

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062186.D
 Acq On : 16 Apr 2019 20:08
 Operator : FY/SY
 Sample : VF0416SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 11:49:37 AM

Quant Time: Apr 17 08:38:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:56:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	362598	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	548928	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	421351	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	232576	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	169225	51.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.66%	
35) Dibromofluoromethane	4.31	113	238861	55.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.32%	
50) Toluene-d8	7.71	98	606517	47.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.86%	
62) 4-Bromofluorobenzene	11.50	95	233054	46.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.28%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	137200	25.790	ug/l	100
3) Chloromethane	1.15	50	142125	24.824	ug/l	98
4) Vinyl Chloride	1.20	62	129204	25.794	ug/l	99
5) Bromomethane	1.36	94	66359	20.601	ug/l	95
6) Chloroethane	1.44	64	48379	20.398	ug/l	98
7) Trichlorofluoromethane	1.55	101	146729	24.491	ug/l	92
8) Diethyl Ether	1.71	74	28830	23.838	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.91	101	105026	26.841	ug/l	96
10) Methyl Iodide	1.98	142	178930	24.565	ug/l	98
11) Tert butyl alcohol	2.68	59	23211	128.245	ug/l #	89
12) 1,1-Dichloroethene	1.88	96	99194	24.926	ug/l	97
13) Acrolein	2.10	56	20575	144.316	ug/l	92
14) Allyl chloride	2.20	41	169370	28.266	ug/l	96
15) Acrylonitrile	3.09	53	86716	128.944	ug/l	95
16) Acetone	2.35	43	79025	107.342	ug/l	96
17) Carbon Disulfide	1.91	76	277967	24.658	ug/l	99
18) Methyl Acetate	2.47	43	41155	22.812	ug/l	95
19) Methyl tert-butyl Ether	2.55	73	171783	25.952	ug/l	95
20) Methylene Chloride	2.29	84	122203m	32.778	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	96761	25.413	ug/l	95
22) Diisopropyl ether	2.94	45	280754	25.206	ug/l	99
23) Vinyl Acetate	3.35	43	635654	114.409	ug/l	98
24) 1,1-Dichloroethane	3.02	63	157669	25.420	ug/l	99
25) 2-Butanone	4.53	43	162949	103.039	ug/l	100
26) 2,2-Dichloropropane	3.78	77	85319	26.152	ug/l	97
27) cis-1,2-Dichloroethene	3.65	96	120226	23.787	ug/l	93
28) Bromochloromethane	3.91	49	71720	24.147	ug/l	92
29) Tetrahydrofuran	4.27	42	77853	110.685	ug/l	98
30) Chloroform	4.05	83	183880	23.845	ug/l	93
31) Cyclohexane	3.88	56	187900	23.448	ug/l	99
32) 1,1,1-Trichloroethane	4.29	97	139829	26.592	ug/l	98
36) 1,1-Dichloropropene	4.48	75	142160	23.309	ug/l	99
37) Ethyl Acetate	4.30	43	62659	22.296	ug/l #	77
38) Carbon Tetrachloride	4.19	117	141007m	26.861	ug/l	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	172689	22.594	ug/l	96
40) Benzene	4.82	78	383393	23.798	ug/l	100
41) Methacrylonitrile	4.93	41	38820	22.990	ug/l	98
42) 1,2-Dichloroethane	5.13	62	92110	22.590	ug/l	98
43) Isopropyl Acetate	7.12	43	66527	20.490	ug/l #	98
44) Trichloroethene	5.69	130	97492	22.609	ug/l	96
45) 1,2-Dichloropropane	6.41	63	85534	21.642	ug/l	96
46) Dibromomethane	6.26	93	50729	21.286	ug/l	89
47) Bromodichloromethane	6.56	83	119651	22.161	ug/l	96
48) Methyl methacrylate	6.87	41	41727	19.628	ug/l	96
49) 1,4-Dioxane	6.87	88	8232	496.915	ug/l #	78
51) 4-Methyl-2-Pentanone	8.40	43	260515	104.121	ug/l	98
52) Toluene	7.78	92	200108	21.144	ug/l	96
53) t-1,3-Dichloropropene	8.42	75	86912	18.584	ug/l	99
54) cis-1,3-Dichloropropene	7.46	75	126543	21.279	ug/l	98
55) 1,1,2-Trichloroethane	8.64	97	50150	18.501	ug/l	97
56) Ethyl methacrylate	8.76	69	64932	20.145	ug/l	93
57) 1,3-Dichloropropane	8.99	76	85865	19.268	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.46	63	80780	97.272	ug/l	100
59) 2-Hexanone	9.62	43	167103	105.087	ug/l	94
60) Dibromochloromethane	8.86	129	76669	20.557	ug/l	95
61) 1,2-Dibromoethane	9.13	107	55859	19.262	ug/l	98
64) Tetrachloroethene	8.30	164	79067	22.975	ug/l	96
65) Chlorobenzene	9.93	112	194785	22.223	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.07	131	92481	25.557	ug/l	95
67) Ethyl Benzene	10.03	91	364719	22.447	ug/l	96
68) m/p-Xylenes	10.26	106	262293	43.854	ug/l	85
69) o-Xylene	10.82	106	150381	23.223	ug/l	85
70) Styrene	10.89	104	211387	22.446	ug/l	98
71) Bromoform	10.88	173	43460	22.933	ug/l #	94
73) Isopropylbenzene	11.21	105	443763	22.148	ug/l	98
74) N-amyl acetate	11.45	43	117247	23.310	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.77	83	70670	19.800	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	50168	20.726	ug/l	99
77) Bromobenzene	11.58	156	85641	20.552	ug/l	98
78) n-propylbenzene	11.67	91	477684	20.974	ug/l	95
79) 2-Chlorotoluene	11.79	91	286569	21.346	ug/l	100
80) 1,3,5-Trimethylbenzene	11.89	105	373884	22.374	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.94	75	25383m	20.967	ug/l	
82) 4-Chlorotoluene	11.97	91	274921	20.897	ug/l	99
83) tert-Butylbenzene	12.20	119	381888	23.014	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	361025	22.261	ug/l	96
85) sec-Butylbenzene	12.36	105	501238	22.972	ug/l	98
86) p-Isopropyltoluene	12.52	119	430275	23.147	ug/l	97
87) 1,3-Dichlorobenzene	12.54	146	170793	22.403	ug/l	97
88) 1,4-Dichlorobenzene	12.63	146	161558	21.735	ug/l	96
89) n-Butylbenzene	12.90	91	421741	21.504	ug/l	94
90) Hexachloroethane	12.98	117	106660	23.424	ug/l	100
91) 1,2-Dichlorobenzene	13.00	146	160692	21.963	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.69	75	13520	21.032	ug/l	94

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MSVOA_F
ClientSampleId :
VF0416SBSD01

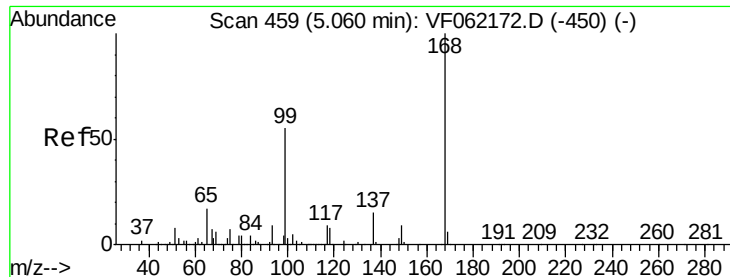
Manual Integrations
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MMDadoda
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	132822	24.172	µg/l	99
94) Hexachlorobutadiene	14.23	225	90629	25.308	µg/l	99
95) Naphthalene	14.49	128	233542	24.327	µg/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	129142	25.226	µg/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:168 Resp: 362598

Ion Ratio Lower Upper

168 100

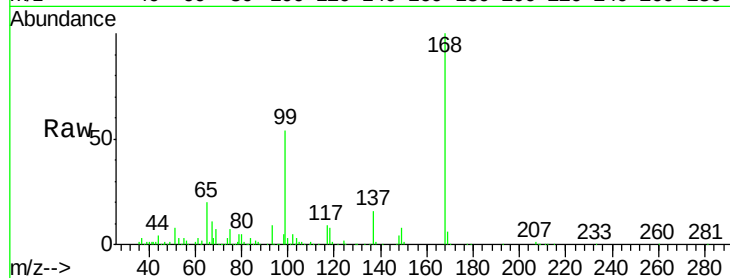
99 53.6 44.2 66.4

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

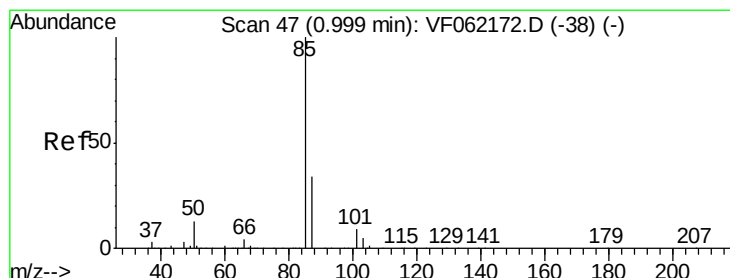
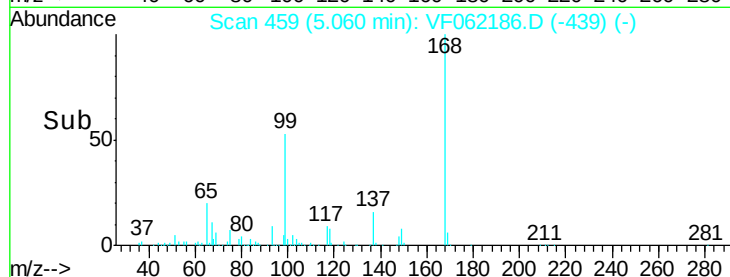
5.06

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 25.790 ug/l

RT: 1.01 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF062186.D

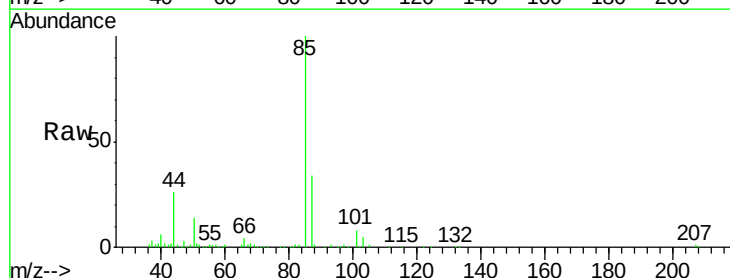
Acq: 16 Apr 2019 20:08

Tgt Ion: 85 Resp: 137200

Ion Ratio Lower Upper

85 100

87 33.9 16.9 50.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.01

40000

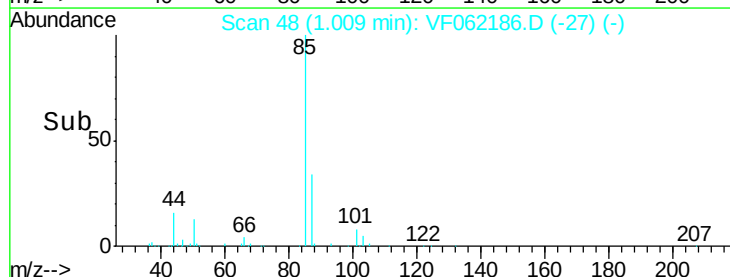
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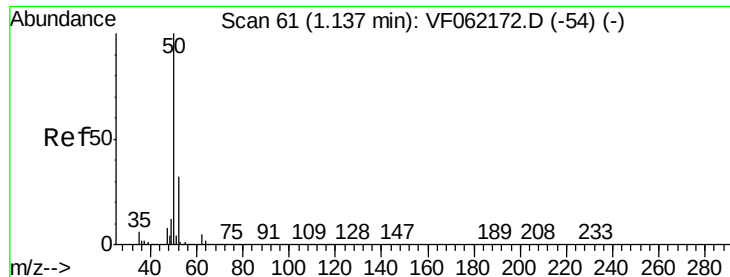
20000

10000

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Time-->





#3

Chloromethane

Concen: 24.824 ug/l

RT: 1.15 min Scan# 62

Delta R.T. 0.01 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 50 Resp: 142125

Ion Ratio Lower Upper

50 100

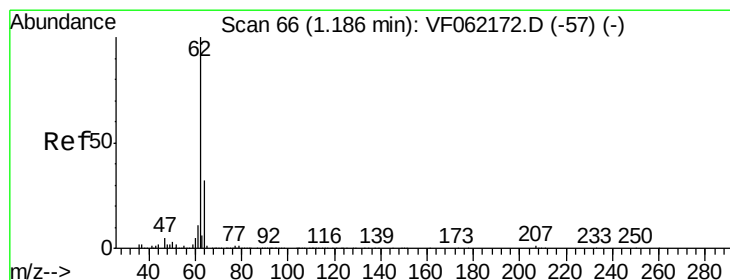
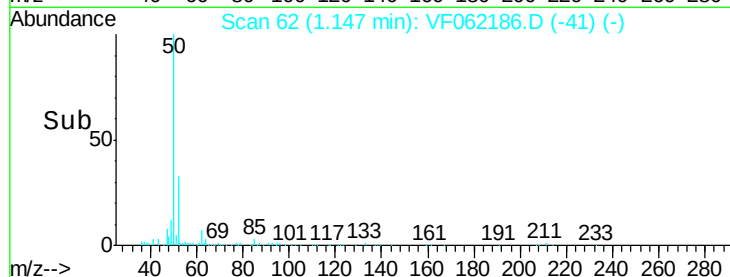
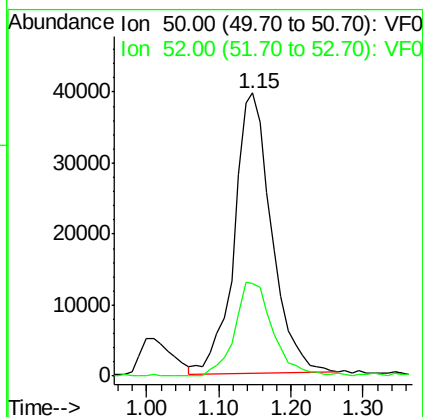
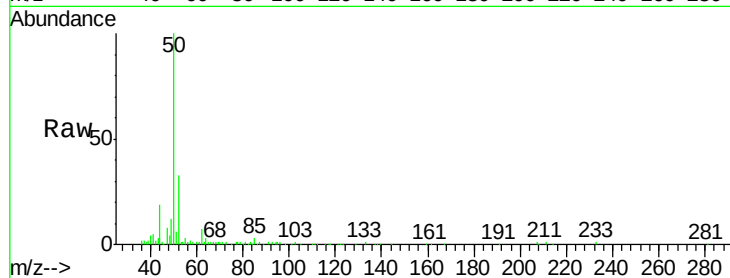
52 32.9 25.4 38.2

Manual Integrations

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4/17/2019 11:49:37 AM



#4

Vinyl Chloride

Concen: 25.794 ug/l

RT: 1.20 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF062186.D

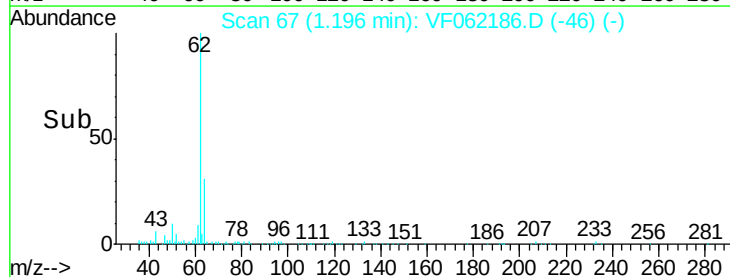
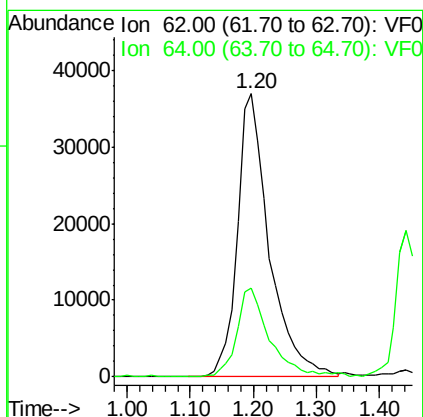
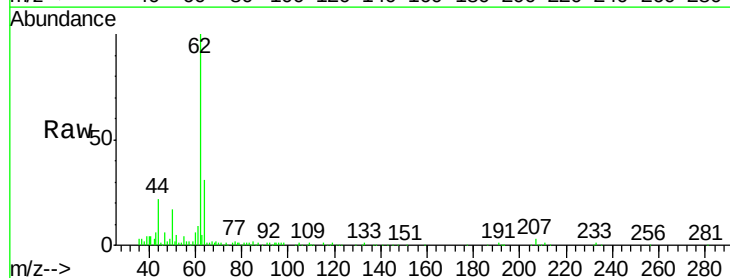
Acq: 16 Apr 2019 20:08

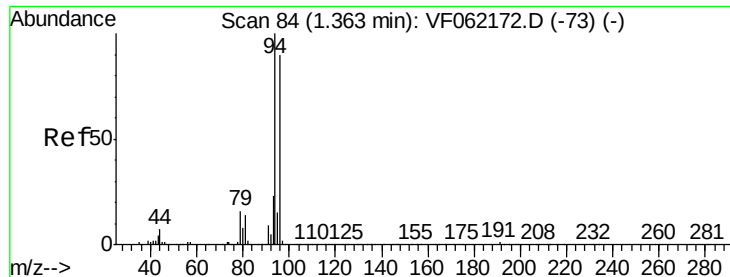
Tgt Ion: 62 Resp: 129204

Ion Ratio Lower Upper

62 100

64 31.3 25.4 38.0





#5

Bromomethane

Concen: 20.601 ug/l

RT: 1.36 min Scan# 84

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 94 Resp: 66359

Ion Ratio Lower Upper

94 100

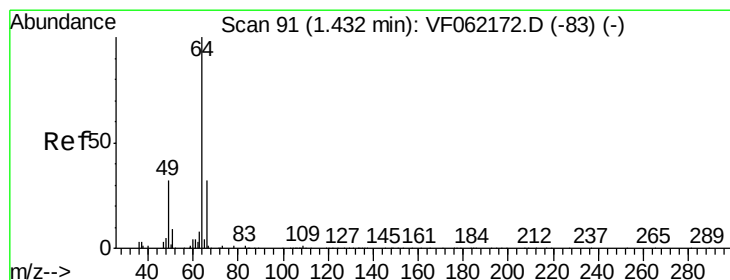
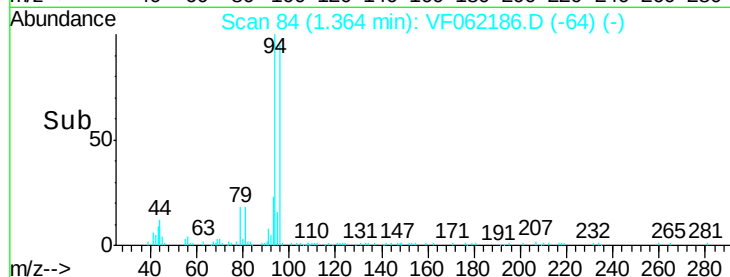
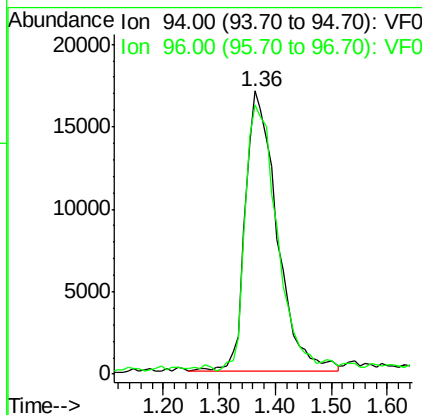
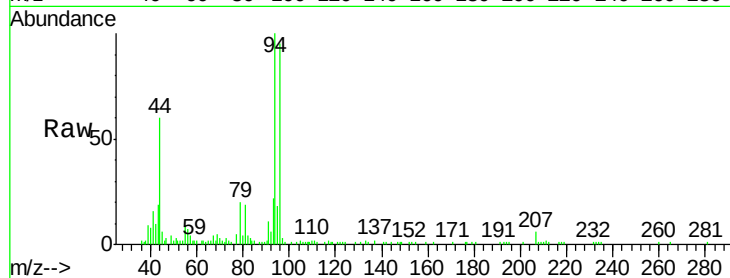
96 95.1 72.3 108.5

Manual Integrations

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4/17/2019 11:49:37 AM



#6

Chloroethane

Concen: 20.398 ug/l

RT: 1.44 min Scan# 92

Delta R.T. 0.01 min

Lab File: VF062186.D

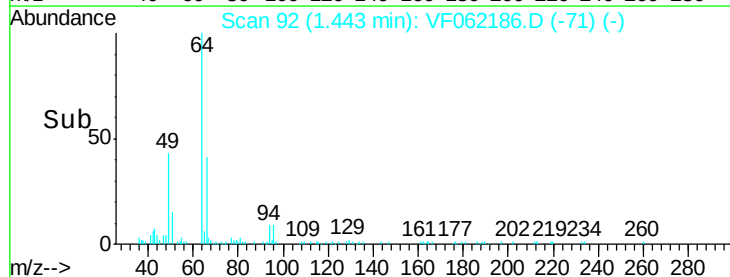
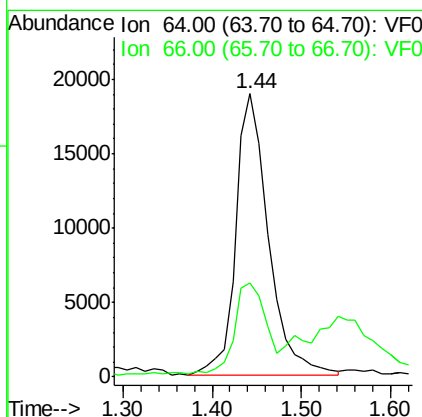
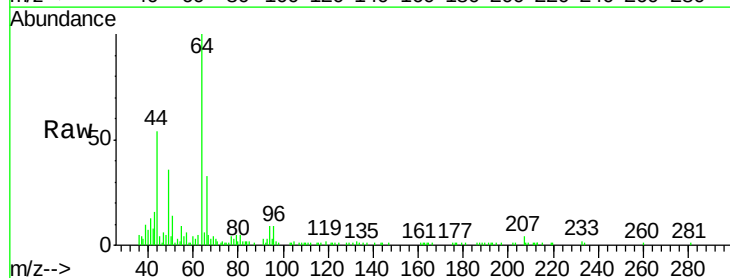
Acq: 16 Apr 2019 20:08

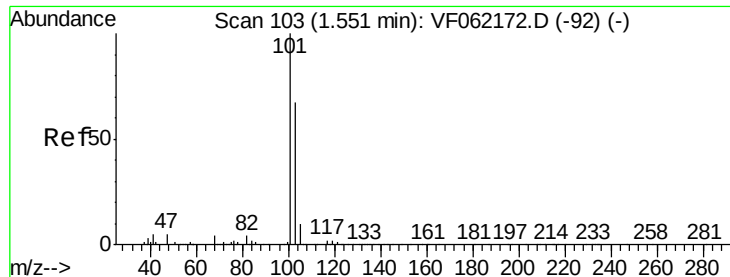
Tgt Ion: 64 Resp: 48379

Ion Ratio Lower Upper

64 100

66 33.1 25.7 38.5





#7

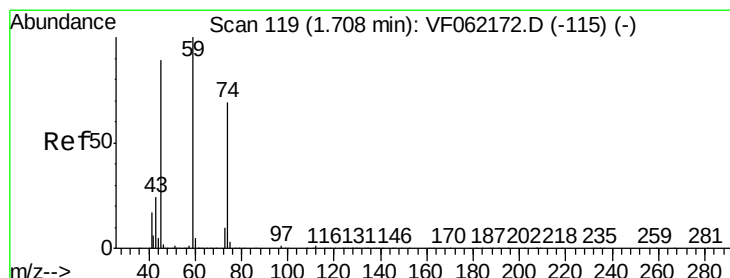
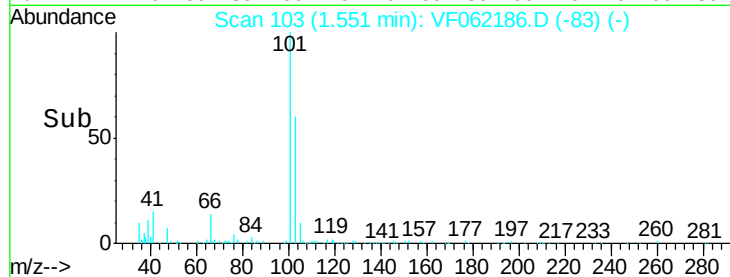
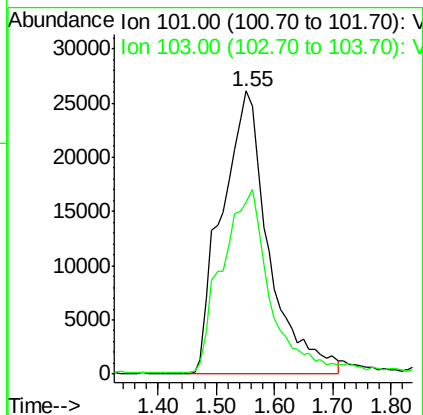
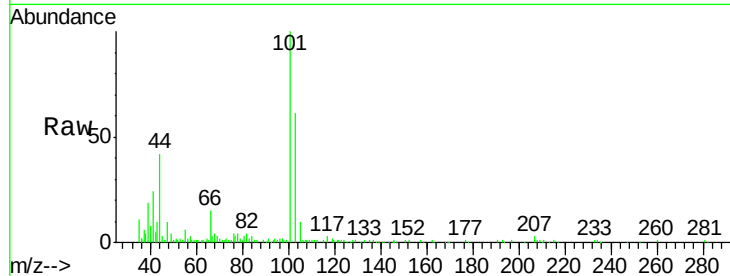
Trichlorofluoromethane
Concen: 24.491 ug/l
RT: 1.55 min Scan# 103
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

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VF0416SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		146729		
103	60.6	53.7	80.5		

Manual Integrations
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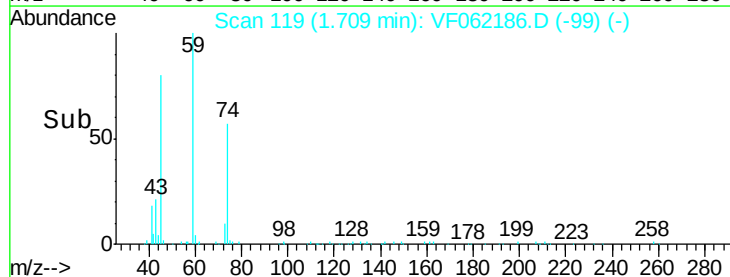
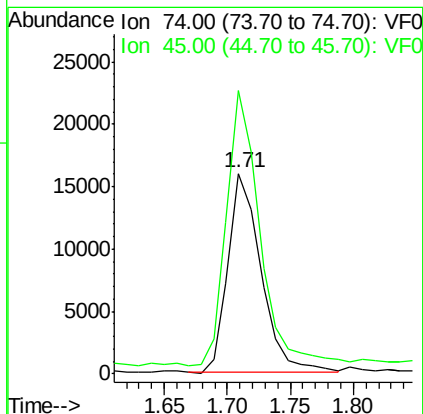
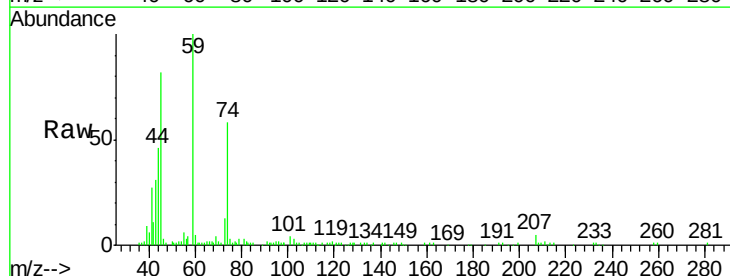
MMDadoda
4/17/2019 11:49:37 AM

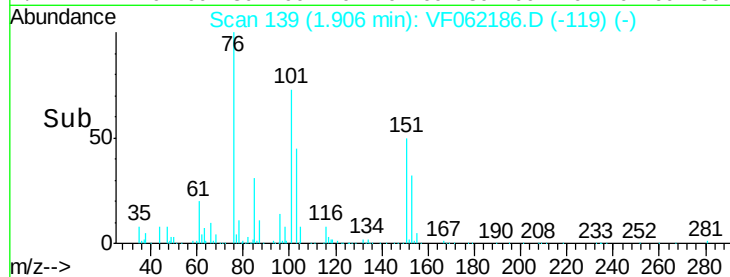
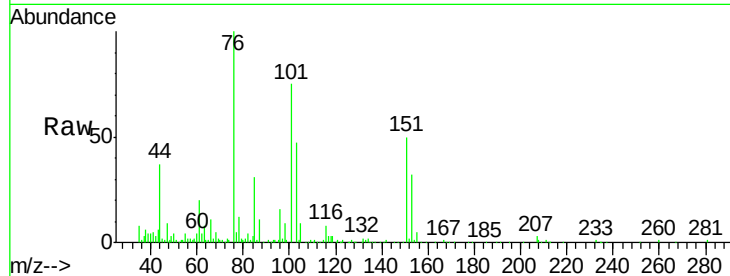
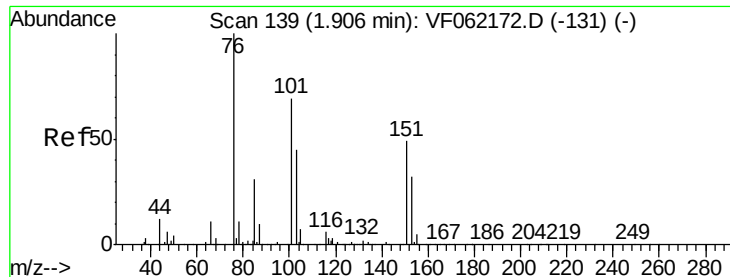


#8

Diethyl Ether
Concen: 23.838 ug/l
RT: 1.71 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		28830		
45	141.0	64.7	194.1		





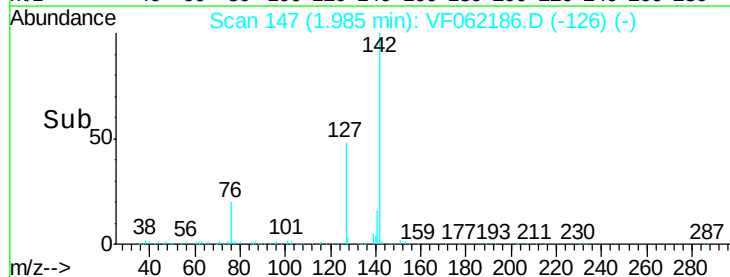
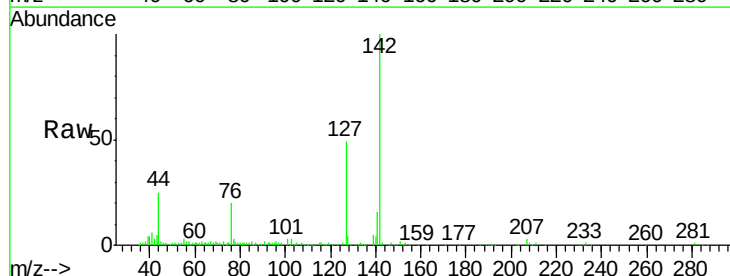
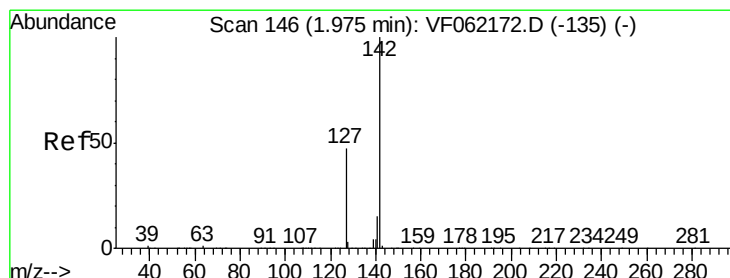
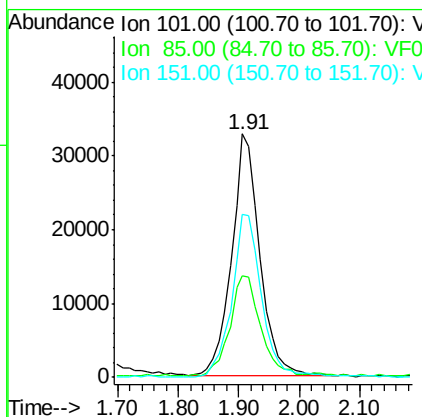
#9
1,1,2-Trichlorotrifluoroethane
Concen: 26.841 ug/l
RT: 1.91 min Scan# 139
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
101	100	105026		
85	41.7	35.2	52.8	
151	66.9	56.6	85.0	

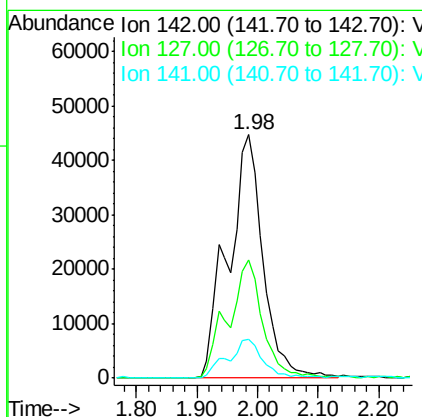
Manual Integrations
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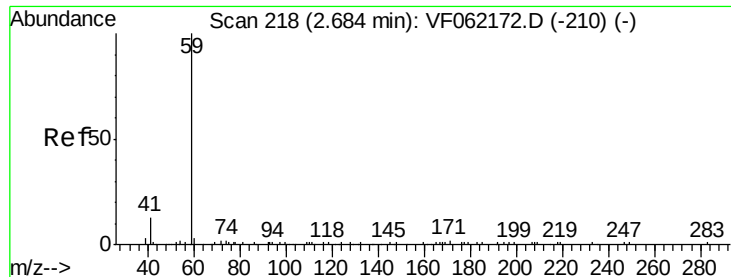
MMDadoda
4/17/2019 11:49:37 AM



