

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021819\
 Data File : VF061670.D
 Acq On : 18 Feb 2019 10:54
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 2/19/2019 12:29:08 PM

Quant Time: Feb 19 02:37:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	331172	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	485664	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	429307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	240847	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	122789	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
35) Dibromofluoromethane	4.12	113	176780	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	
50) Toluene-d8	7.56	98	529220	51.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.08%	
62) 4-Bromofluorobenzene	11.42	95	212998	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	190128	49.992	ug/l	99
3) Chloromethane	1.09	50	195987	49.115	ug/l	97
4) Vinyl Chloride	1.13	62	190798	51.434	ug/l	96
5) Bromomethane	1.34	94	131542	51.523	ug/l	98
6) Chloroethane	1.38	64	87458	47.841	ug/l	96
7) Trichlorofluoromethane	1.48	101	230955	51.620	ug/l	99
8) Diethyl Ether	1.63	74	51092	45.313	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.82	101	164231	50.882	ug/l	95
10) Methyl Iodide	1.89	142	306332m	49.684	ug/l	
11) Tert butyl alcohol	2.57	59	32859	233.792	ug/l	97
12) 1,1-Dichloroethene	1.79	96	139690	49.224	ug/l	94
13) Acrolein	2.01	56	55613	314.831	ug/l	94
14) Allyl chloride	2.10	41	211927	60.858	ug/l	97
15) Acrylonitrile	2.95	53	101352	203.302	ug/l	96
16) Acetone	2.24	43	145716	279.656	ug/l	97
17) Carbon Disulfide	1.83	76	450070	50.455	ug/l	99
18) Methyl Acetate	2.34	43	52520	44.743	ug/l	98
19) Methyl tert-butyl Ether	2.43	73	244686	50.451	ug/l	97
20) Methylene Chloride	2.19	84	132722m	47.404	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	140238	45.459	ug/l	98
22) Diisopropyl ether	2.81	45	416211	49.792	ug/l	98
23) Vinyl Acetate	3.19	43	935968	229.247	ug/l	99
24) 1,1-Dichloroethane	2.88	63	245423	48.516	ug/l	98
25) 2-Butanone	4.34	43	283939	249.475	ug/l	97
26) 2,2-Dichloropropane	3.61	77	122129	56.997	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	186755	46.122	ug/l	99
28) Bromochloromethane	3.73	49	116718	48.088	ug/l	99
29) Tetrahydrofuran	4.08	42	118640	229.346	ug/l	97
30) Chloroform	3.86	83	280702	48.794	ug/l	97
31) Cyclohexane	3.71	56	270376	49.373	ug/l	100
32) 1,1,1-Trichloroethane	4.10	97	200149	53.112	ug/l	99
36) 1,1-Dichloropropene	4.29	75	229094	47.618	ug/l	95
37) Ethyl Acetate	4.11	43	102777	45.993	ug/l #	64
38) Carbon Tetrachloride	3.99	117	189723	57.109	ug/l	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	285376	50.155	ug/l	98
40) Benzene	4.64	78	649463	51.609	ug/l	100
41) Methacrylonitrile	4.75	41	53316	46.654	ug/l	96
42) 1,2-Dichloroethane	4.95	62	151069	50.186	ug/l	95
43) Isopropyl Acetate	6.97	43	124571	47.095	ug/l #	94
44) Trichloroethene	5.51	130	204921	50.356	ug/l	96
45) 1,2-Dichloropropane	6.24	63	152182	50.030	ug/l	99
46) Dibromomethane	6.09	93	95119	50.788	ug/l	97
47) Bromodichloromethane	6.39	83	206876	50.441	ug/l	99
48) Methyl methacrylate	6.72	41	79991	50.252	ug/l	94
49) 1,4-Dioxane	6.71	88	14125	943.950	ug/l #	80
51) 4-Methyl-2-Pentanone	8.26	43	434213	229.740	ug/l	95
52) Toluene	7.63	92	371423	48.666	ug/l	95
53) t-1,3-Dichloropropene	8.28	75	167317	49.017	ug/l	96
54) cis-1,3-Dichloropropene	7.30	75	243488	53.553	ug/l	99
55) 1,1,2-Trichloroethane	8.50	97	110585	49.316	ug/l	96
56) Ethyl methacrylate	8.63	69	122565	49.093	ug/l	97
57) 1,3-Dichloropropane	8.86	76	180051	48.105	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.30	63	93155	216.262	ug/l	98
59) 2-Hexanone	9.49	43	339330	256.127	ug/l	97
60) Dibromochloromethane	8.72	129	156085	50.009	ug/l	99
61) 1,2-Dibromoethane	8.99	107	123907	50.945	ug/l	94
64) Tetrachloroethene	8.16	164	178351	50.825	ug/l	97
65) Chlorobenzene	9.81	112	430709	49.441	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.94	131	165738	48.552	ug/l	98
67) Ethyl Benzene	9.91	91	719070	49.634	ug/l	97
68) m/p-Xylenes	10.13	106	535415	96.567	ug/l	99
69) o-Xylene	10.72	106	304007	51.385	ug/l	97
70) Styrene	10.80	104	413754	49.435	ug/l	99
71) Bromoform	10.78	173	94228	50.833	ug/l	95
73) Isopropylbenzene	11.13	105	862354	50.289	ug/l	97
74) N-amyl acetate	11.38	43	194401	47.232	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.70	83	141306	45.997	ug/l	94
76) 1,2,3-Trichloropropane	11.80	75	99804	47.783	ug/l	98
77) Bromobenzene	11.51	156	208912	49.315	ug/l	90
78) n-propylbenzene	11.60	91	910650	46.278	ug/l	98
79) 2-Chlorotoluene	11.72	91	533639	48.422	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	680169	49.628	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	48641m	48.576	ug/l	
82) 4-Chlorotoluene	11.90	91	549915	48.075	ug/l	94
83) tert-Butylbenzene	12.14	119	735383	48.444	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	642887	47.216	ug/l	99
85) sec-Butylbenzene	12.31	105	967460	49.284	ug/l	98
86) p-Isopropyltoluene	12.46	119	783591	47.564	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	386528	46.803	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	391694	49.316	ug/l	96
89) n-Butylbenzene	12.85	91	759042	48.792	ug/l	93
90) Hexachloroethane	12.93	117	198188	51.726	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	350978	44.680	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	23023	47.268	ug/l	77

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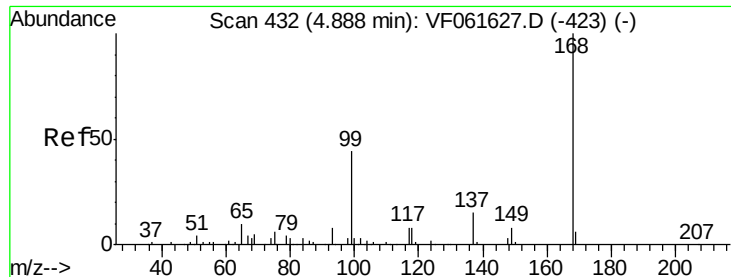
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	270121	47.974	ug/l	99
94) Hexachlorobutadiene	14.20	225	173066	49.769	ug/l	99
95) Naphthalene	14.46	128	495167	50.264	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	255754	49.489	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 331172

Ion Ratio Lower Upper

168 100

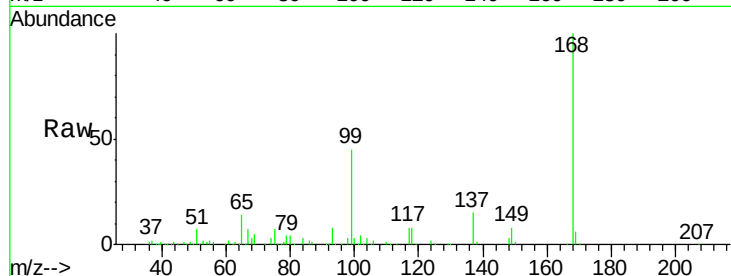
99 45.4 34.9 52.3

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

120000

100000

80000

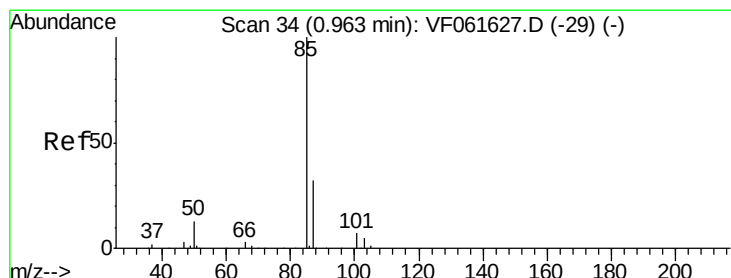
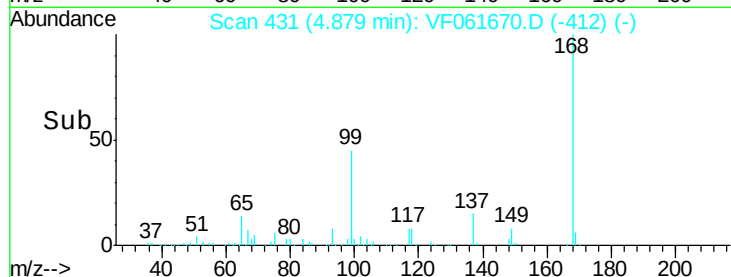
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 49.992 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061670.D

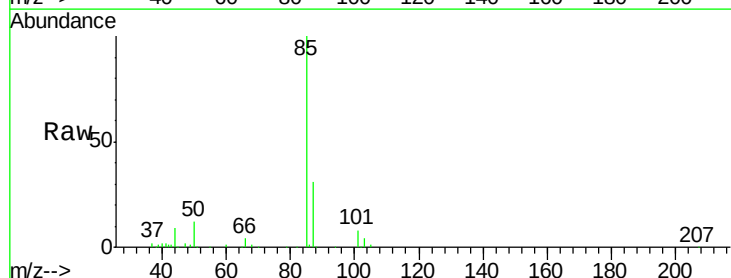
Acq: 18 Feb 2019 10:54

Tgt Ion: 85 Resp: 190128

Ion Ratio Lower Upper

85 100

87 31.4 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

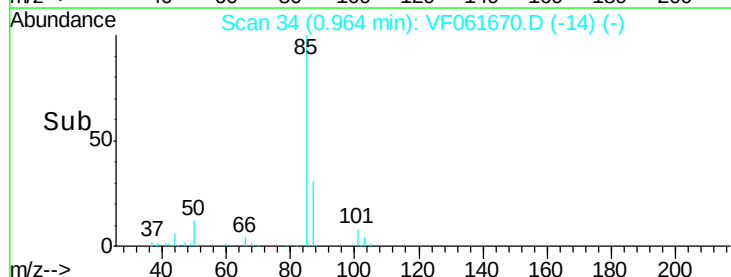
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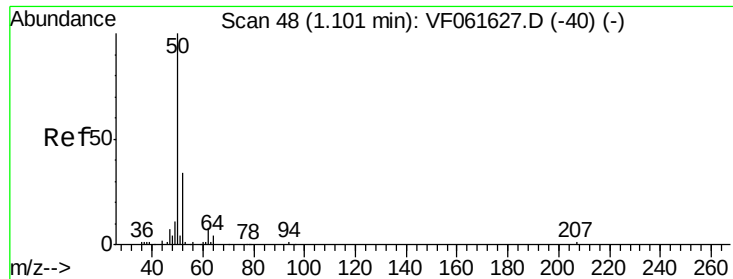
40000

20000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 49.115 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 195987

Ion Ratio Lower Upper

50 100

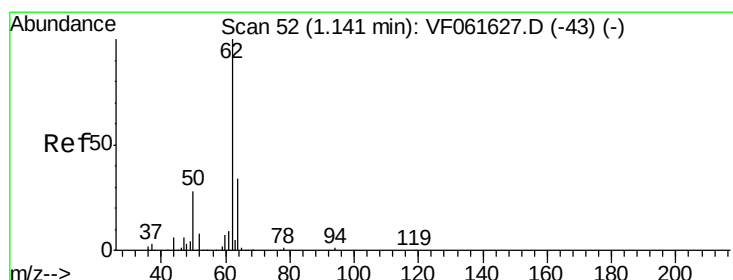
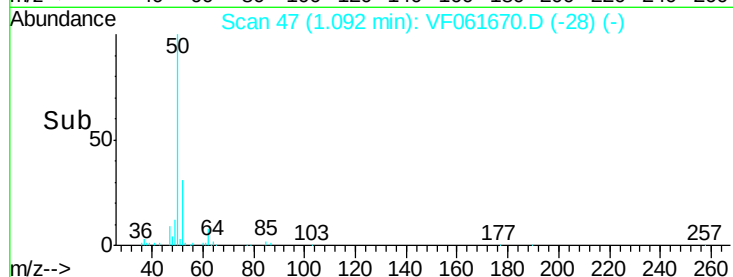
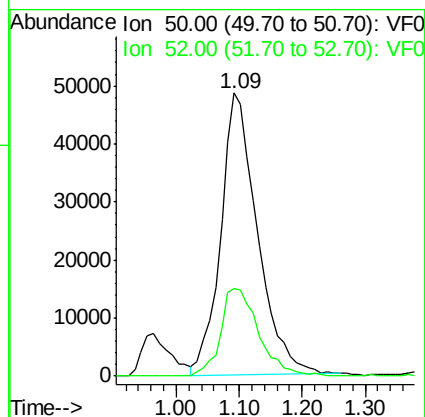
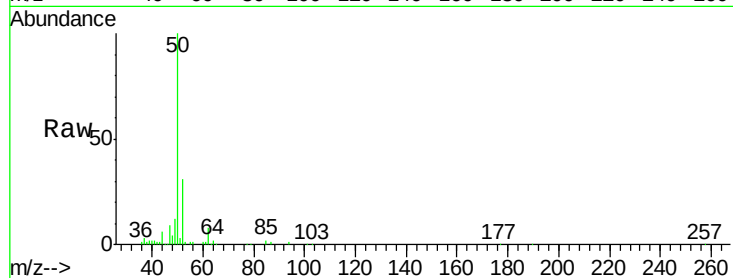
52 31.1 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 51.434 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061670.D

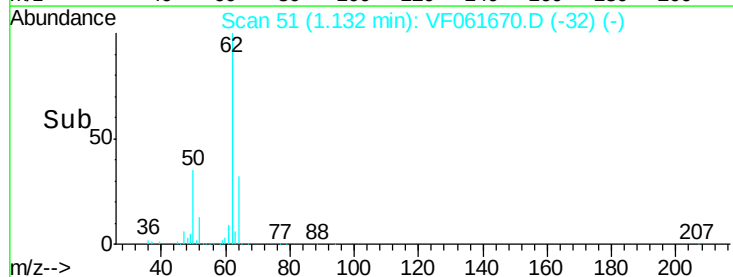
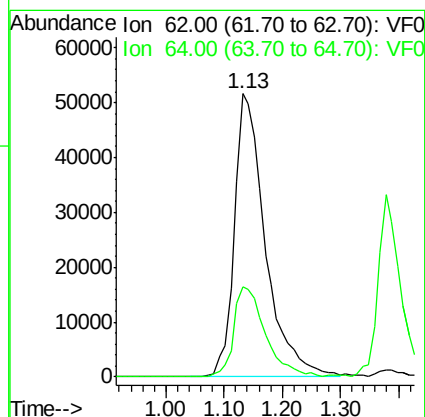
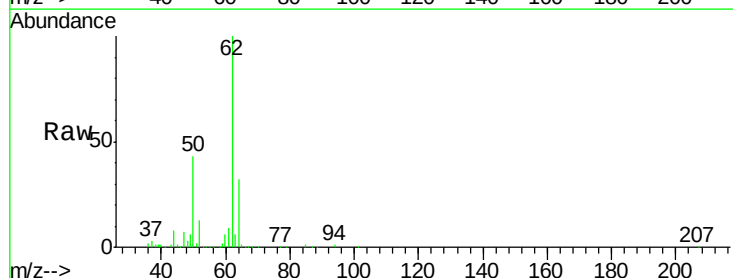
Acq: 18 Feb 2019 10:54

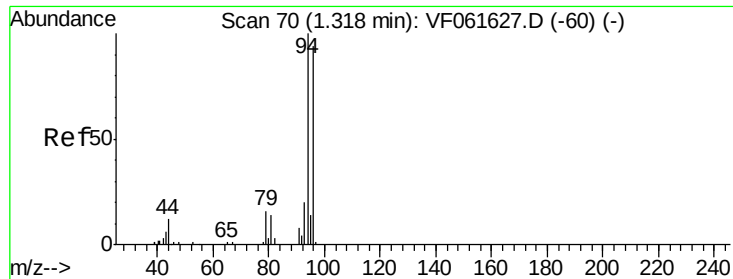
Tgt Ion: 62 Resp: 190798

Ion Ratio Lower Upper

62 100

64 31.9 27.5 41.3





#5

Bromomethane

Concen: 51.523 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.02 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 131542

Ion Ratio Lower Upper

94 100

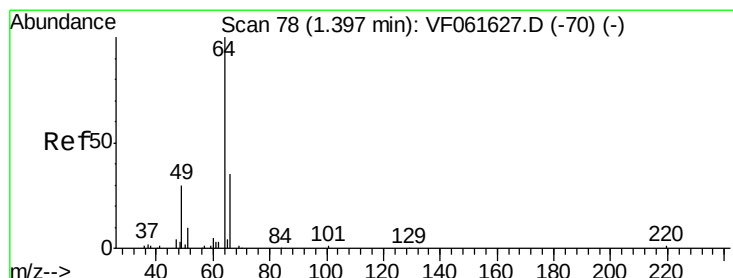
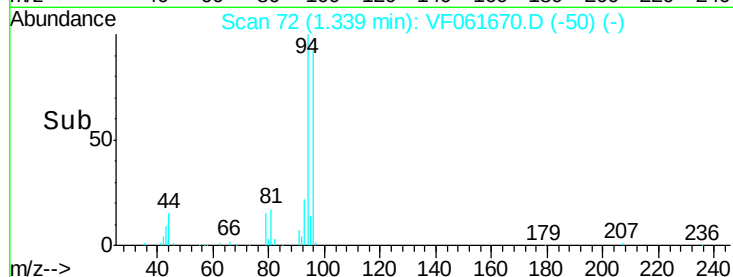
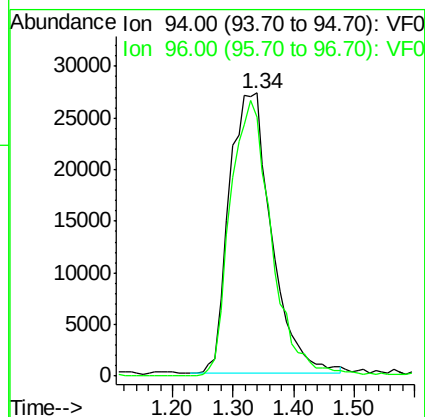
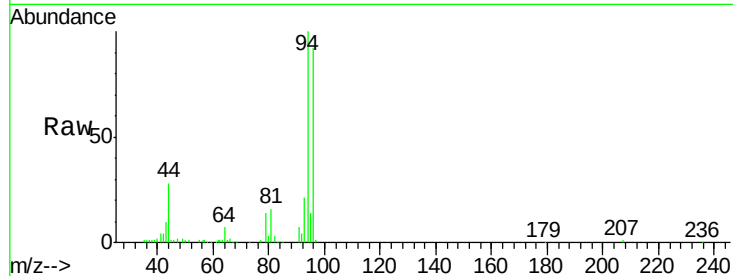
96 91.6 74.6 112.0

