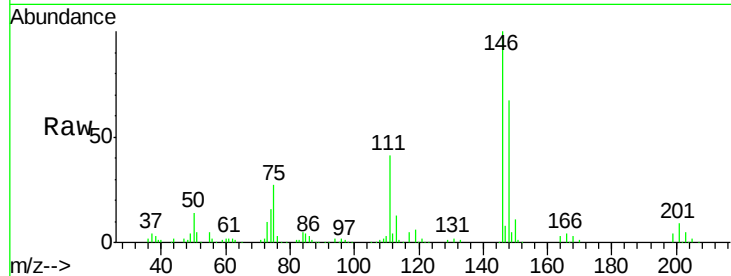
#91
 1,2-Dichlorobenzene
 Concen: 19.042 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061695.D
 Acq: 21 Feb 2019 13:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0221SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.5
148	66.8	32.3	96.9

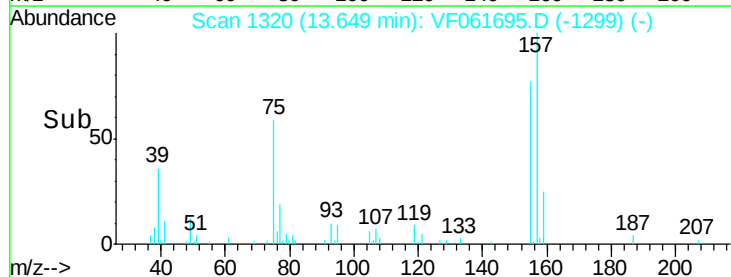
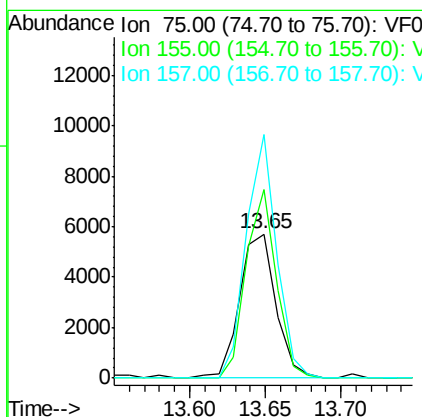
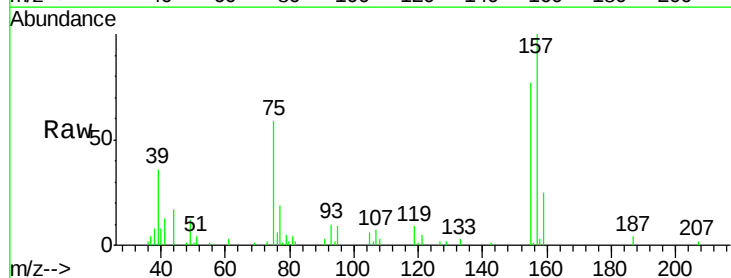
Manual Integrations
 APPROVED

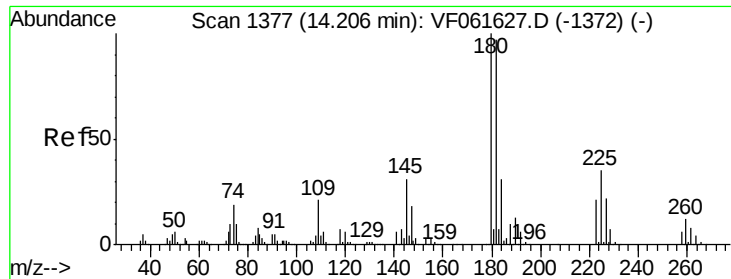
MMDadoda
 2/22/2019 12:27:44 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.751 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061695.D
 Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Lower	Upper
75	100		
155	130.4	48.9	146.8
157	168.7	58.3	174.8