#10
Methyl Iodide
Concen: 24.565 ug/l
RT: 1.98 min Scan# 147
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	178930		
127	48.7	37.8	56.6	
141	16.2	12.1	18.1	





#11

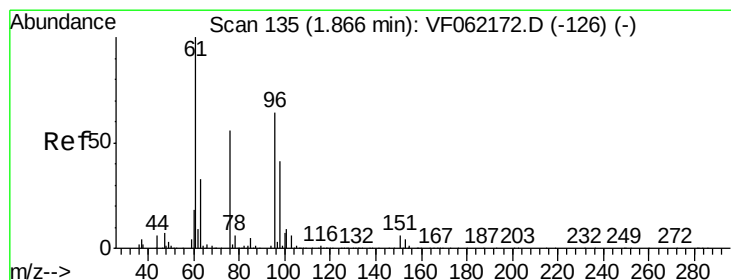
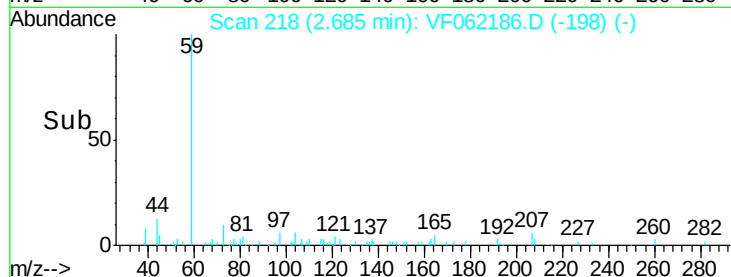
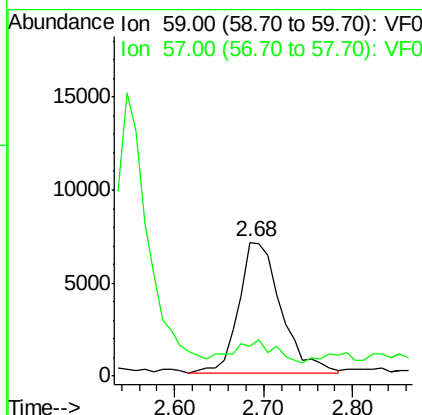
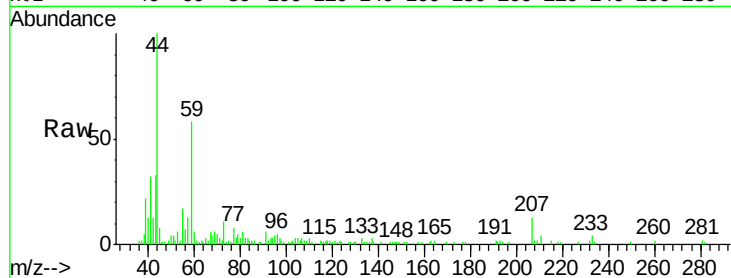
Tert butyl alcohol
Concen: 128.245 ug/l
RT: 2.68 min Scan# 218
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	22.8	14.2	21.4#

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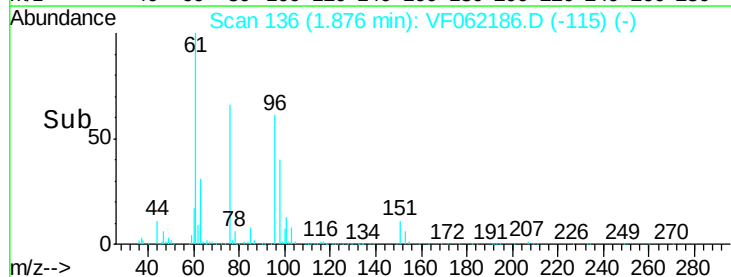
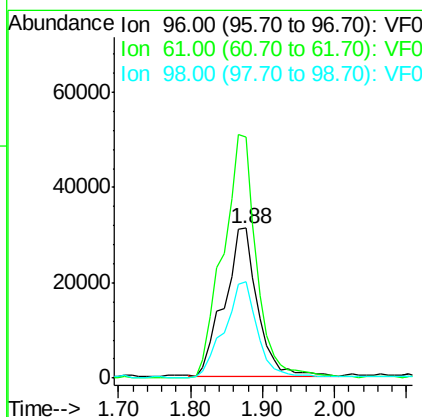
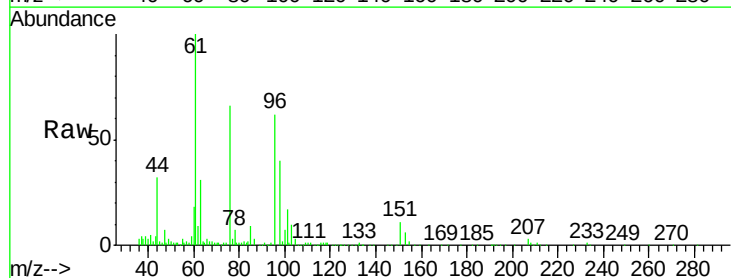
MMDadoda
4/17/2019 11:49:37 AM

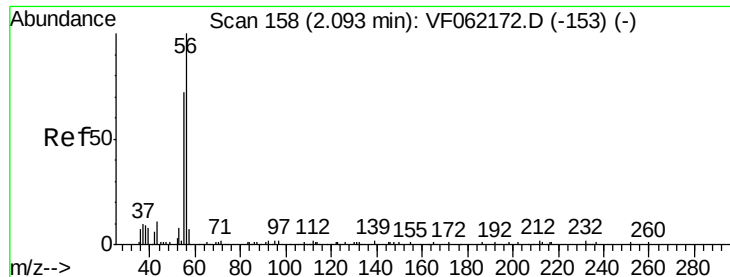


#12

1,1-Dichloroethene
Concen: 24.926 ug/l
RT: 1.88 min Scan# 136
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.0	124.6	187.0
98	64.4	51.5	77.3





#13

Acrolein

Concen: 144.316 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 56 Resp: 20575

Ion Ratio Lower Upper

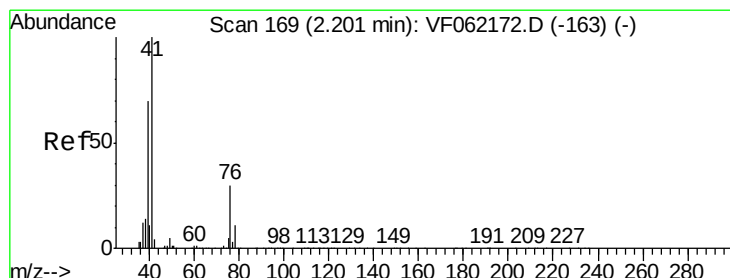
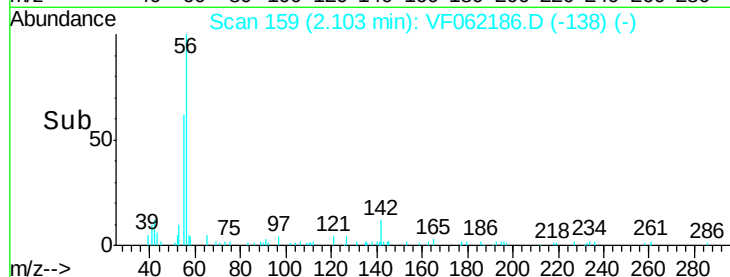
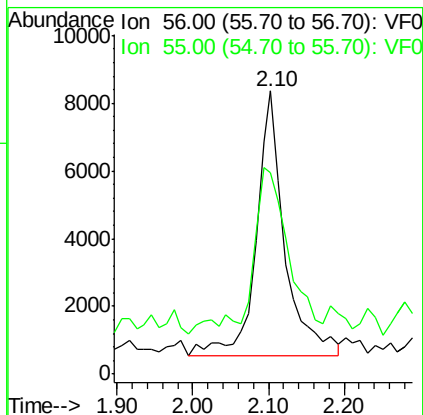
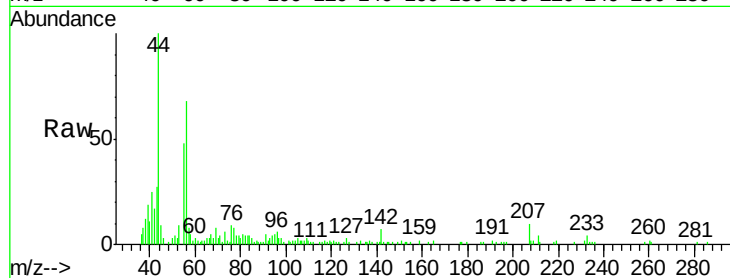
56 100

55 71.2 62.9 94.3

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#14

Allyl chloride

Concen: 28.266 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

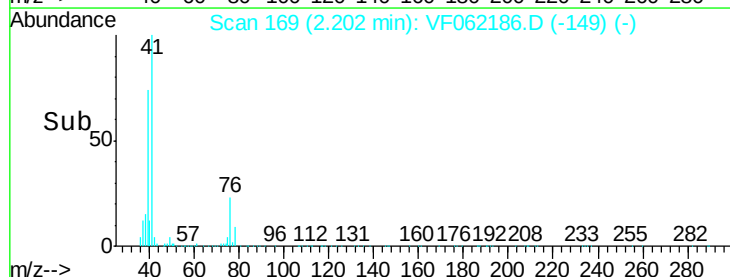
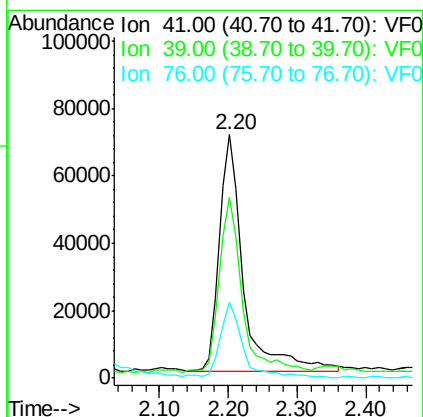
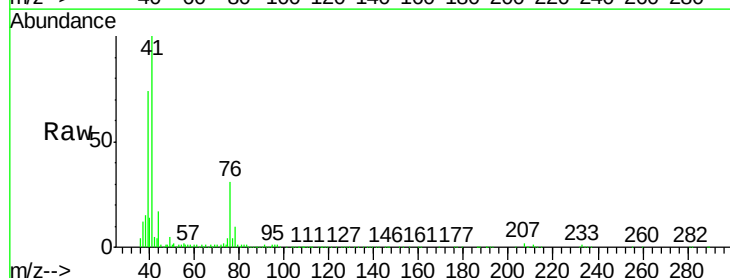
Tgt Ion: 41 Resp: 169370

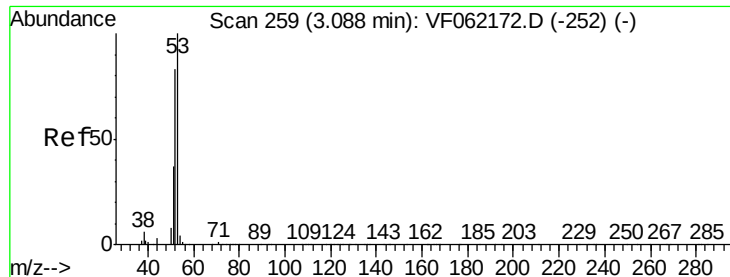
Ion Ratio Lower Upper

41 100

39 74.3 56.1 84.1

76 31.1 24.9 37.3





#15

Acrylonitrile

Concen: 128.944 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

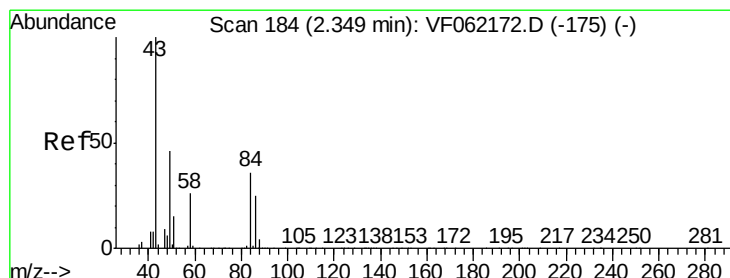
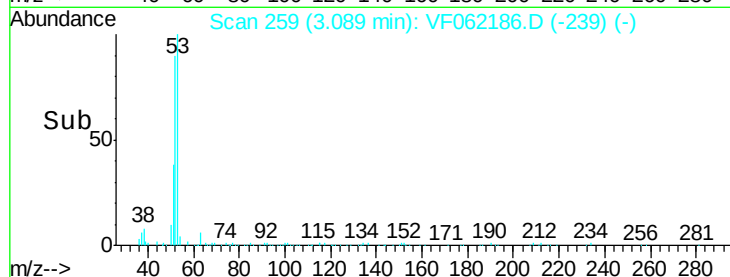
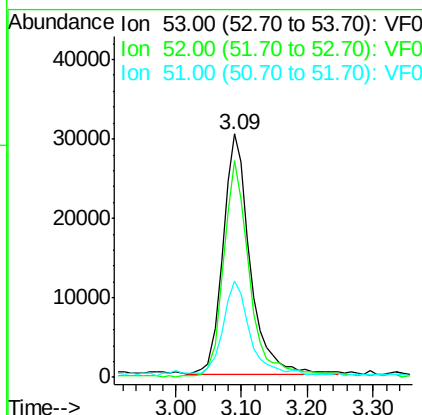
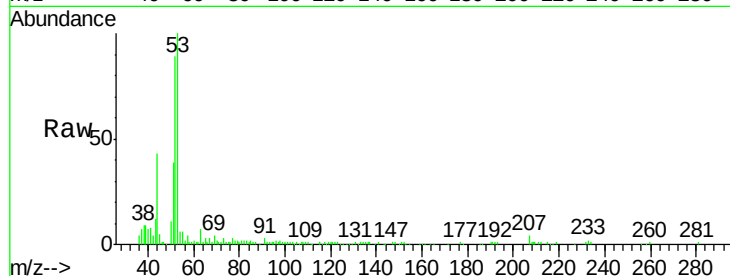
ClientSampleId :

VF0416SBS01

Tot Ion:	53	Resp:	86716
Ion Ratio		Lower	Upper
53	100		
52	88.9	66.6	99.8
51	39.5	30.1	45.1

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#16

Acetone

Concen: 107.342 ug/l

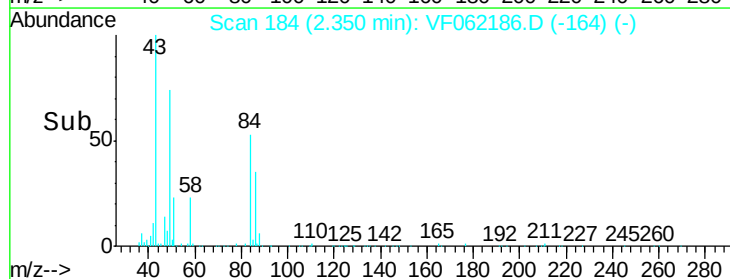
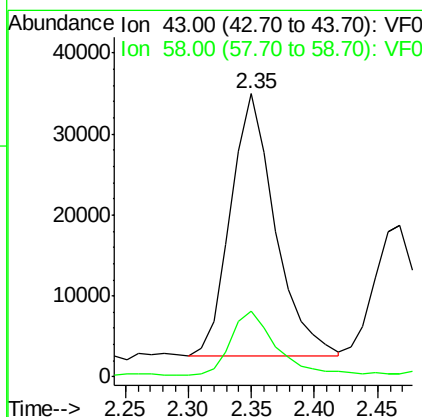
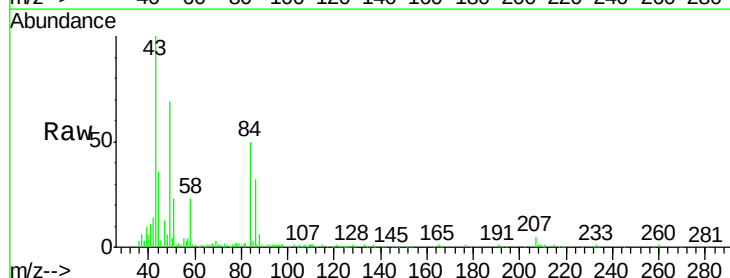
RT: 2.35 min Scan# 184

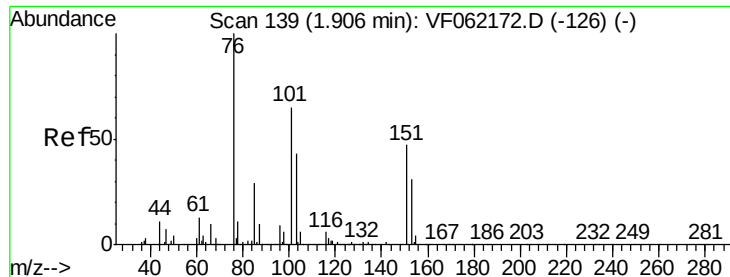
Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion:	43	Resp:	79025
Ion Ratio		Lower	Upper
43	100		
58	23.2	20.2	30.2





#17

Carbon Disulfide

Concen: 24.658 ug/l

RT: 1.91 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 76 Resp: 277967

Ion Ratio Lower Upper

76 100

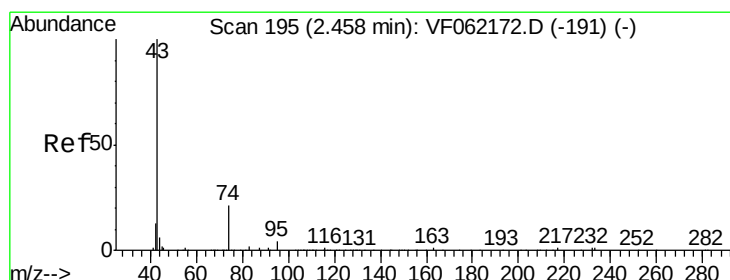
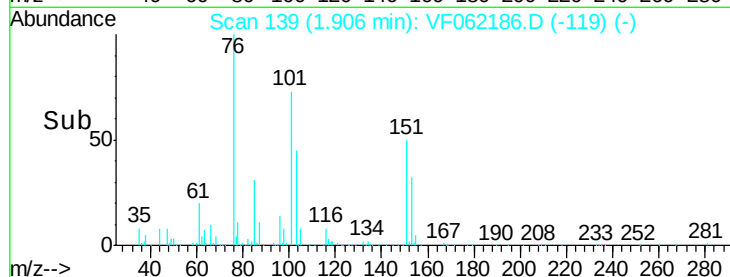
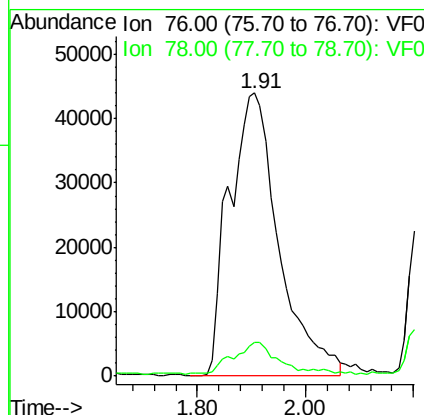
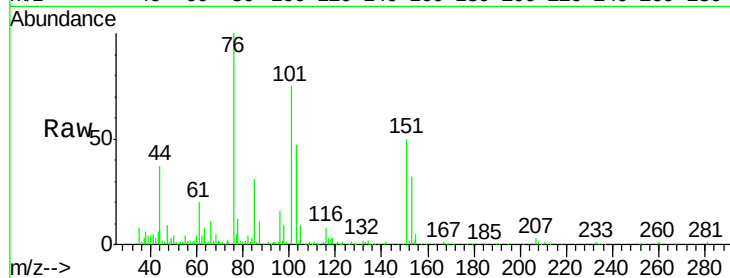
78 11.9 9.1 13.7

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4/17/2019 11:49:37 AM



#18

Methyl Acetate

Concen: 22.812 ug/l

RT: 2.47 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF062186.D

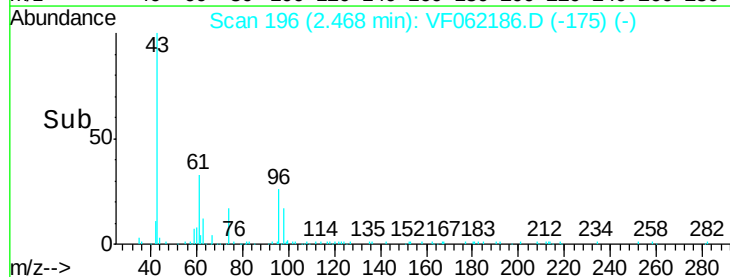
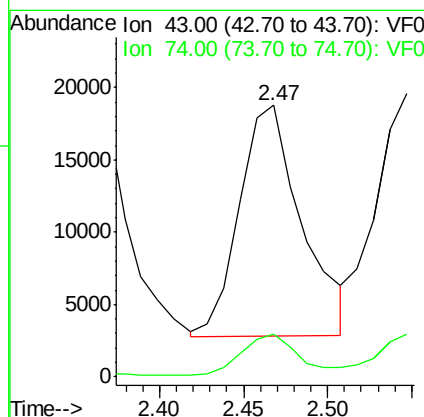
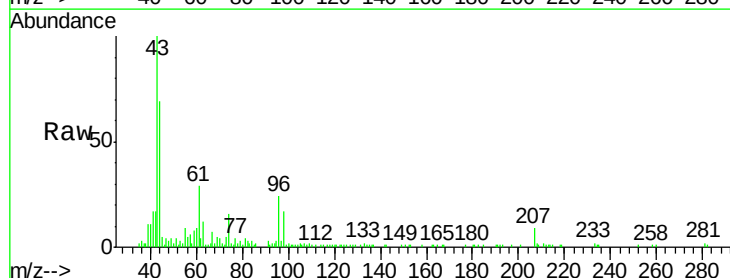
Acq: 16 Apr 2019 20:08

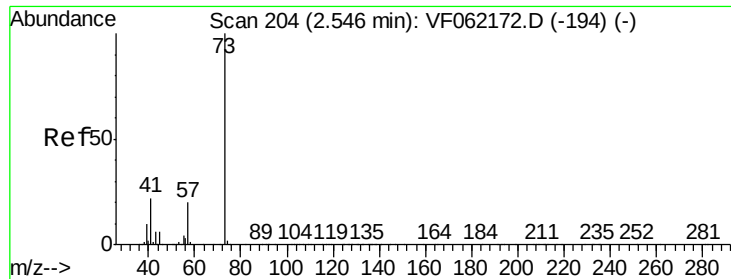
Tgt Ion: 43 Resp: 41155

Ion Ratio Lower Upper

43 100

74 15.7 14.2 21.4





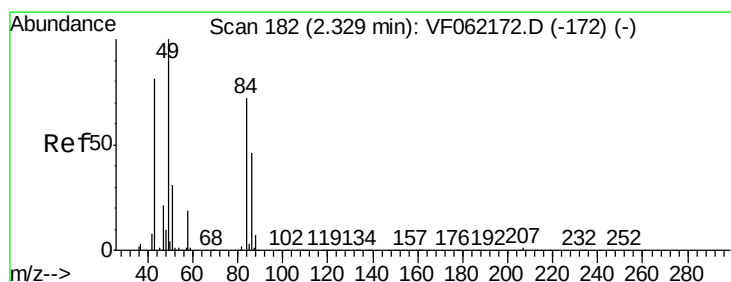
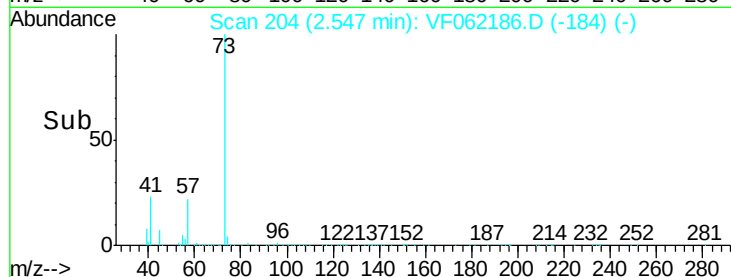
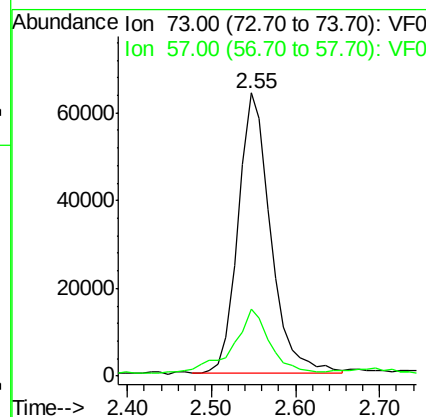
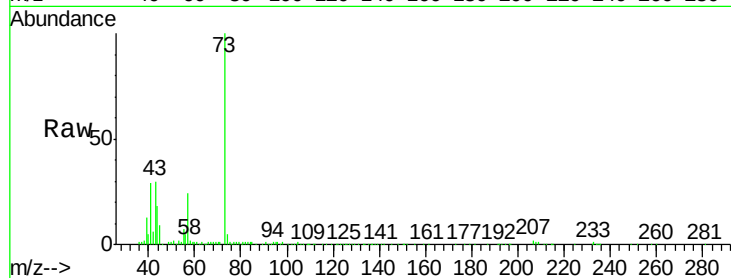
#19
Methyl tert-butyl Ether
Concen: 25.952 ug/l
RT: 2.55 min Scan# 204
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.6	16.8	25.2

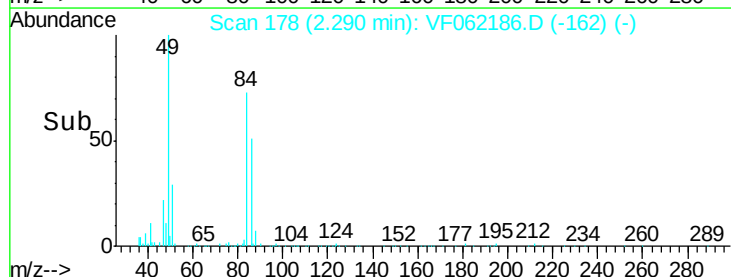
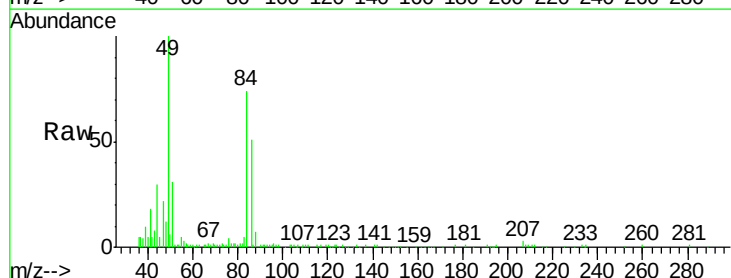
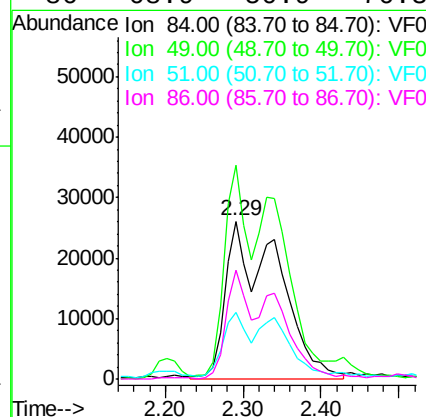
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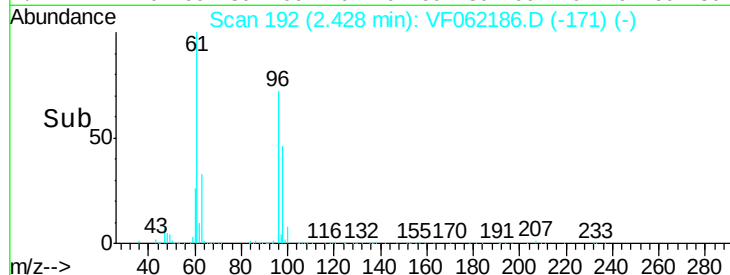
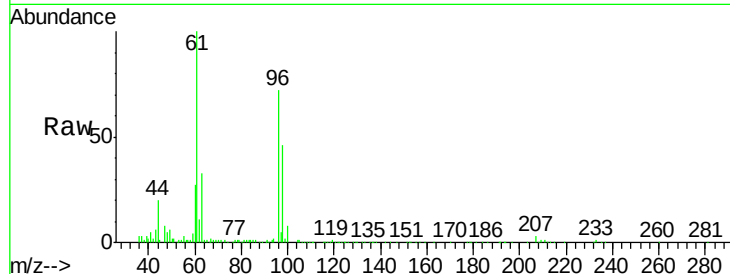
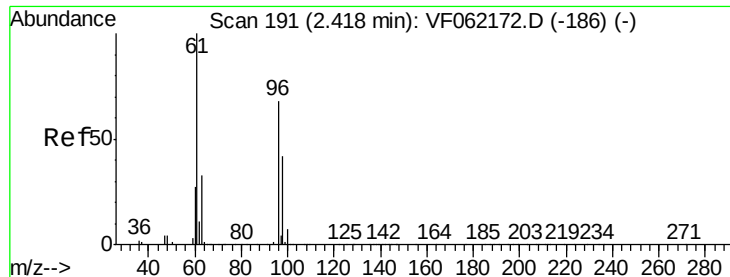
MMDadoda
4/17/2019 11:49:37 AM



#20
Methylene Chloride
Concen: 32.778 ug/l m
RT: 2.29 min Scan# 178
Delta R.T. -0.04 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	135.5	111.5	167.3
51	42.2	34.9	52.3
86	68.9	50.9	76.3





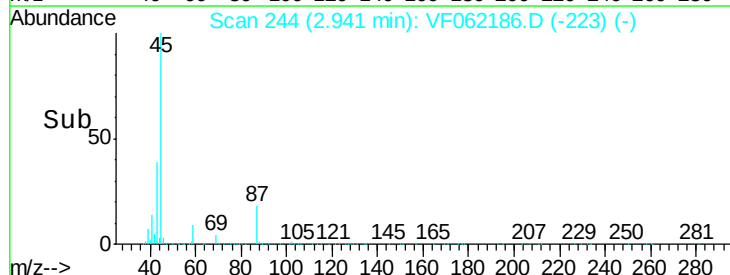
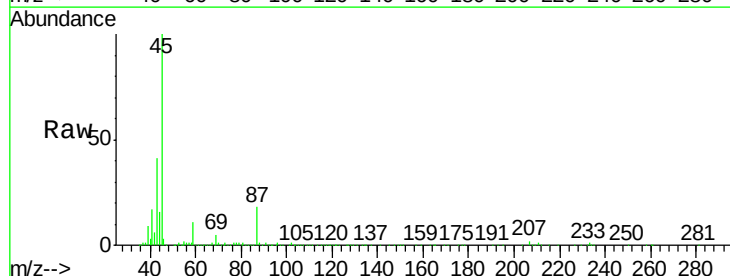
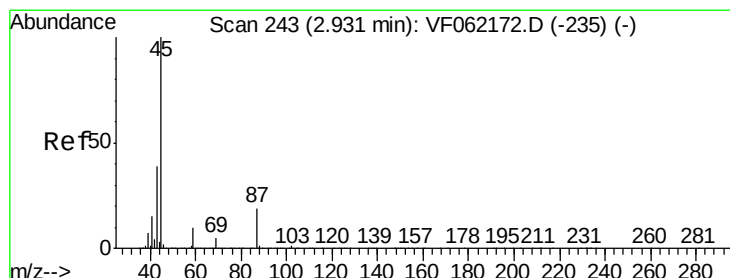
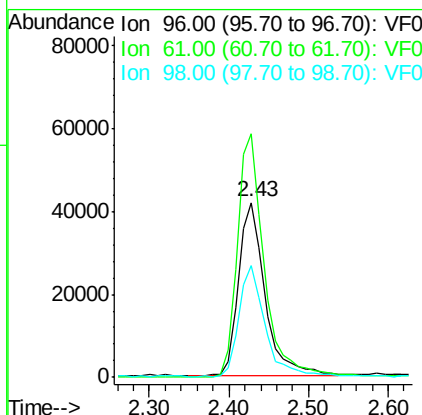
#21
trans-1,2-Dichloroethene
Concen: 25.413 ug/l
RT: 2.43 min Scan# 192
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tot Ion:	96	Resp:	96761
Ion Ratio	Lower	Upper	
96	100		
61	139.2	117.4	176.2
98	64.3	49.8	74.8

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

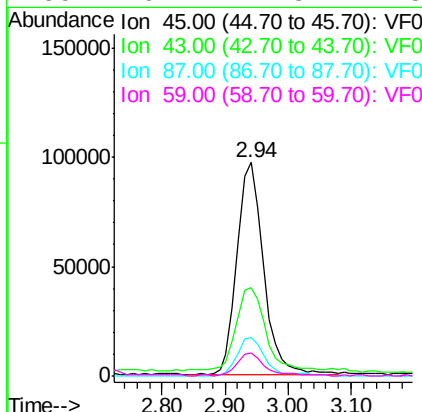
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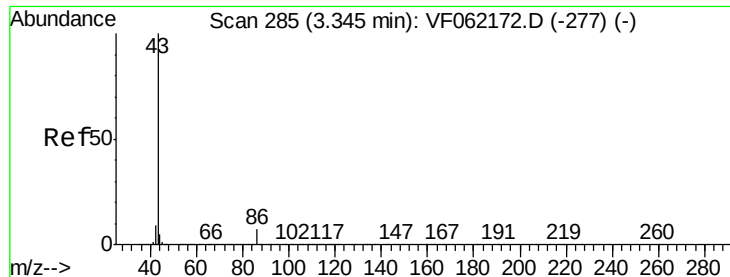
MMDadoda
4/17/2019 11:49:37 AM