Manual Integrations

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#6

Chloroethane

Concen: 47.841 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.02 min

Lab File: VF061670.D

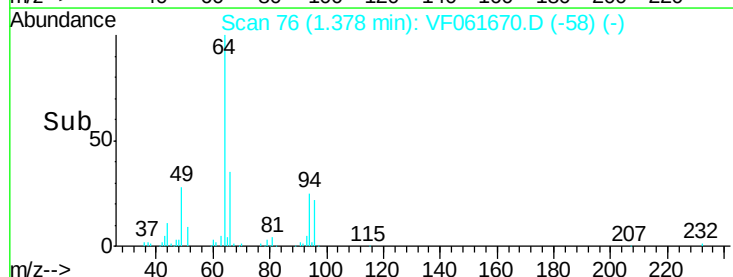
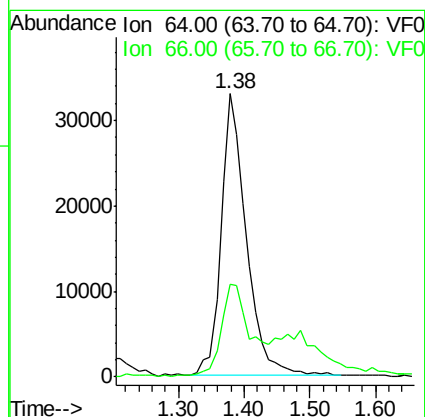
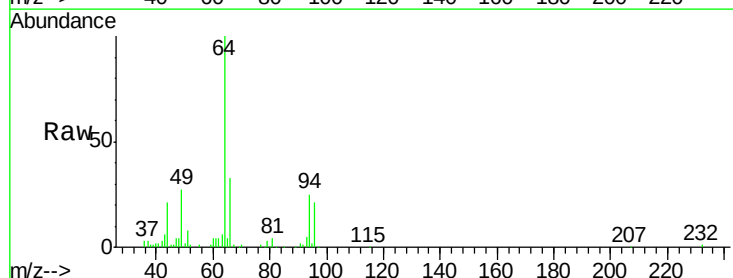
Acq: 18 Feb 2019 10:54

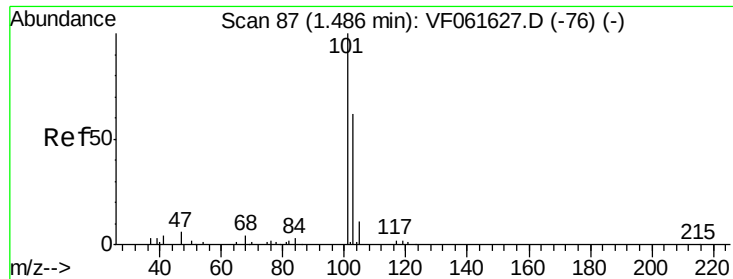
Tgt Ion: 64 Resp: 87458

Ion Ratio Lower Upper

64 100

66 32.8 27.9 41.9





#7

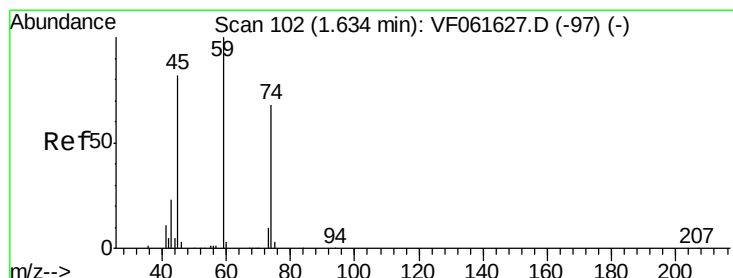
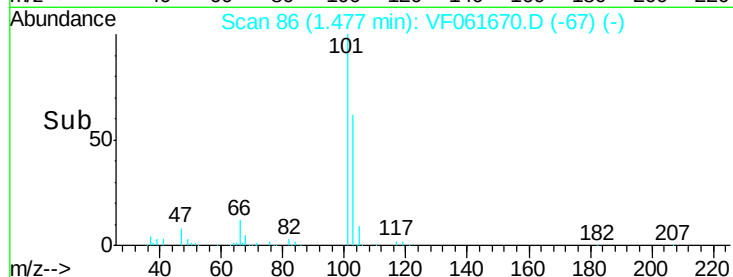
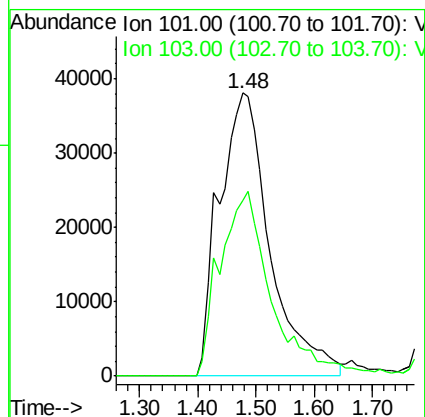
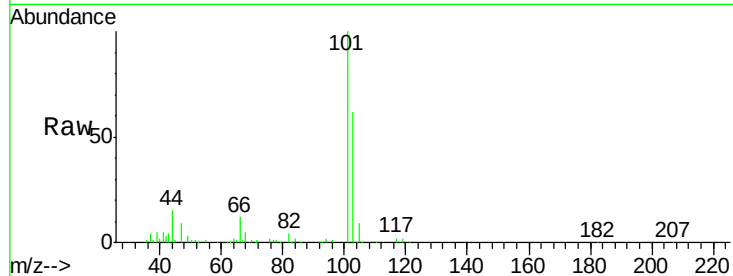
Trichlorofluoromethane
Concen: 51.620 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

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VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	230955		
103	62.3	49.3	73.9	

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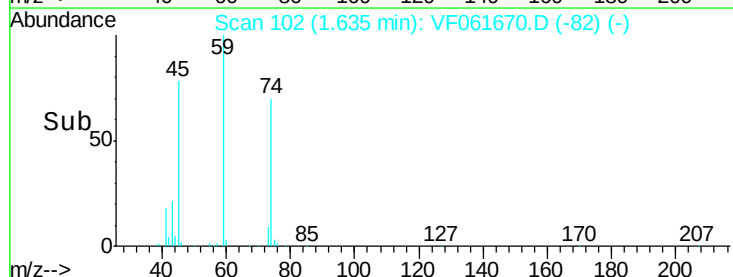
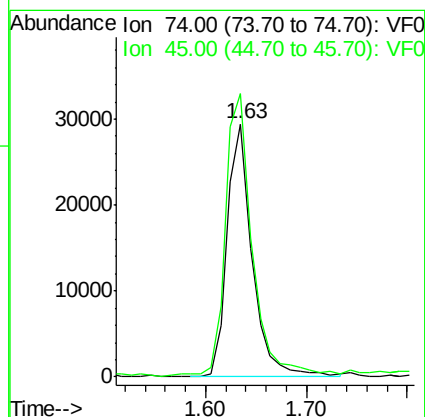
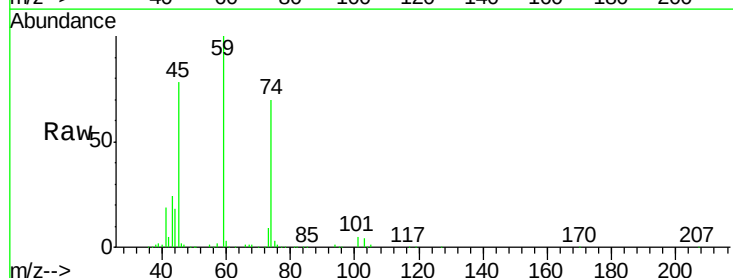
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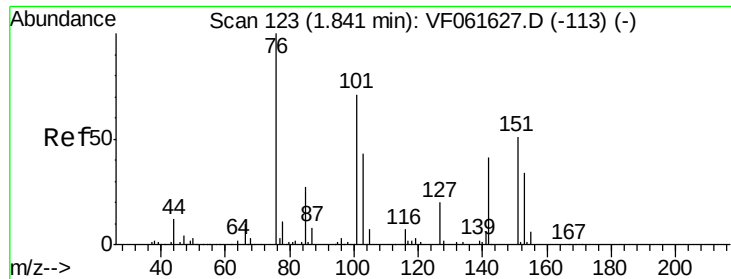


#8

Diethyl Ether
Concen: 45.313 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	51092		
45	111.8	60.8	182.3	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.882 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

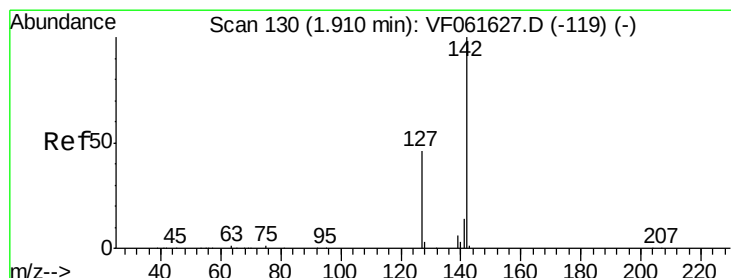
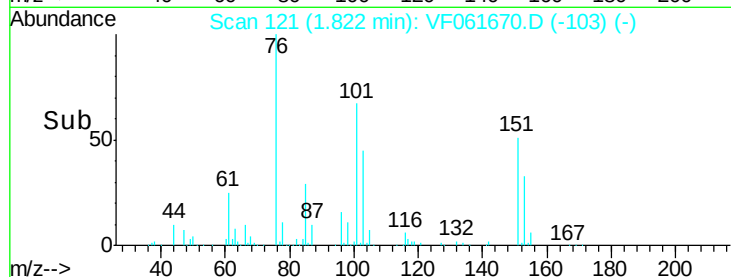
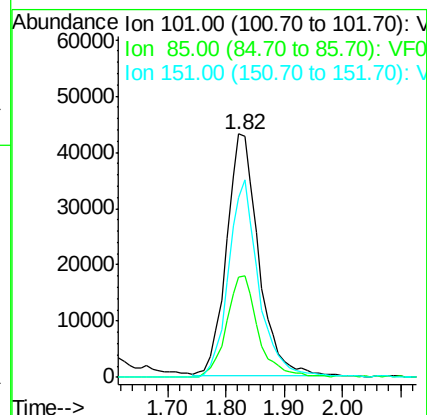
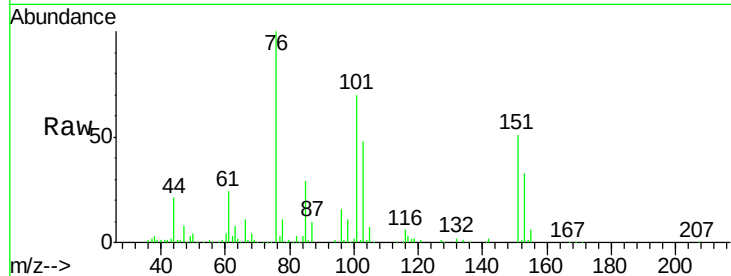
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	164231
Ion Ratio	Lower	Upper	
101	100		
85	41.1	29.8	44.6
151	73.6	56.3	84.5

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2/19/2019 12:29:08 PM



#10

Methyl Iodide

Concen: 49.684 ug/l m

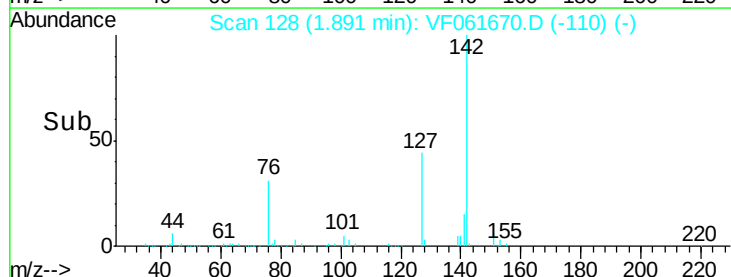
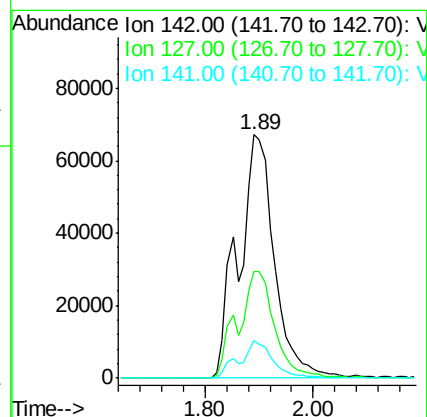
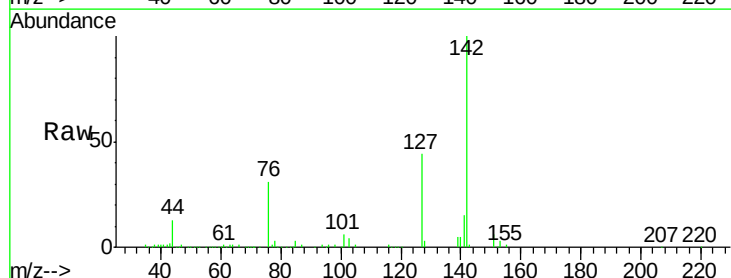
RT: 1.89 min Scan# 128

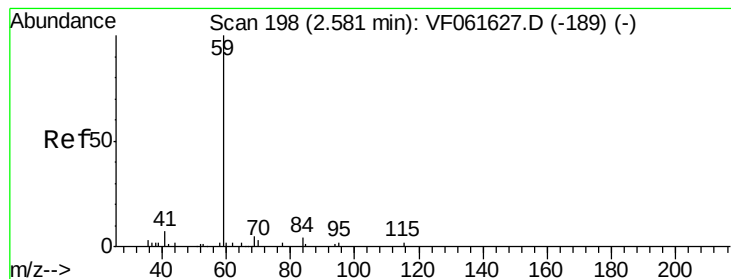
Delta R.T. -0.02 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	142	Resp:	306332
Ion Ratio	Lower	Upper	
142	100		
127	44.1	36.6	55.0
141	15.4	11.0	16.6





#11

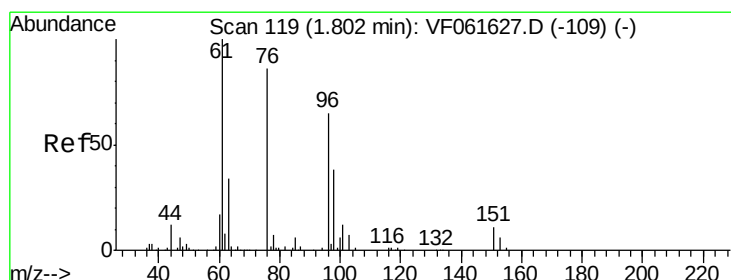
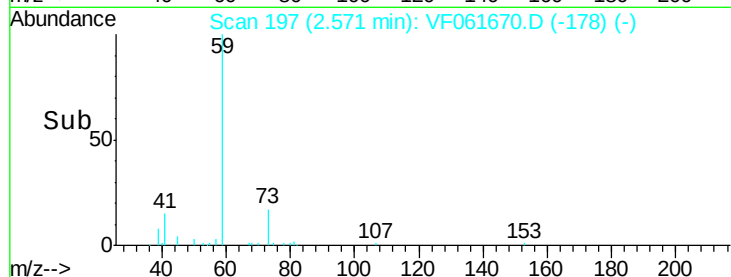
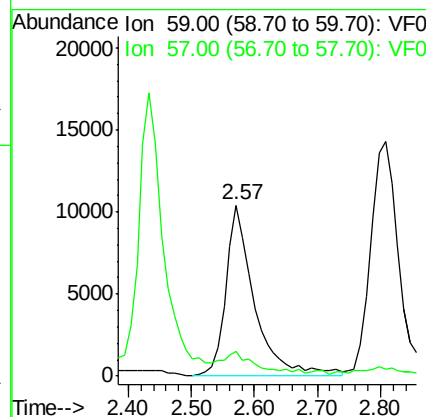
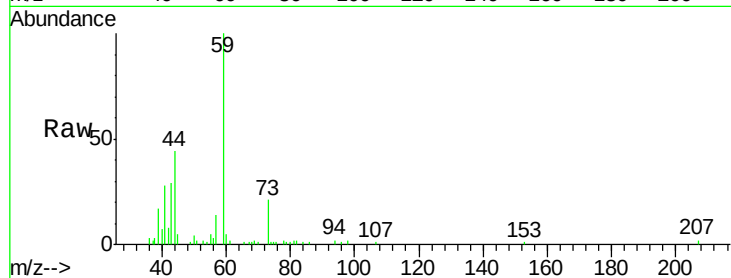
Tert butyl alcohol
Concen: 233.792 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	14.3	12.5	18.7

Manual Integrations
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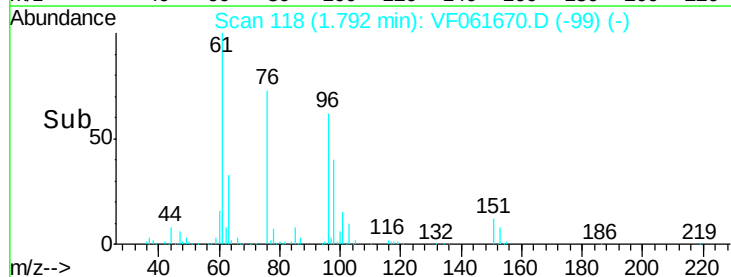
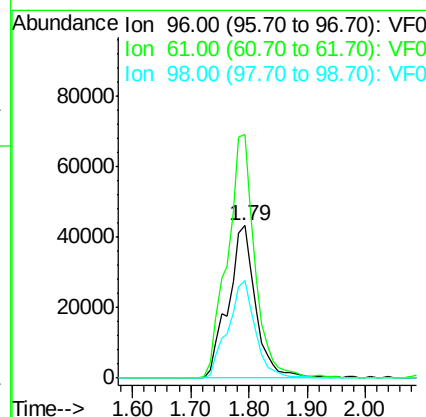
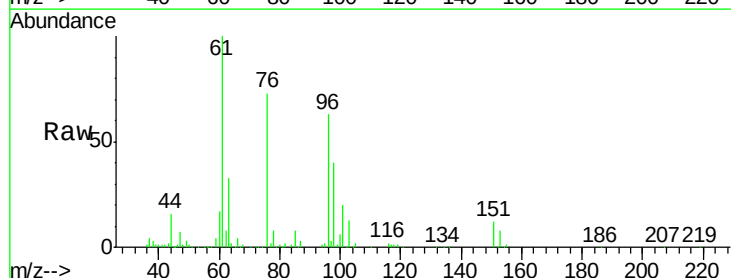
MMDadoda
2/19/2019 12:29:08 PM

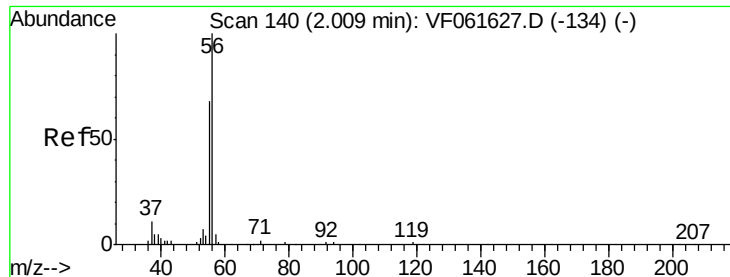


#12

1,1-Dichloroethene
Concen: 49.224 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.9	122.6	184.0
98	63.9	47.2	70.8