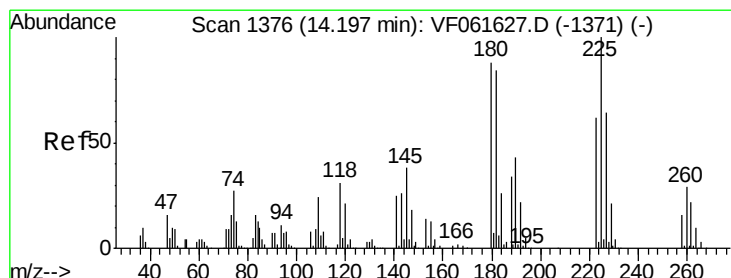
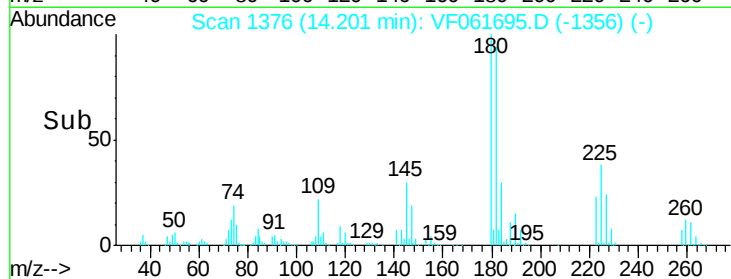
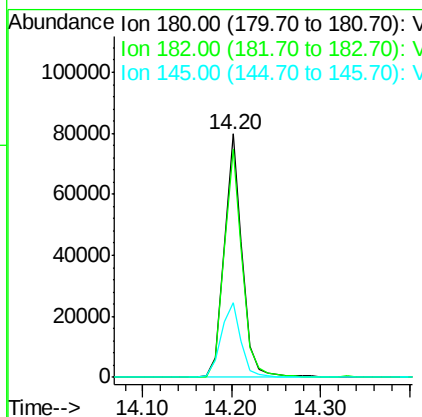
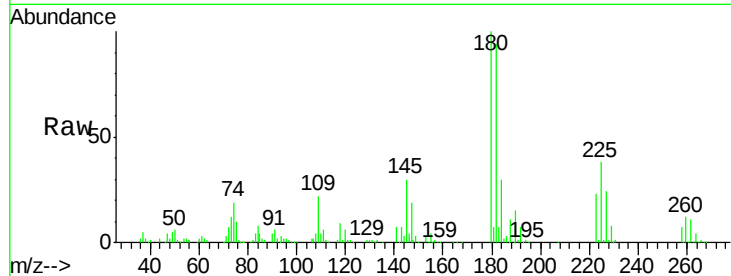
#93
 1,2,4-Trichlorobenzene
 Concen: 19.224 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061695.D
 Acq: 21 Feb 2019 13:46

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0221SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	113084		
182	93.6	48.6	145.9	
145	30.4	15.3	45.9	

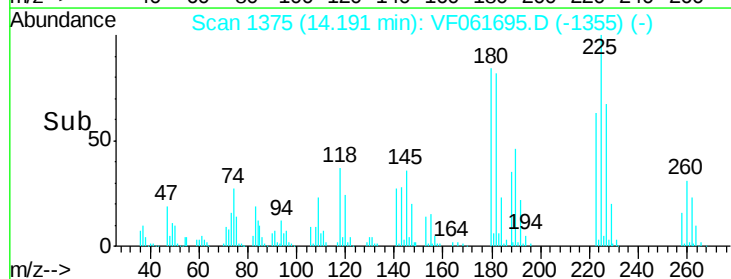
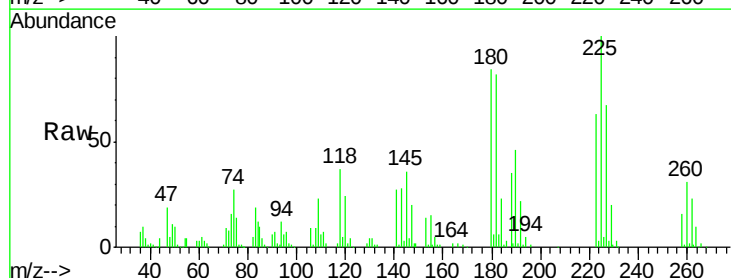
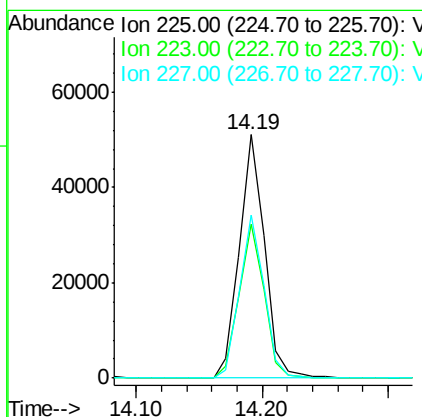
Manual Integrations
 APPROVED