#22
Diisopropyl ether
Concen: 25.206 ug/l
RT: 2.94 min Scan# 244
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion:	45	Resp:	280754
Ion Ratio	Lower	Upper	
45	100		
43	41.3	32.5	48.7
87	17.9	14.9	22.3
59	10.7	7.8	11.8





#23

Vinyl Acetate

Concen: 114.409 ug/l

RT: 3.35 min Scan# 285

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 635654

Ion Ratio Lower Upper

43 100

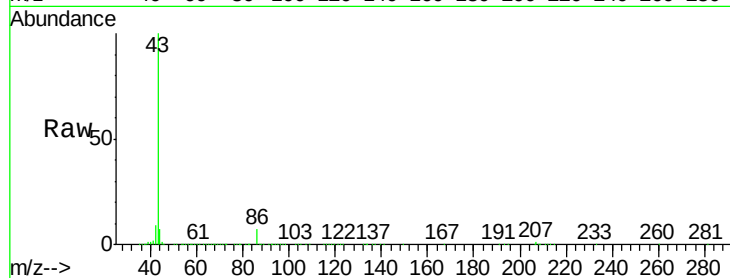
86 6.9 5.9 8.9

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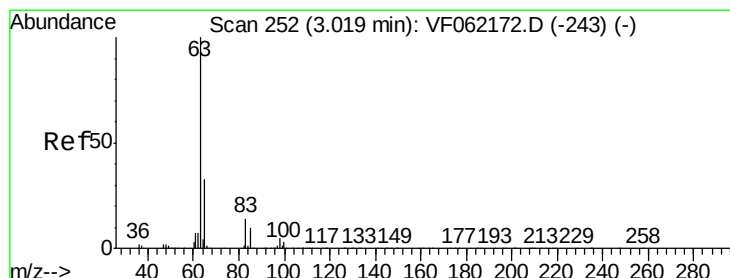
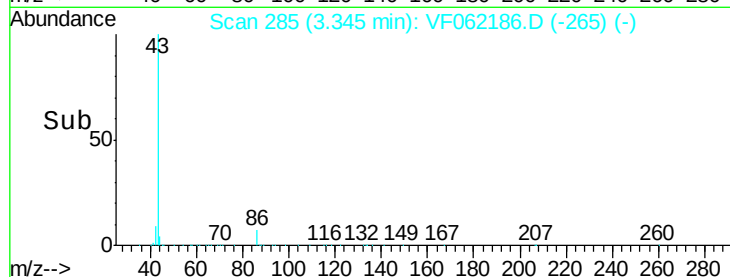
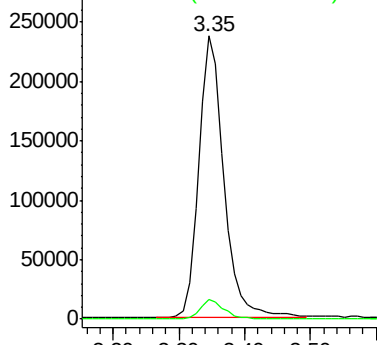
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 25.420 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

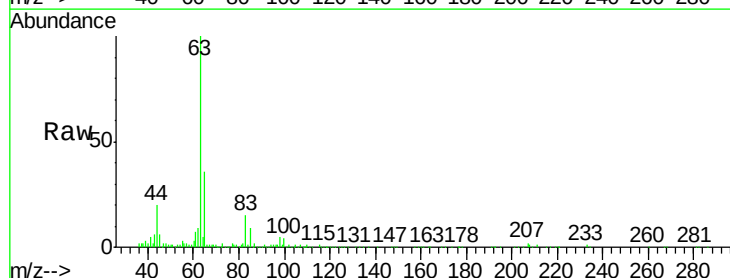
Tgt Ion: 63 Resp: 157669

Ion Ratio Lower Upper

63 100

98 5.4 2.6 8.0

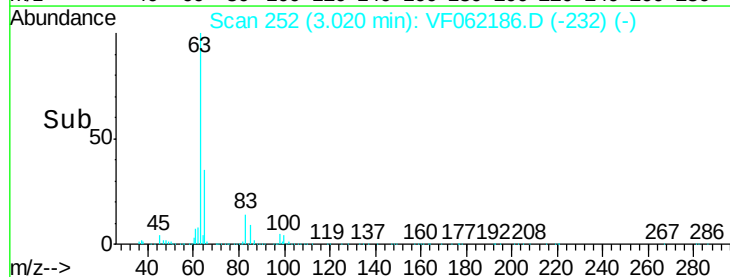
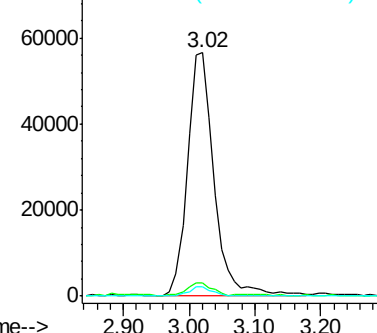
100 3.7 1.7 5.1

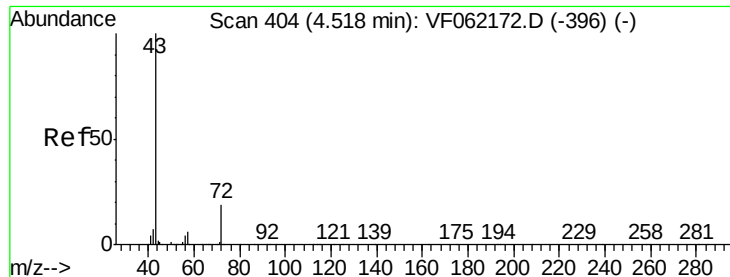


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 103.039 ug/l

RT: 4.53 min Scan# 405

Delta R.T. 0.01 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 162949

Ion Ratio Lower Upper

43 100

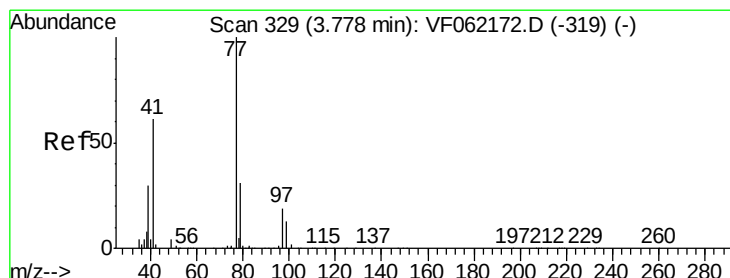
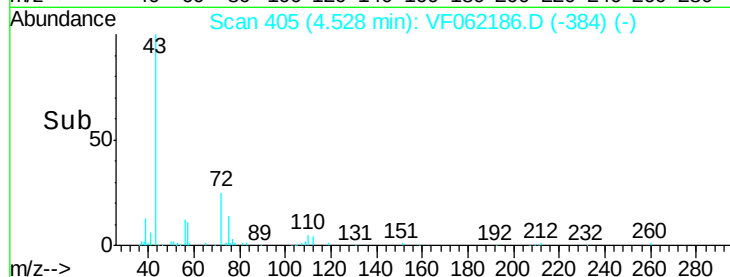
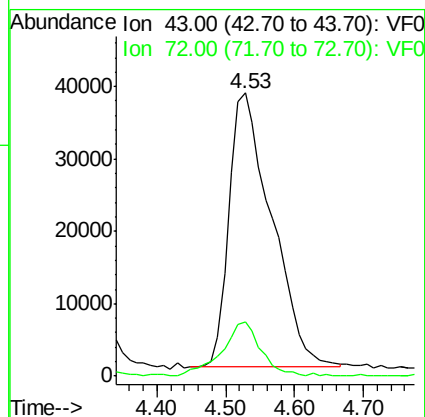
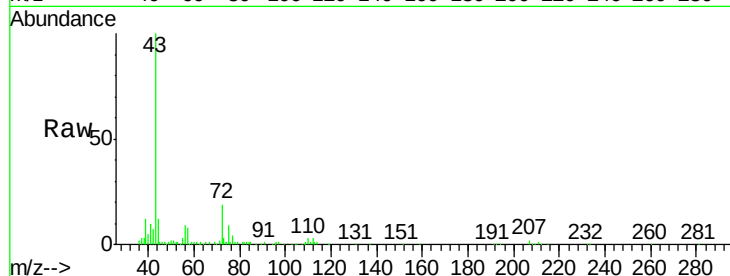
72 19.1 15.4 23.2

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#26

2,2-Dichloropropane

Concen: 26.152 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.00 min

Lab File: VF062186.D

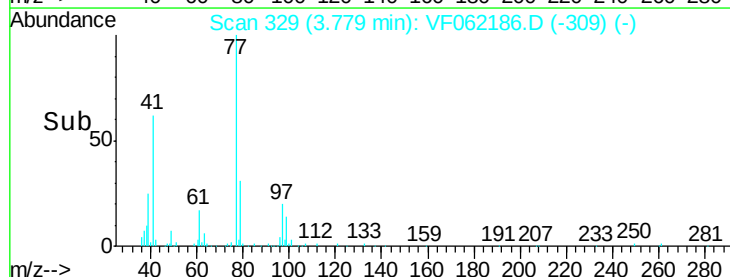
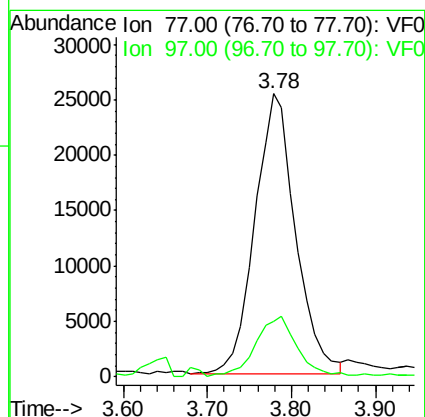
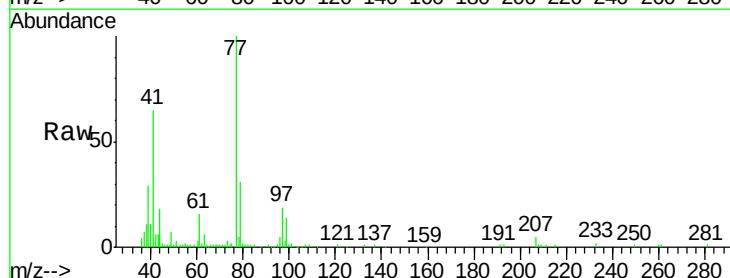
Acq: 16 Apr 2019 20:08

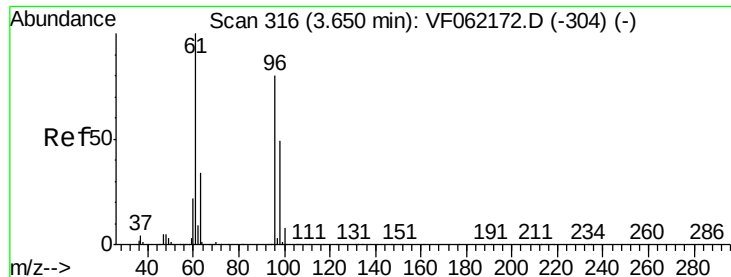
Tgt Ion: 77 Resp: 85319

Ion Ratio Lower Upper

77 100

97 19.4 10.3 30.9





#27

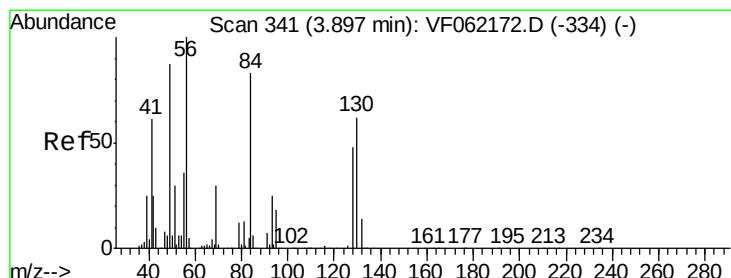
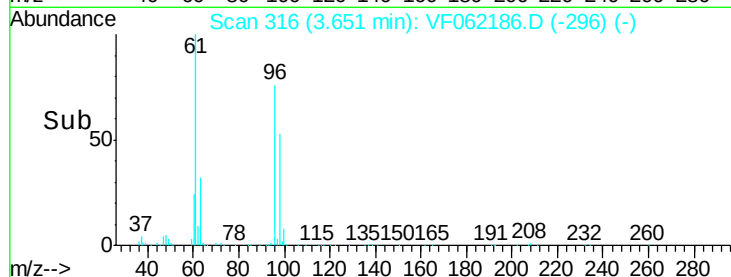
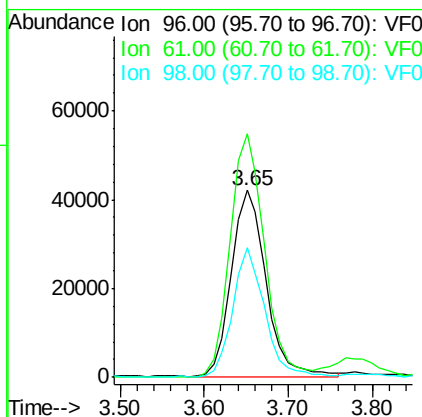
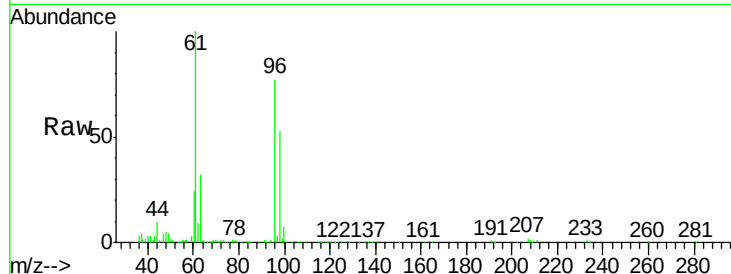
cis-1,2-Dichloroethene
Concen: 23.787 ug/l
RT: 3.65 min Scan# 316
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Resp Lower	Upper
96	100		
61	130.2	0.0	248.2
98	69.2	0.0	122.4

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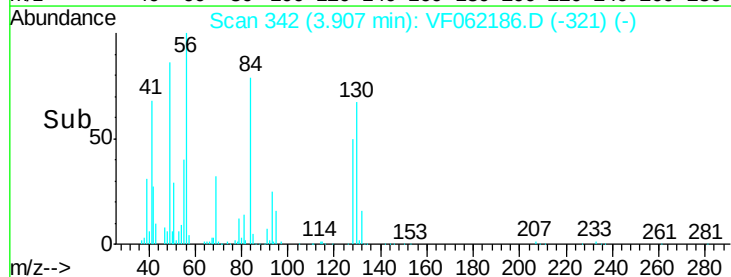
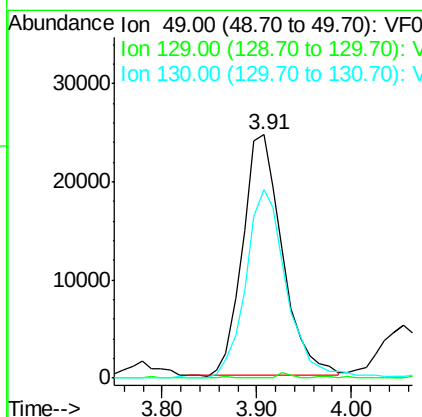
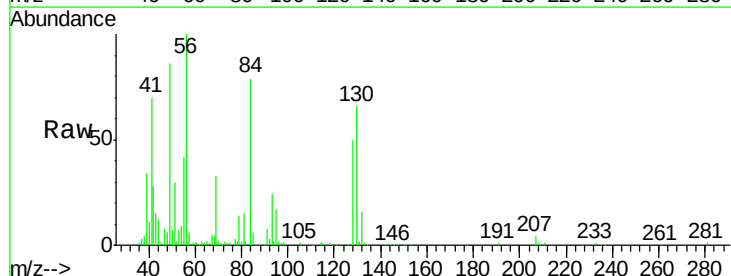
MMDadoda
4/17/2019 11:49:37 AM

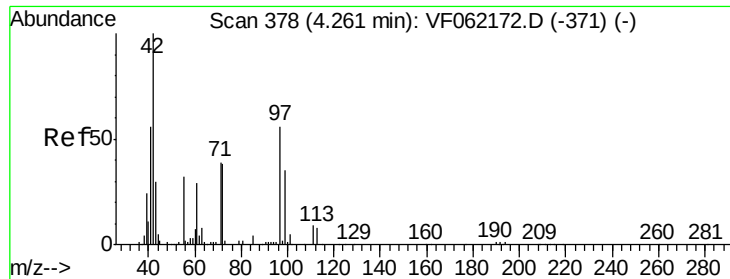


#28

Bromochloromethane
Concen: 24.147 ug/l
RT: 3.91 min Scan# 342
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Resp Lower	Upper
49	100		
129	0.0	0.0	0.0
130	77.3	56.5	84.7





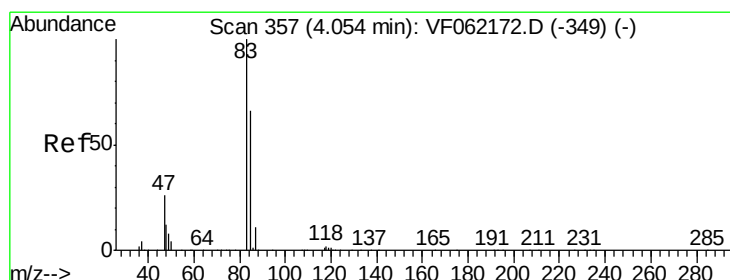
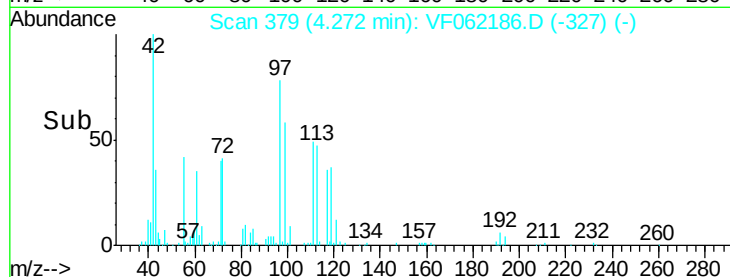
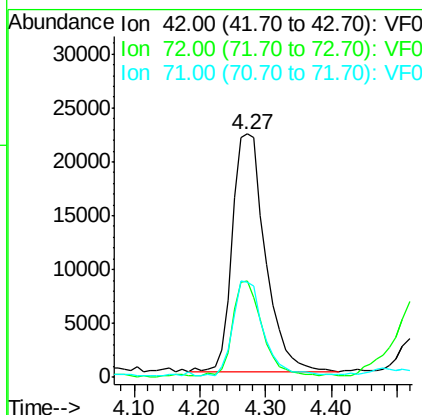
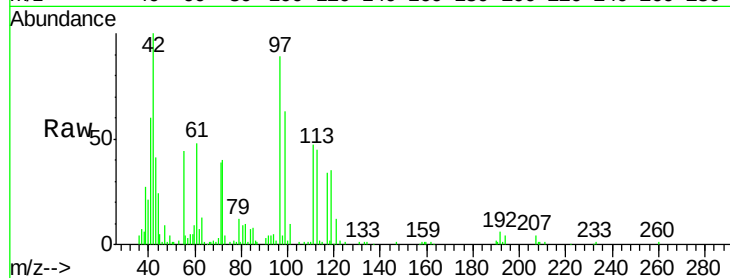
#29
Tetrahydrofuran
Concen: 110.685 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.5	28.7	43.1
71	39.0	30.8	46.2

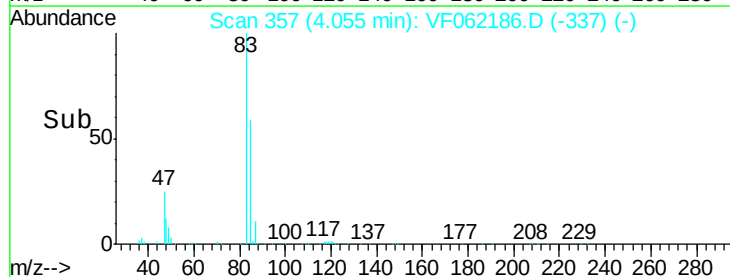
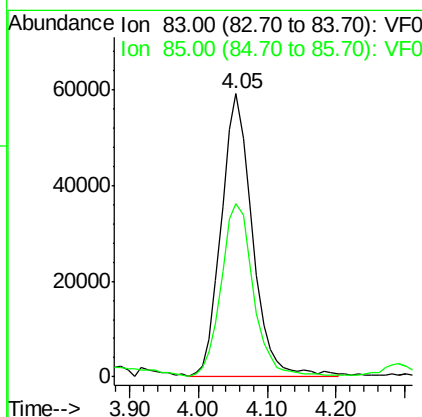
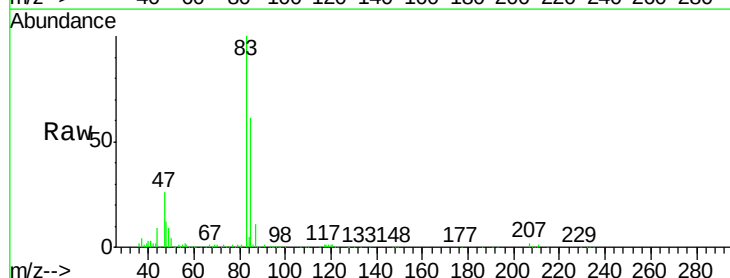
Manual Integrations
APPROVED

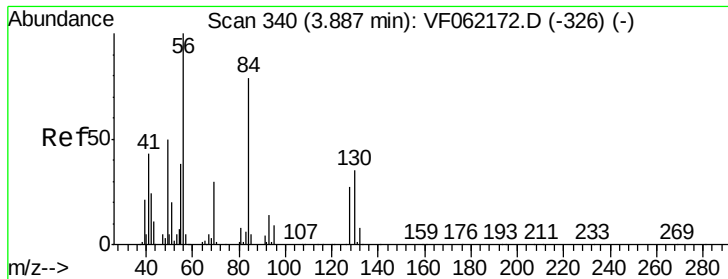
MMDadoda
4/17/2019 11:49:37 AM



#30
Chloroform
Concen: 23.845 ug/l
RT: 4.05 min Scan# 357
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.1	53.5	80.3





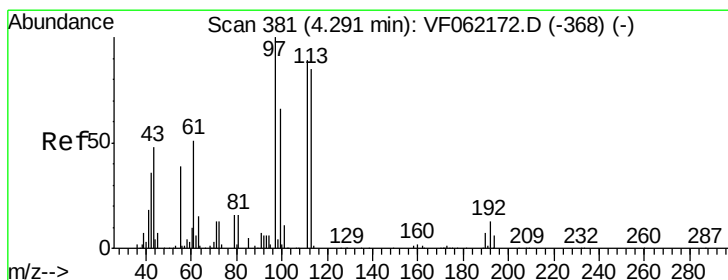
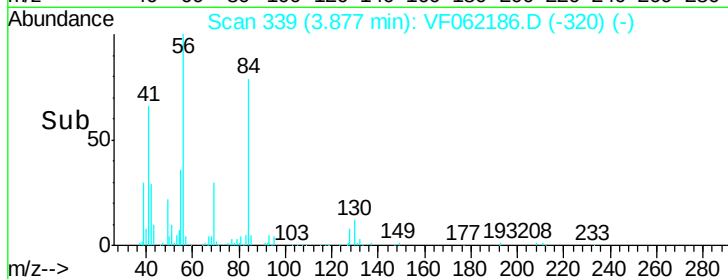
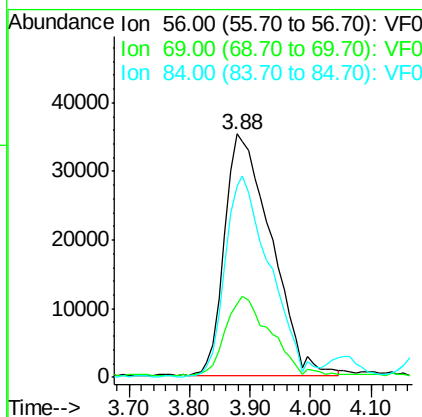
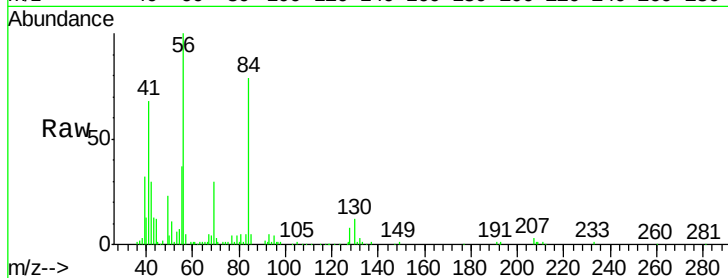
#31
Cyclohexane
Concen: 23.448 ug/l
RT: 3.88 min Scan# 339
Delta R.T. -0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		187900		
69	30.1	24.4	36.6		
84	78.6	63.4	95.2		

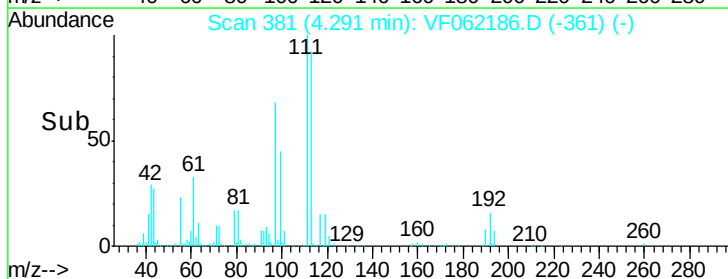
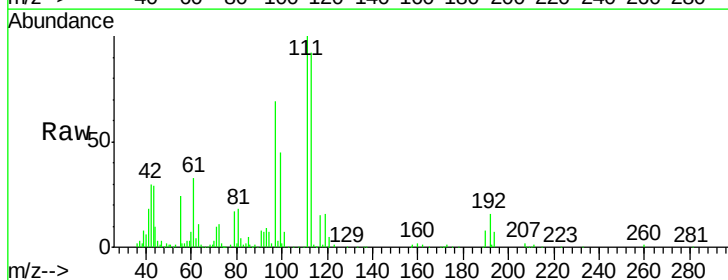
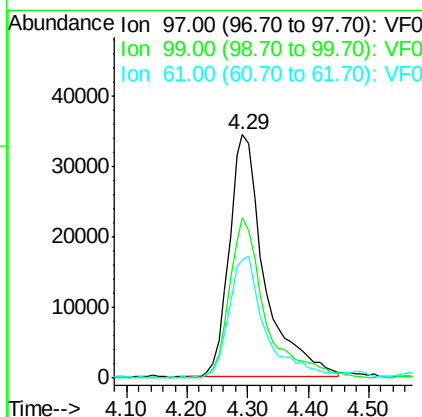
Manual Integrations
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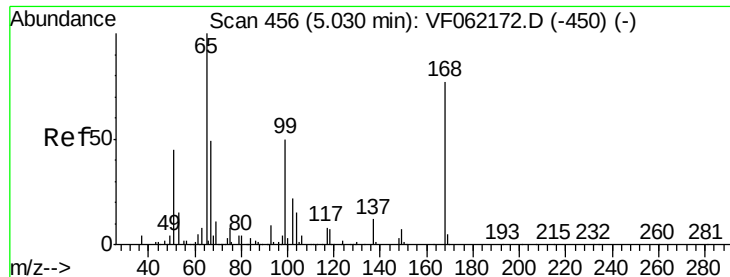
MMDadoda
4/17/2019 11:49:37 AM



#32
1,1,1-Trichloroethane
Concen: 26.592 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		139829		
99	65.7	52.3	78.5		
61	48.5	40.9	61.3		





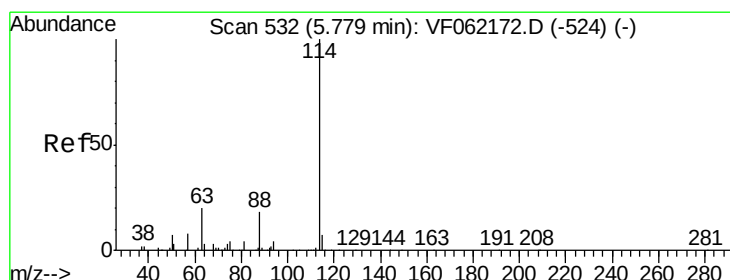
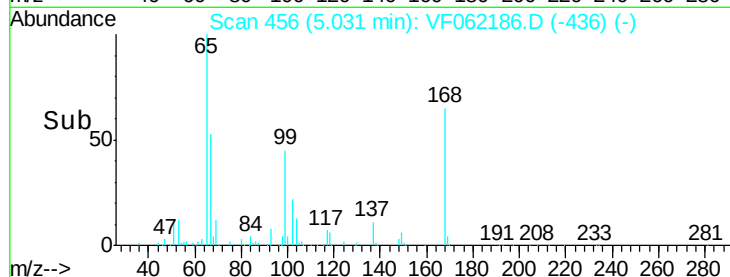
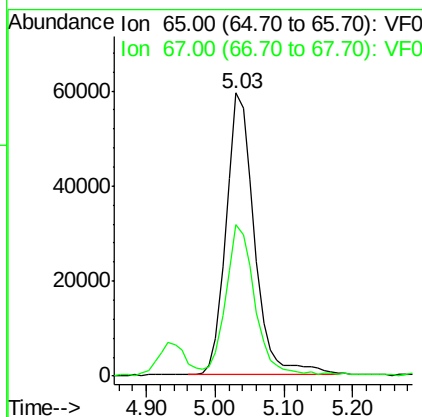
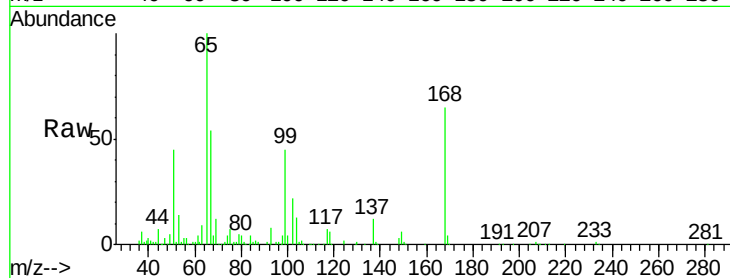
#33
 1,2-Dichloroethane-d4
 Concen: 51.828 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	107.8

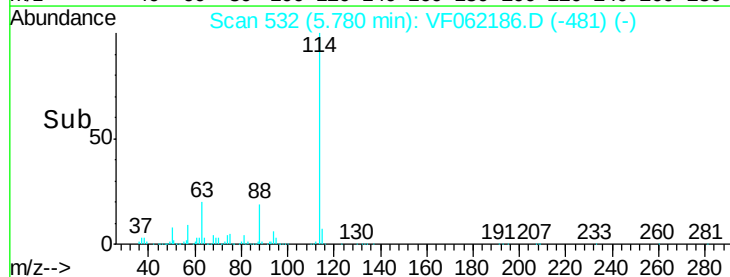
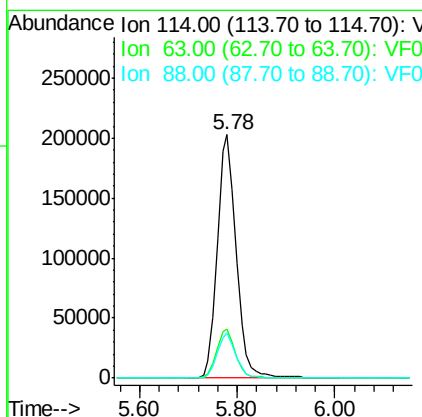
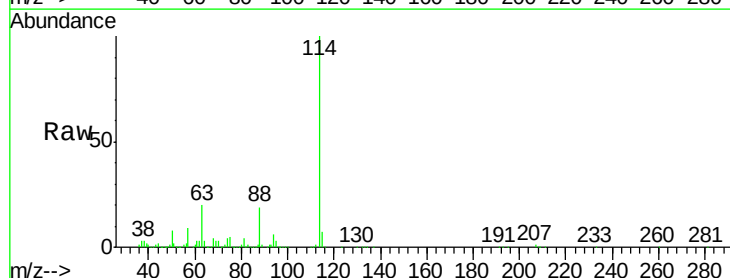
Manual Integrations
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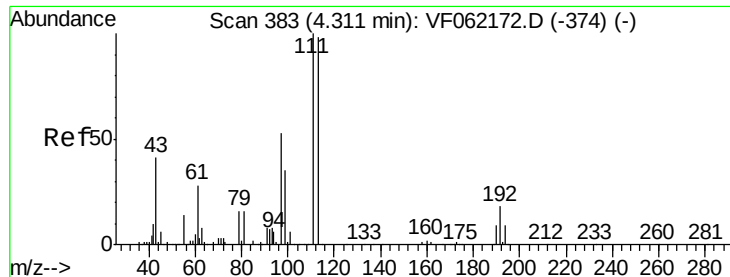
MMDadoda
 4/17/2019 11:49:37 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.0
88	18.5	0.0	36.6