#13

Acrolein

Concen: 314.831 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 55613

Ion Ratio Lower Upper

56 100

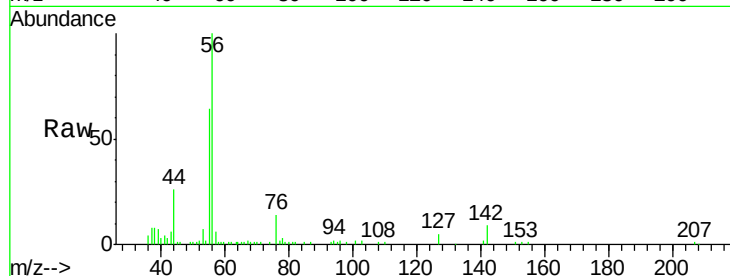
55 64.0 55.0 82.6

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

25000

20000

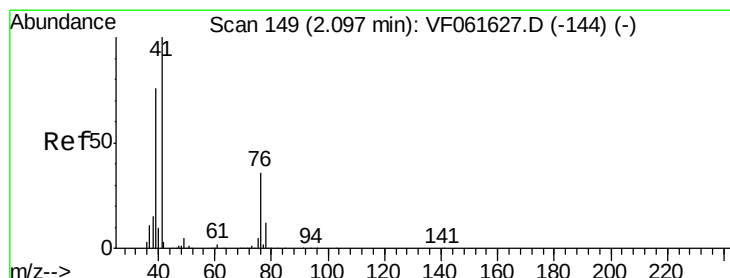
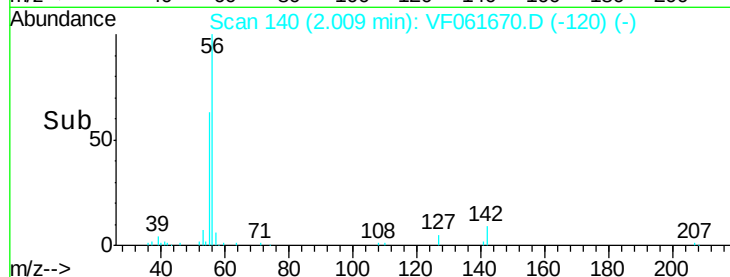
15000

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 60.858 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

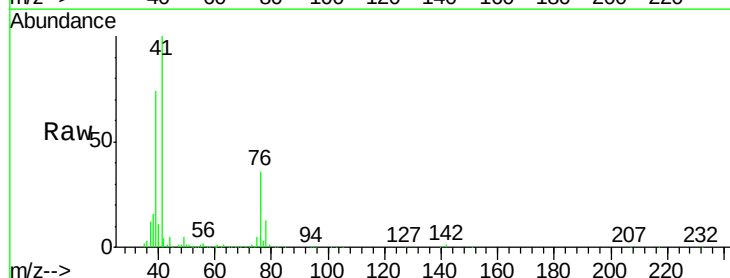
Tgt Ion: 41 Resp: 211927

Ion Ratio Lower Upper

41 100

39 73.7 61.6 92.4

76 36.3 30.3 45.5



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

120000

100000

80000

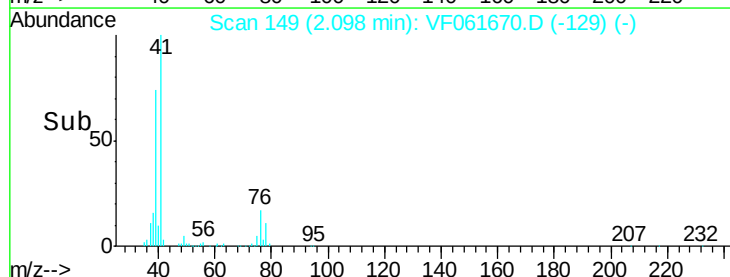
60000

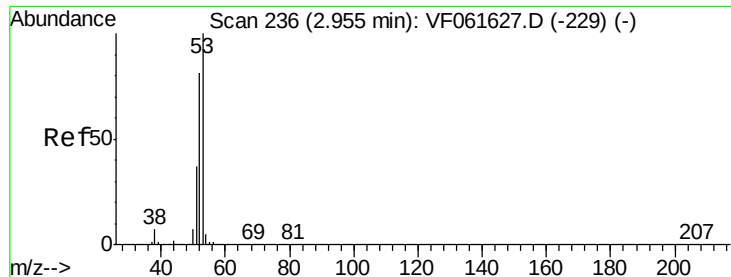
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 203.302 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

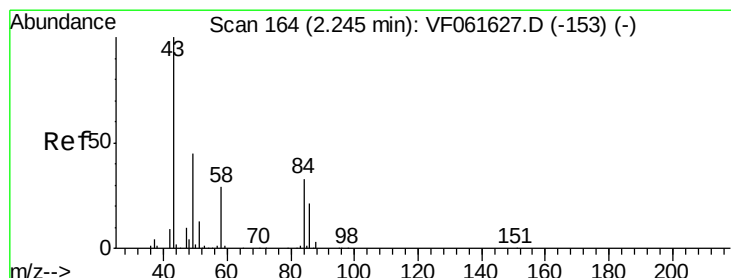
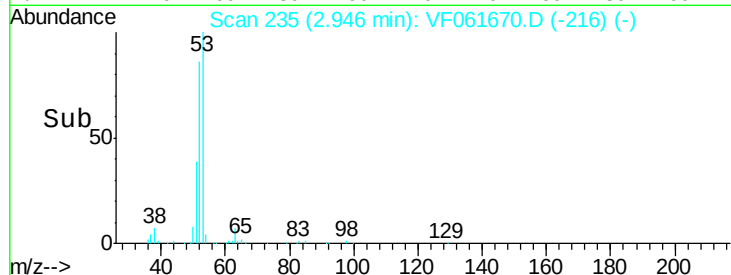
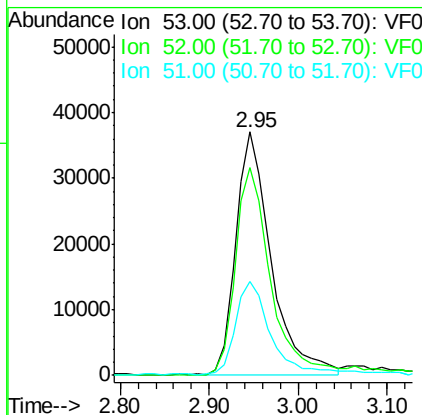
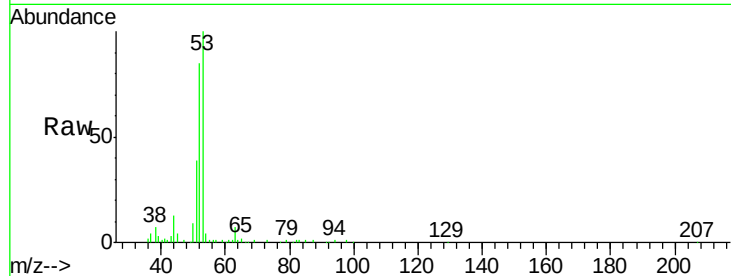
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	101352
Ion Ratio	Lower	Upper	
53	100		
52	85.4	64.6	97.0
51	38.5	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 279.656 ug/l

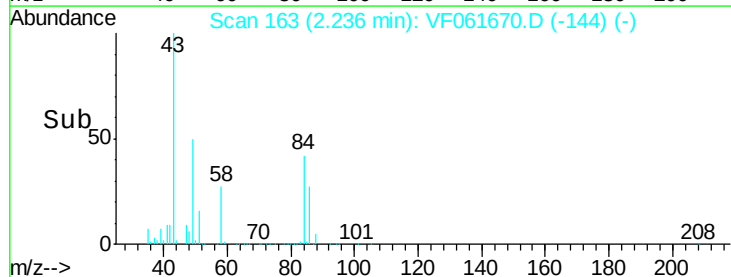
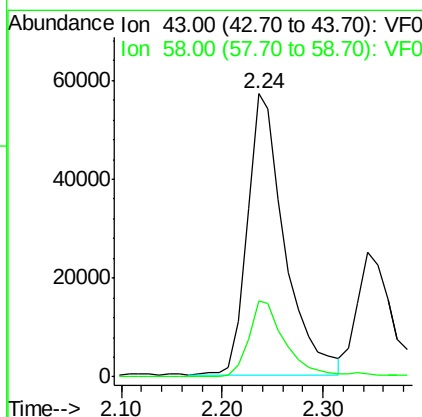
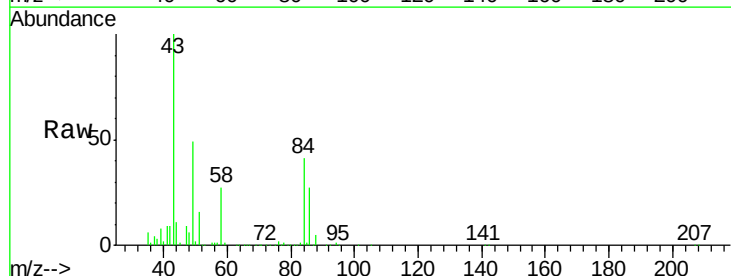
RT: 2.24 min Scan# 163

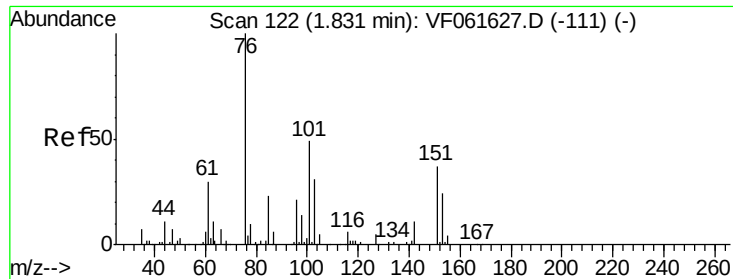
Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	43	Resp:	145716
Ion Ratio	Lower	Upper	
43	100		
58	26.9	22.9	34.3





#17

Carbon Disulfide

Concen: 50.455 ug/l

RT: 1.83 min Scan# 122

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 450070

Ion Ratio Lower Upper

76 100

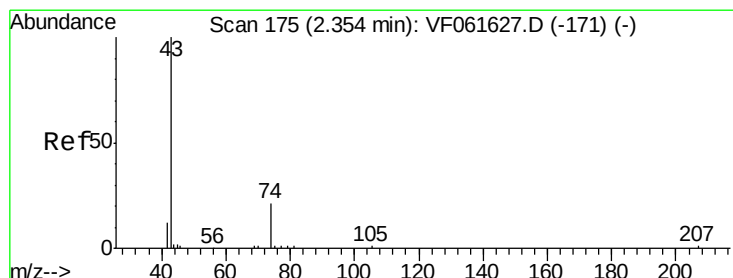
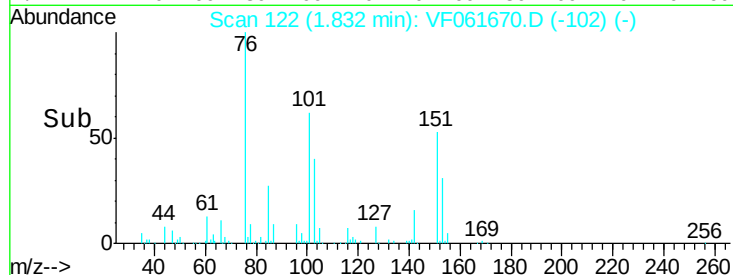
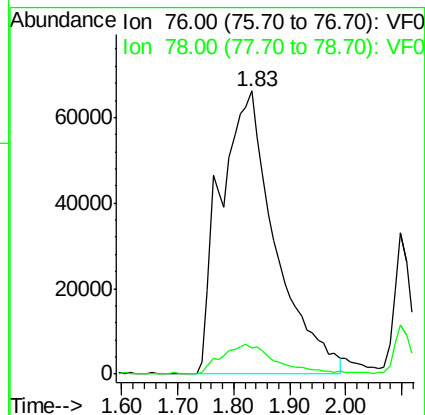
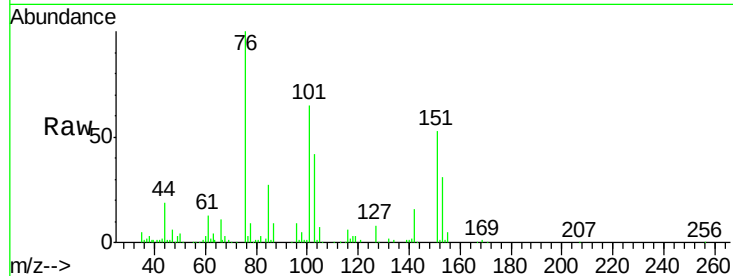
78 9.4 7.9 11.9

Manual Integrations

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#18

Methyl Acetate

Concen: 44.743 ug/l

RT: 2.34 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061670.D

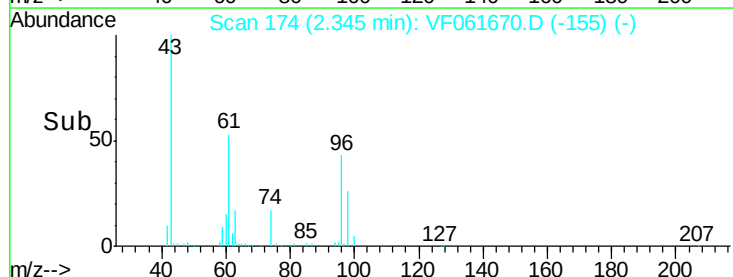
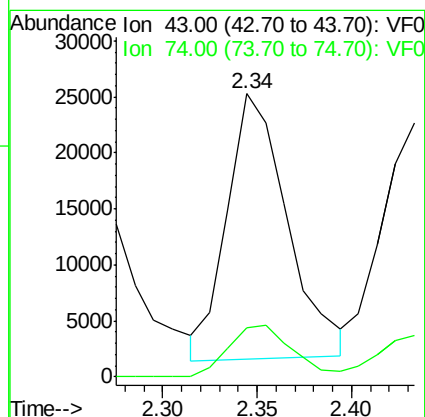
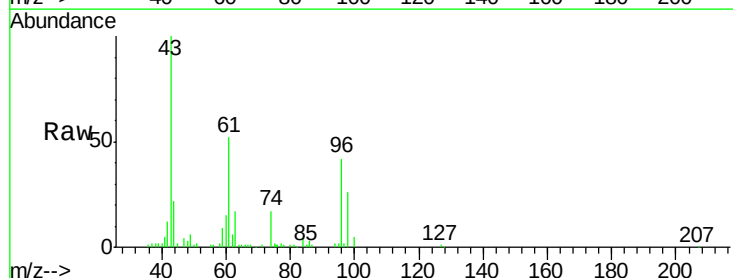
Acq: 18 Feb 2019 10:54

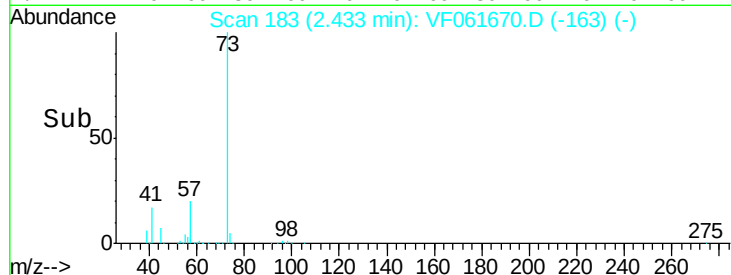
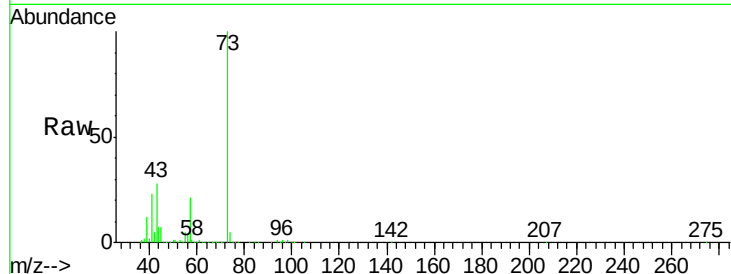
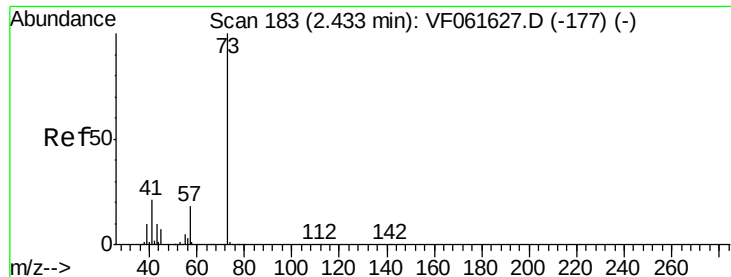
Tgt Ion: 43 Resp: 52520

Ion Ratio Lower Upper

43 100

74 17.4 14.6 21.8





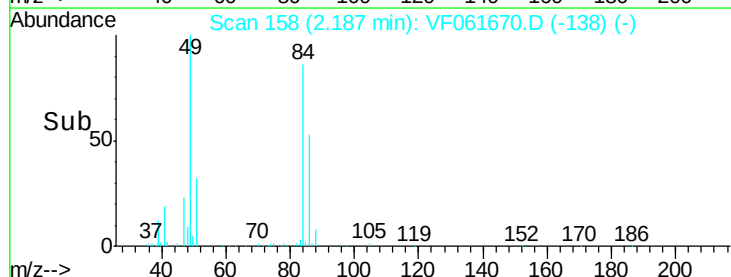
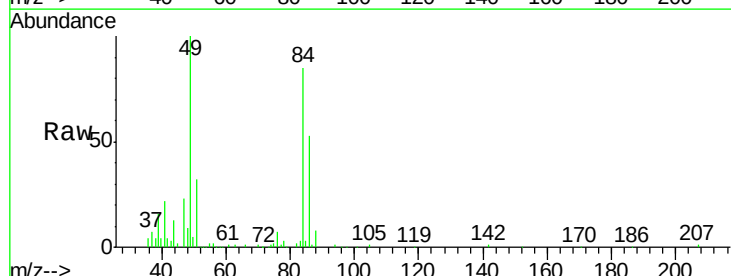
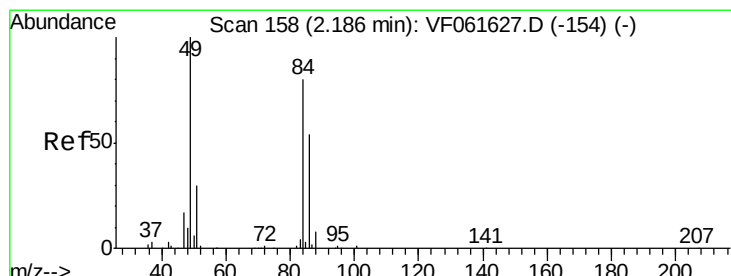
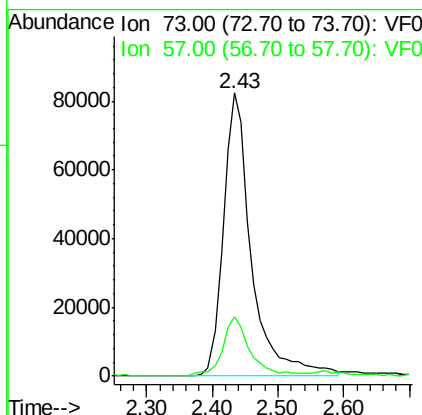
#19
Methyl tert-butyl Ether
Concen: 50.451 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.0	15.8	23.8