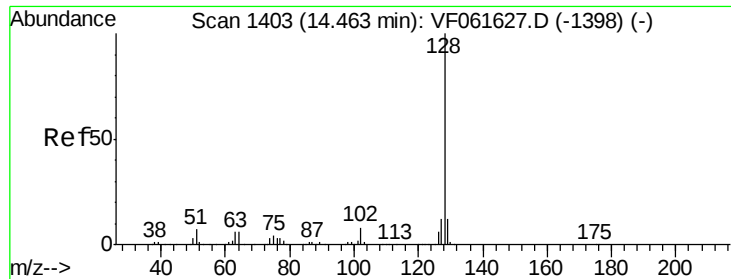
MMDadoda
 2/22/2019 12:27:44 PM



#94
 Hexachlorobutadiene
 Concen: 19.437 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061695.D
 Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	70615		
223	63.4	30.9	92.7	
227	66.7	32.1	96.3	





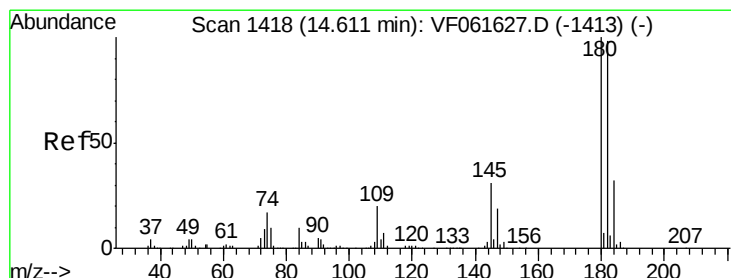
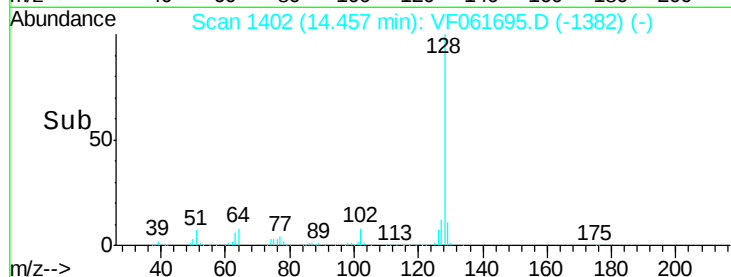
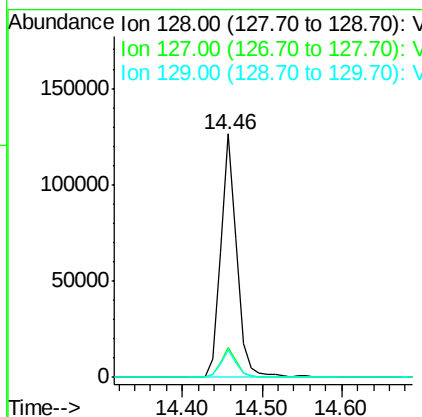
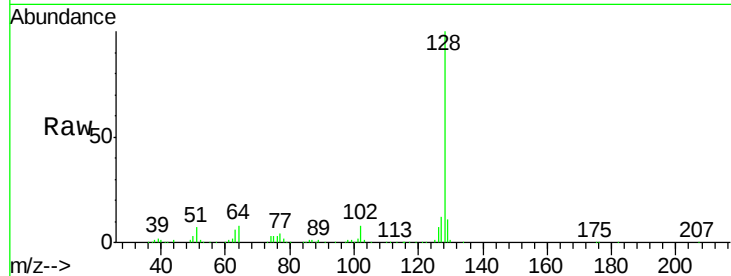
#95
Naphthalene
Concen: 17.439 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Instrument :
MSVOA_F
ClientSampleId :
VF0221SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	179484		
127	12.5		9.8	14.6
129	11.5		9.4	14.2

Manual Integrations
APPROVED

MMDadoda
2/22/2019 12:27:44 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.185 ug/l
RT: 14.61 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF061695.D
Acq: 21 Feb 2019 13:46

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	98186		
182	97.6		49.0	147.2
145	30.7		15.4	46.1