#35

Dibromofluoromethane

Concen: 55.163 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

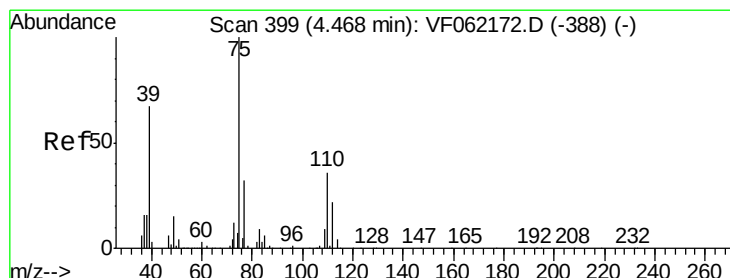
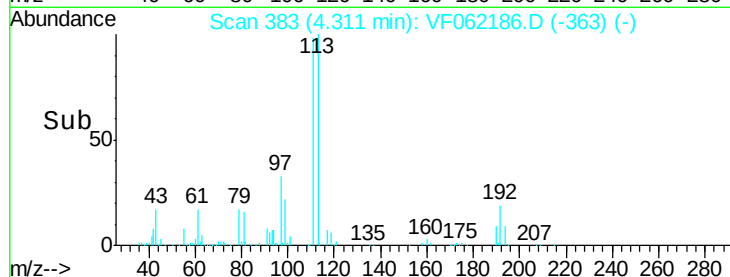
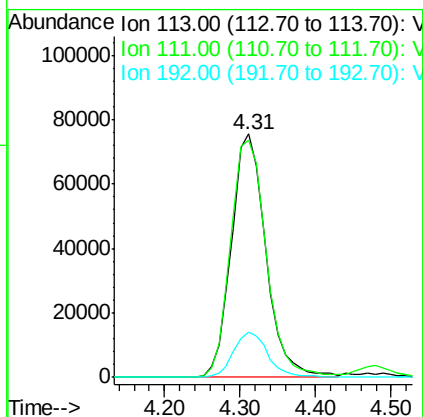
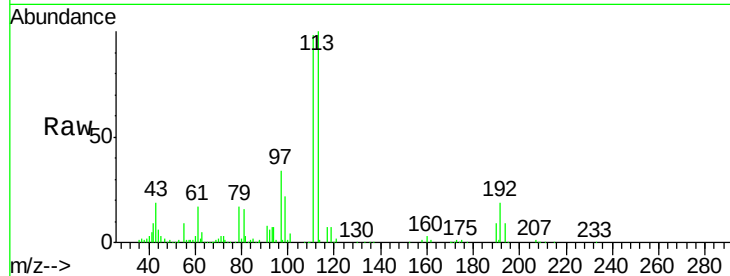
ClientSampleId :

VF0416SBS01

Tot Ion:	113	Resp:	238861
Ion Ratio	Lower	Upper	
113	100		
111	97.6	81.6	122.4
192	18.5	15.0	22.4

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 23.309 ug/l

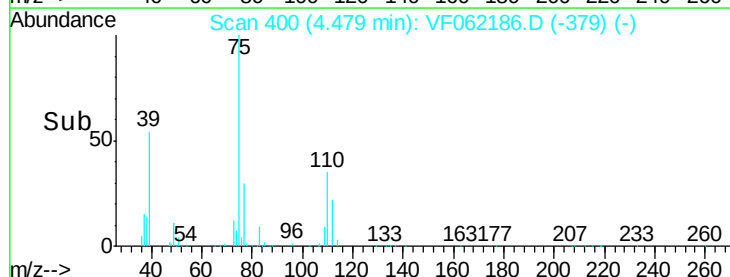
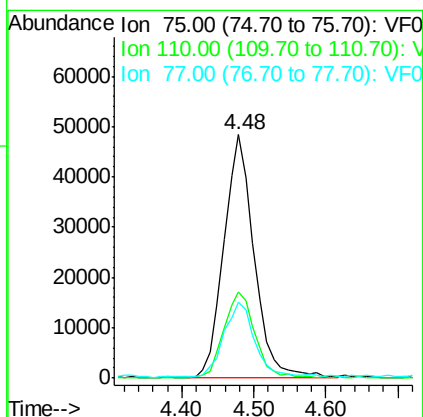
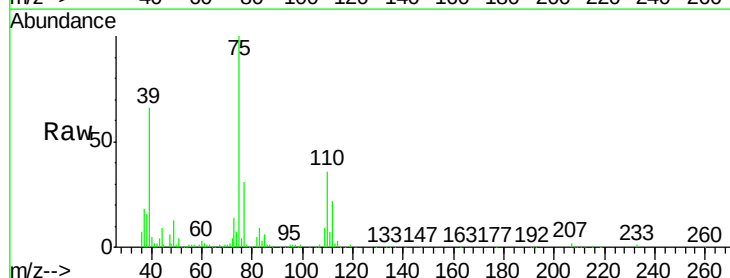
RT: 4.48 min Scan# 400

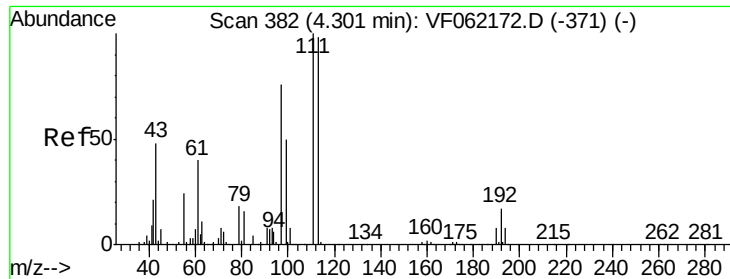
Delta R.T. 0.01 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion:	75	Resp:	142160
Ion Ratio	Lower	Upper	
75	100		
110	35.6	17.9	53.8
77	31.2	25.6	38.4





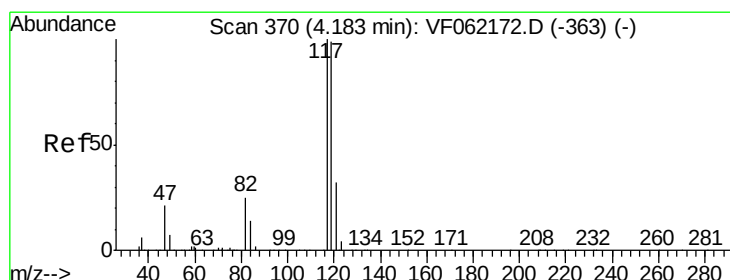
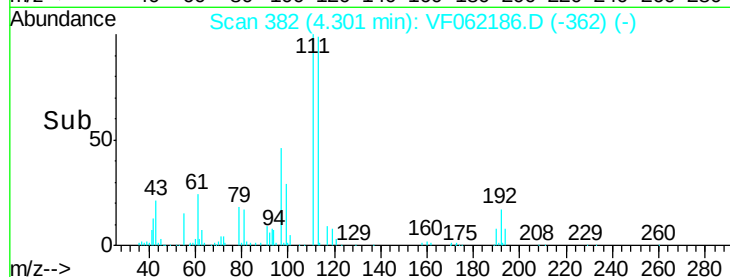
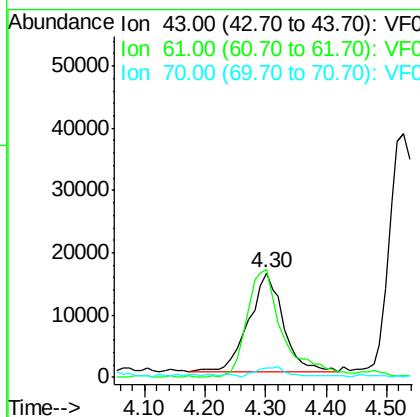
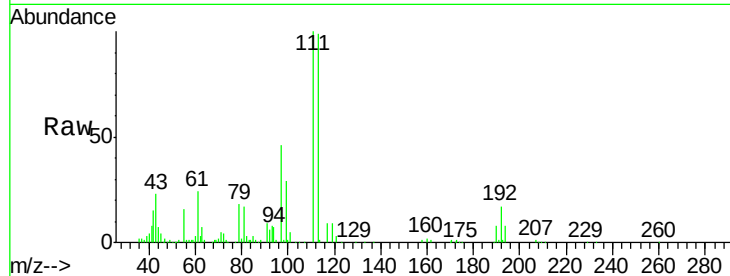
#37
Ethyl Acetate
Concen: 22.296 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	103.5	64.9	97.3#
70	8.8	7.8	11.8

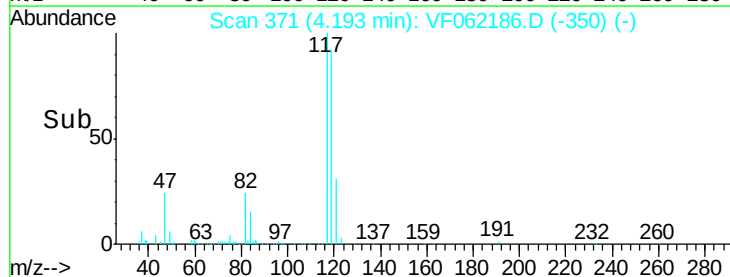
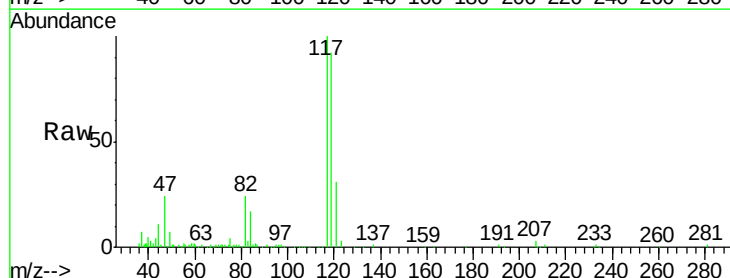
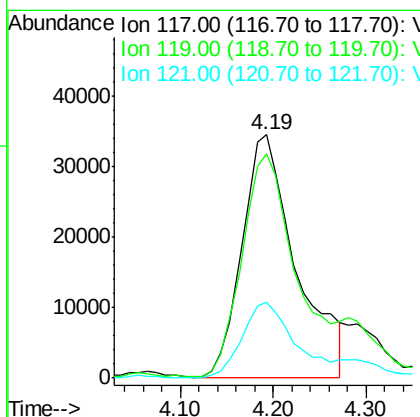
Manual Integrations
APPROVED

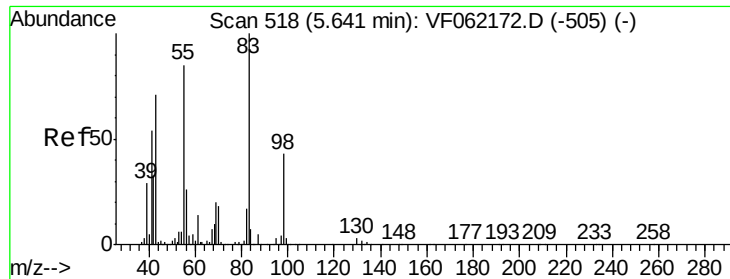
MMDadoda
4/17/2019 11:49:37 AM



#38
Carbon Tetrachloride
Concen: 26.861 ug/l m
RT: 4.19 min Scan# 371
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.4	78.9	118.3
121	31.4	25.3	37.9





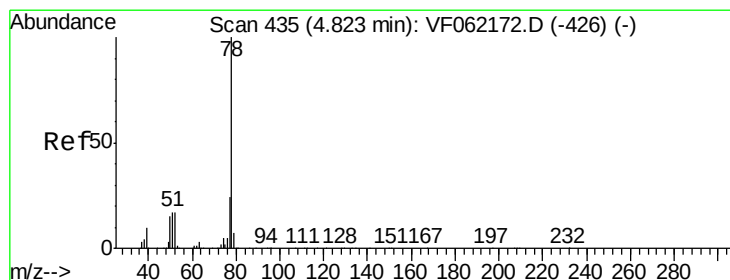
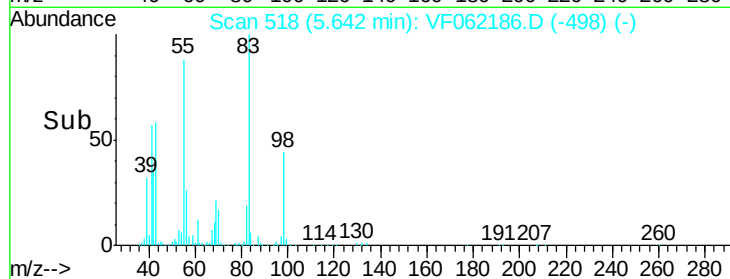
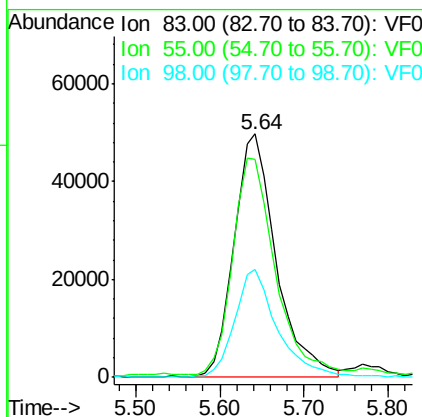
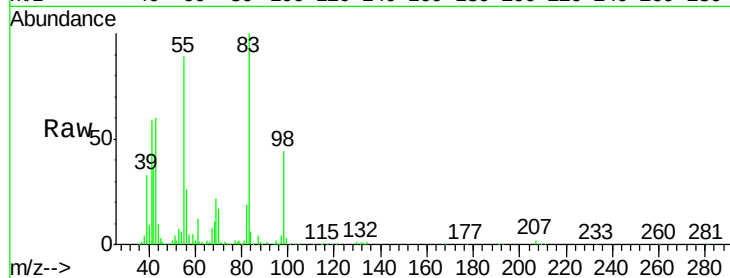
#39
Methylvlcyclohexane
Concen: 22.594 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	89.3	68.2	102.2
98	44.2	34.4	51.6

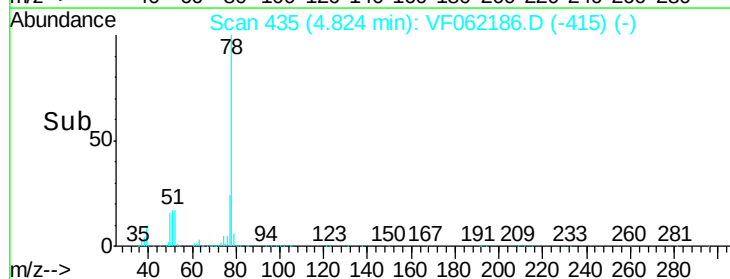
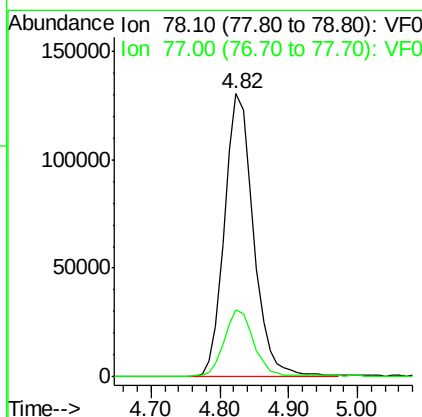
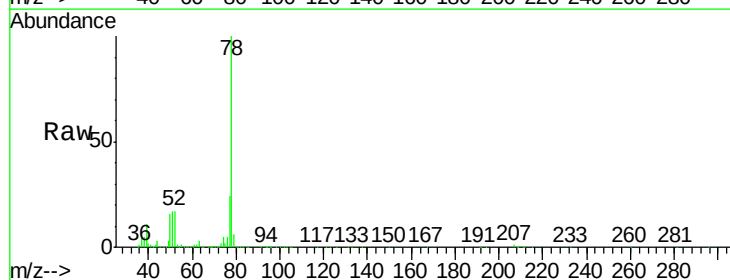
Manual Integrations
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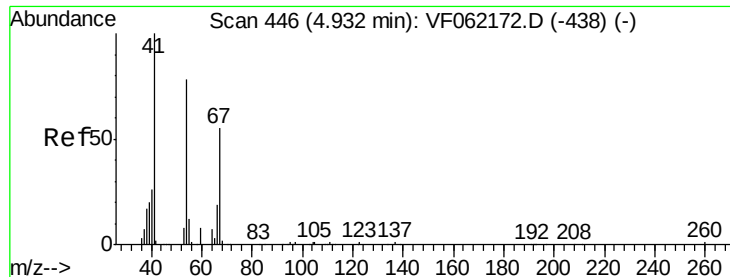
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#40
Benzene
Concen: 23.798 ug/l
RT: 4.82 min Scan# 435
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.1	28.7





#41

Methacrylonitrile

Concen: 22.990 ug/l

RT: 4.93 min Scan# 446

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

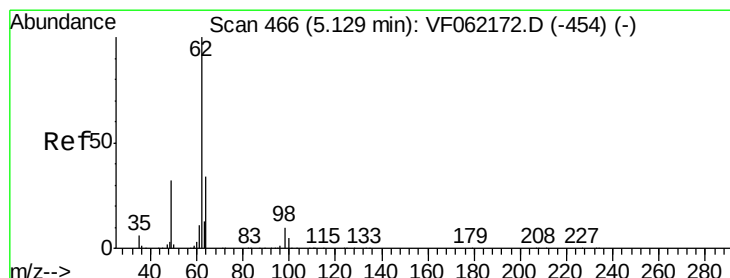
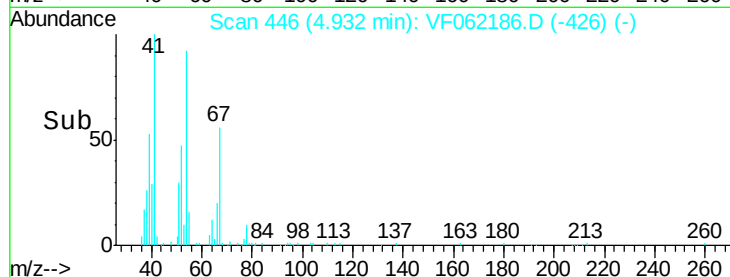
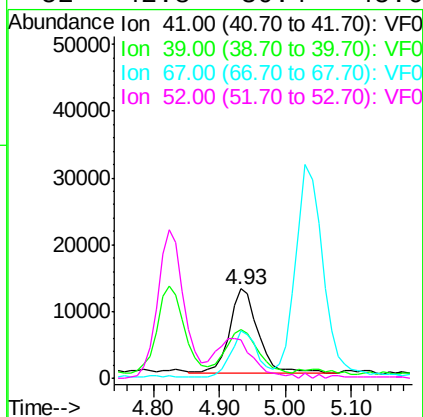
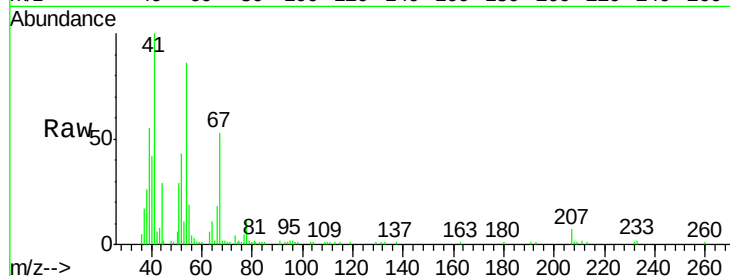
ClientSampleId :

VF0416SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	55.0	43.5	65.3	
67	53.4	42.9	64.3	
52	42.8	30.4	45.6	

Manual Integrations
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4/17/2019 11:49:37 AM



#42

1,2-Dichloroethane

Concen: 22.590 ug/l

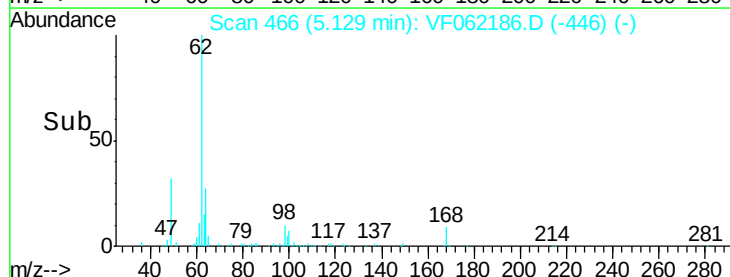
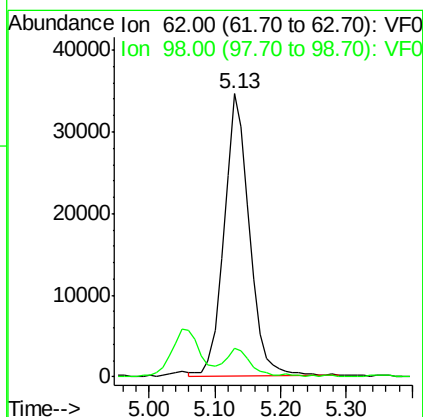
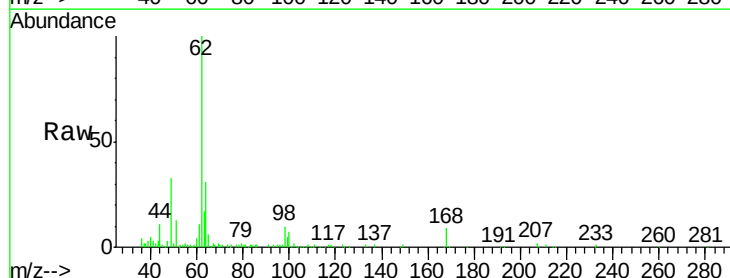
RT: 5.13 min Scan# 466

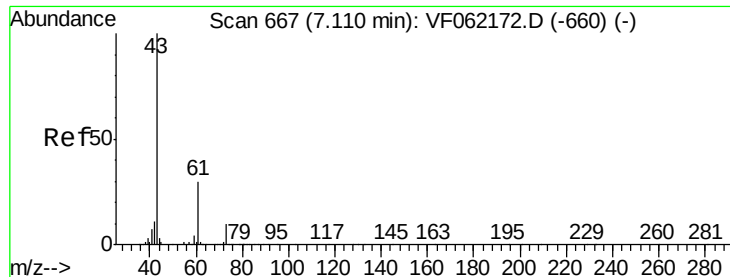
Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.2	0.0	22.0	





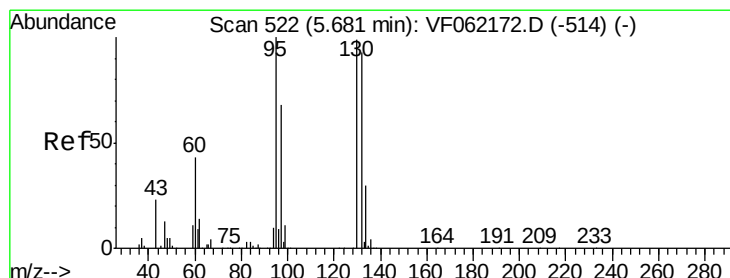
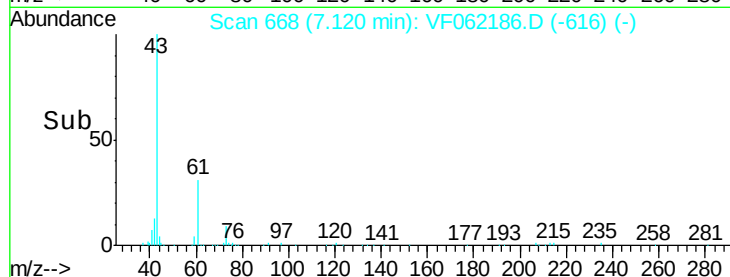
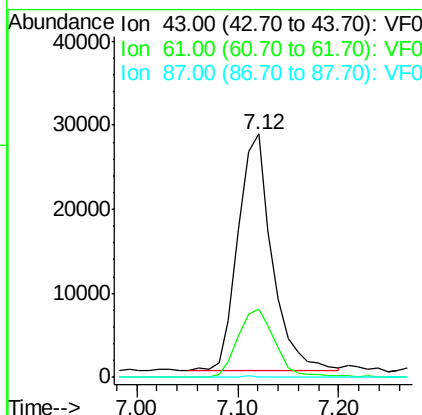
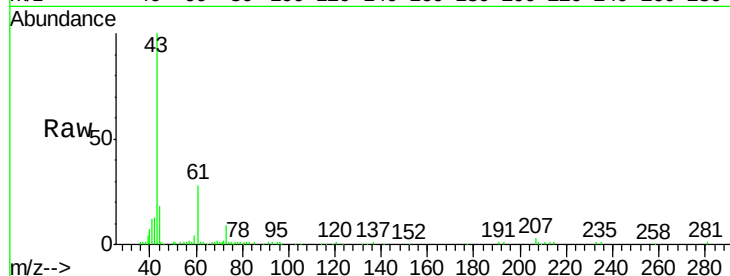
#43
Isopropyl Acetate
Concen: 20.490 ug/l
RT: 7.12 min Scan# 668
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.2	23.7	35.5
87	0.0	0.3	0.5

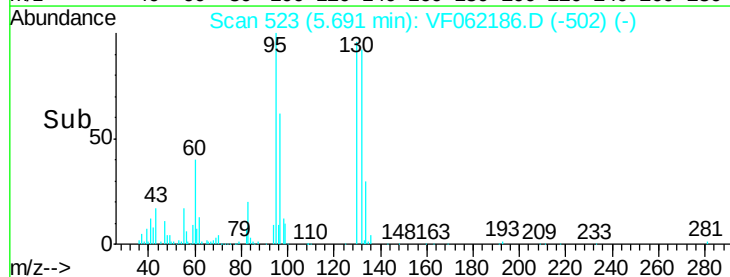
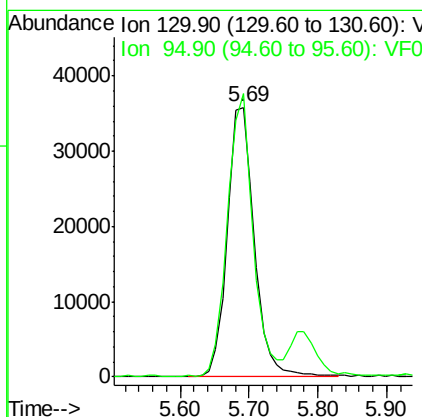
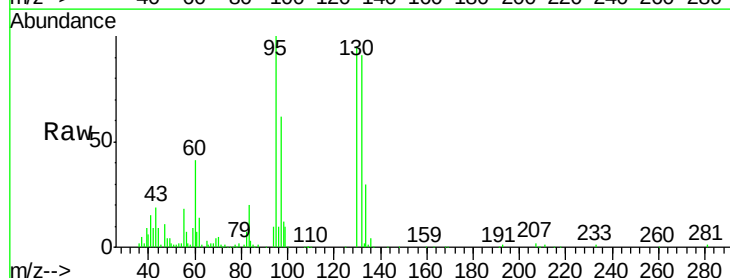
Manual Integrations
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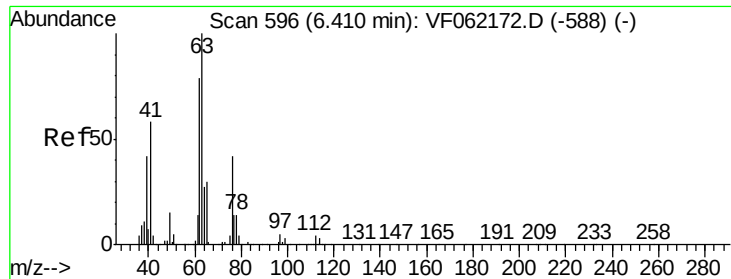
MMDadoda
4/17/2019 11:49:37 AM



#44
Trichloroethene
Concen: 22.609 ug/l
RT: 5.69 min Scan# 523
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.1	0.0	202.2





#45

1,2-Dichloropropane

Concen: 21.642 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 63 Resp: 85534

Ion Ratio Lower Upper

63 100

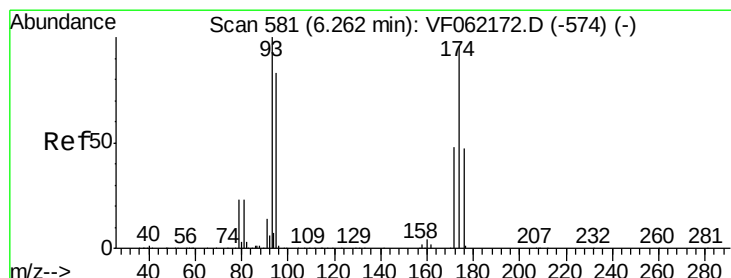
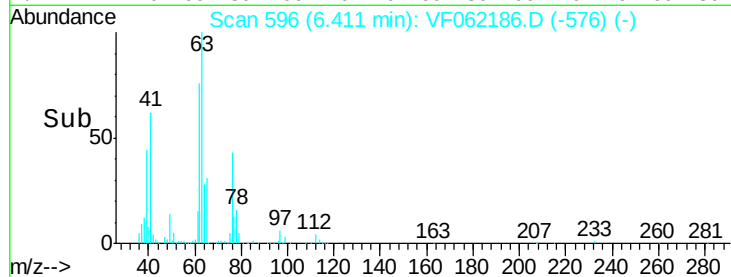
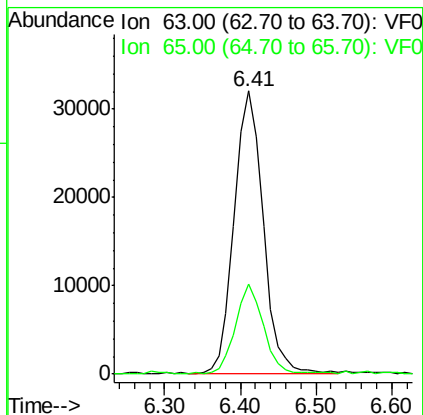
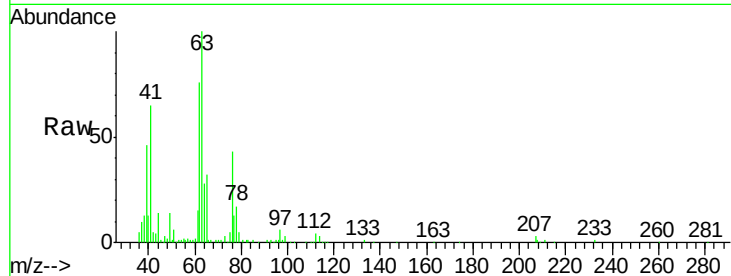
65 31.8 23.7 35.5

Manual Integrations

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4/17/2019 11:49:37 AM



#46

Dibromomethane

Concen: 21.286 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

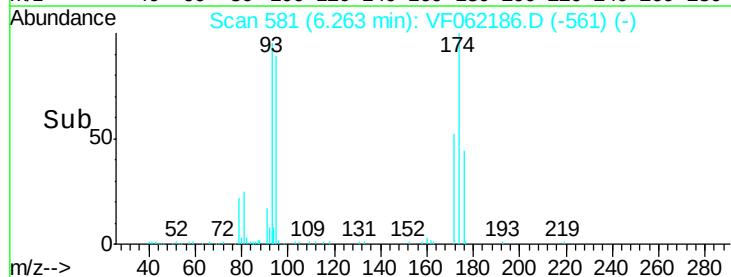
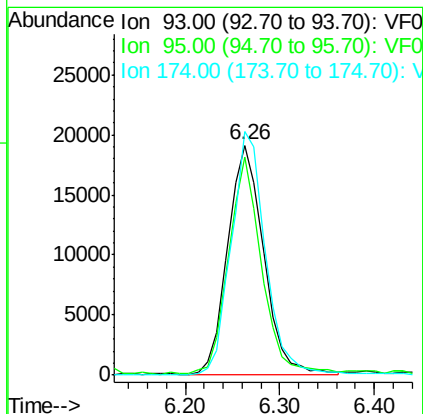
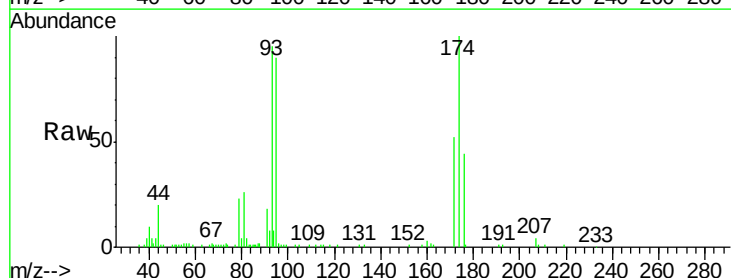
Tgt Ion: 93 Resp: 50729

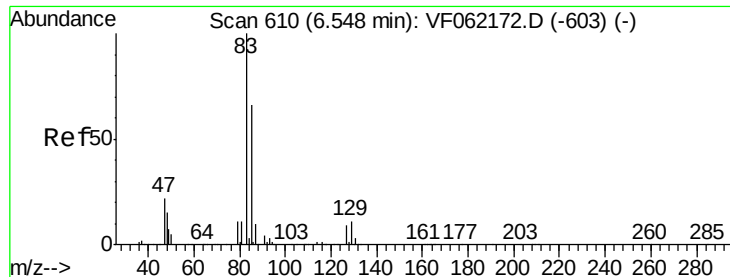
Ion Ratio Lower Upper

93 100

95 94.9 67.0 100.6

174 105.8 76.3 114.5





#47

Bromodichloromethane

Concen: 22.161 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.01 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