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

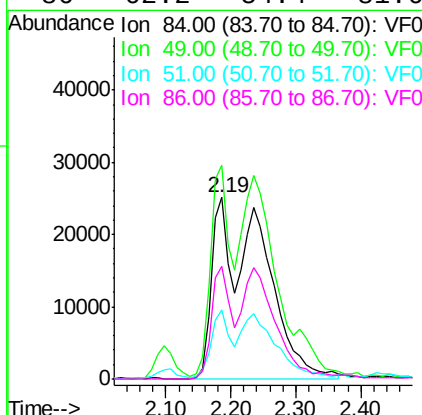
Manual Integrations
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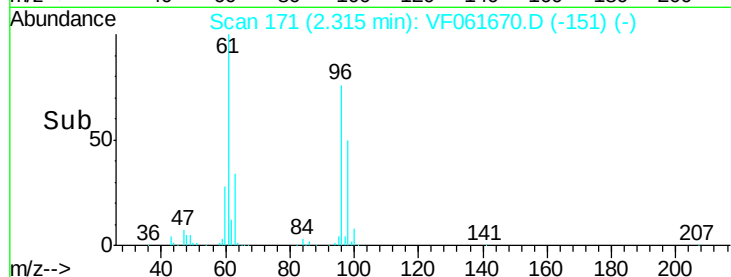
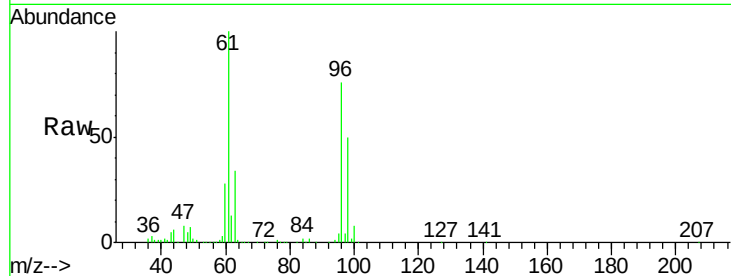
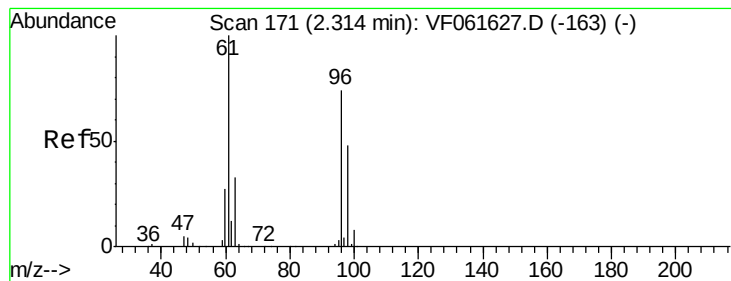
MMDadoda
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#20
Methylene Chloride
Concen: 47.404 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Lower	Upper
84	100		
49	117.5	101.8	152.8
51	38.0	31.1	46.7
86	62.2	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 45.459 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tot Ion:	96	Resp:	140238
Ion	Ratio	Lower	Upper
96	100		
61	131.5	108.2	162.4
98	66.0	52.2	78.2

Instrument :

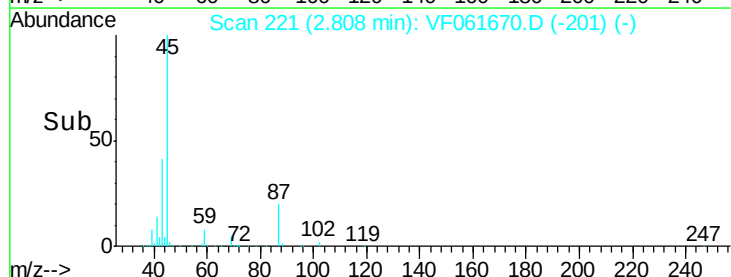
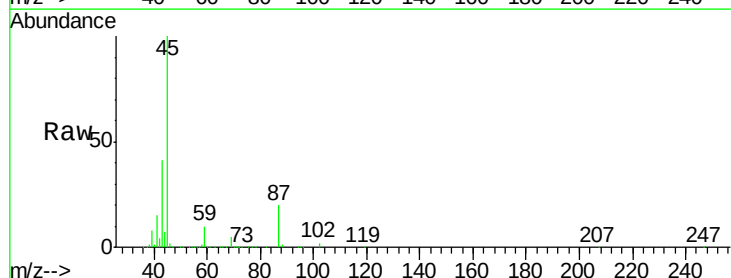
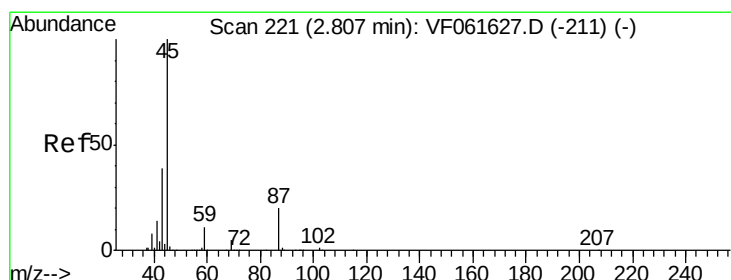
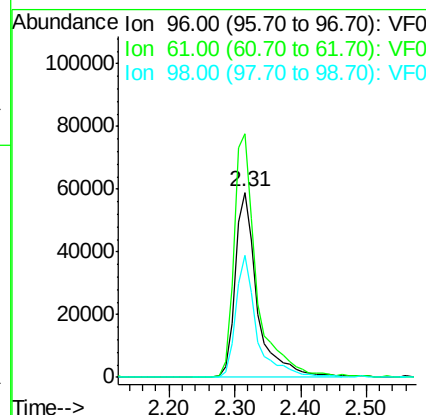
MSVOA_F

ClientSampleId :

VSTDCCC050

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2/19/2019 12:29:08 PM



#22

Diisopropyl ether

Concen: 49.792 ug/l

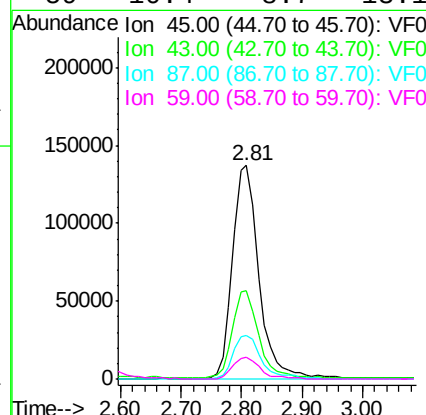
RT: 2.81 min Scan# 221

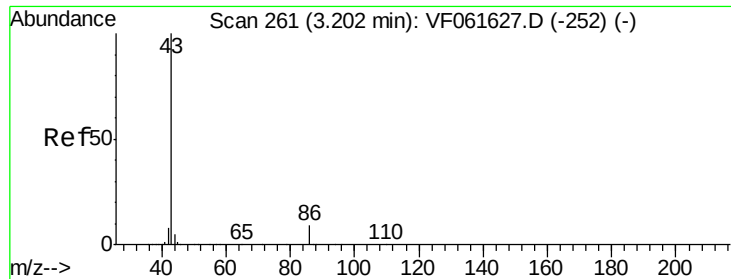
Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	45	Resp:	416211
Ion	Ratio	Lower	Upper
45	100		
43	41.4	31.4	47.2
87	20.4	16.3	24.5
59	10.4	8.7	13.1





#23

Vinyl Acetate

Concen: 229.247 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 935968

Ion Ratio Lower Upper

43 100

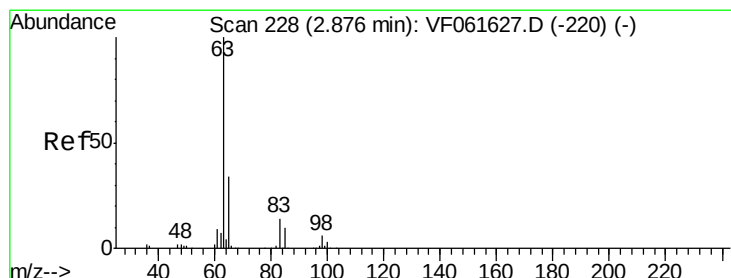
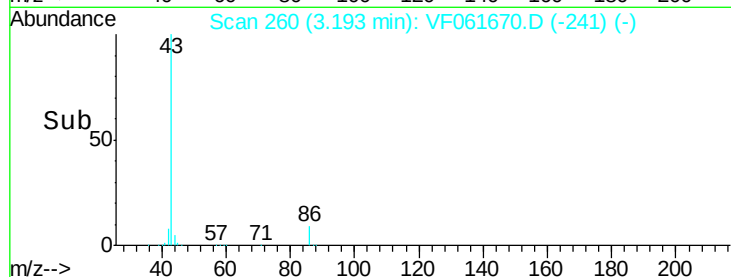
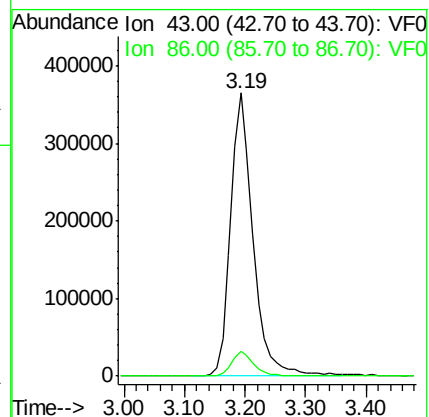
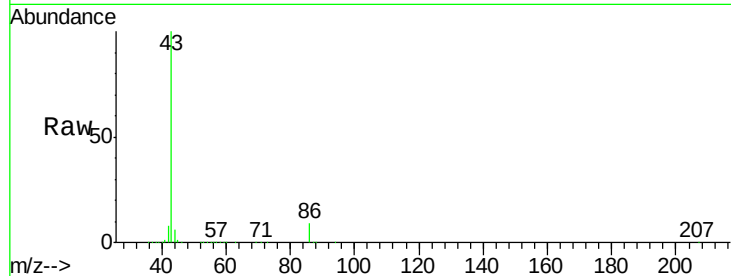
86 8.9 7.5 11.3

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 48.516 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

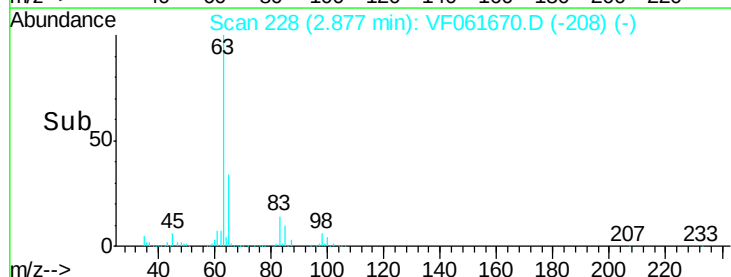
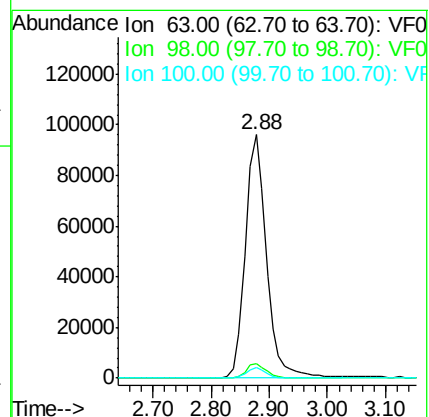
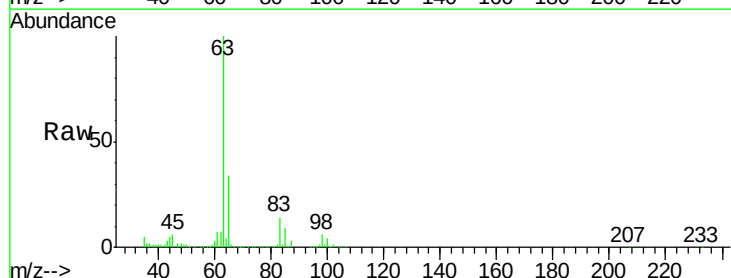
Tgt Ion: 63 Resp: 245423

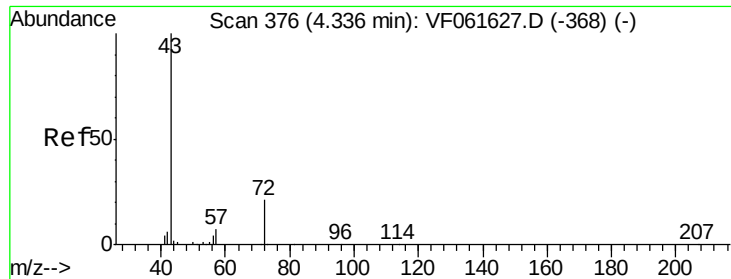
Ion Ratio Lower Upper

63 100

98 6.2 2.8 8.3

100 4.1 1.8 5.4





#25

2-Butanone

Concen: 249.475 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 283939

Ion Ratio Lower Upper

43 100

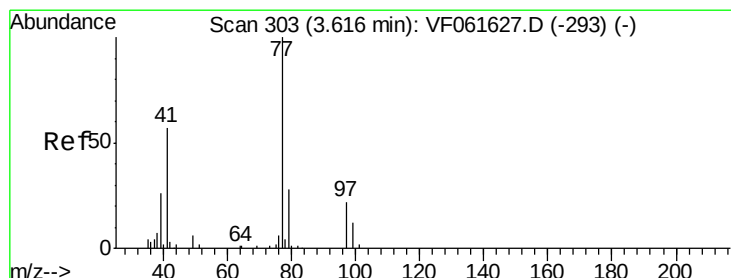
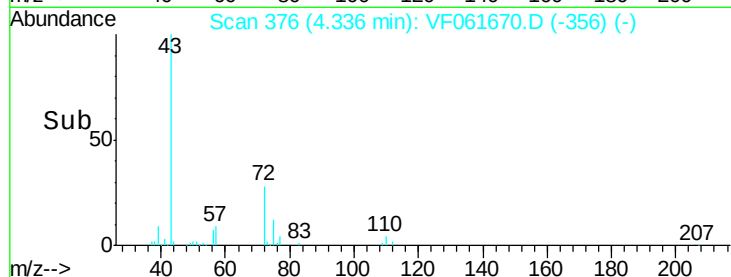
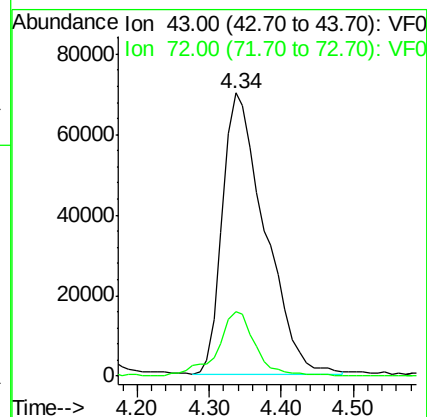
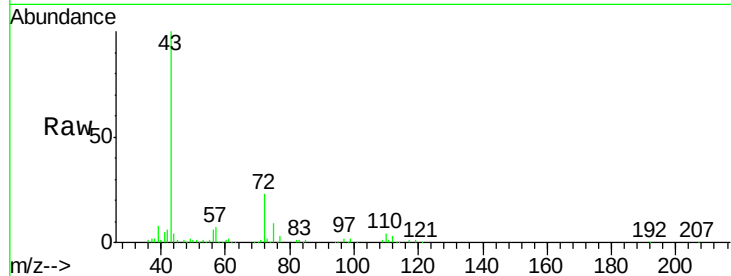
72 22.8 17.1 25.7

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 56.997 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.01 min

Lab File: VF061670.D

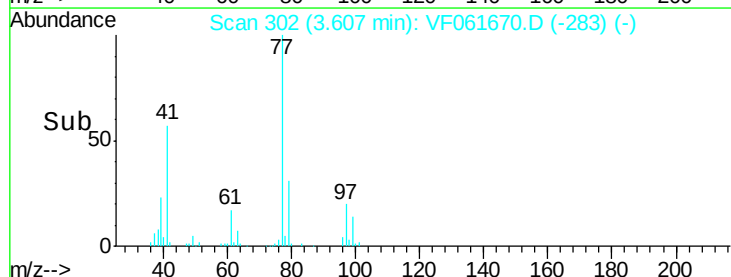
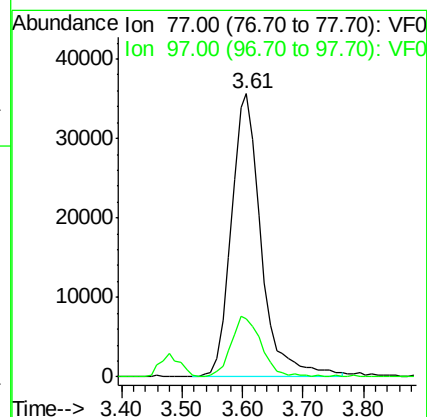
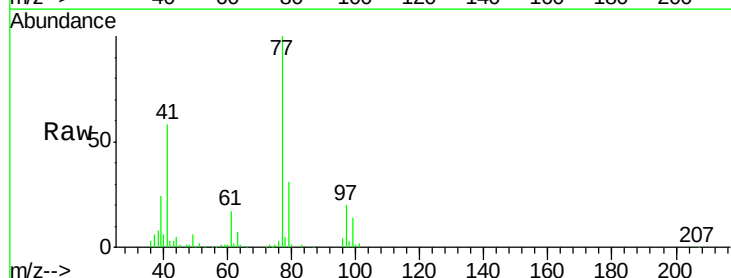
Acq: 18 Feb 2019 10:54