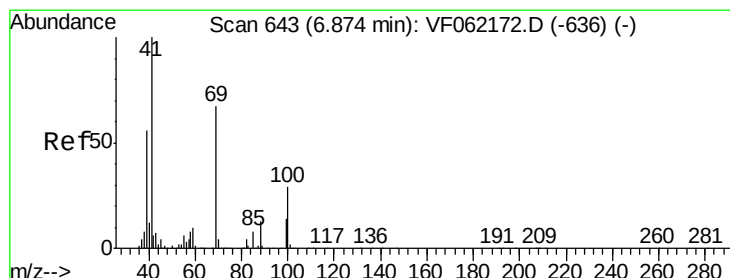
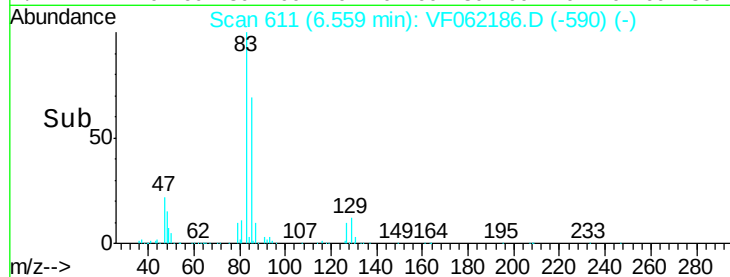
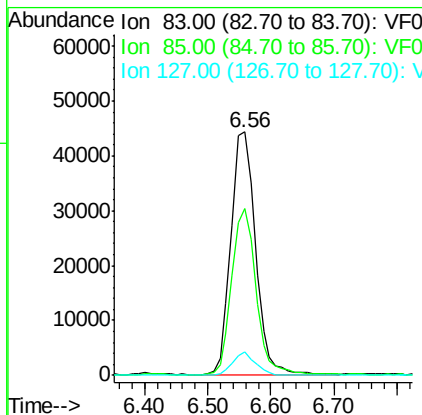
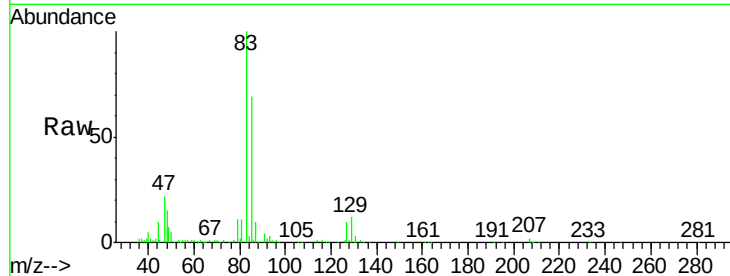
ClientSampleId :

VF0416SBS01

Tot Ion:	83	Resp:	119651
Ion	Ratio	Lower	Upper
83	100		
85	68.6	52.6	79.0
127	9.8	6.8	10.2

Manual Integrations
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4/17/2019 11:49:37 AM



#48

Methyl methacrylate

Concen: 19.628 ug/l

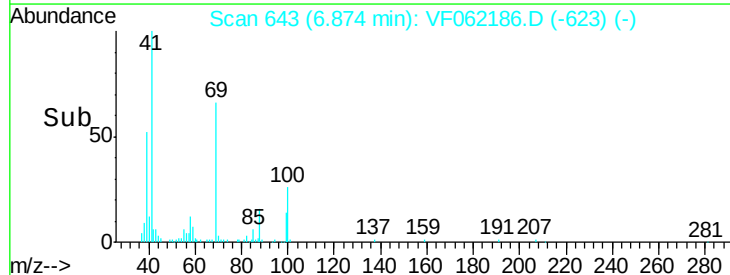
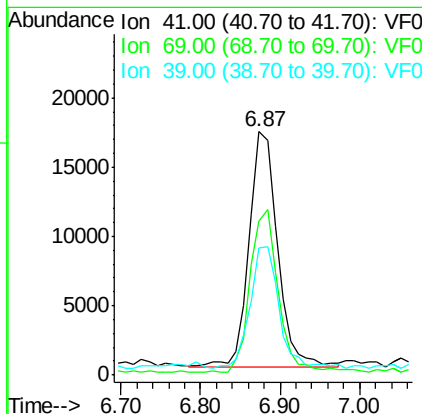
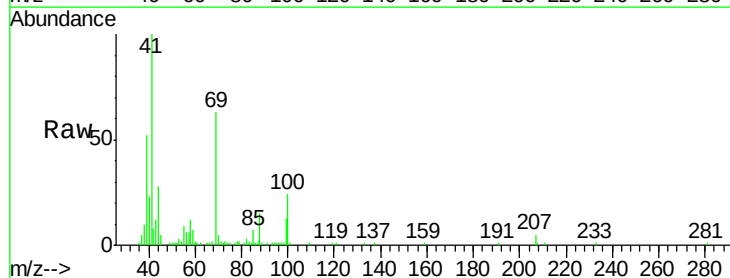
RT: 6.87 min Scan# 643

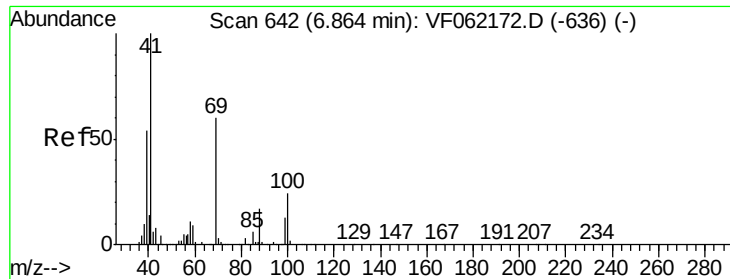
Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion:	41	Resp:	41727
Ion	Ratio	Lower	Upper
41	100		
69	63.1	52.8	79.2
39	52.4	45.0	67.4





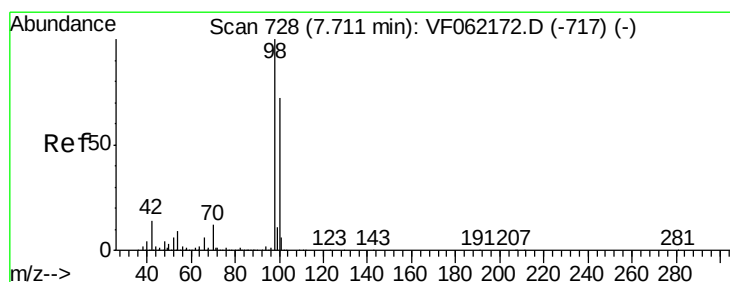
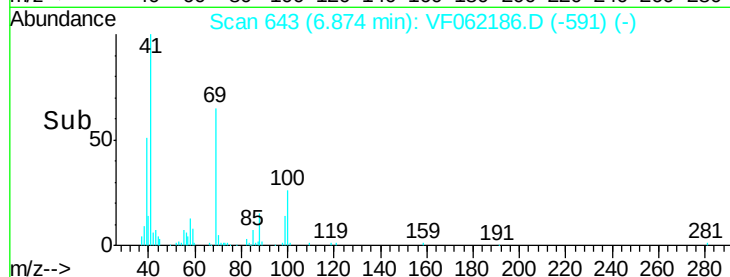
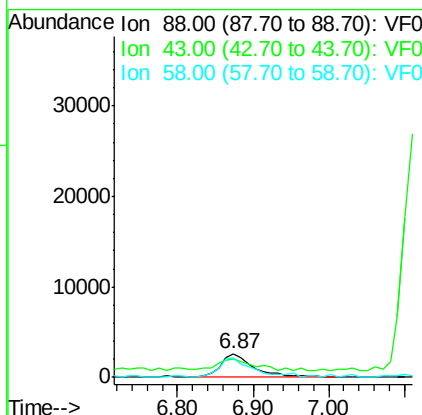
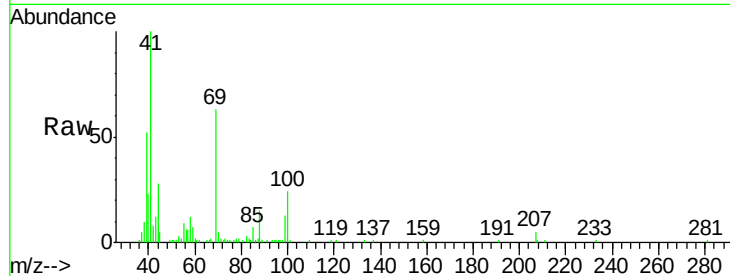
#49
1,4-Dioxane
Concen: 496.915 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	79.7	49.5	74.3#
58	82.4	52.6	79.0#

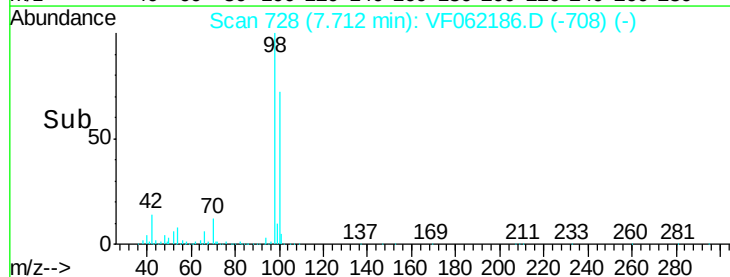
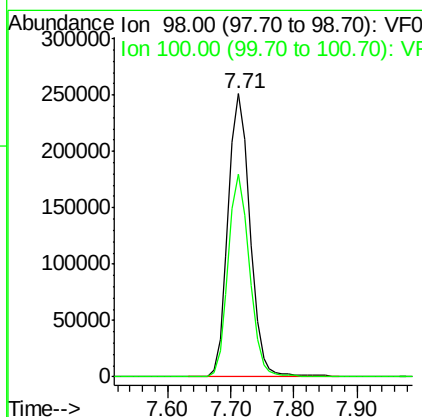
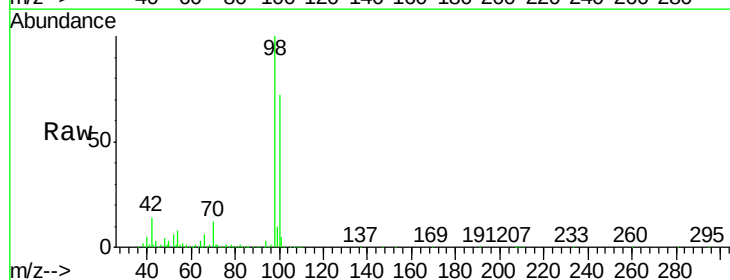
Manual Integrations
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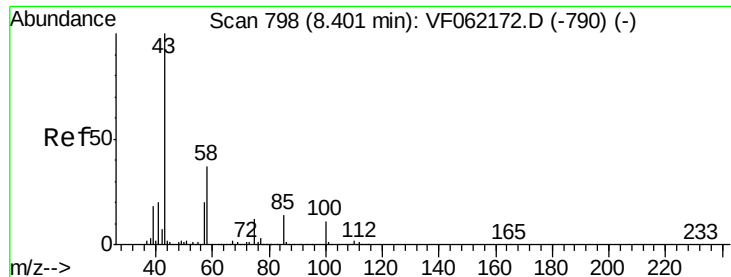
MMDadoda
4/17/2019 11:49:37 AM



#50
Toluene-d8
Concen: 47.932 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.8	57.4	86.0





#51

4-Methyl-2-Pentanone

Concen: 104.121 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 43 Resp: 260515

Ion Ratio Lower Upper

43 100

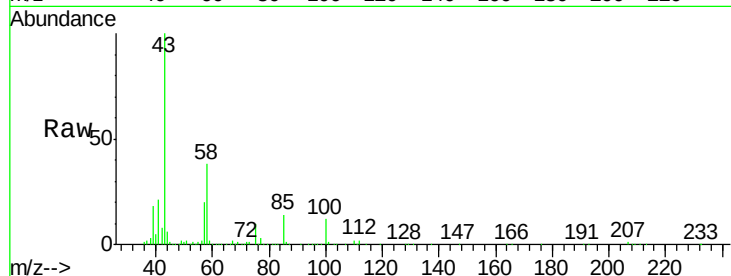
58 38.2 29.7 44.5

Manual Integrations

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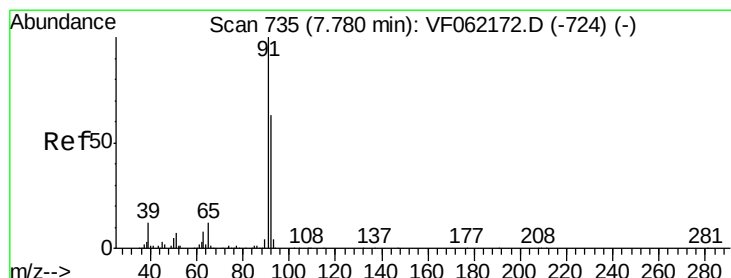
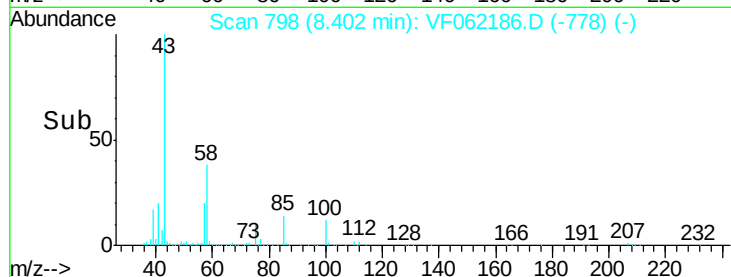
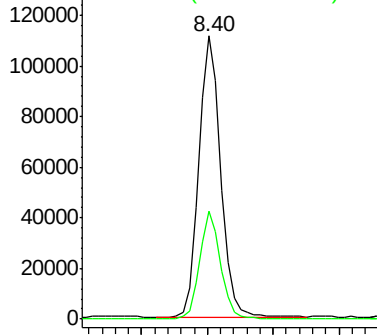
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.144 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.00 min

Lab File: VF062186.D

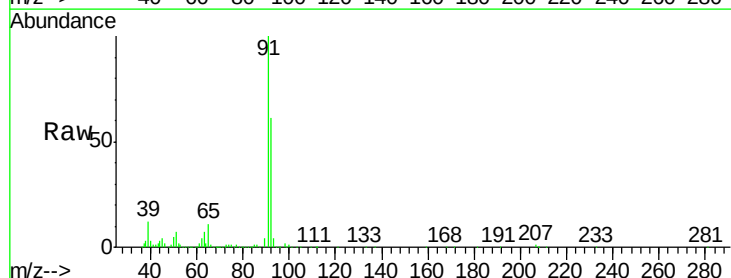
Acq: 16 Apr 2019 20:08

Tgt Ion: 92 Resp: 200108

Ion Ratio Lower Upper

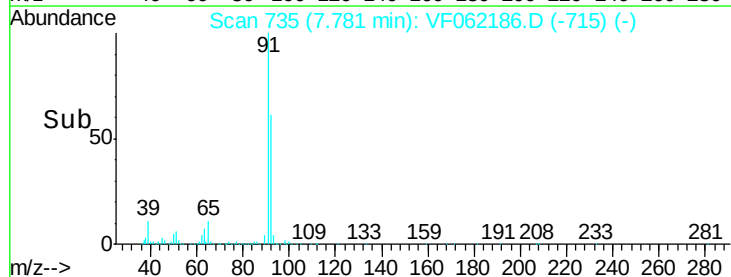
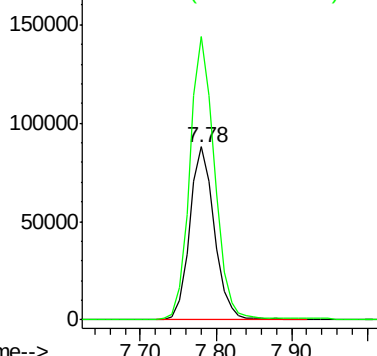
92 100

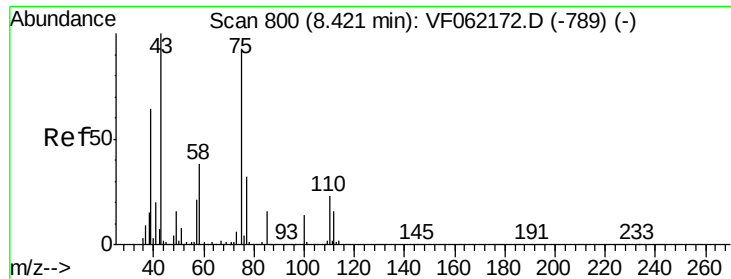
91 163.8 126.9 190.3



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 18.584 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 75 Resp: 86912

Ion Ratio Lower Upper

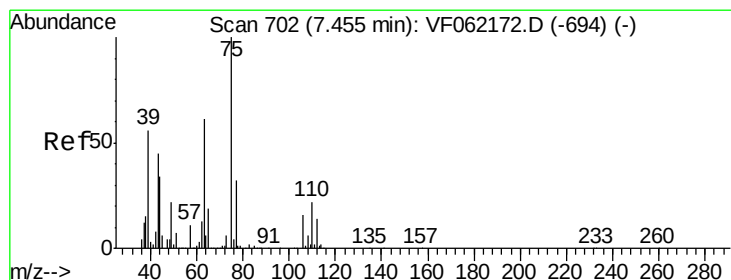
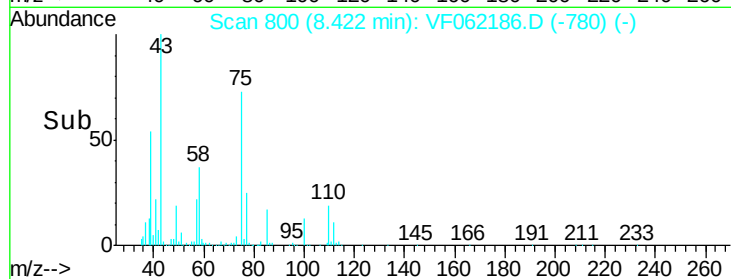
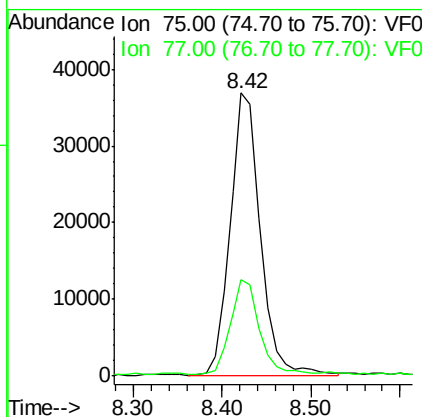
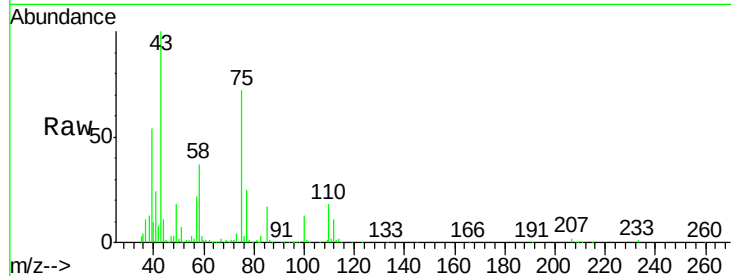
75 100

77 34.1 27.8 41.6

Manual Integrations
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4/17/2019 11:49:37 AM



#54

cis-1,3-Dichloropropene

Concen: 21.279 ug/l

RT: 7.46 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

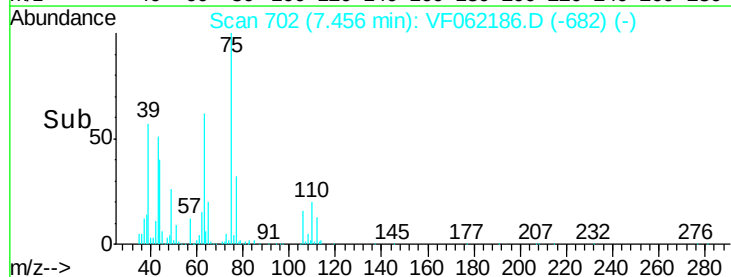
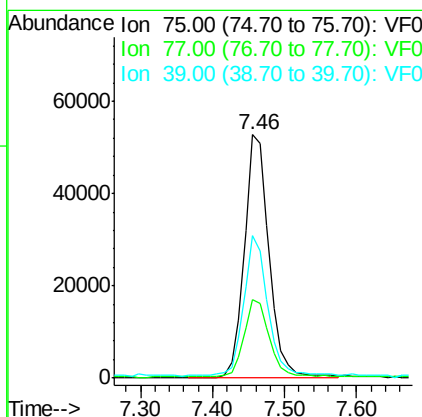
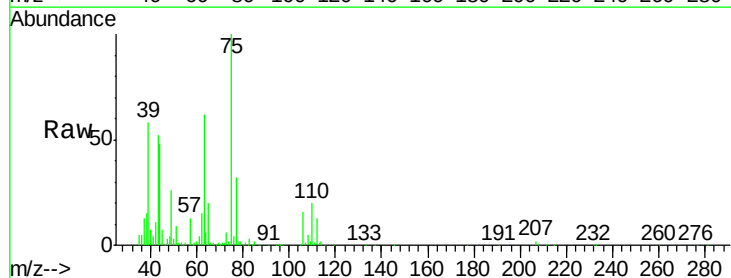
Tgt Ion: 75 Resp: 126543

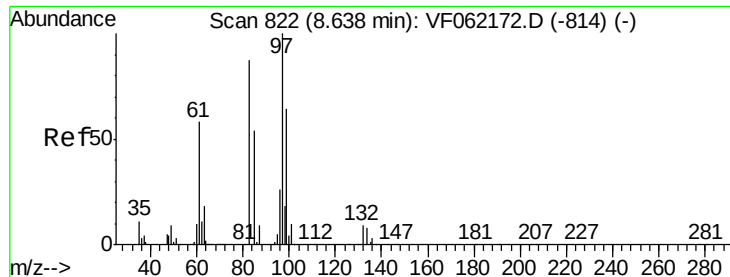
Ion Ratio Lower Upper

75 100

77 32.4 26.0 39.0

39 58.3 45.2 67.8





#55

1,1,2-Trichloroethane

Concen: 18.501 ug/l

RT: 8.64 min Scan# 822

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

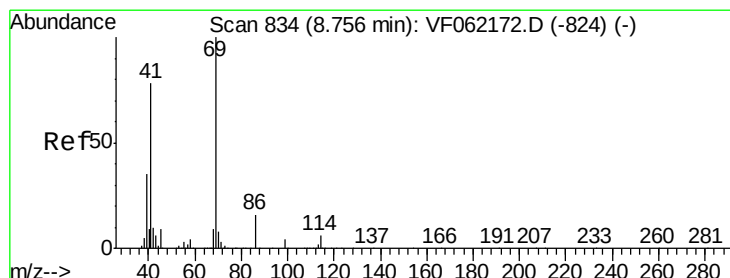
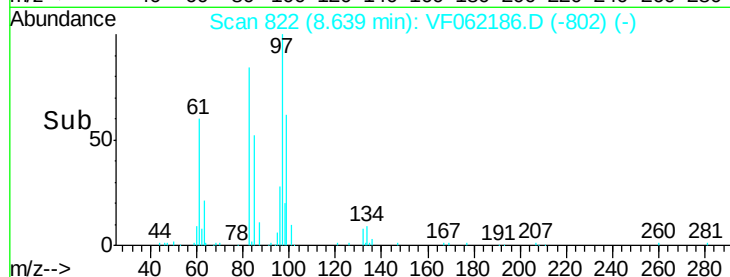
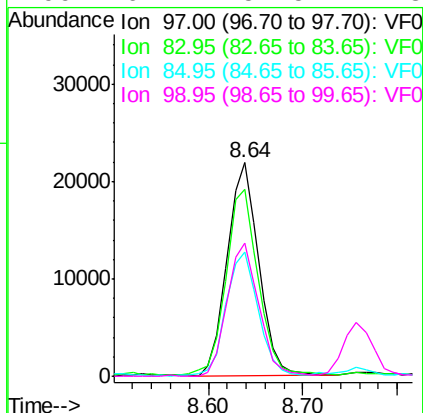
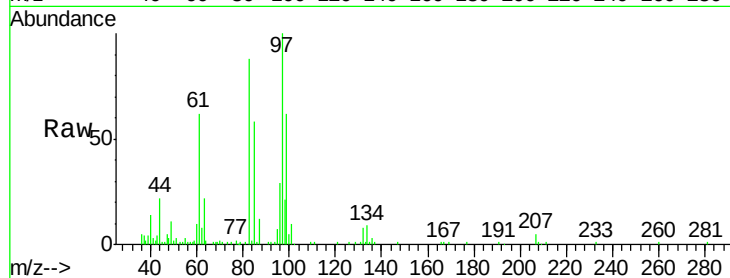
ClientSampleId :

VF0416SBS01

Tot Ion:	97	Resp:	50150
Ion	Ratio	Lower	Upper
97	100		
83	87.6	69.6	104.4
85	58.4	43.5	65.3
99	62.4	51.5	77.3

Manual Integrations
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4/17/2019 11:49:37 AM



#56

Ethyl methacrylate

Concen: 20.145 ug/l

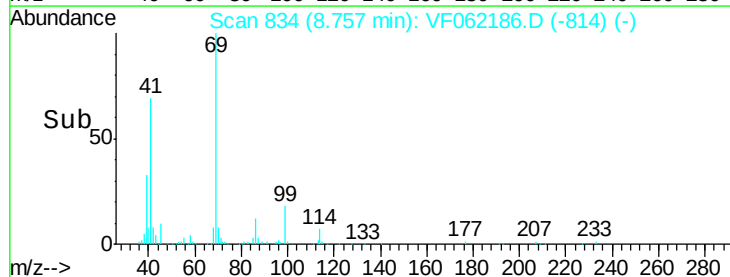
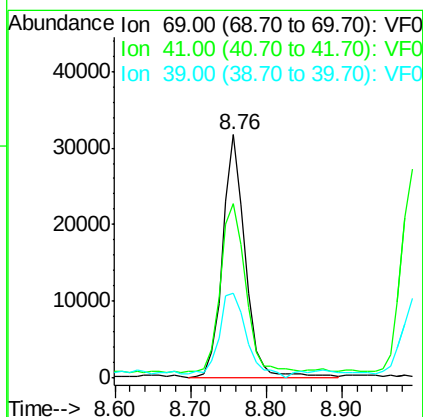
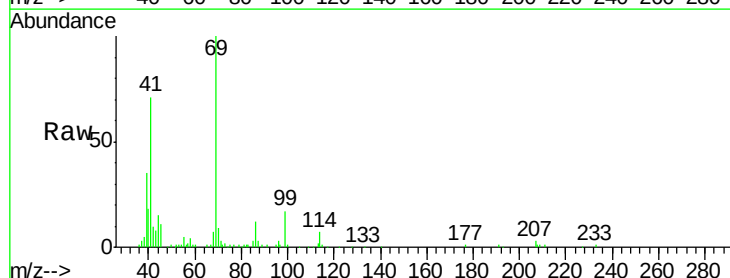
RT: 8.76 min Scan# 834

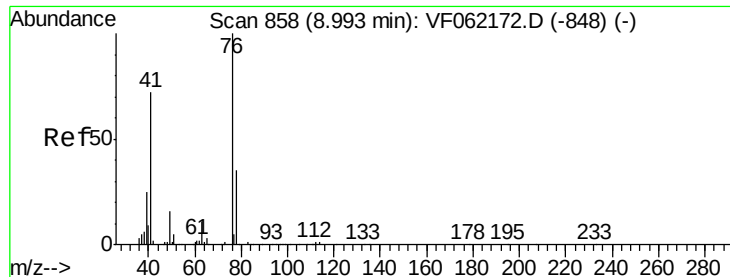
Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion:	69	Resp:	64932
Ion	Ratio	Lower	Upper
69	100		
41	71.4	63.4	95.0
39	34.9	29.0	43.6





#57

1,3-Dichloropropane

Concen: 19.268 ug/l

RT: 8.99 min Scan# 858

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 76 Resp: 85865

Ion Ratio Lower Upper

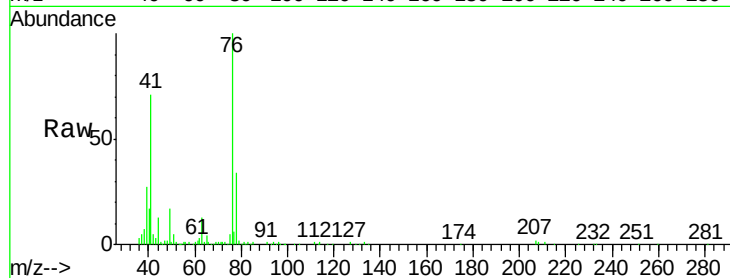
76 100

78 33.6 28.2 42.2

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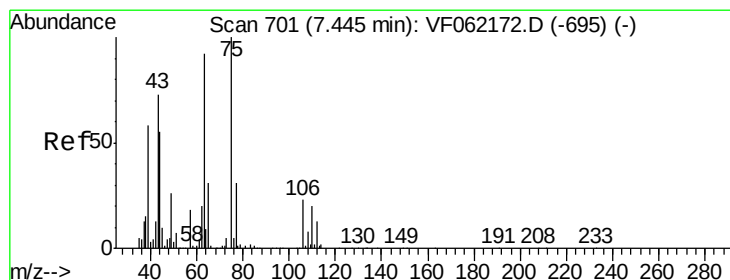
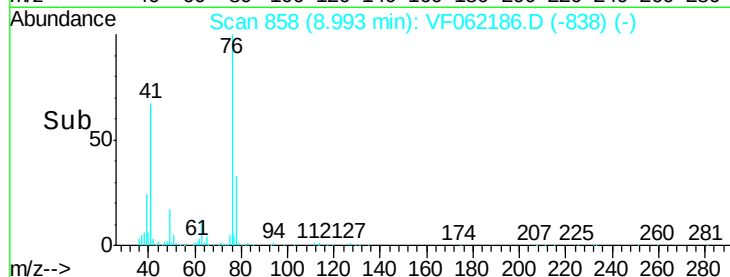
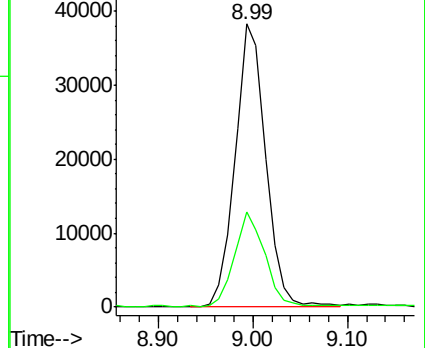
MMDadoda

4/17/2019 11:49:37 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 97.272 ug/l

RT: 7.46 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF062186.D

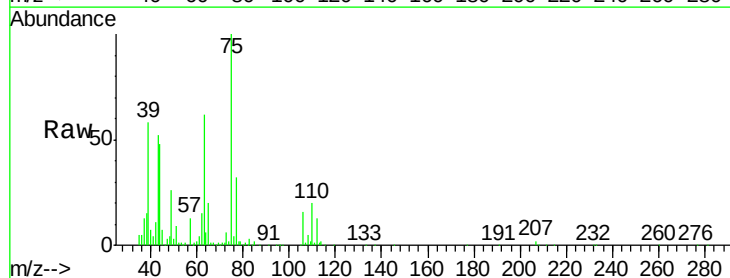
Acq: 16 Apr 2019 20:08

Tgt Ion: 63 Resp: 80780

Ion Ratio Lower Upper

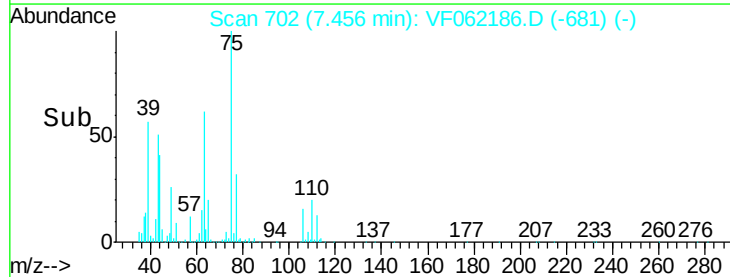
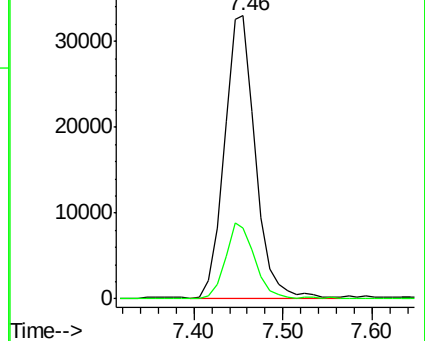
63 100

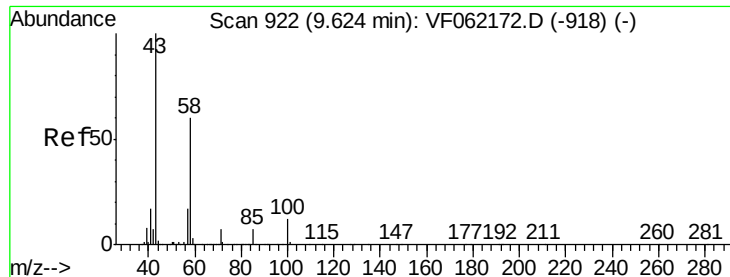
106 25.1 20.2 30.4



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





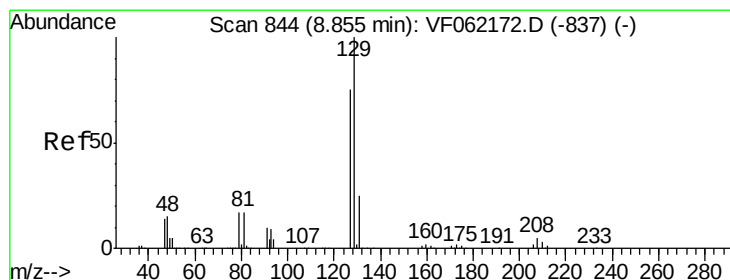
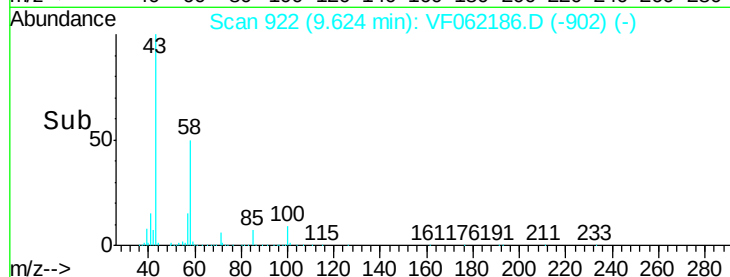
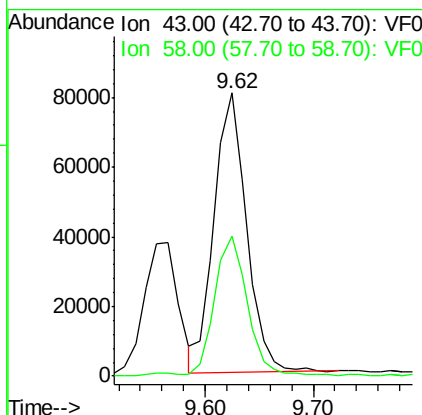
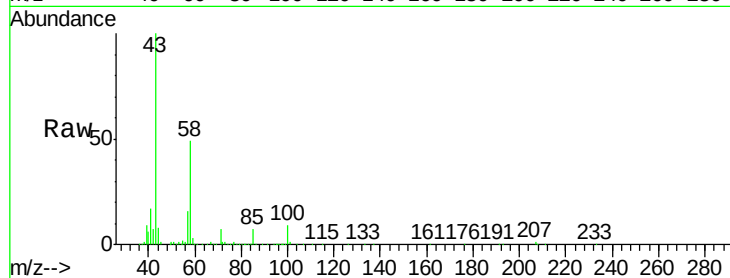
#59
2-Hexanone
Concen: 105.087 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.3	26.8	80.4