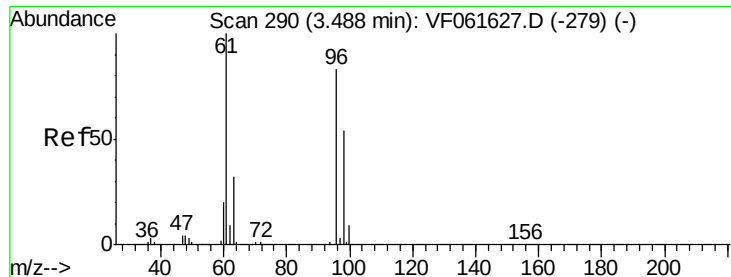
Tgt Ion: 77 Resp: 122129

Ion Ratio Lower Upper

77 100

97 20.3 11.7 35.0





#27

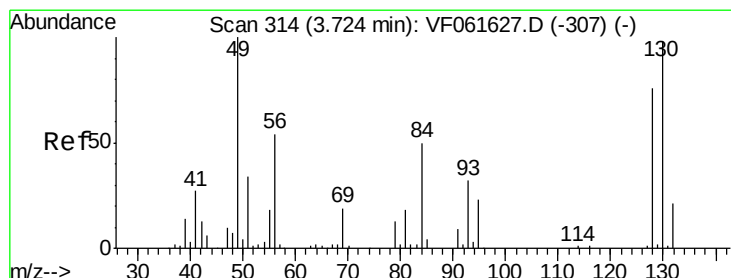
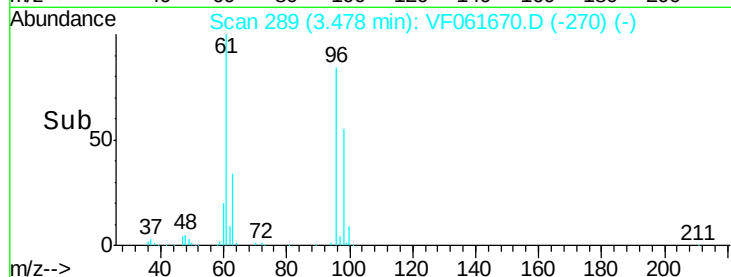
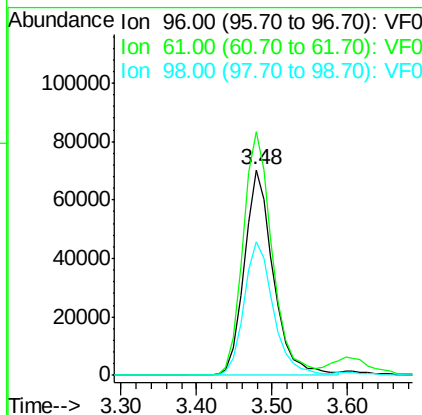
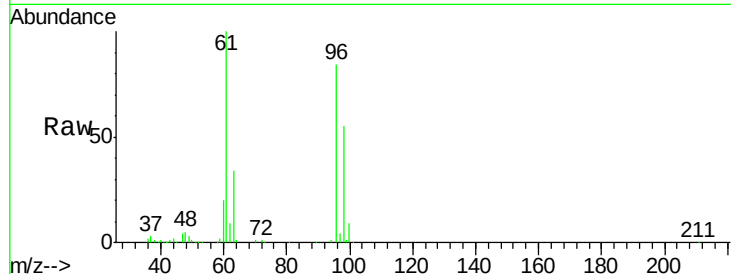
cis-1,2-Dichloroethene
Concen: 46.122 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	186755		
61	118.5	0.0	241.6	
98	65.0	0.0	130.2	

Manual Integrations
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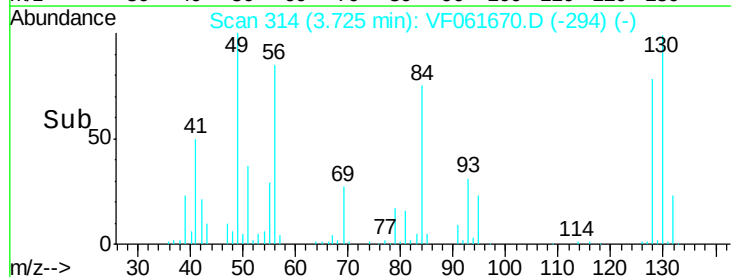
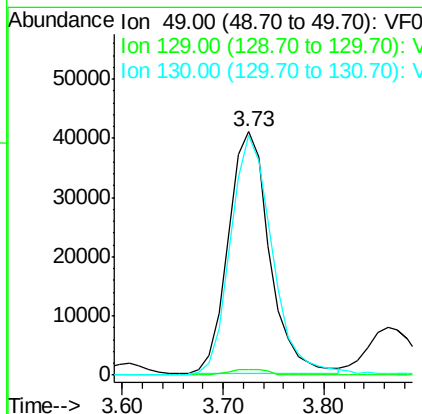
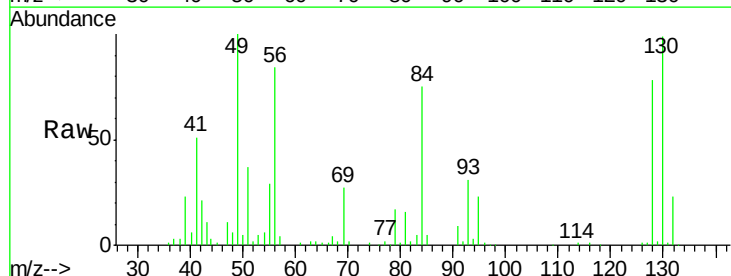
MMDadoda
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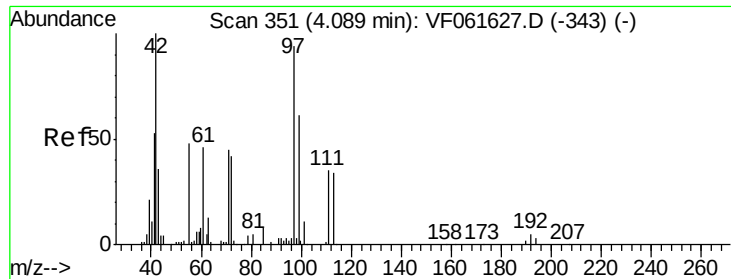


#28

Bromochloromethane
Concen: 48.088 ug/l
RT: 3.73 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	116718		
129	2.4	0.0	3.4	
130	98.5	77.7	116.5	





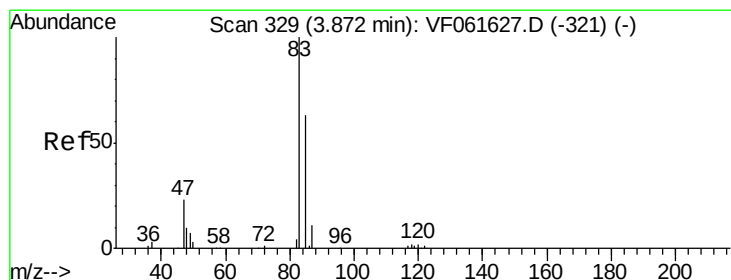
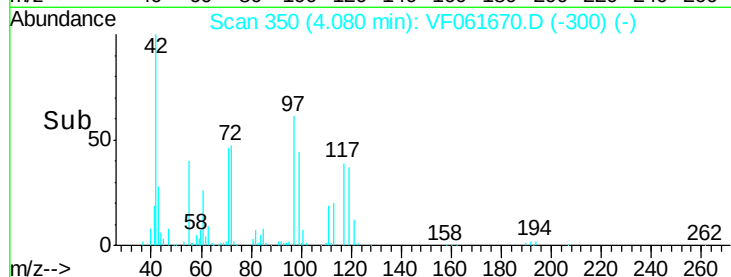
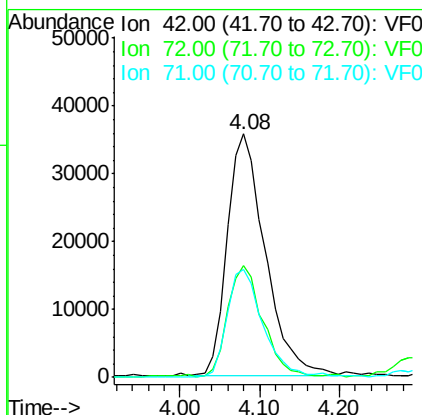
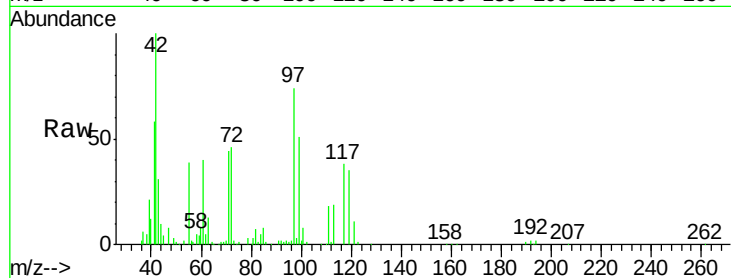
#29
Tetrahydrofuran
Concen: 229.346 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100	118640		
72	41.9		35.2	52.8
71	43.0		32.9	49.3

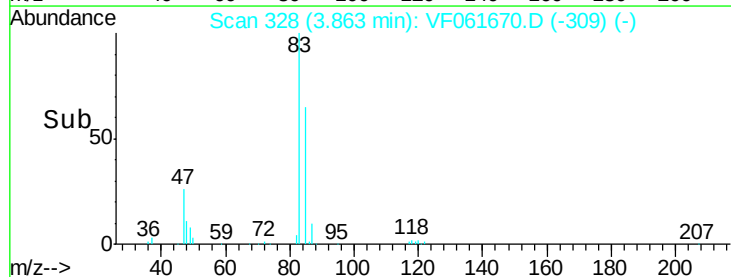
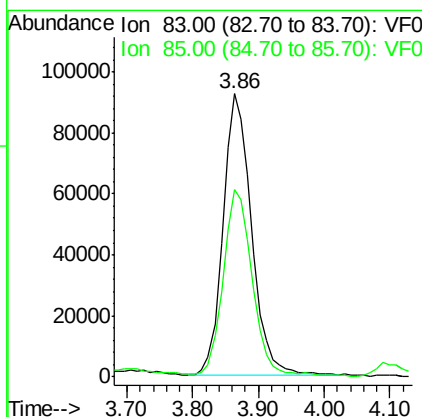
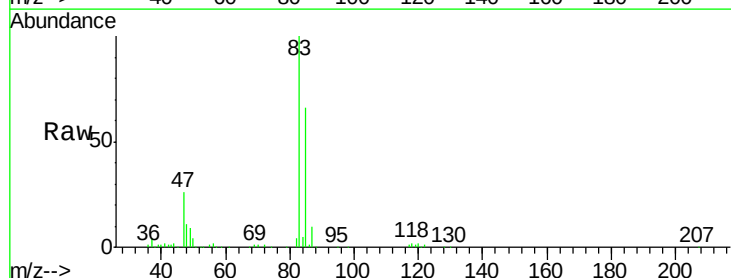
Manual Integrations
APPROVED

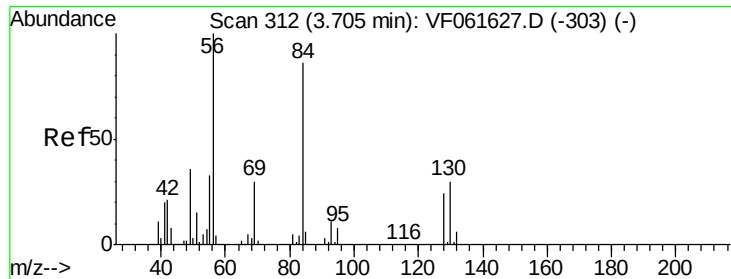
MMDadoda
2/19/2019 12:29:08 PM



#30
Chloroform
Concen: 48.794 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	280702		
85	66.1		51.1	76.7





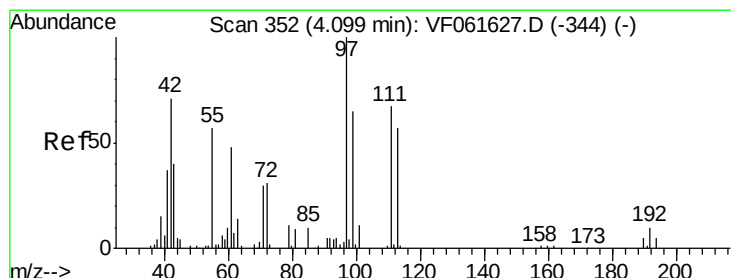
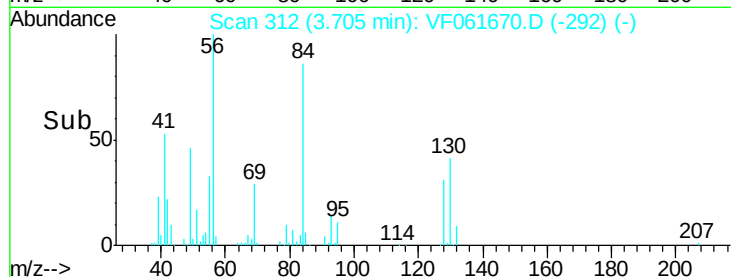
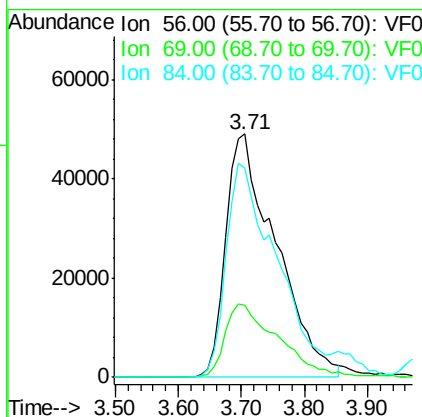
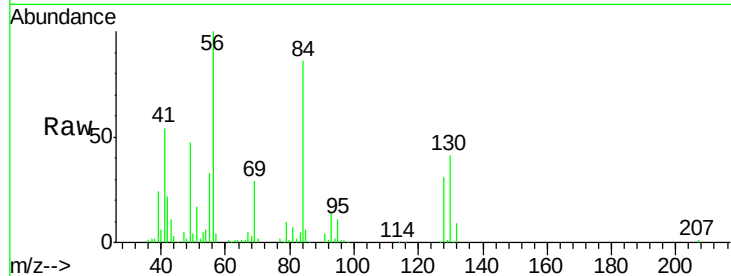
#31
Cyclohexane
Concen: 49.373 ug/l
RT: 3.71 min Scan# 312
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.5	23.8	35.8
84	85.9	68.6	103.0

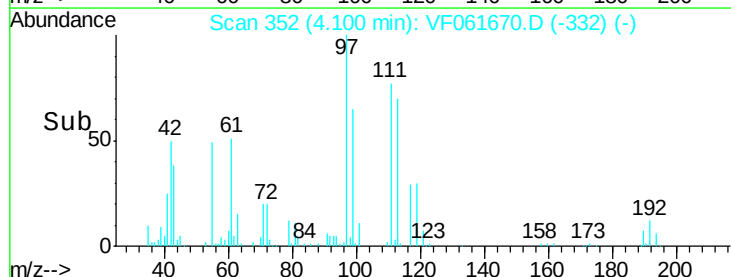
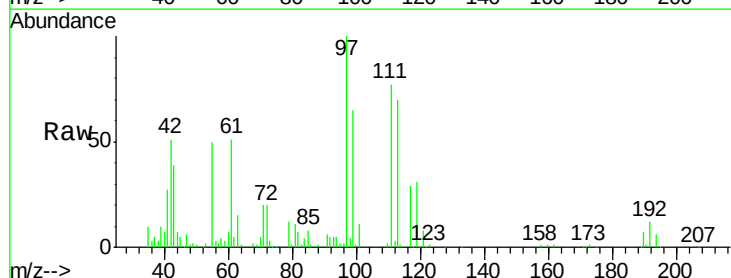
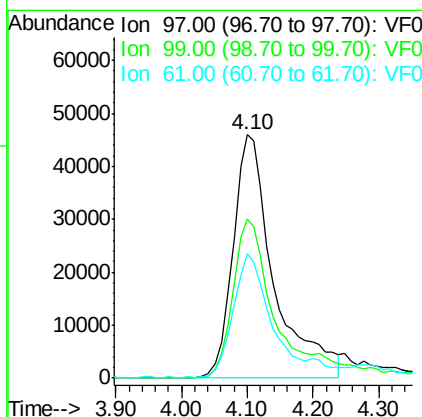
Manual Integrations
APPROVED

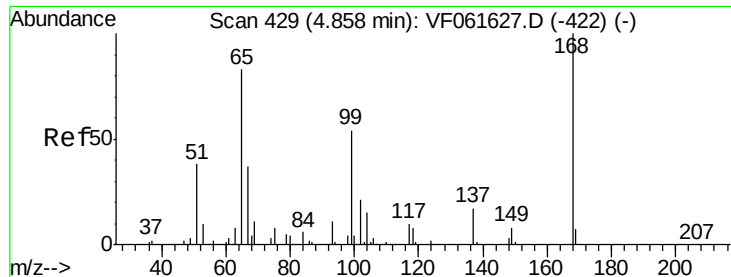
MMDadoda
2/19/2019 12:29:08 PM



#32
1,1,1-Trichloroethane
Concen: 53.112 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.2	78.2
61	51.0	39.2	58.8





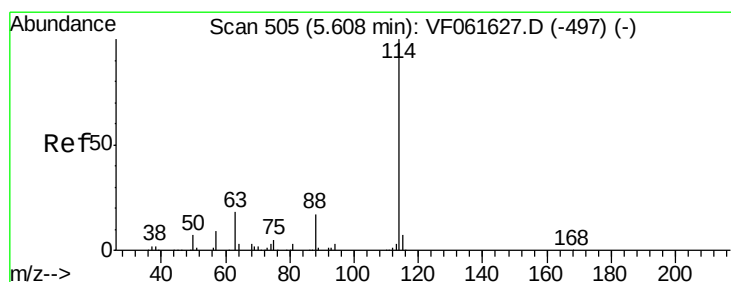
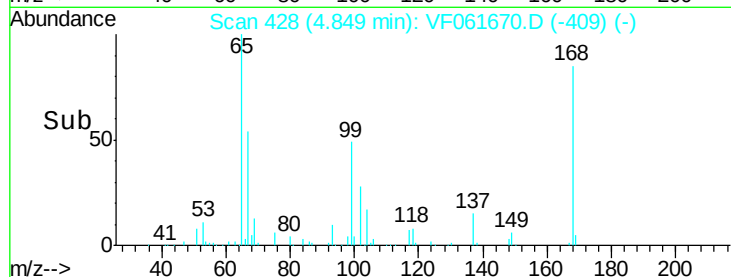
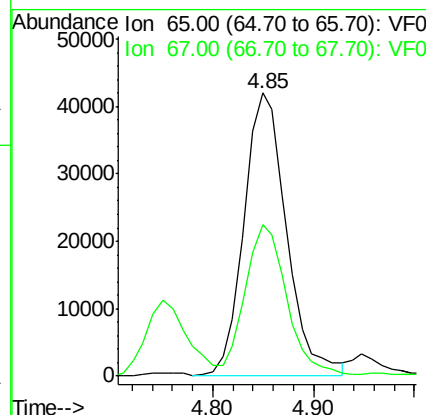
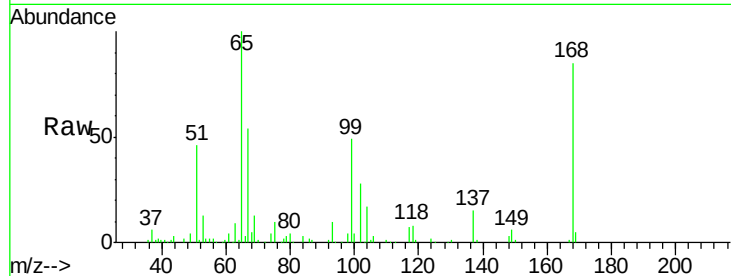
#33
 1,2-Dichloroethane-d4
 Concen: 50.561 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.01 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	122789		
67	53.6	0.0	104.0	

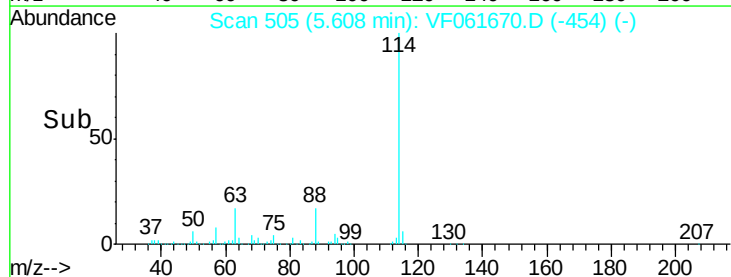
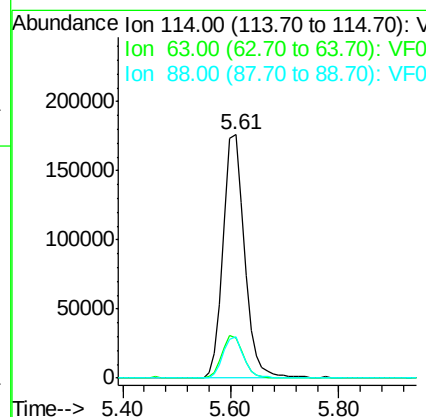
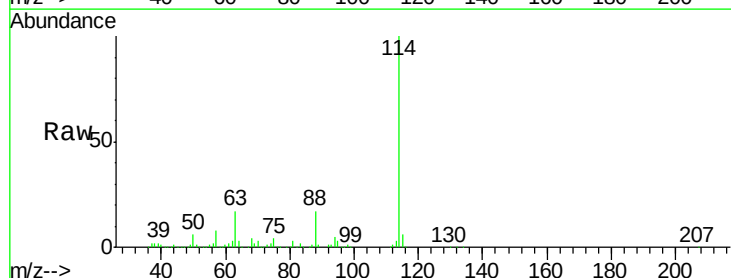
Manual Integrations
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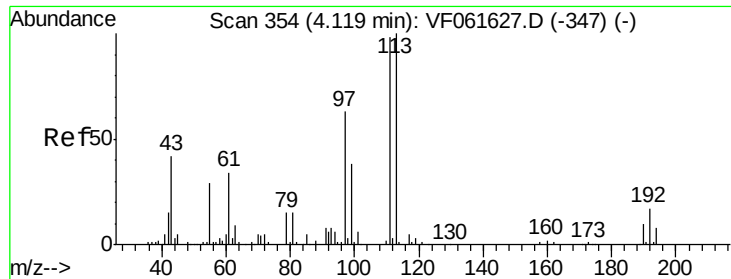
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	485664		
63	16.6	0.0	36.6	
88	16.8	0.0	34.4	





#35

Dibromofluoromethane

Concen: 49.016 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

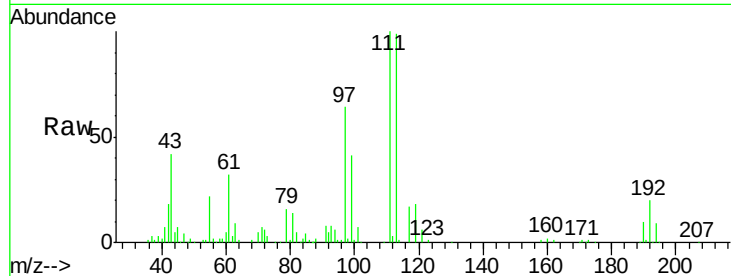
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	78.8	118.2
192	20.7	13.4	20.0

Manual Integrations
APPROVED

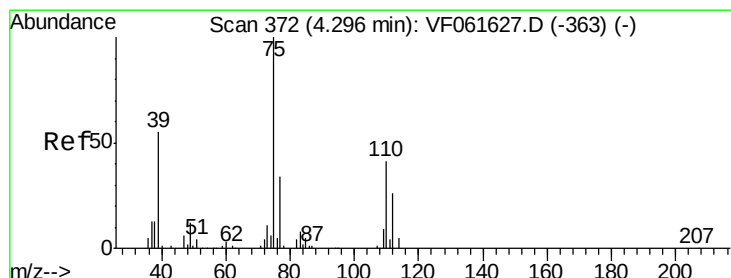
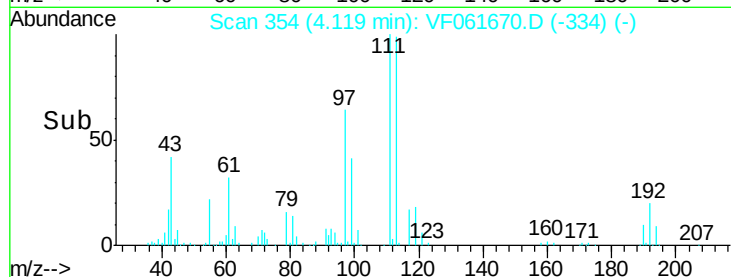
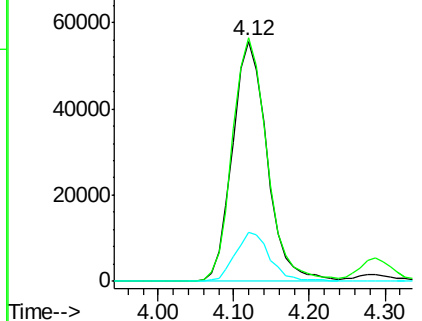
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Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 47.618 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF061670.D

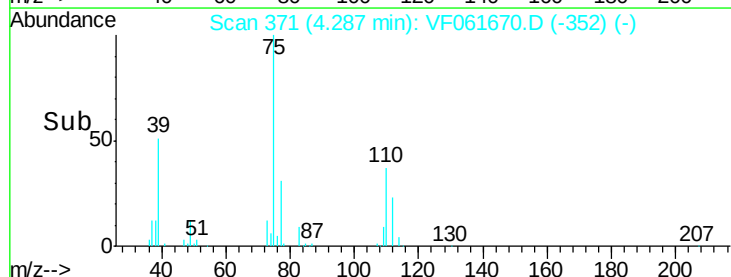
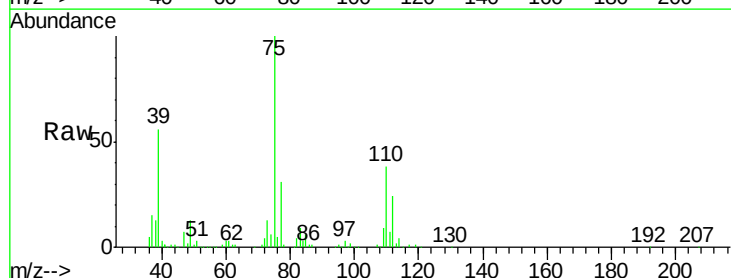
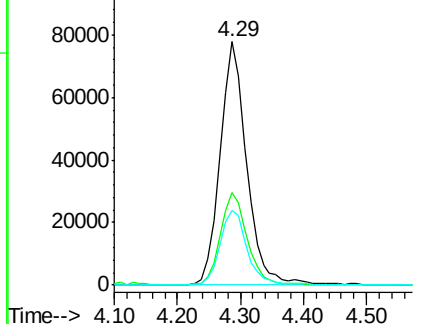
Acq: 18 Feb 2019 10:54

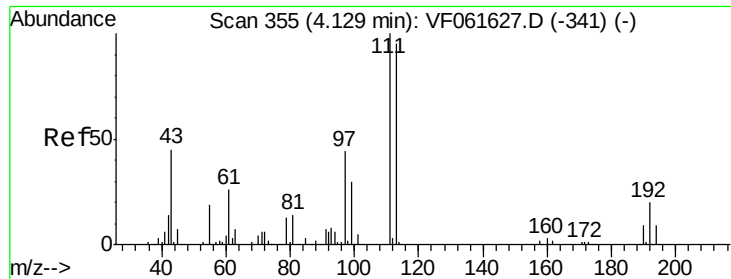
Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.3	20.5	61.6
77	30.6	27.0	40.4

Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





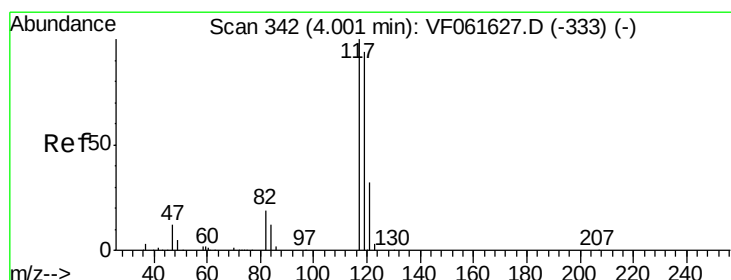
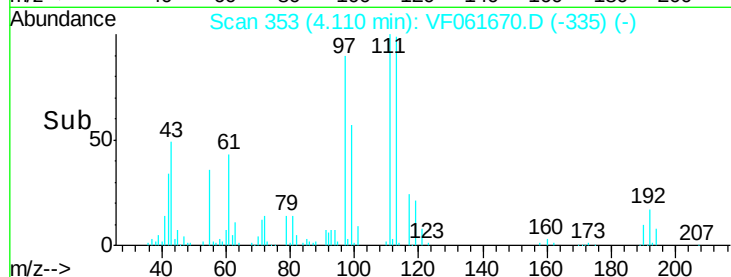
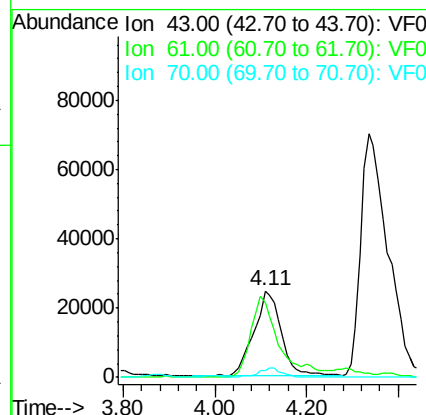
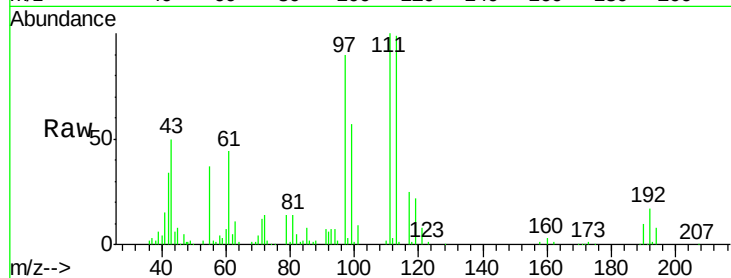
#37
Ethyl Acetate
Concen: 45.993 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.02 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	87.3	45.7	68.5#
70	8.4	8.5	12.7#

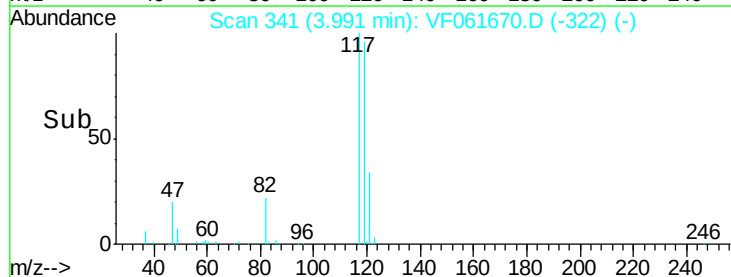
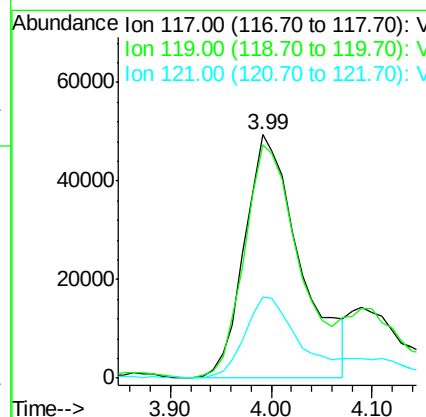
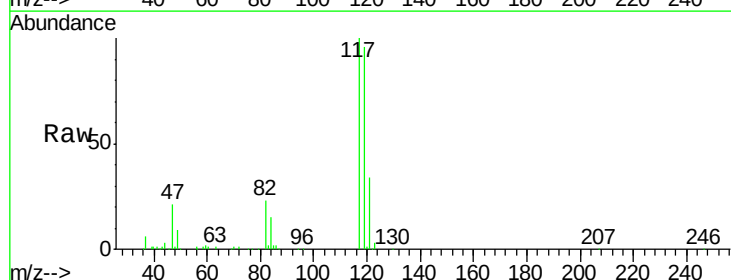
Manual Integrations
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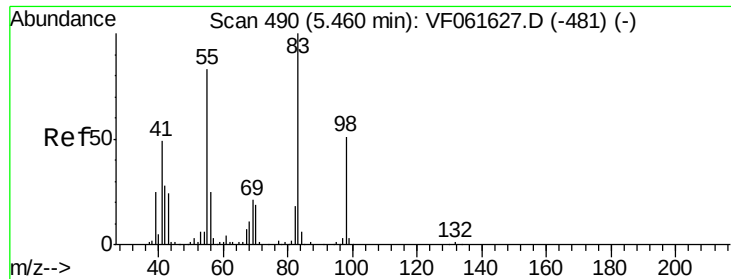
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#38
Carbon Tetrachloride
Concen: 57.109 ug/l
RT: 3.99 min Scan# 341
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.6	113.4
121	33.5	25.2	37.8





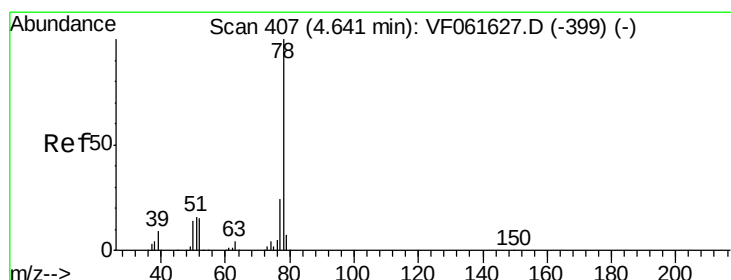
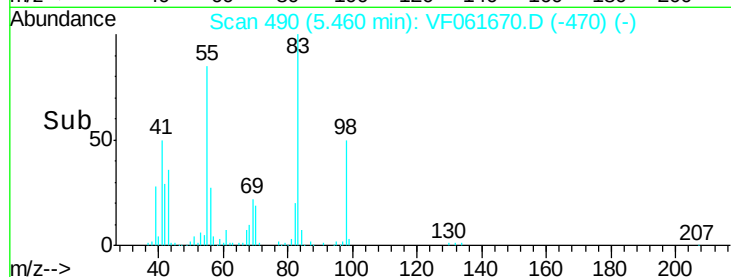
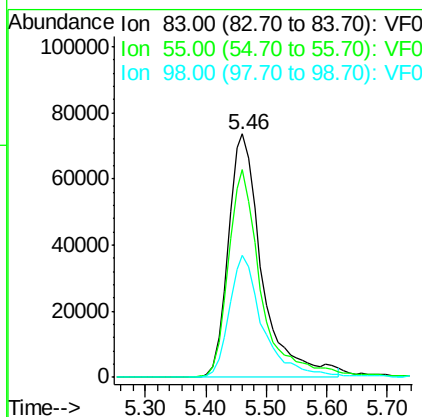
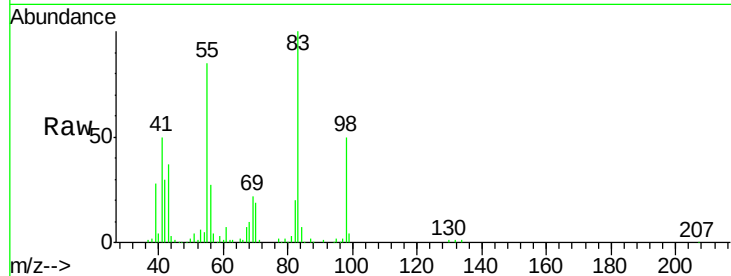
#39
Methylvlcyclohexane
Concen: 50.155 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	285376		
55	85.1	66.6	99.8	
98	50.0	40.4	60.6	

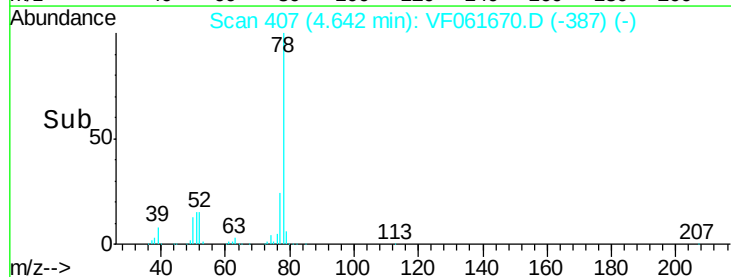
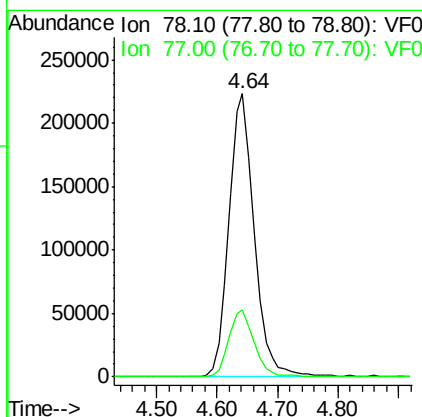
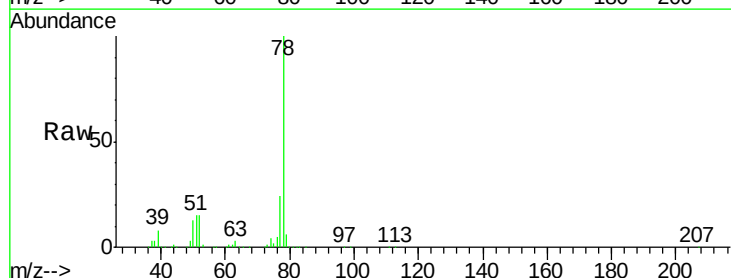
Manual Integrations
APPROVED

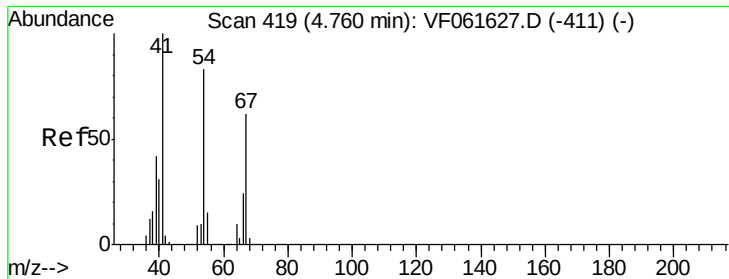
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#40
Benzene
Concen: 51.609 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	649463		
77	23.7	19.0	28.6	