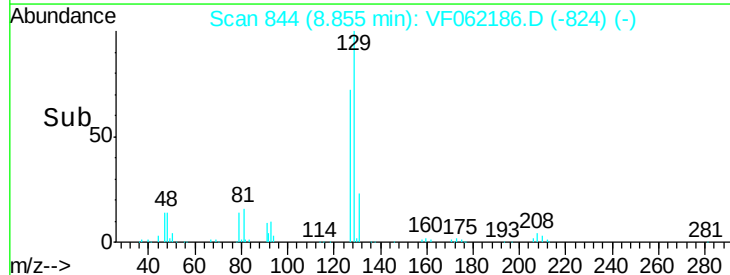
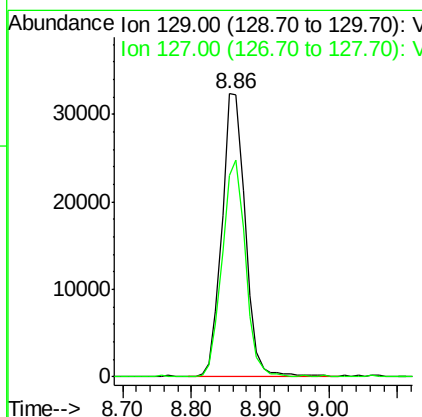
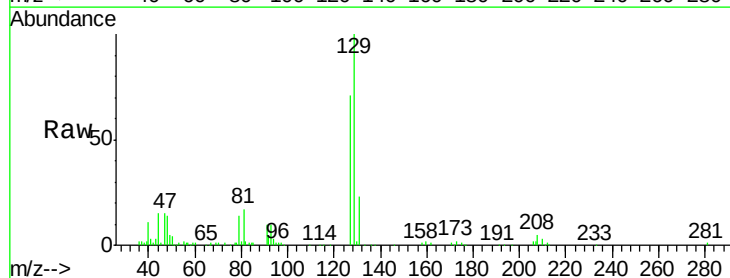
Manual Integrations
APPROVED

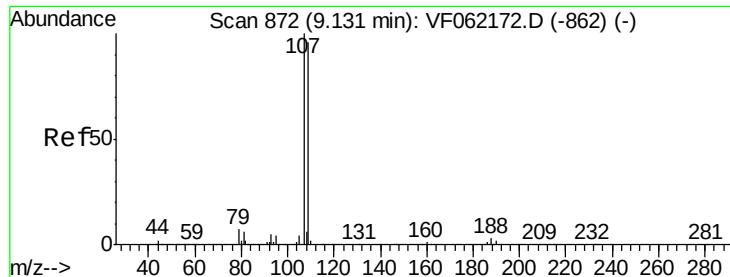
MMDadoda
4/17/2019 11:49:37 AM



#60
Dibromochloromethane
Concen: 20.557 ug/l
RT: 8.86 min Scan# 844
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
129	100		
127	71.3	37.7	113.1





#61

1,2-Dibromoethane

Concen: 19.262 ug/l

RT: 9.13 min Scan# 872

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 107 Resp: 55859

Ion Ratio Lower Upper

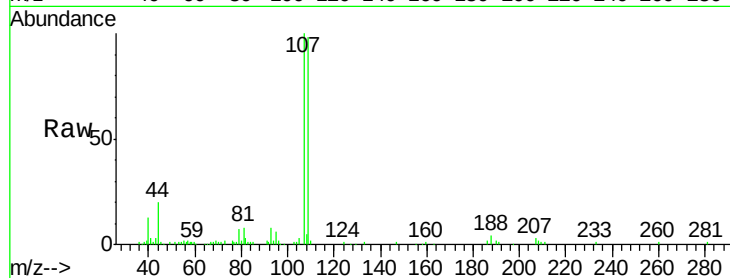
107 100

109 98.4 76.8 115.2

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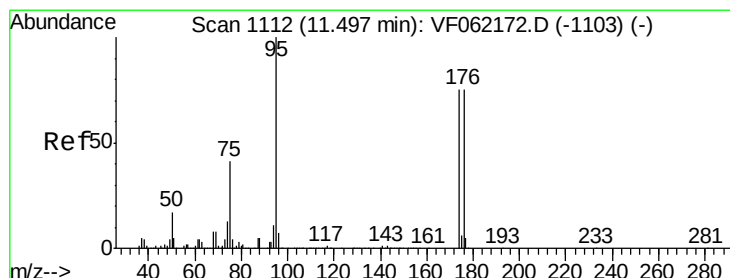
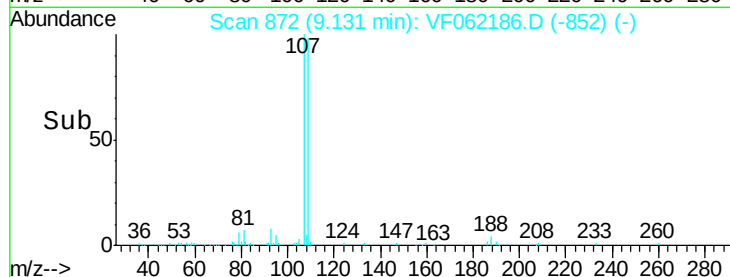
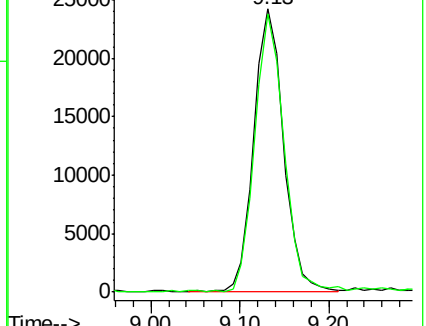
MMDadoda

4/17/2019 11:49:37 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 46.639 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

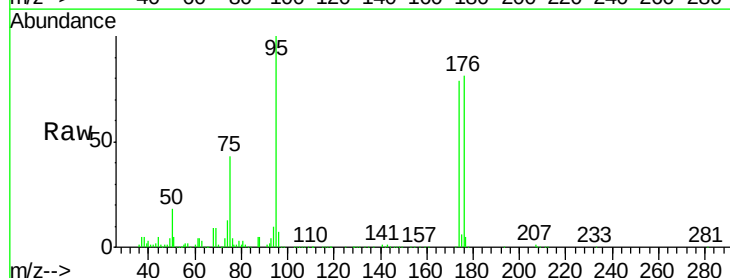
Tgt Ion: 95 Resp: 233054

Ion Ratio Lower Upper

95 100

174 79.0 0.0 150.2

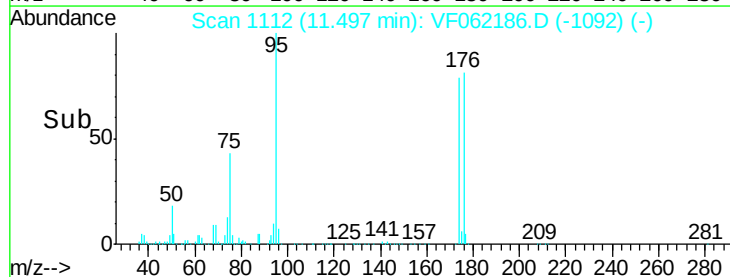
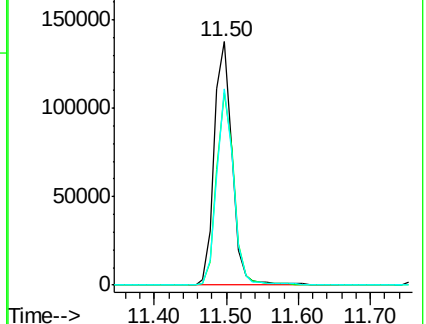
176 80.6 0.0 149.4

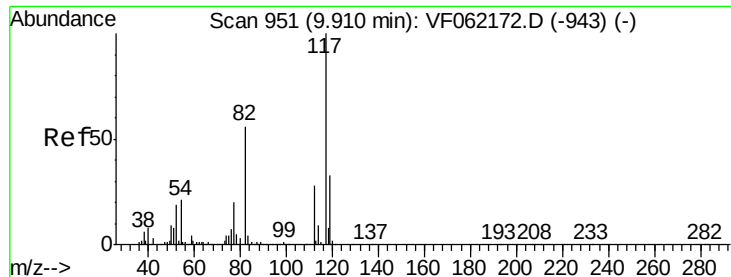


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

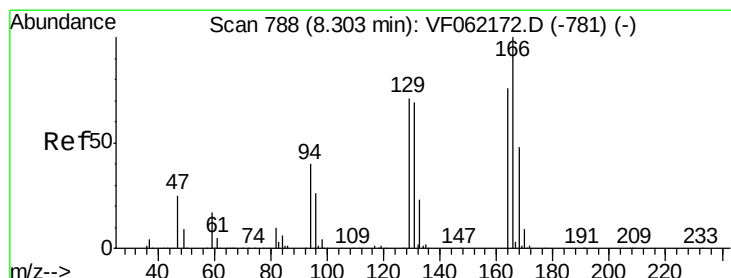
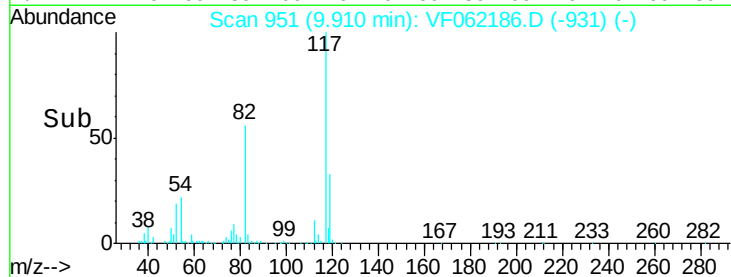
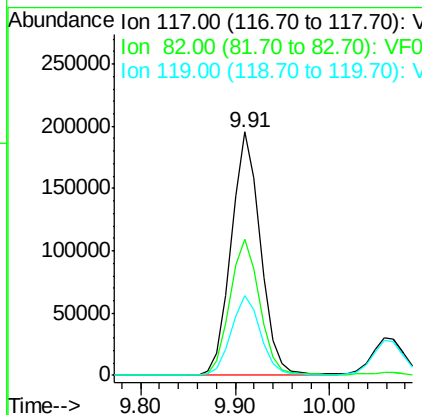
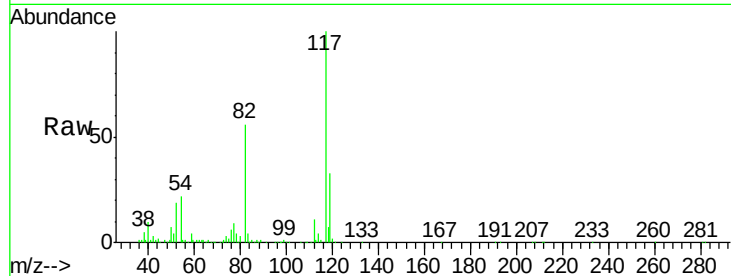
ClientSampleId :

VF0416SBS01

Tot Ion:	117	Resp:	421351
Ion Ratio	Lower	Upper	
117	100		
82	55.9	45.2	67.8
119	33.0	26.6	39.8

Manual Integrations
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#64

Tetrachloroethene

Concen: 22.975 ug/l

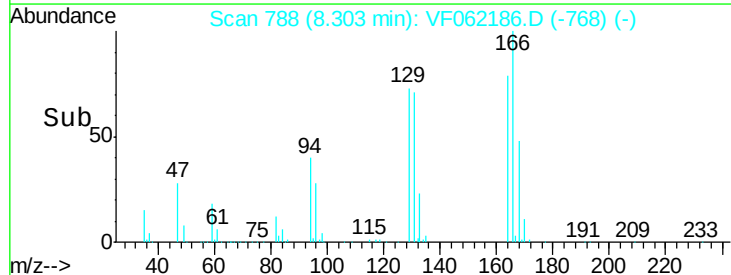
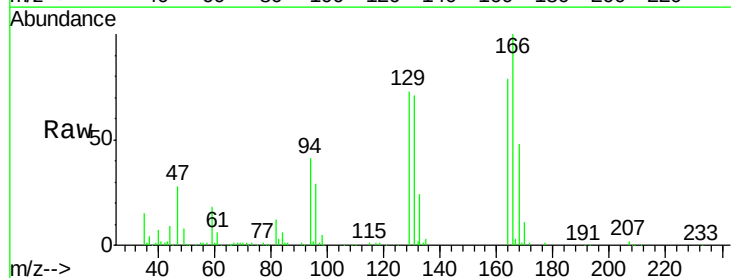
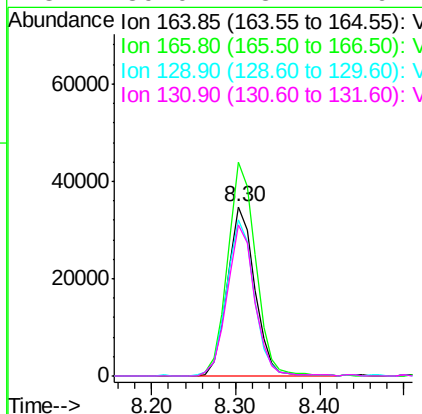
RT: 8.30 min Scan# 788

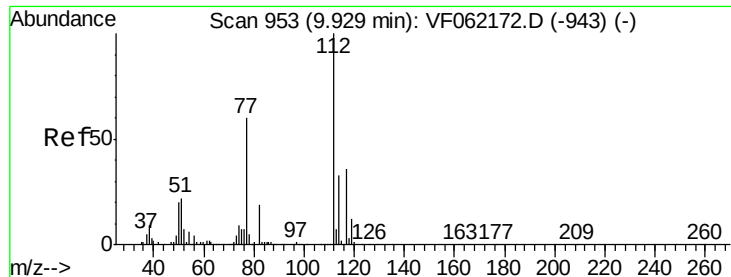
Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion:	164	Resp:	79067
Ion Ratio	Lower	Upper	
164	100		
166	126.2	105.9	158.9
129	92.1	75.3	112.9
131	89.0	73.4	110.2





#65

Chlorobenzene

Concen: 22.223 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:112 Resp: 194785

Ion Ratio Lower Upper

112 100

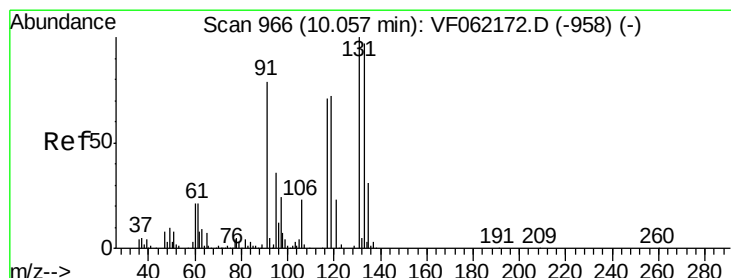
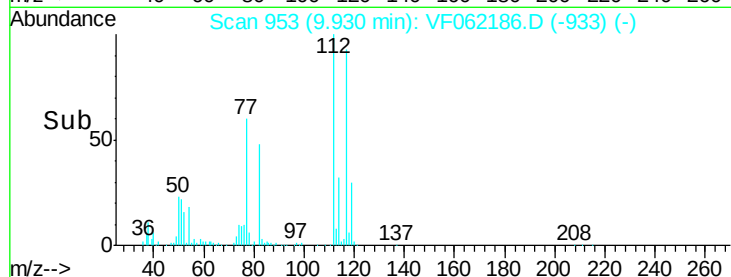
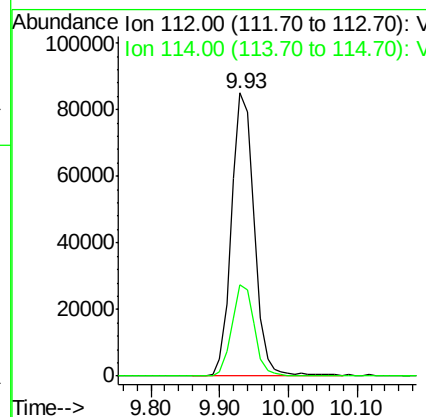
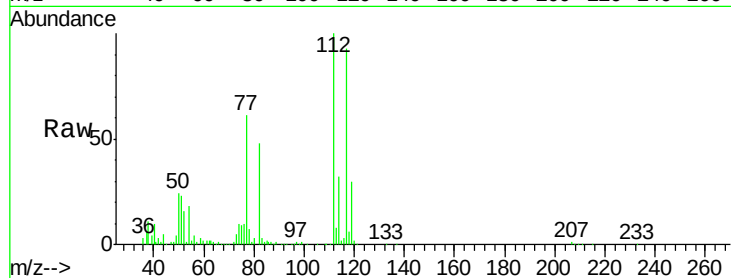
114 32.3 26.6 39.8

Manual Integrations

APPROVED

MMDadoda

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#66

1,1,1,2-Tetrachloroethane

Concen: 25.557 ug/l

RT: 10.07 min Scan# 967

Delta R.T. 0.01 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

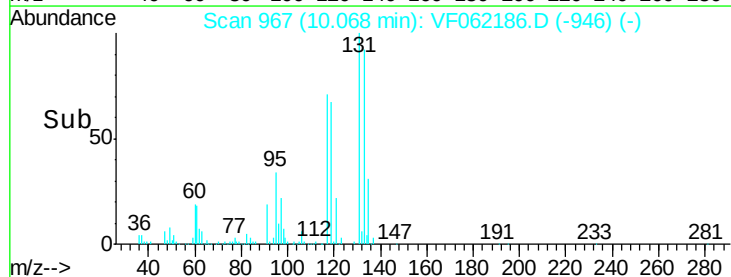
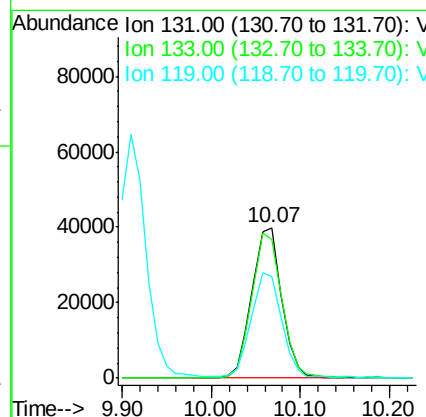
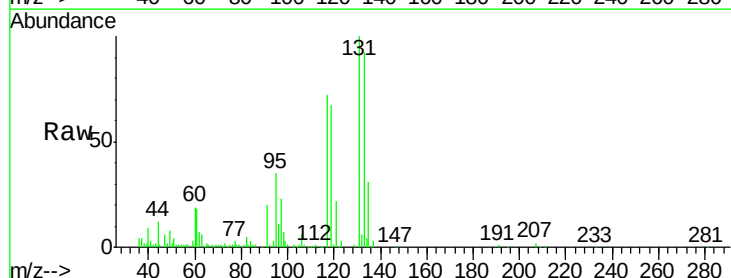
Tgt Ion:131 Resp: 92481

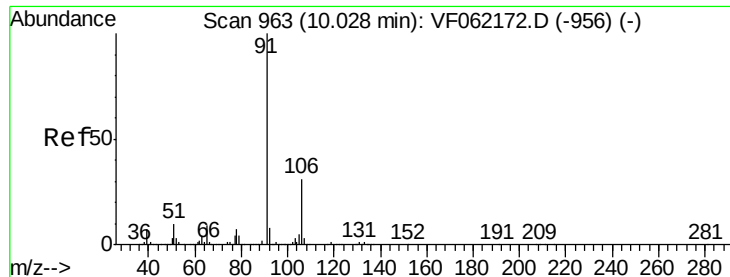
Ion Ratio Lower Upper

131 100

133 92.4 48.4 145.2

119 67.2 36.3 108.9





#67

Ethyl Benzene

Concen: 22.447 ug/l

RT: 10.03 min Scan# 963

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 91 Resp: 364719

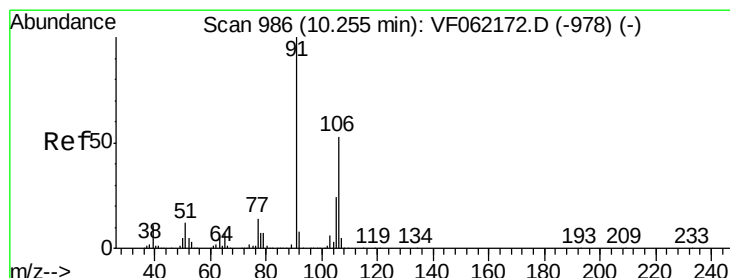
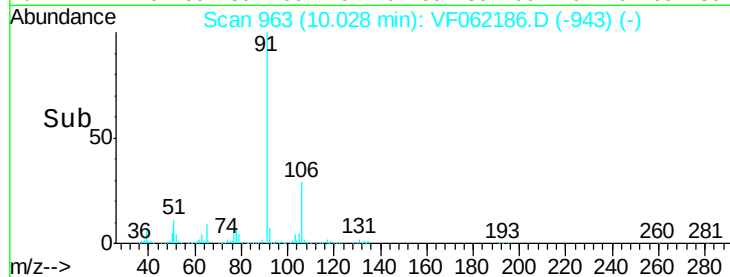
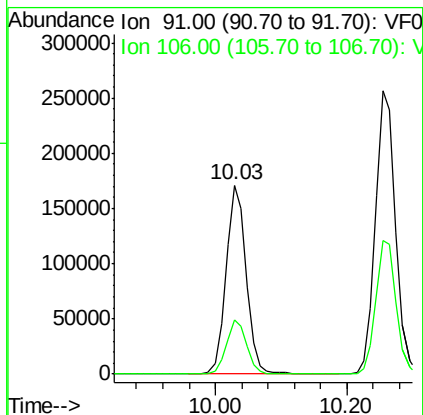
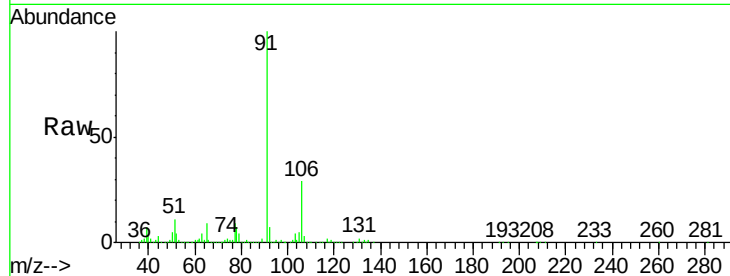
Ion Ratio Lower Upper

91 100

106 28.9 24.7 37.1

Manual Integrations
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#68

m/p-Xylenes

Concen: 43.854 ug/l

RT: 10.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VF062186.D

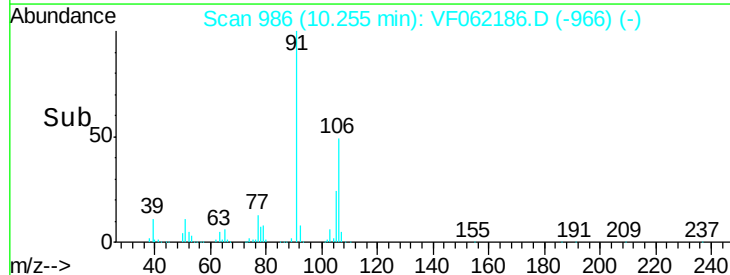
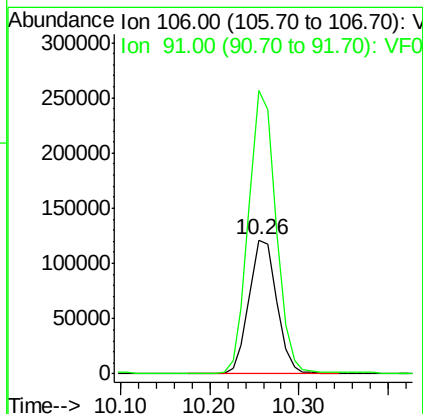
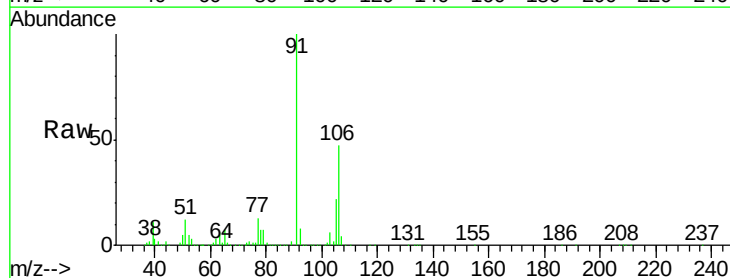
Acq: 16 Apr 2019 20:08

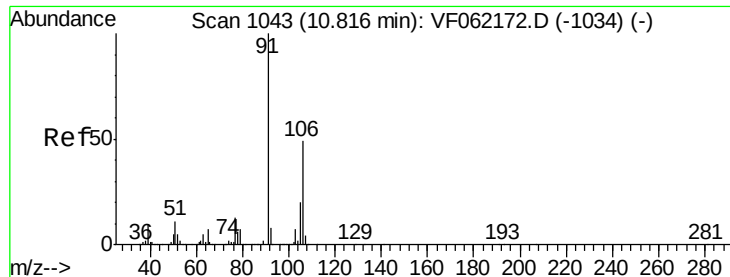
Tgt Ion: 106 Resp: 262293

Ion Ratio Lower Upper

106 100

91 211.6 151.7 227.5





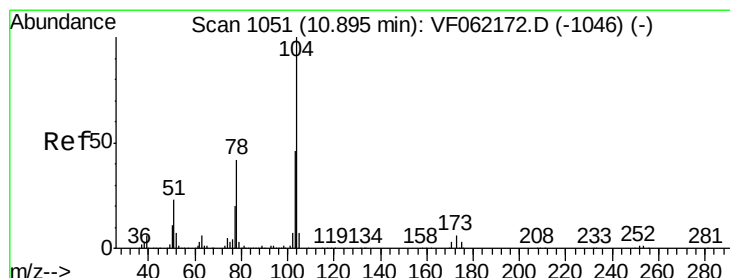
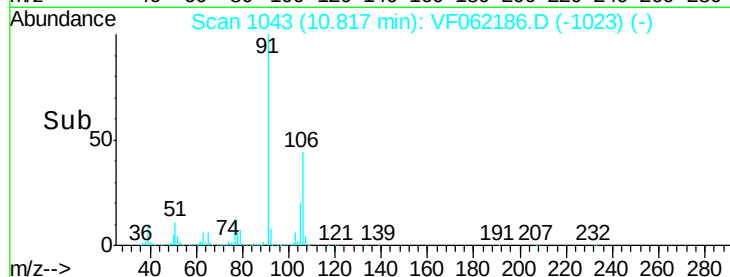
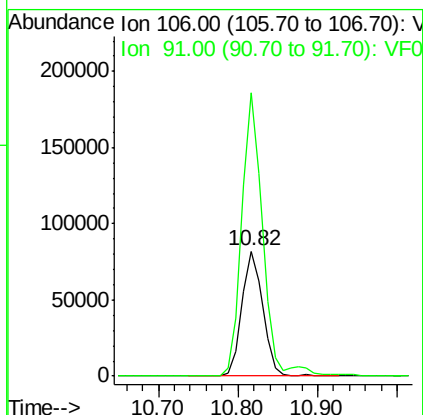
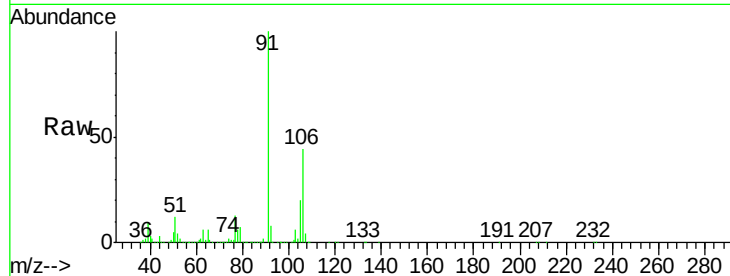
#69
o-Xylene
Concen: 23.223 ug/l
RT: 10.82 min Scan# 1043
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	150381		
91	91	226.3	101.9	305.7	

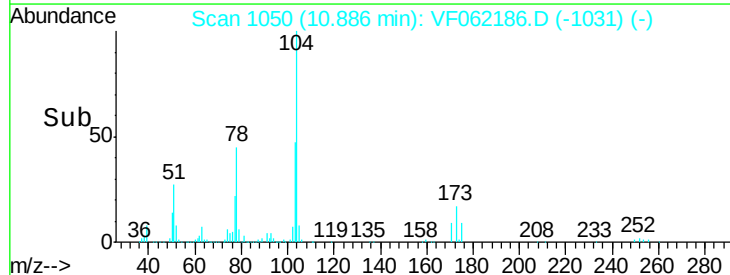
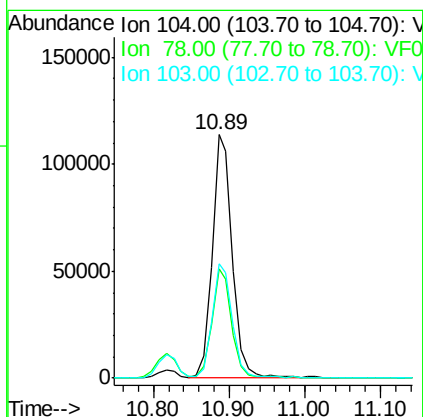
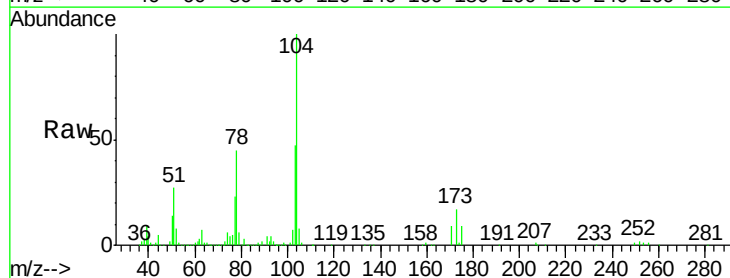
Manual Integrations
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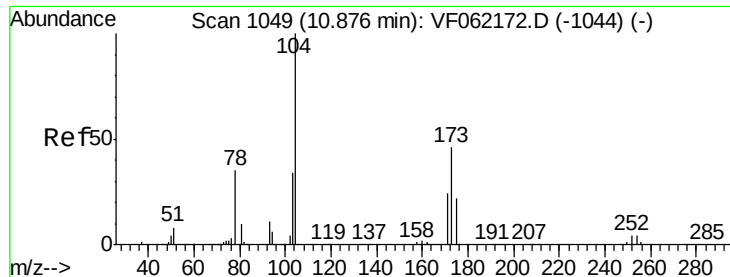
MMDadoda
4/17/2019 11:49:37 AM



#70
Styrene
Concen: 22.446 ug/l
RT: 10.89 min Scan# 1050
Delta R.T. -0.01 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	211387		
78	78	44.6	33.7	50.5	
103	103	47.0	37.2	55.8	





#71

Bromoform

Concen: 22.933 ug/l

RT: 10.88 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

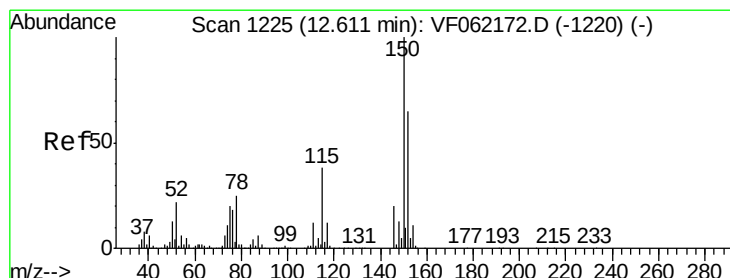
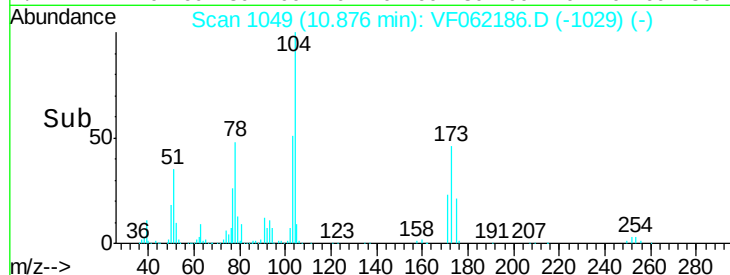
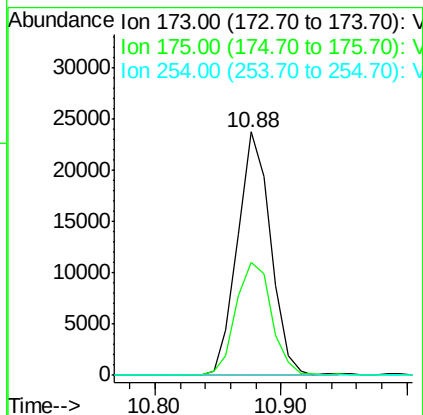
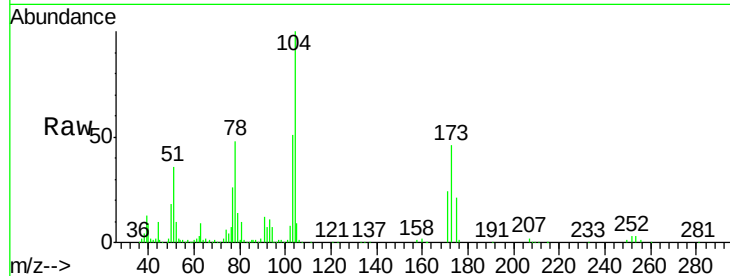
ClientSampleId :

VF0416SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.4	24.3	72.8
254	0.0	6.6	9.8#

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

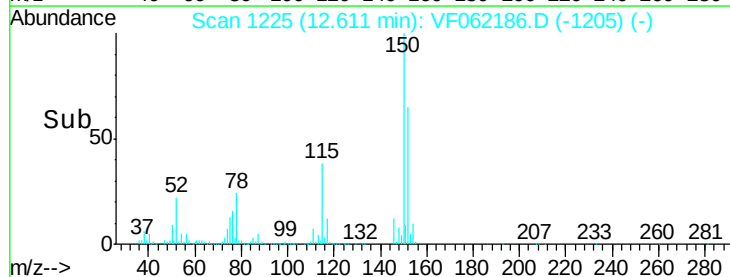
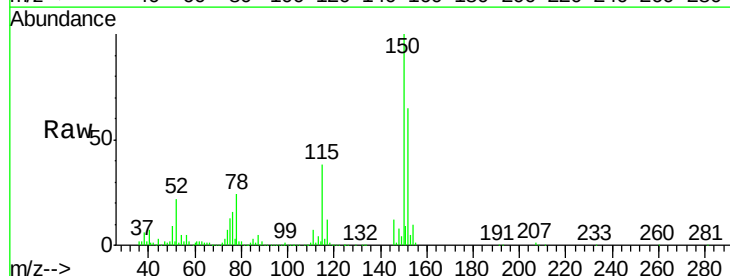
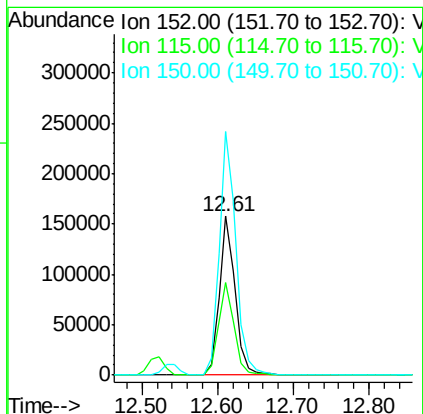
RT: 12.61 min Scan# 1225

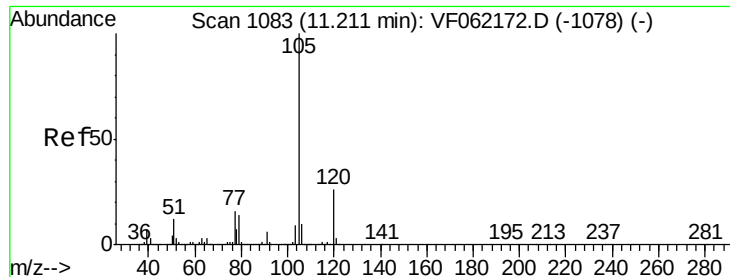
Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.9	29.0	87.1
150	153.3	0.0	309.2





#73

Isopropylbenzene

Concen: 22.148 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:105 Resp: 443763

Ion Ratio Lower Upper

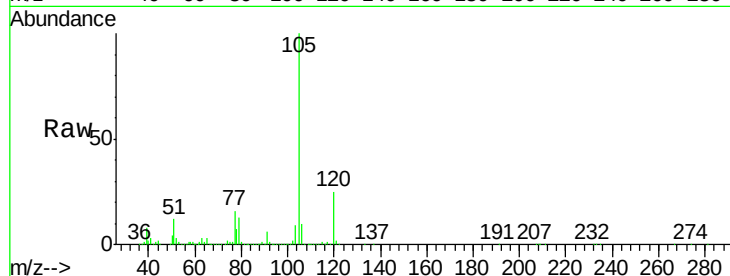
105 100

120 24.8 13.0 38.9

Manual Integrations
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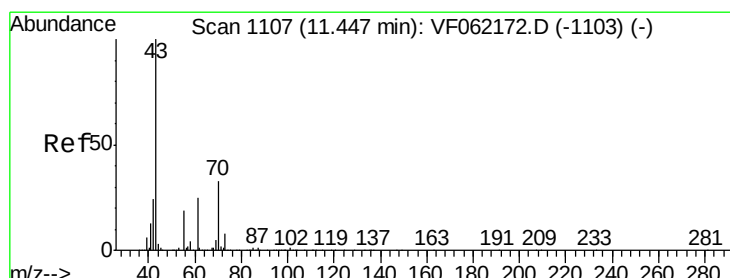
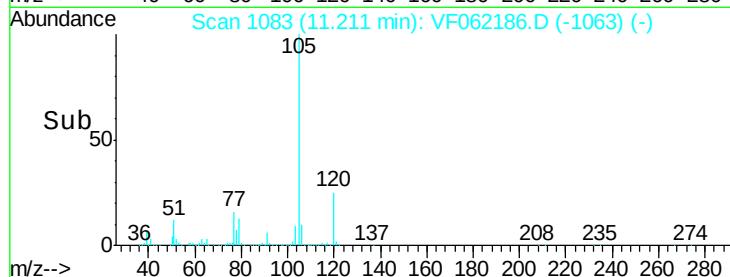
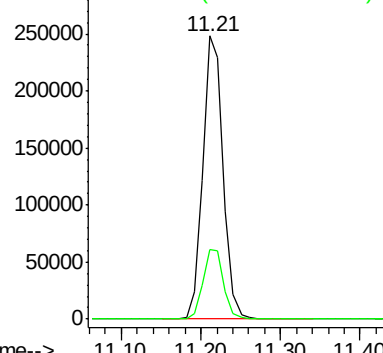
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.310 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion: 43 Resp: 117247

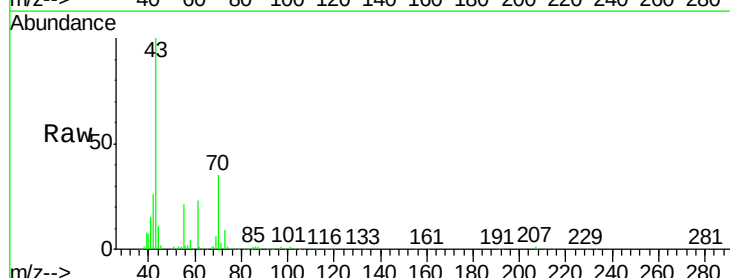
Ion Ratio Lower Upper

43 100

70 34.9 26.6 39.8

55 20.8 15.0 22.6

61 23.0 20.0 30.0

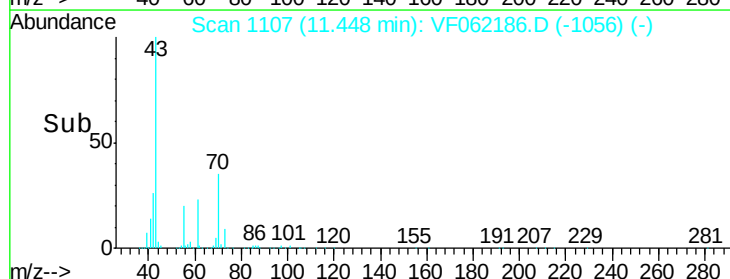
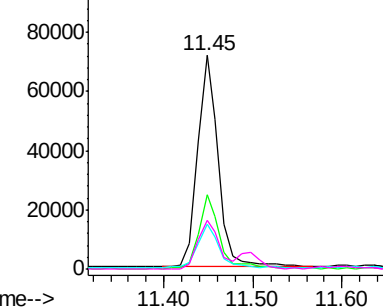


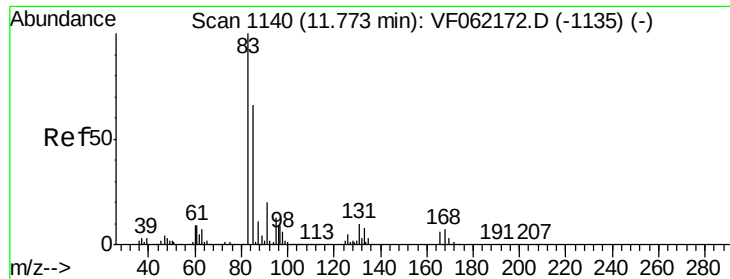
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 19.800 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

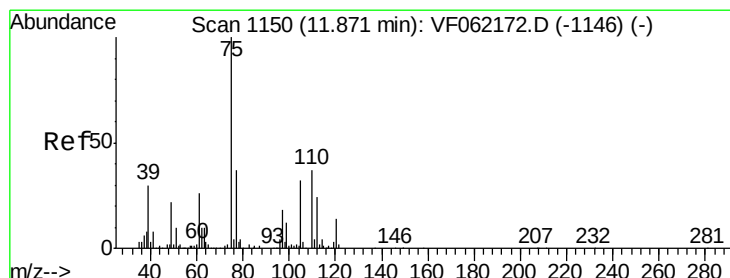
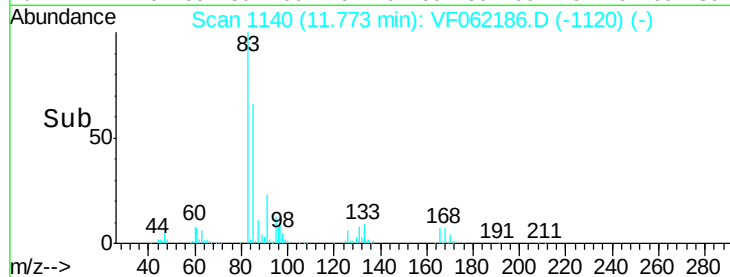
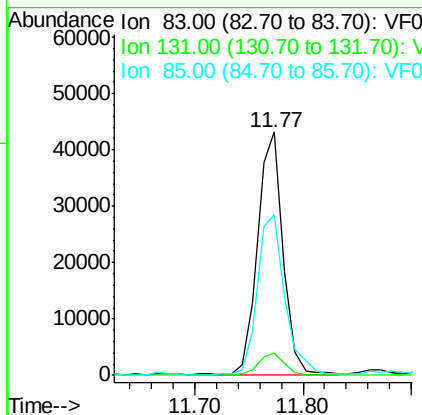
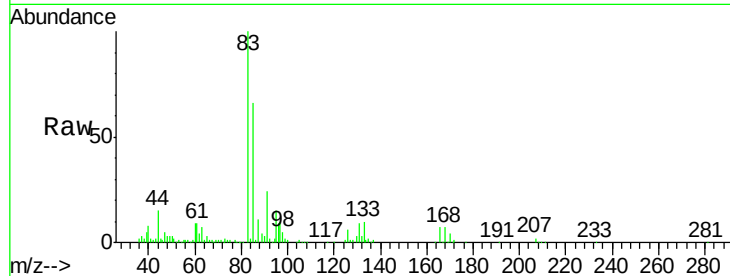
ClientSampleId :

VF0416SBS01

Tot Ion:	83	Resp:	70670
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.8	14.4
85	66.1	33.2	99.6

Manual Integrations
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4/17/2019 11:49:37 AM



#76

1,2,3-Trichloropropane

Concen: 20.726 ug/l

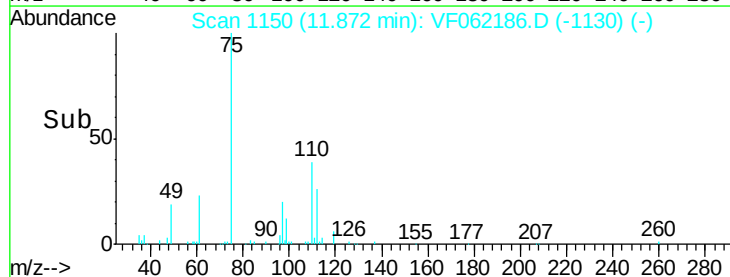
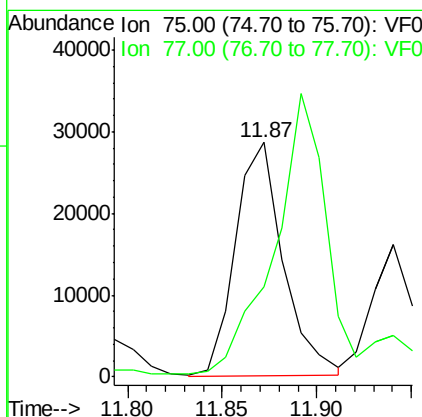
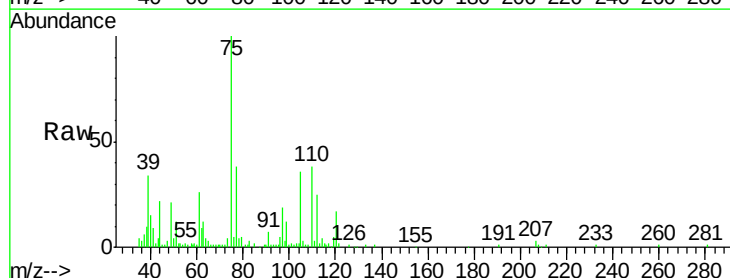
RT: 11.87 min Scan# 1150

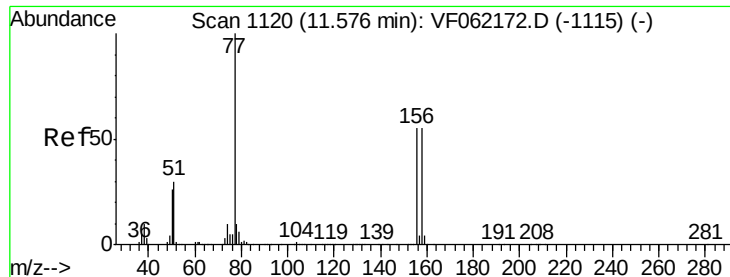
Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion:	75	Resp:	50168
Ion Ratio	Lower	Upper	
75	100		
77	38.3	18.7	56.1





#77

Bromobenzene

Concen: 20.552 ug/l

RT: 11.58 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

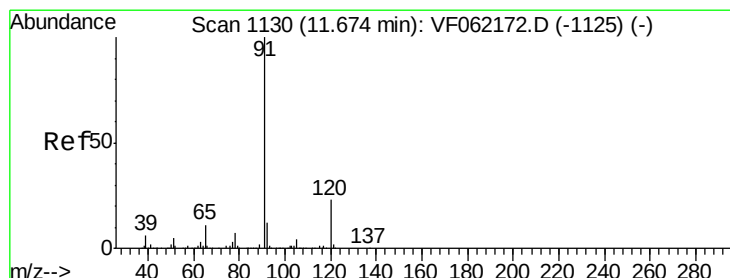
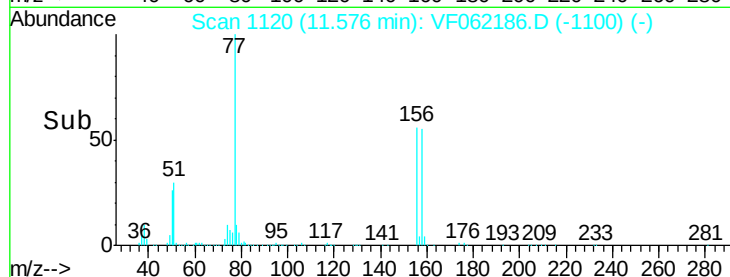
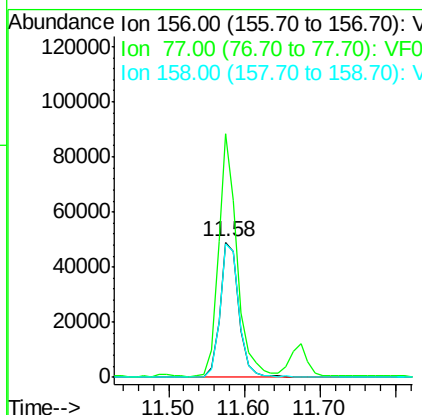
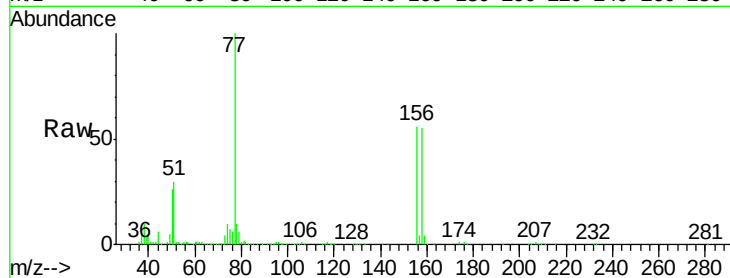
ClientSampleId :

VF0416SBS01

Tot Ion:	156	Resp:	85641
Ion Ratio	Lower	Upper	
156	100		
77	180.0	91.1	273.4
158	98.2	50.1	150.4

Manual Integrations
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4/17/2019 11:49:37 AM



#78

n-propylbenzene

Concen: 20.974 ug/l

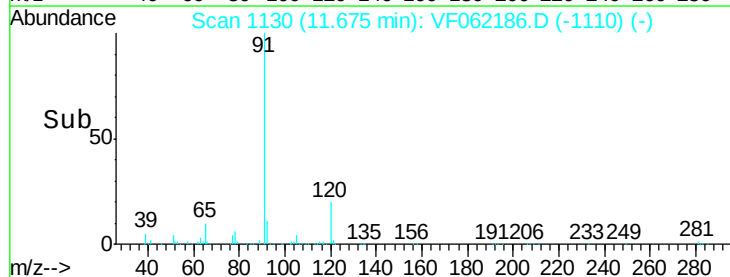
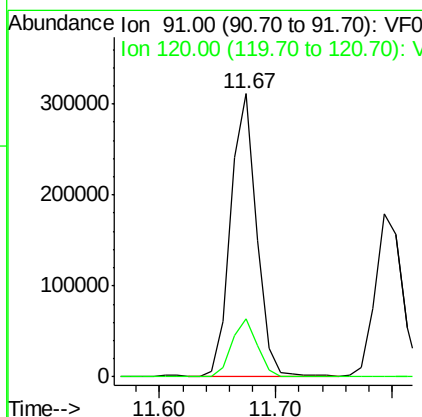
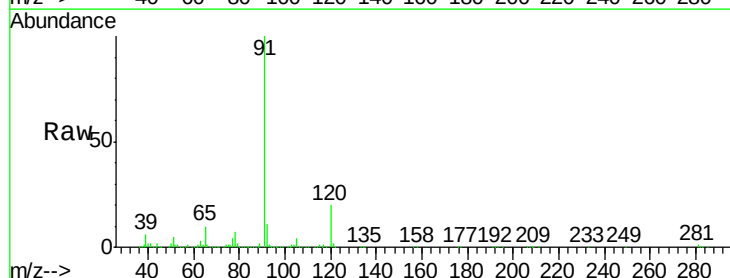
RT: 11.67 min Scan# 1130

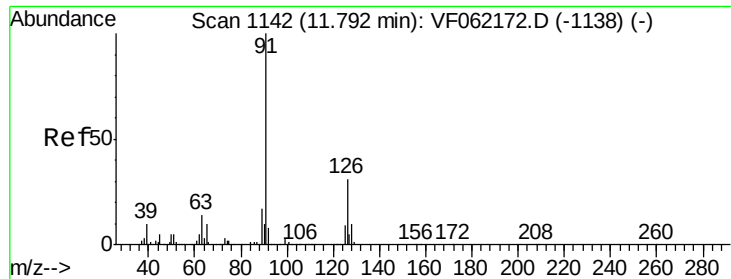
Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Tgt Ion:	91	Resp:	477684
Ion Ratio	Lower	Upper	
91	100		
120	20.5	11.6	34.7





#79

2-Chlorotoluene

Concen: 21.346 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion: 91 Resp: 286569

Ion Ratio Lower Upper

91 100

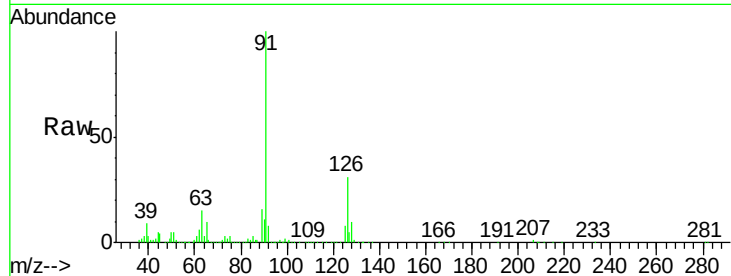
126 31.4 15.6 46.8

Manual Integrations

APPROVED

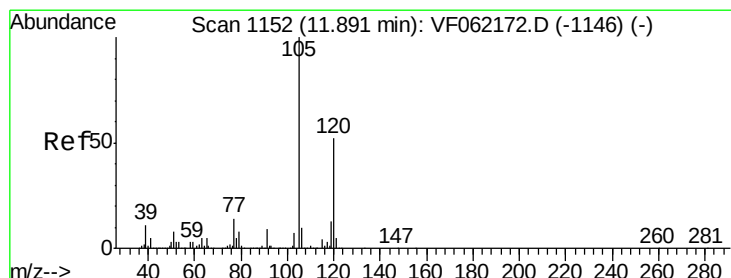
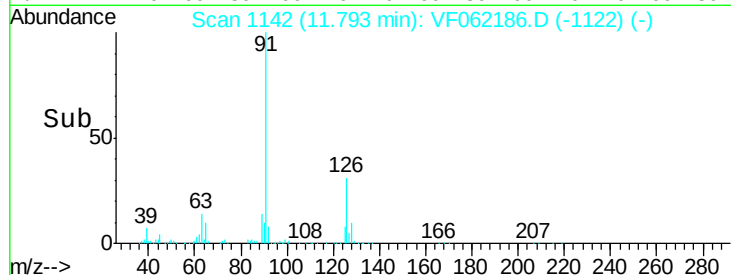
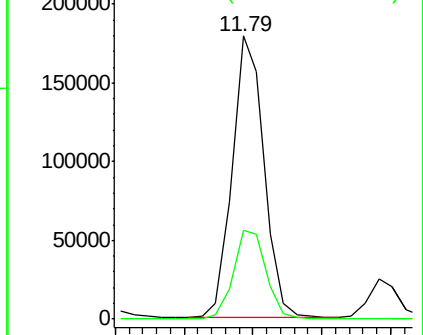
MMDadoda

4/17/2019 11:49:37 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 22.374 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF062186.D

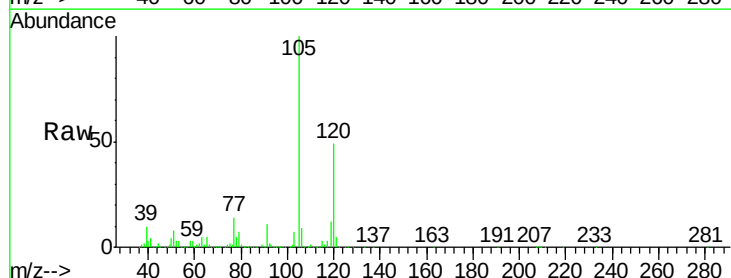
Acq: 16 Apr 2019 20:08

Tgt Ion:105 Resp: 373884

Ion Ratio Lower Upper

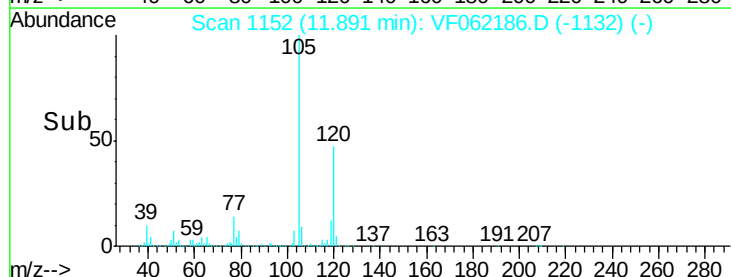
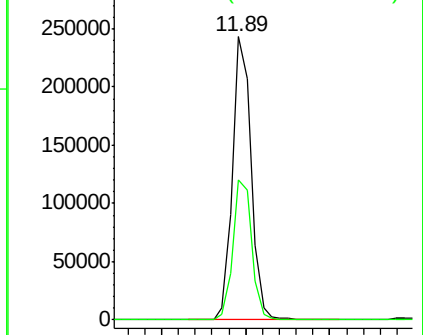
105 100

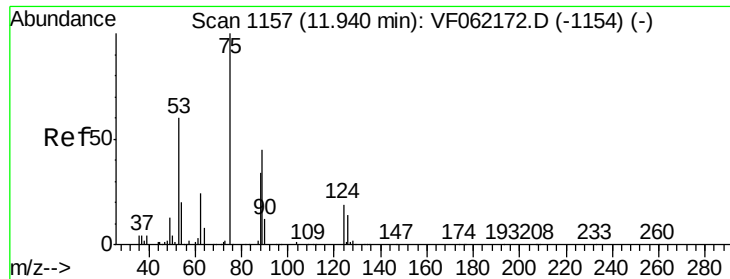
120 49.4 25.9 77.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





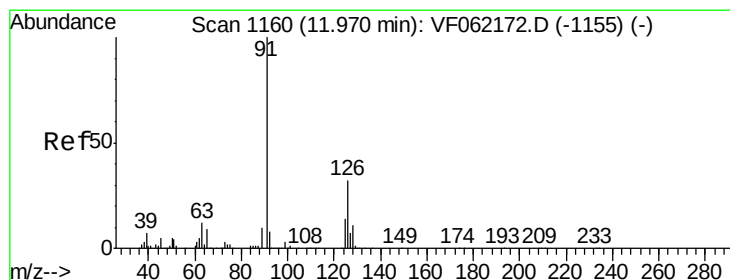
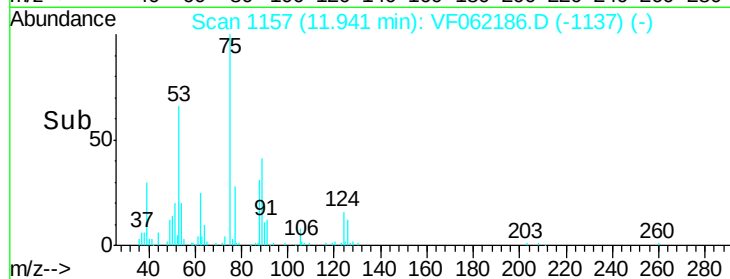
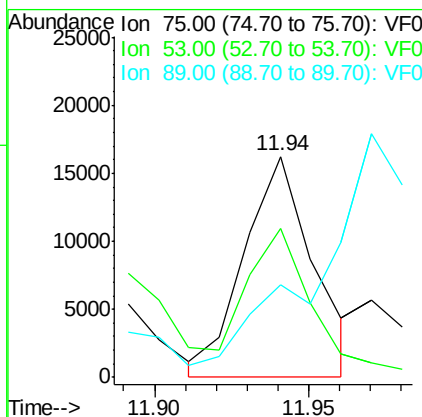
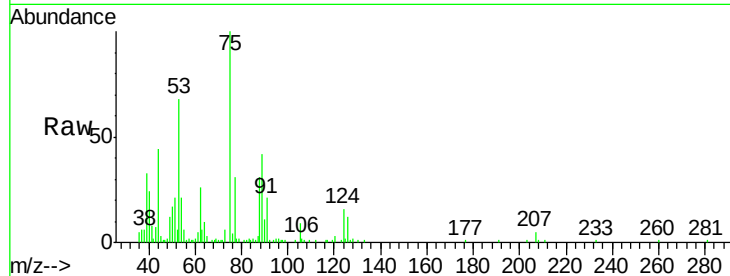
#81
trans-1,4-Dichloro-2-butene
Concen: 20.967 ug/l m
RT: 11.94 min Scan# 1157
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	67.6	53.4	80.0
89	41.9	38.7	58.1

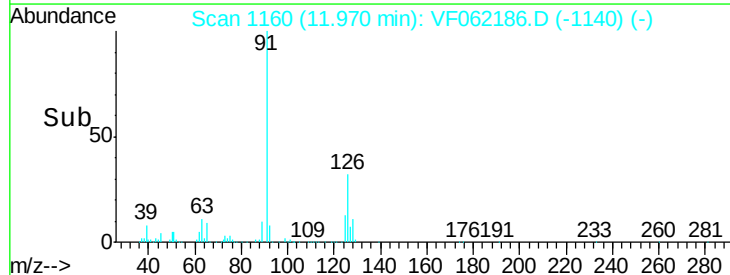
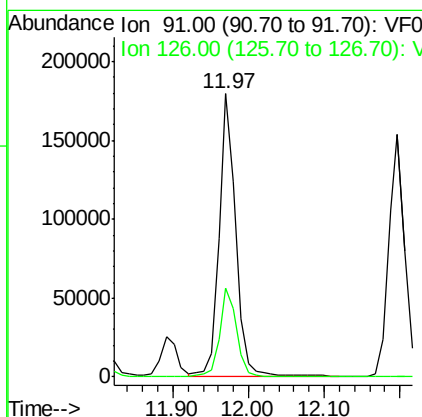
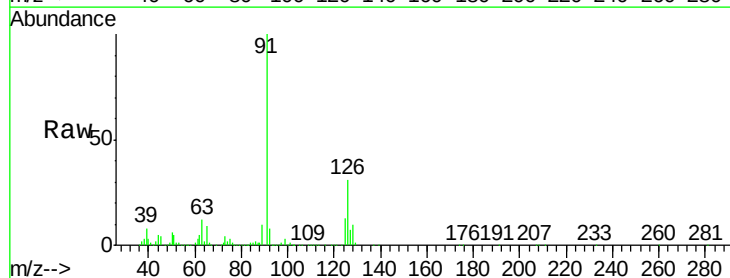
Manual Integrations
APPROVED

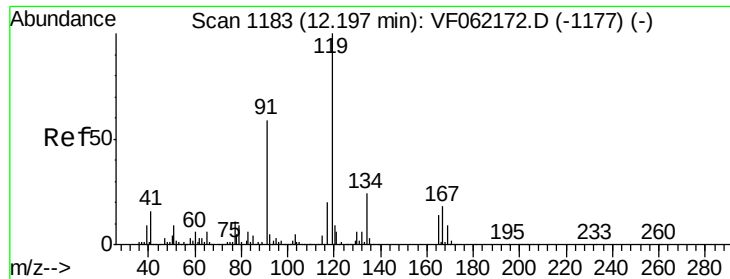
MMDadoda
4/17/2019 11:49:37 AM



#82
4-Chlorotoluene
Concen: 20.897 ug/l
RT: 11.97 min Scan# 1160
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.9	47.7





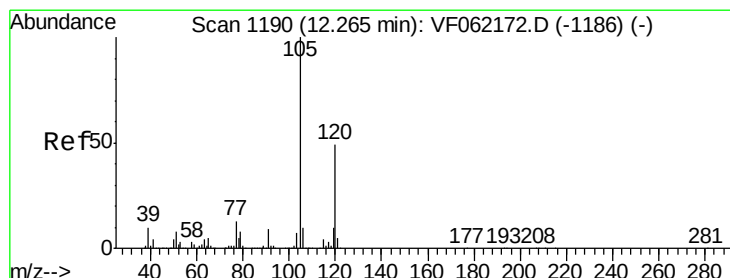
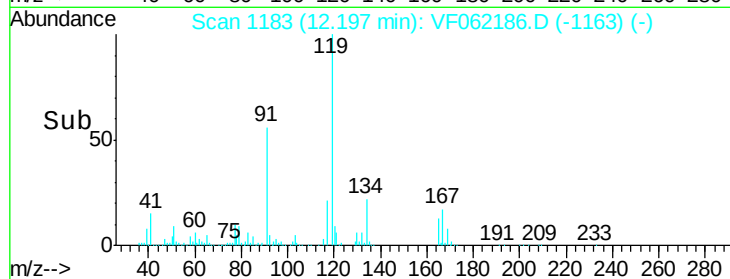
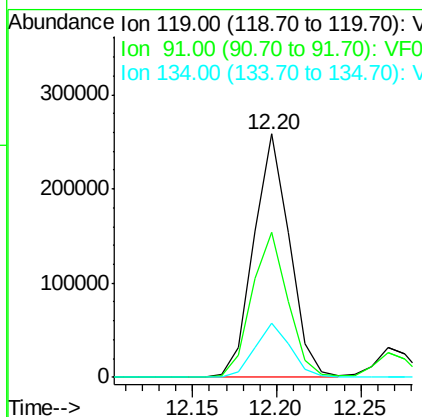
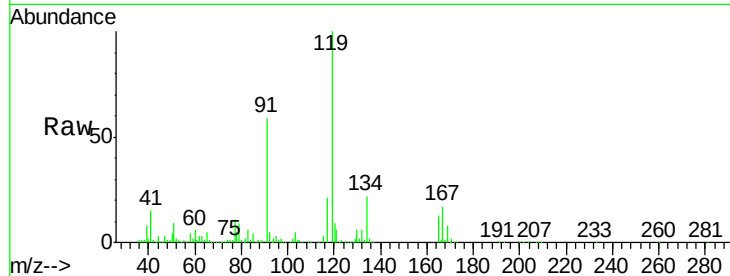
#83
 tert-Butylbenzene
 Concen: 23.014 ug/l
 RT: 12.20 min Scan# 1183
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	381888		
91	59.5		29.5	88.5
134	22.2		12.0	36.1