#41

Methacrylonitrile

Concen: 46.654 ug/l

RT: 4.75 min Scan# 418

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

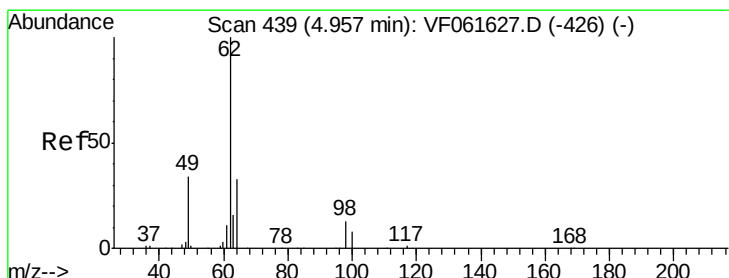
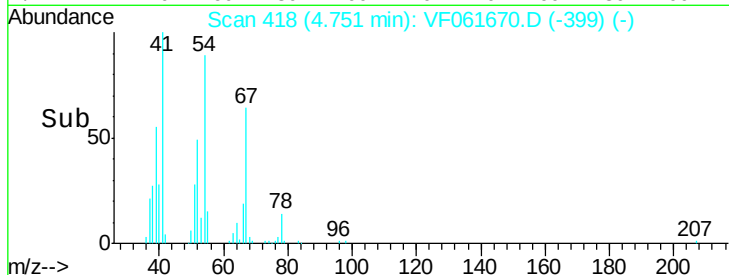
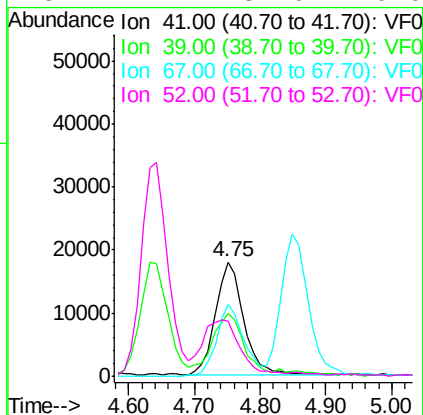
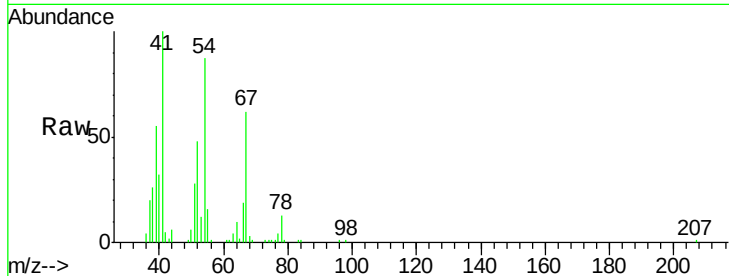
ClientSampleId :

VSTDCCC050

Tot Ion	41	Resp	53316
Ion Ratio	Lower	Upper	
41	100		
39	55.1	45.3	67.9
67	62.5	49.3	73.9
52	47.7	32.6	49.0

Manual Integrations
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2/19/2019 12:29:08 PM



#42

1,2-Dichloroethane

Concen: 50.186 ug/l

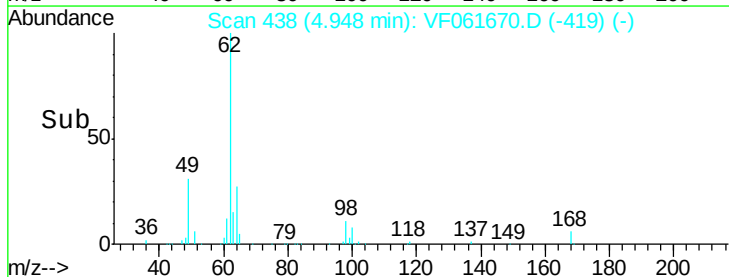
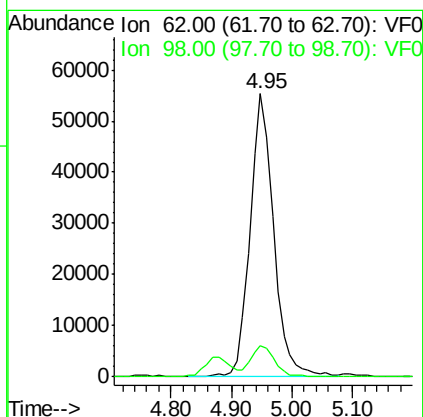
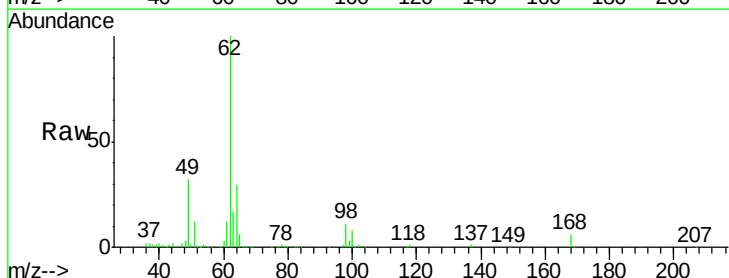
RT: 4.95 min Scan# 438

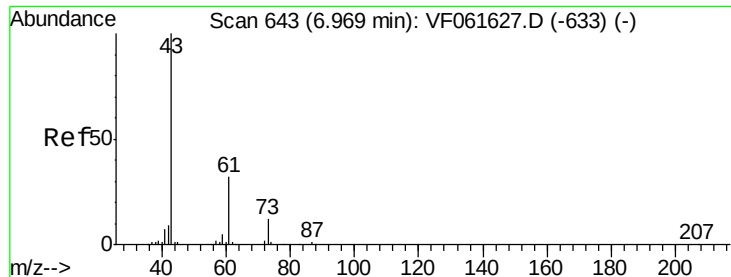
Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion	62	Resp	151069
Ion Ratio	Lower	Upper	
62	100		
98	10.9	0.0	26.0





#43

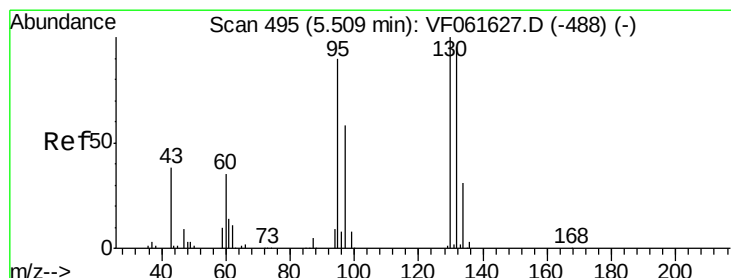
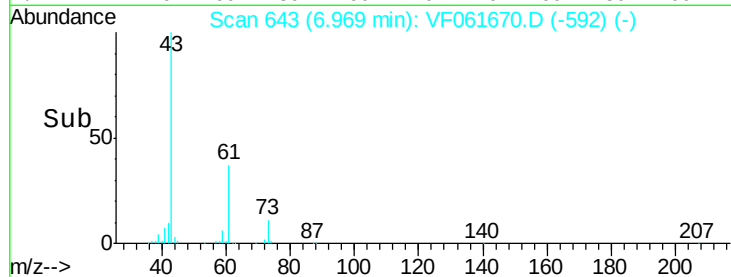
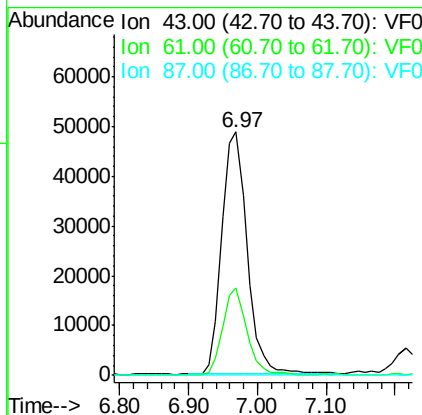
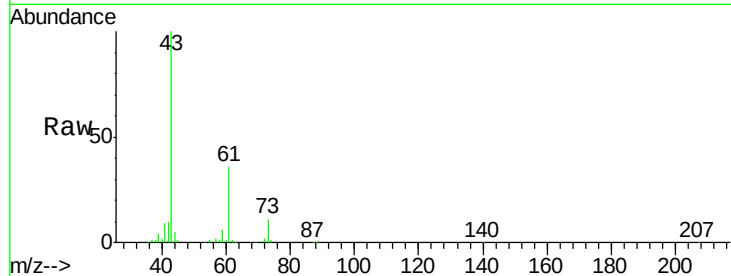
Isopropyl Acetate
 Concen: 47.095 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.9	25.8	38.6
87	0.3	0.4	0.6

Manual Integrations
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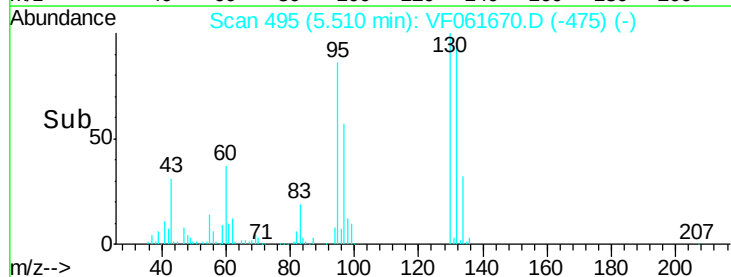
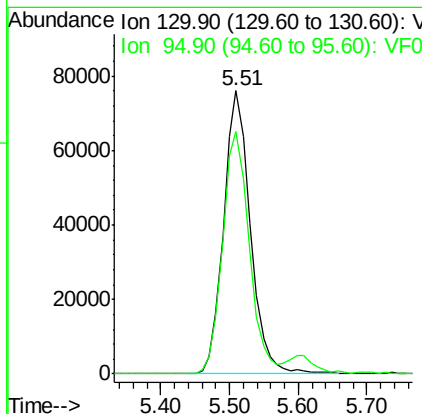
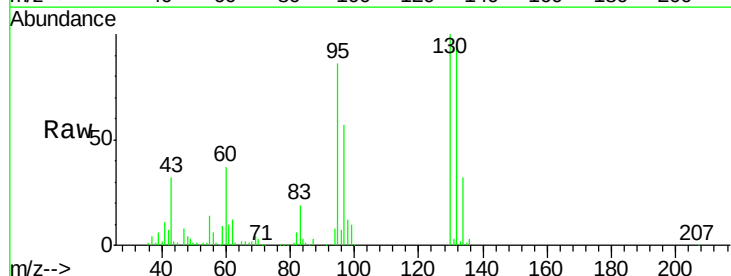
MMDadoda
 2/19/2019 12:29:08 PM

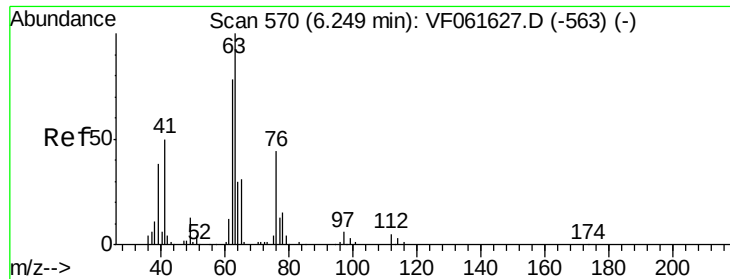


#44

Trichloroethene
 Concen: 50.356 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	85.5	0.0	179.4





#45

1,2-Dichloropropane

Concen: 50.030 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 152182

Ion Ratio Lower Upper

63 100

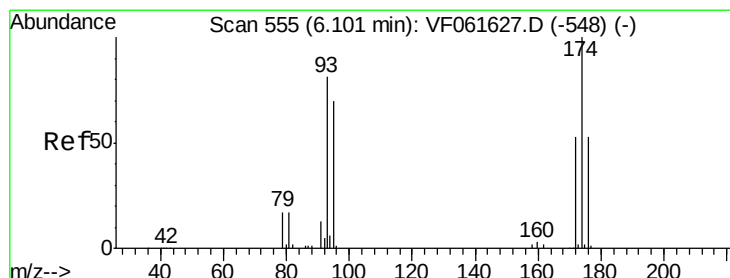
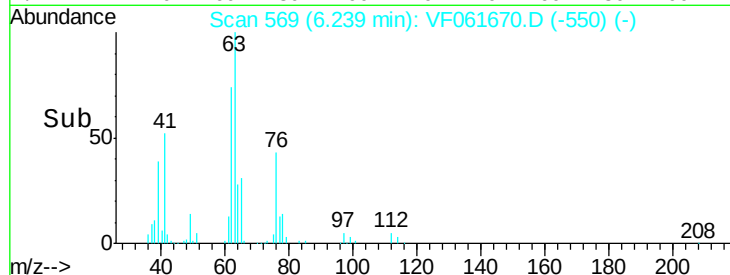
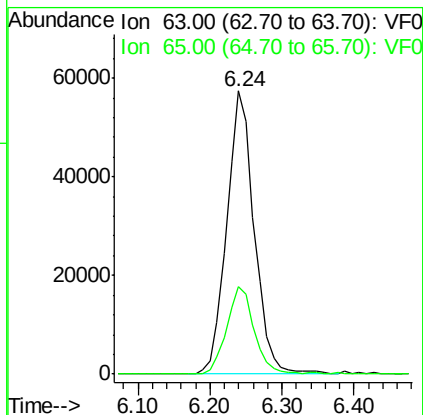
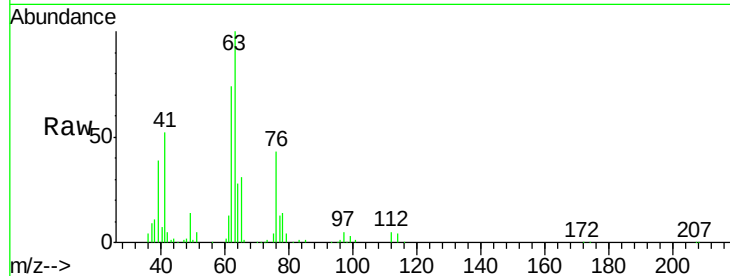
65 30.8 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 50.788 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

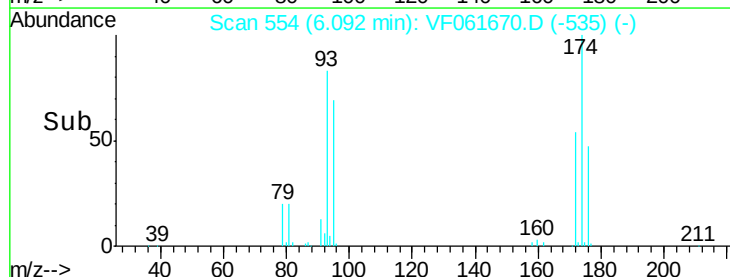
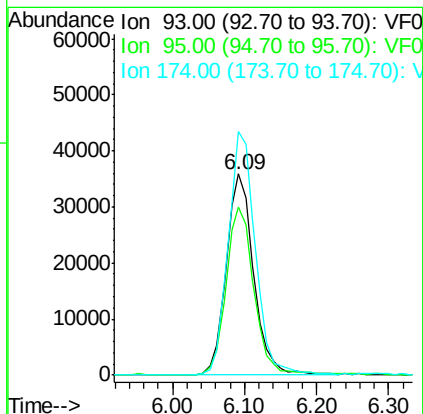
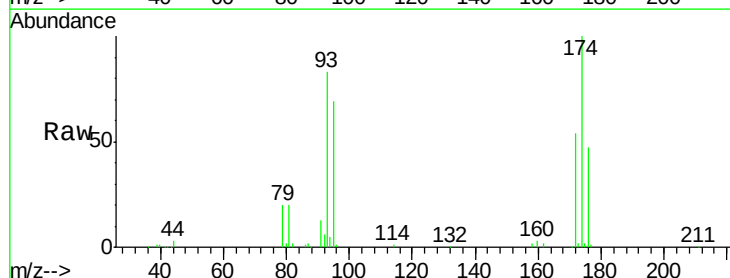
Tgt Ion: 93 Resp: 95119

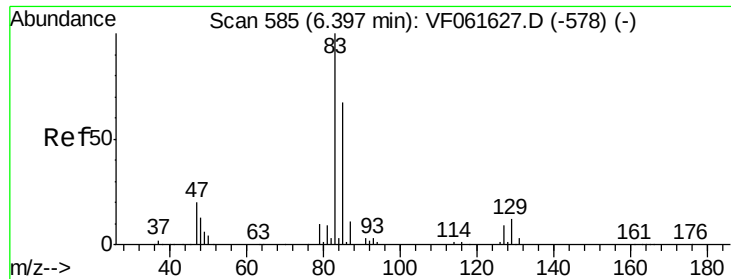
Ion Ratio Lower Upper

93 100

95 83.7 69.0 103.6

174 121.2 99.3 148.9





#47

Bromodichloromethane

Concen: 50.441 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

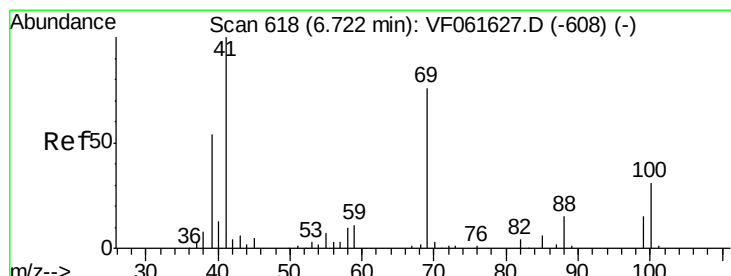
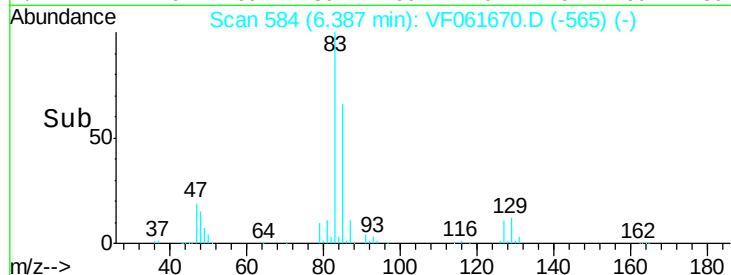
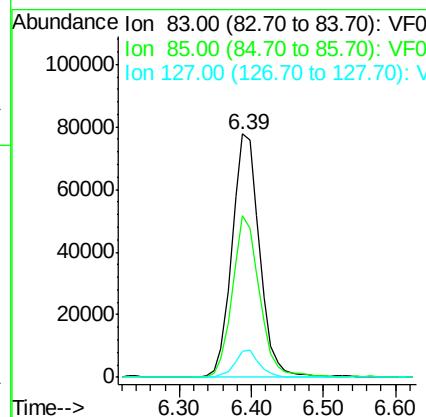
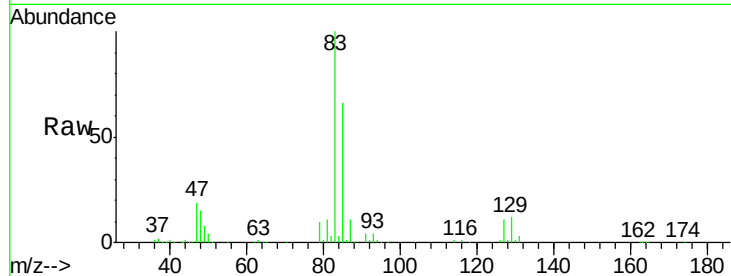
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	206876
Ion Ratio	Lower	Upper	
83	100		
85	66.3	53.4	80.2
127	10.9	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 50.252 ug/l