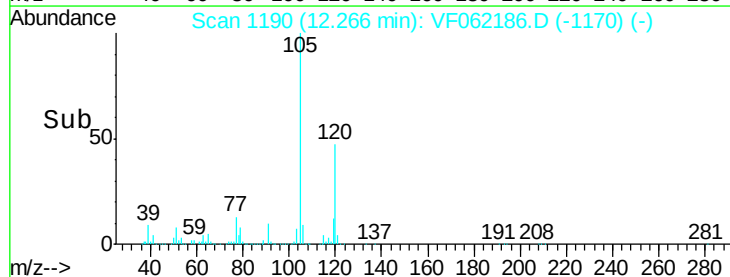
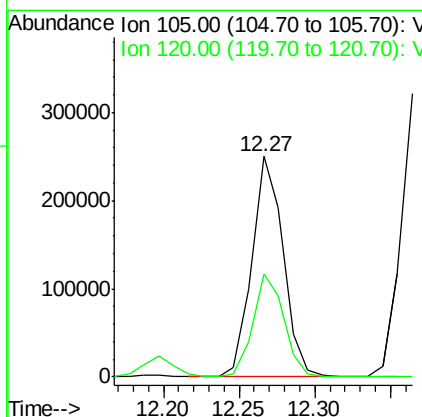
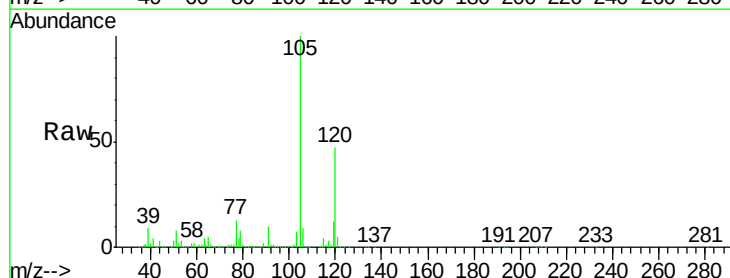
Manual Integrations
 APPROVED

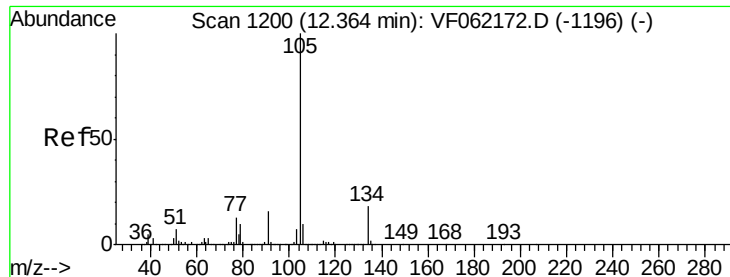
MMDadoda
 4/17/2019 11:49:37 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 22.261 ug/l
 RT: 12.27 min Scan# 1190
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	361025		
120	46.8		24.7	74.1





#85

sec-Butylbenzene

Concen: 22.972 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

Instrument :

MSVOA_F

ClientSampleId :

VF0416SBS01

Tot Ion:105 Resp: 501238

Ion Ratio Lower Upper

105 100

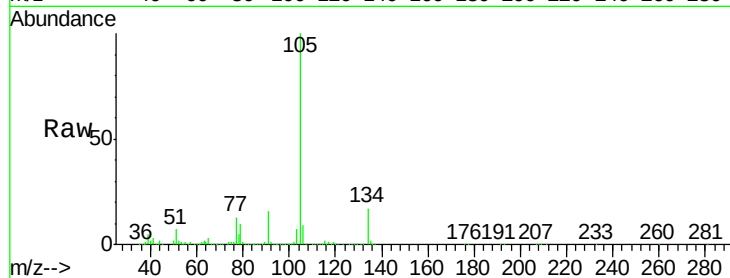
134 17.2 9.0 27.0

Manual Integrations

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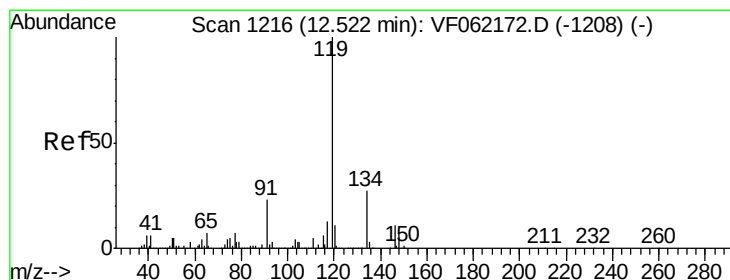
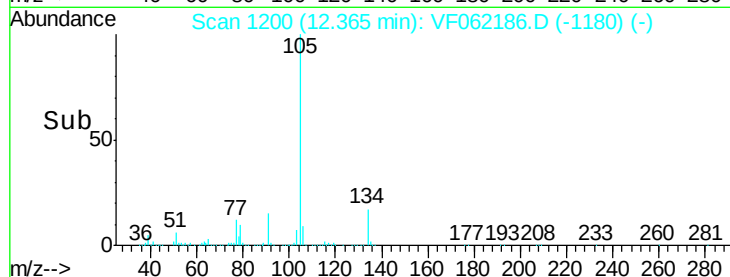
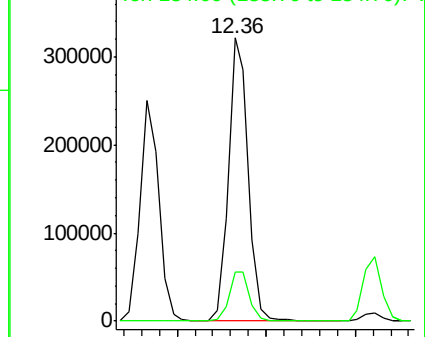
MMDadoda

4/17/2019 11:49:37 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.147 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.00 min

Lab File: VF062186.D

Acq: 16 Apr 2019 20:08

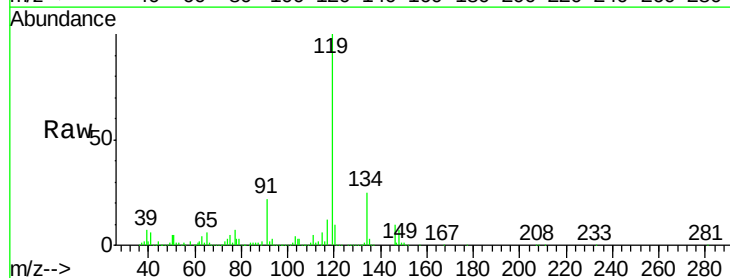
Tgt Ion:119 Resp: 430275

Ion Ratio Lower Upper

119 100

134 25.3 13.5 40.5

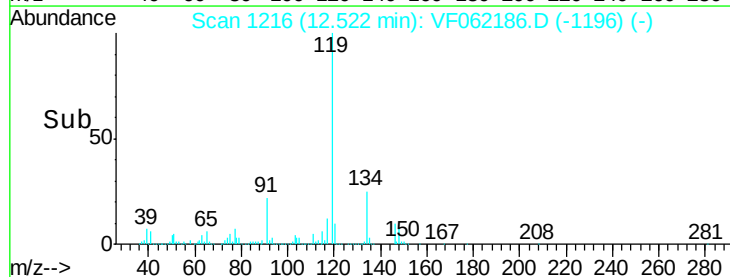
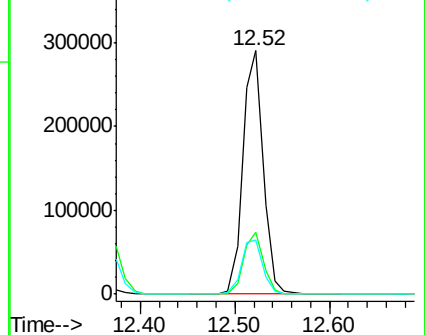
91 22.2 11.5 34.5

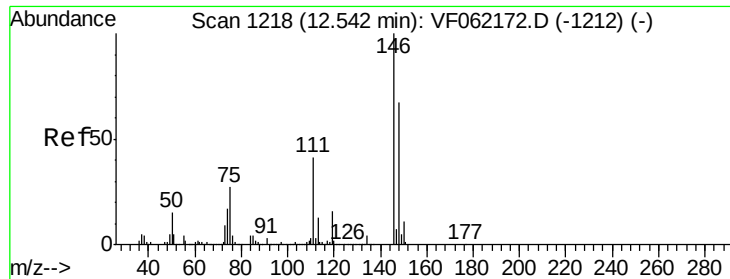


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





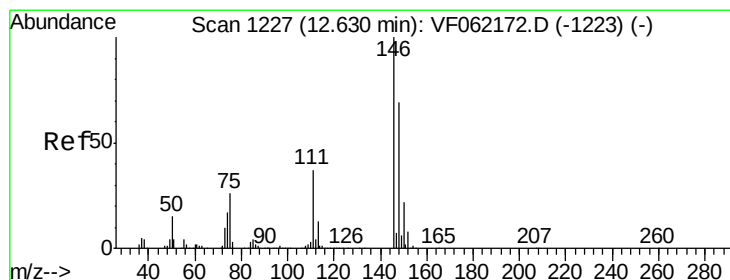
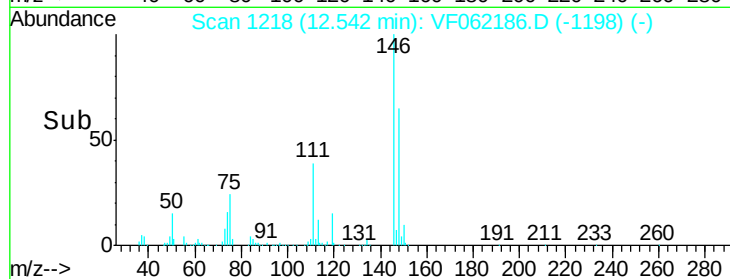
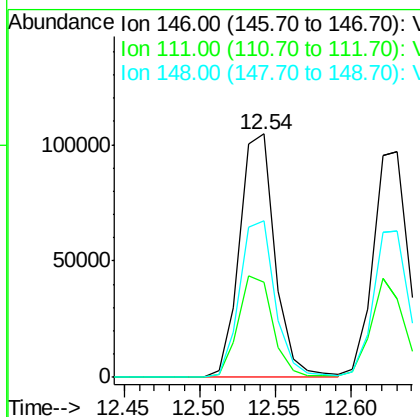
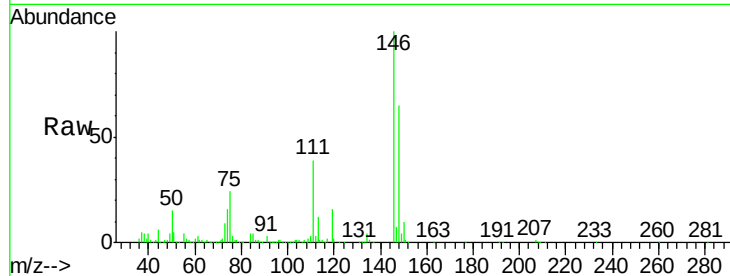
#87
 1,3-Dichlorobenzene
 Concen: 22.403 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	20.5	61.6
148	64.5	33.6	100.8

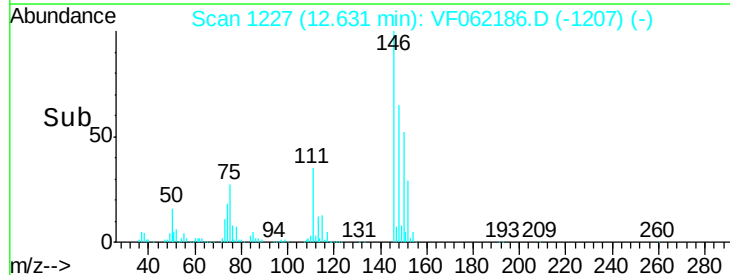
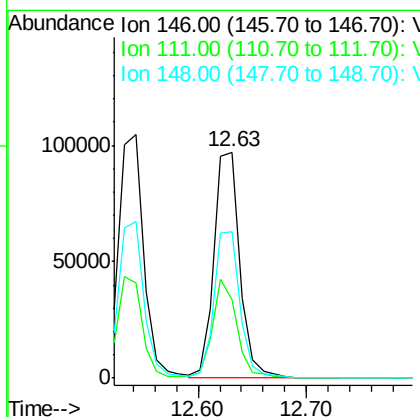
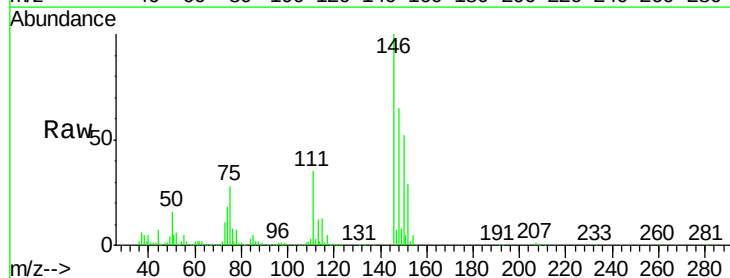
Manual Integrations
 APPROVED

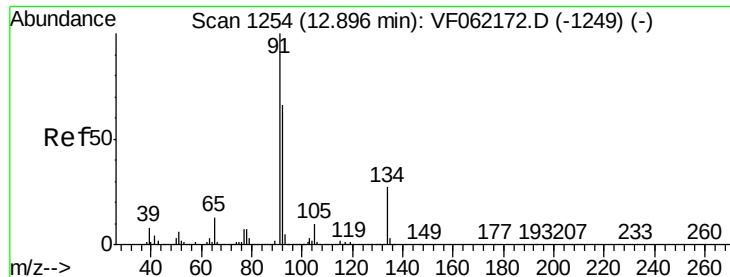
MMDadoda
 4/17/2019 11:49:37 AM



#88
 1,4-Dichlorobenzene
 Concen: 21.735 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.9	18.6	55.6
148	64.8	34.3	102.8





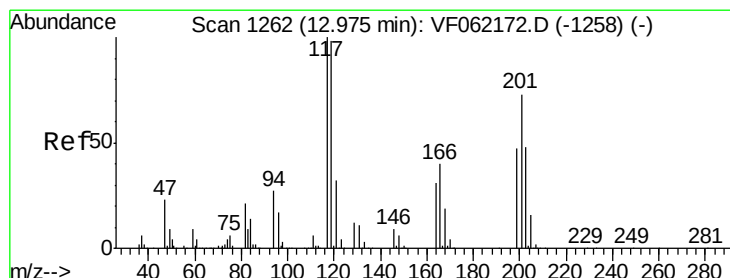
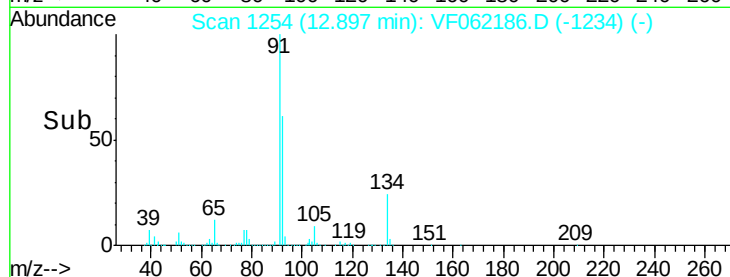
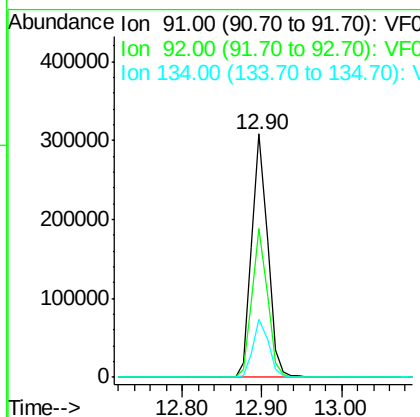
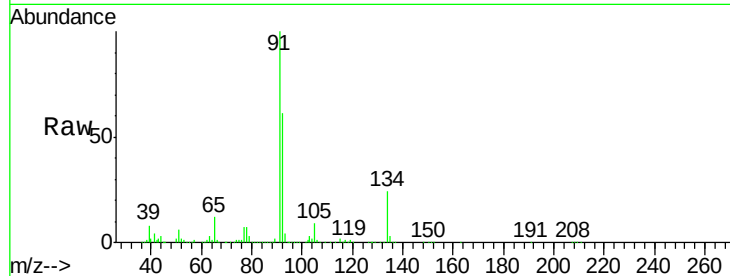
#89
n-Butylbenzene
Concen: 21.504 ug/l
RT: 12.90 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	421741		
92	61.2	32.9	98.6	
134	23.8	13.4	40.2	

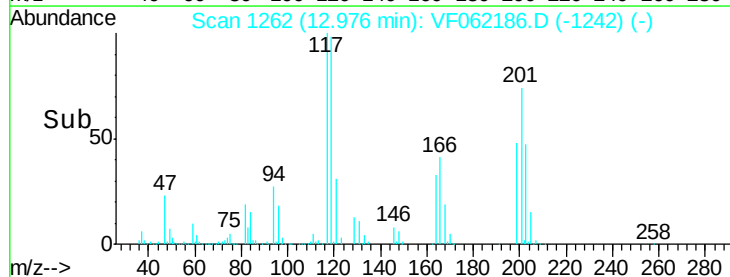
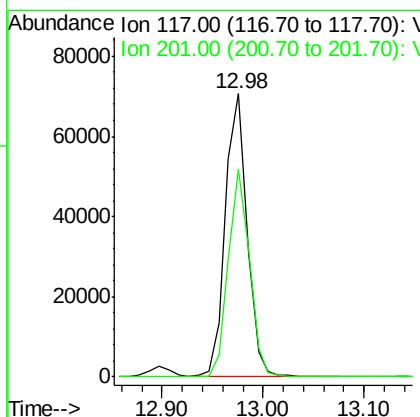
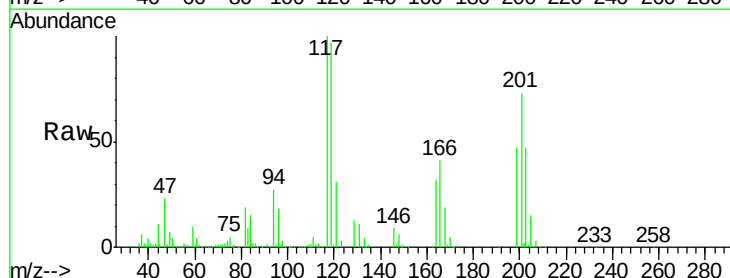
Manual Integrations
APPROVED

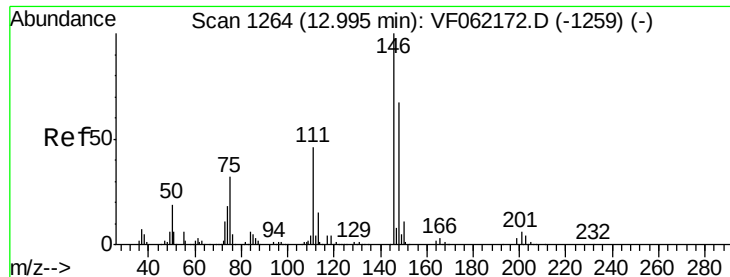
MMDadoda
4/17/2019 11:49:37 AM



#90
Hexachloroethane
Concen: 23.424 ug/l
RT: 12.98 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	106660		
201	73.3	36.7	110.1	





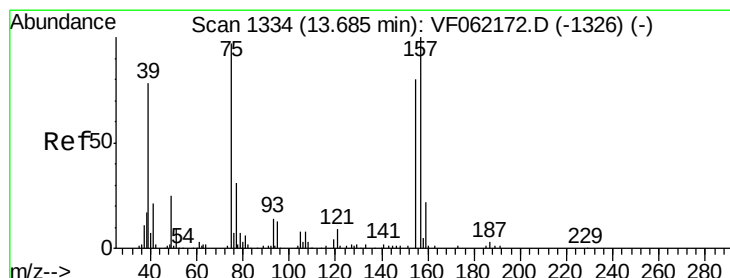
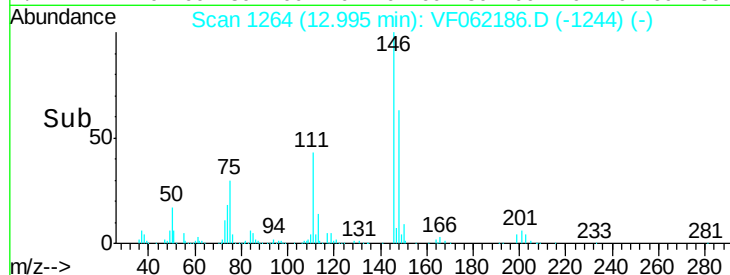
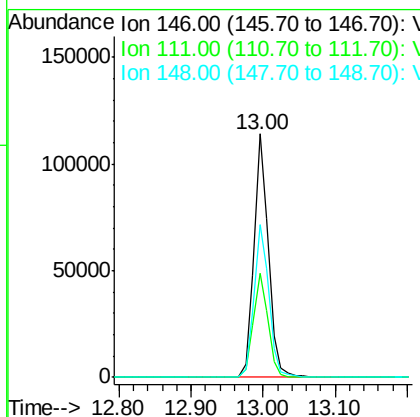
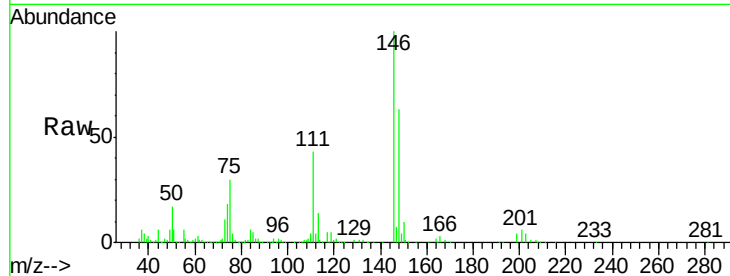
#91
 1,2-Dichlorobenzene
 Concen: 21.963 ug/l
 RT: 13.00 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	22.9	68.8
148	62.8	33.6	100.6

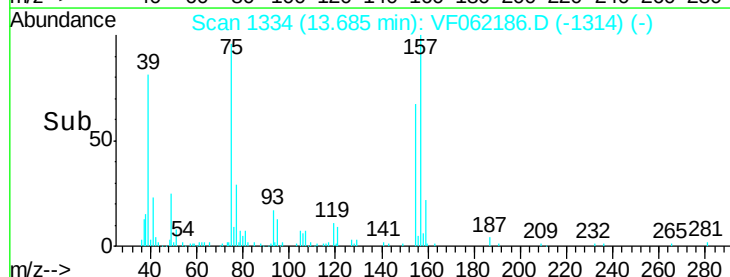
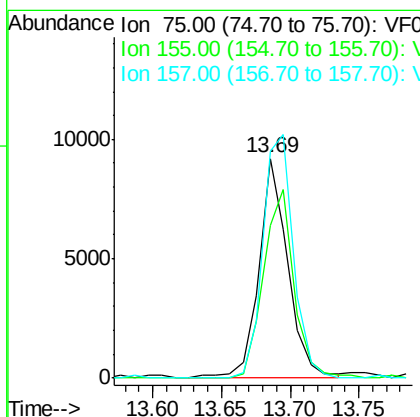
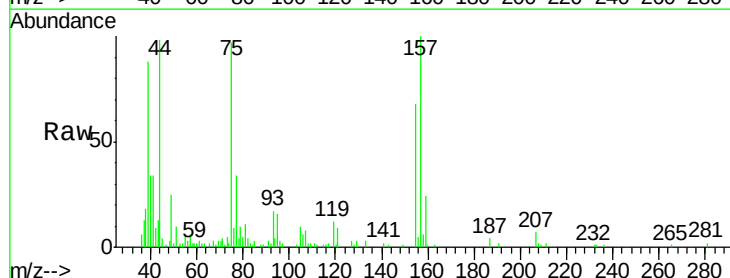
Manual Integrations
 APPROVED

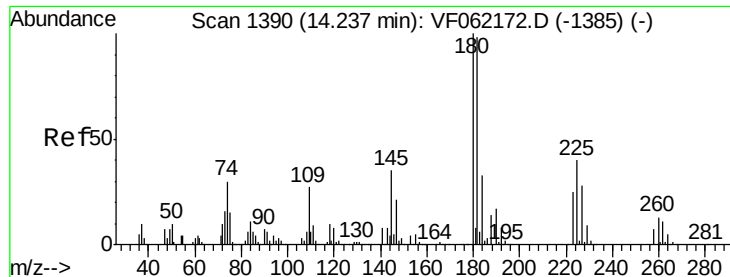
MMDadoda
 4/17/2019 11:49:37 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.032 ug/l
 RT: 13.69 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	69.7	41.0	123.0
157	103.1	51.3	154.0





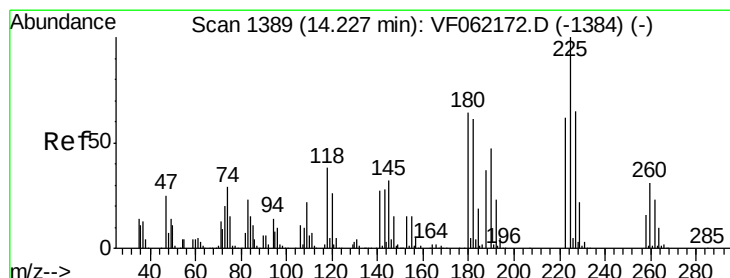
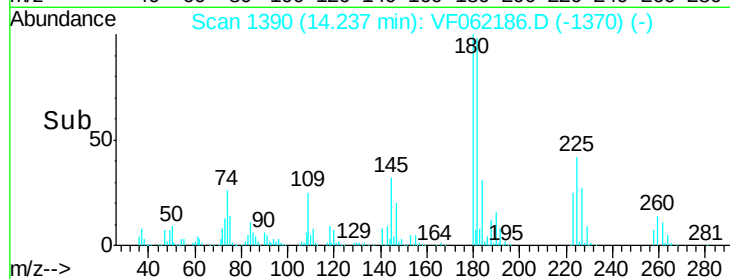
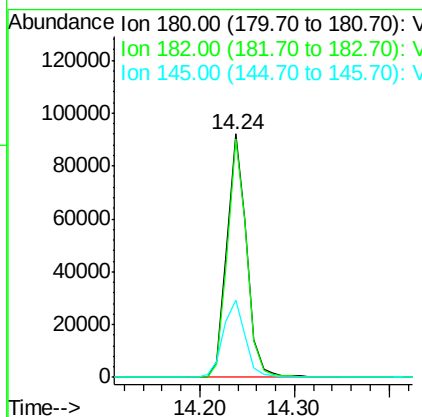
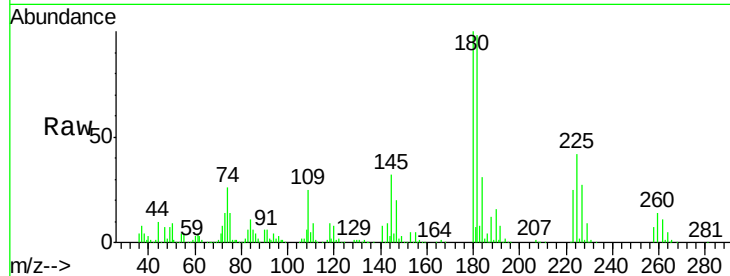
#93
 1,2,4-Trichlorobenzene
 Concen: 24.172 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.7	48.8	146.4	
145	31.9	17.3	52.0	

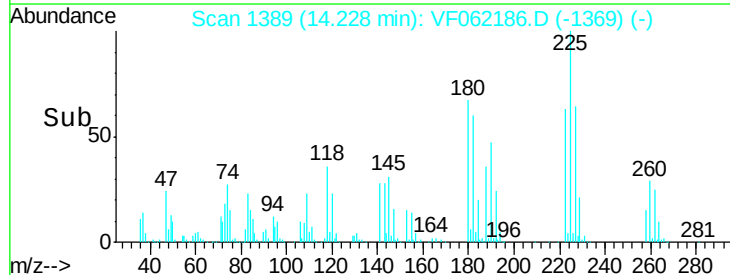
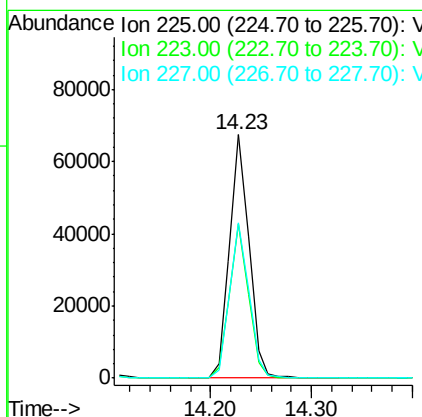
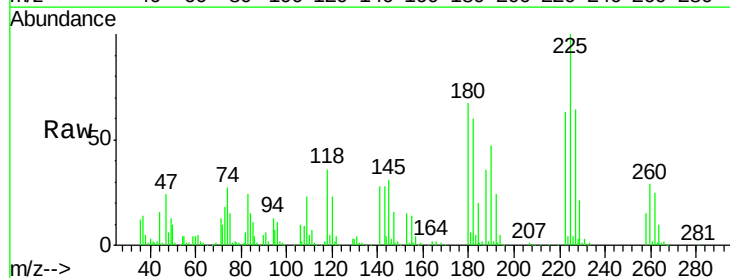
Manual Integrations
 APPROVED

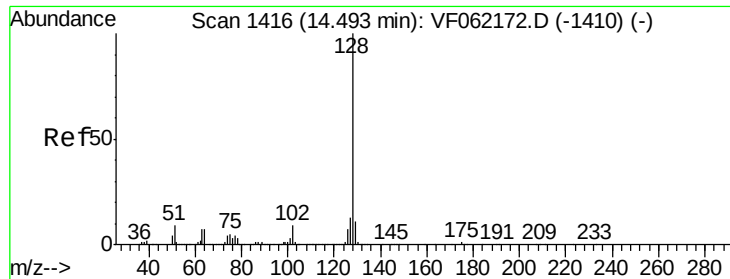
MMDadoda
 4/17/2019 11:49:37 AM



#94
 Hexachlorobutadiene
 Concen: 25.308 ug/l
 RT: 14.23 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VF062186.D
 Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.2	30.9	92.7	
227	63.7	32.3	96.9	





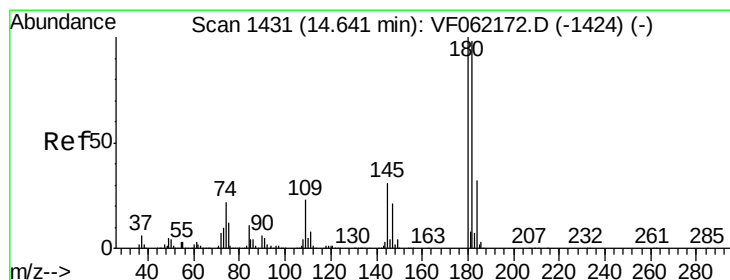
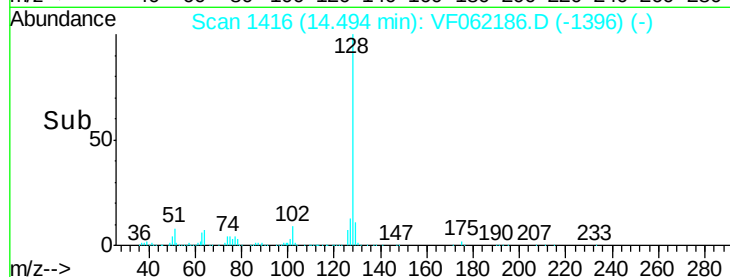
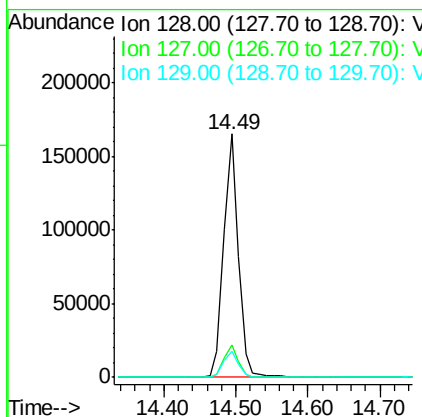
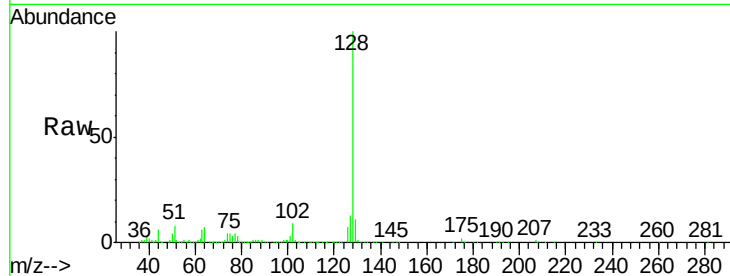
#95
Naphthalene
Concen: 24.327 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Instrument :
MSVOA_F
ClientSampleId :
VF0416SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	233542		
127	13.4	10.3	15.5	
129	10.9	9.2	13.8	

Manual Integrations
APPROVED

MMDadoda
4/17/2019 11:49:37 AM



#96
1,2,3-Trichlorobenzene
Concen: 25.226 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VF062186.D
Acq: 16 Apr 2019 20:08

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	129142		
182	95.8	49.0	147.2	
145	30.2	15.4	46.2	