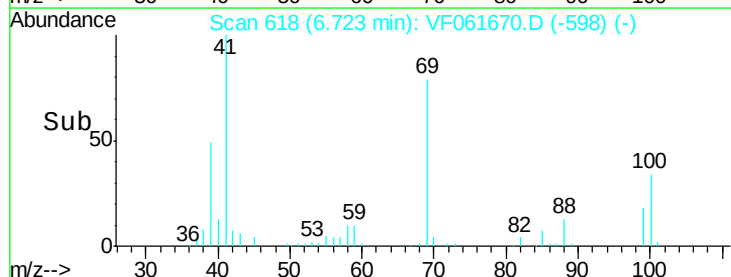
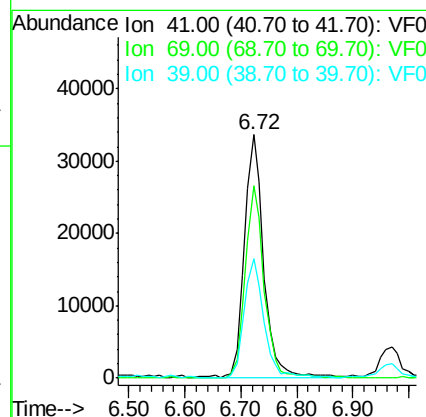
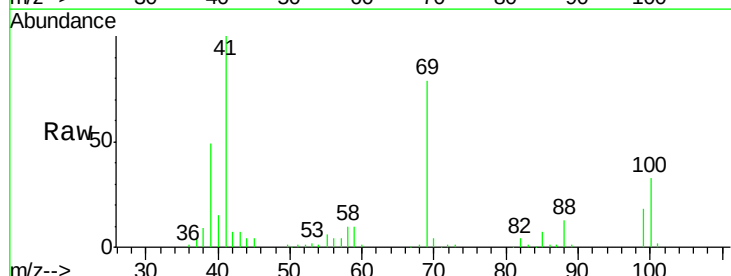
RT: 6.72 min Scan# 618

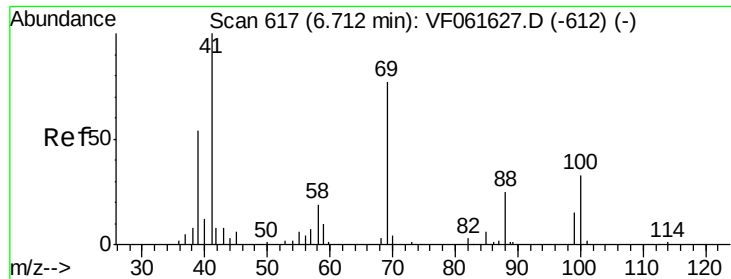
Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	41	Resp:	79991
Ion Ratio	Lower	Upper	
41	100		
69	78.9	60.4	90.6
39	49.1	43.7	65.5





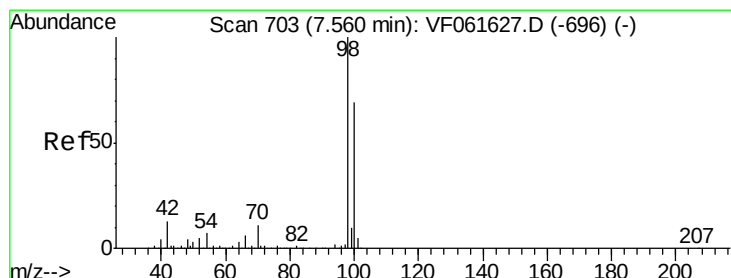
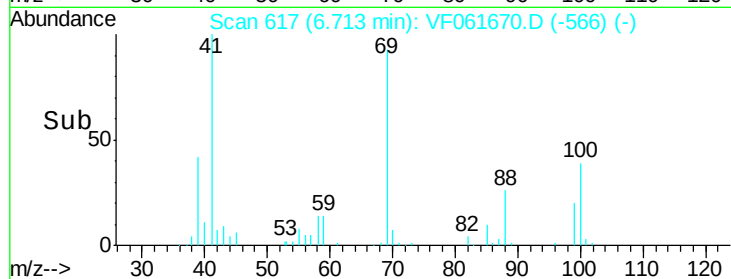
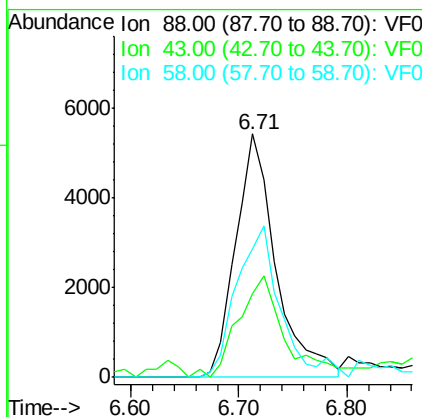
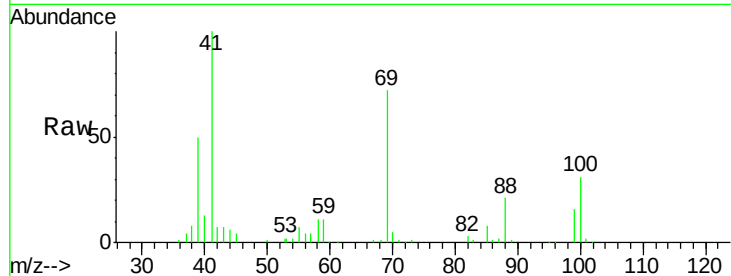
#49
1,4-Dioxane
Concen: 943.950 ug/l
RT: 6.71 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	34.2	32.3	48.5	
58	52.9	59.4	89.2	

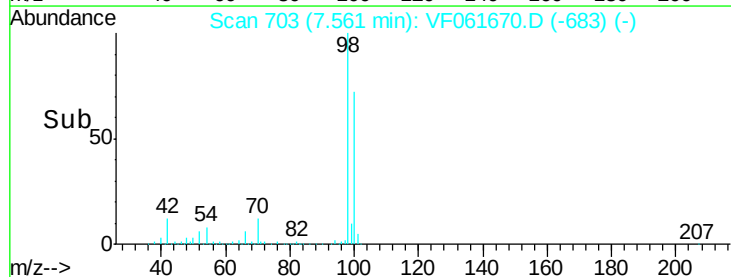
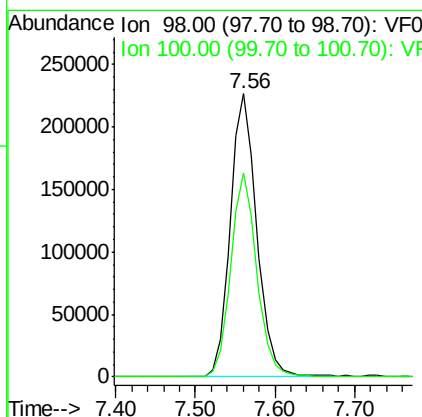
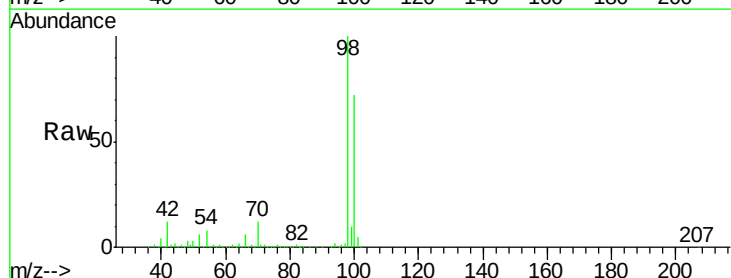
Manual Integrations
APPROVED

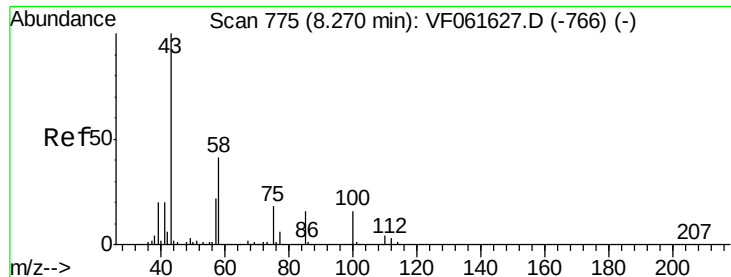
MMDadoda
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#50
Toluene-d8
Concen: 51.044 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	71.9	55.4	83.2	





#51

4-Methyl-2-Pentanone

Concen: 229.740 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 434213

Ion Ratio Lower Upper

43 100

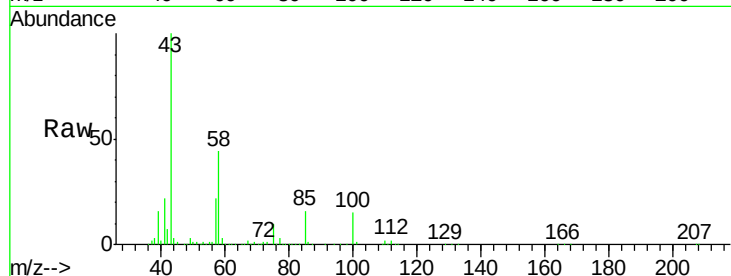
58 44.4 33.1 49.7

Manual Integrations

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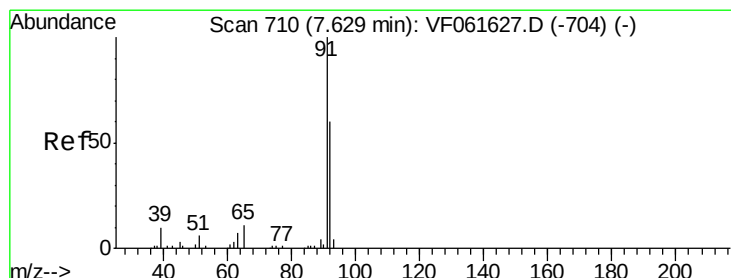
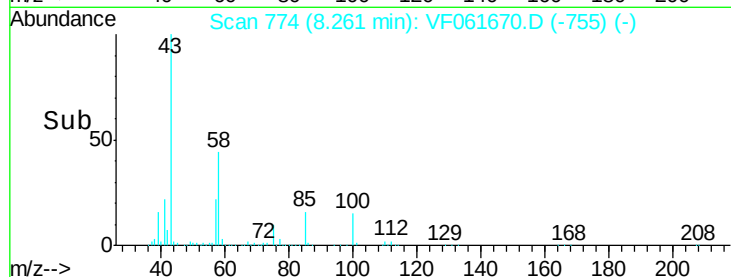
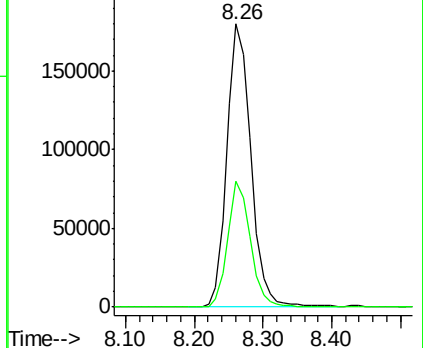
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 48.666 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061670.D

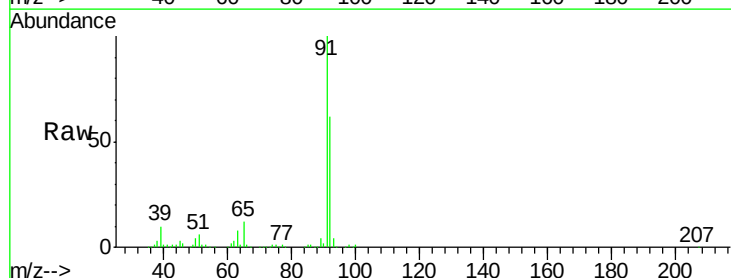
Acq: 18 Feb 2019 10:54

Tgt Ion: 92 Resp: 371423

Ion Ratio Lower Upper

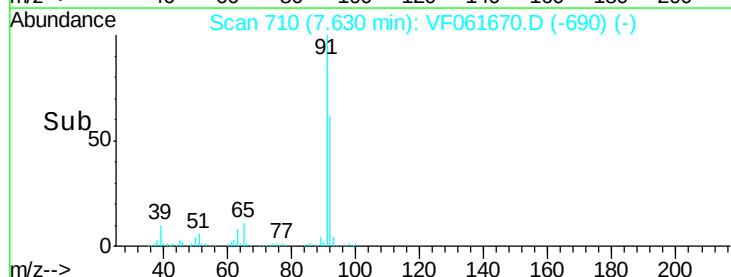
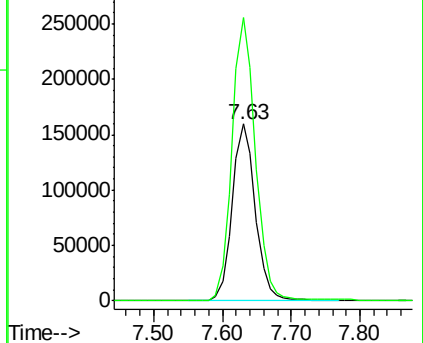
92 100

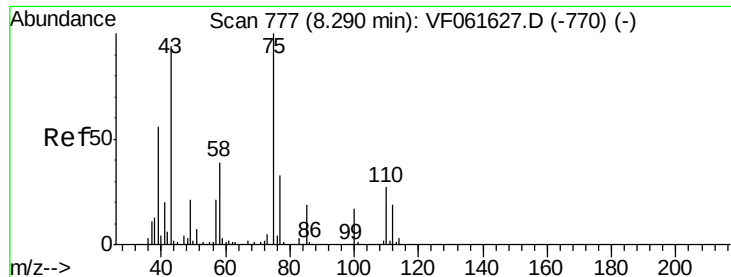
91 160.2 133.9 200.9



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: 49.017 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF061670.D

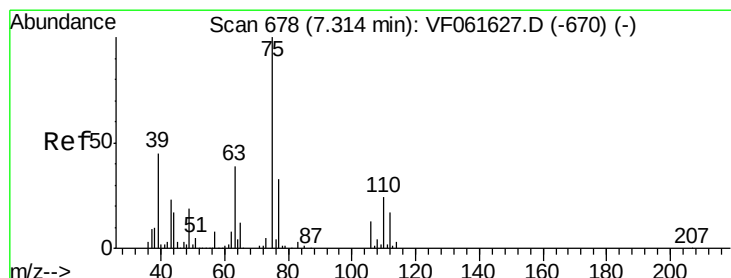
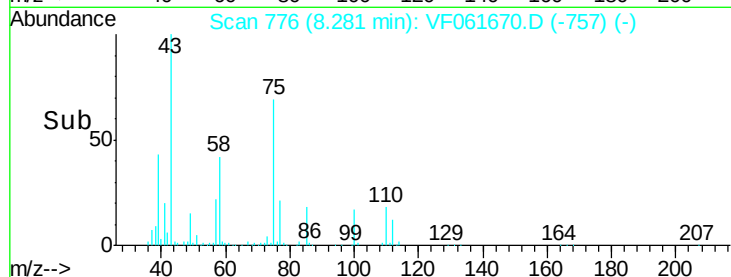
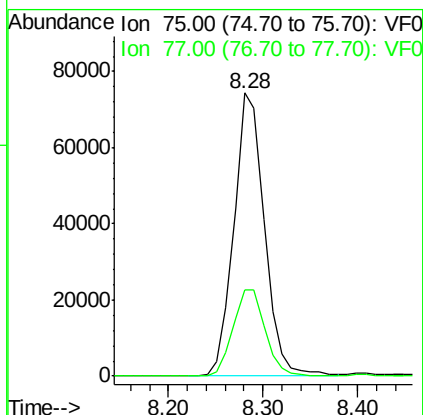
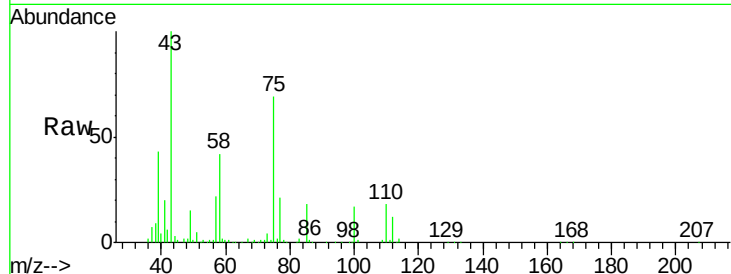
Acq: 18 Feb 2019 10:54

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.4	26.2	39.2

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 53.553 ug/l

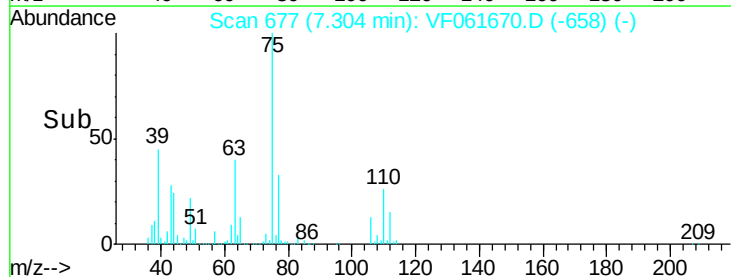
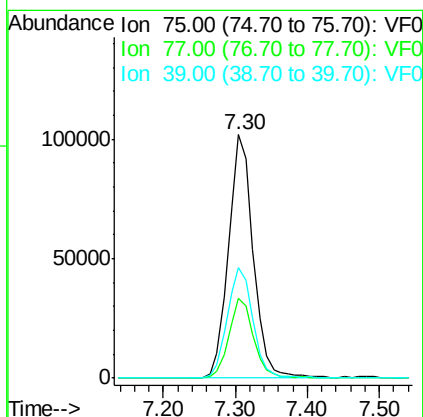
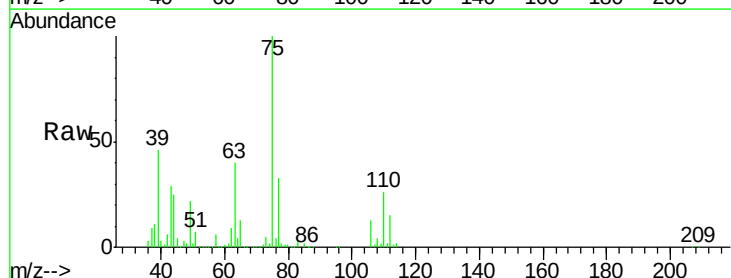
RT: 7.30 min Scan# 677

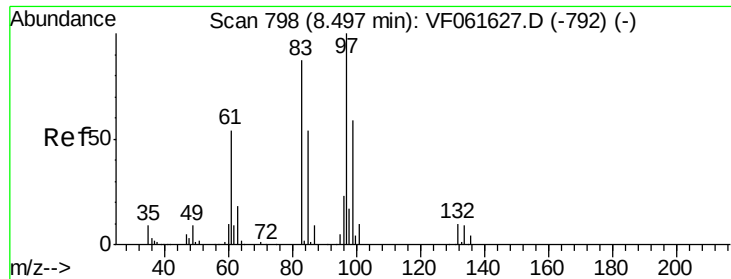
Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6
39	45.5	36.0	54.0





#55

1,1,2-Trichloroethane

Concen: 49.316 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

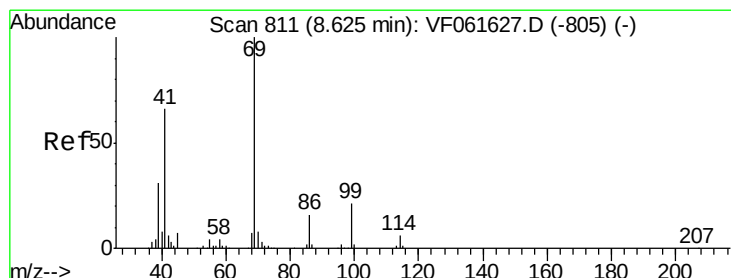
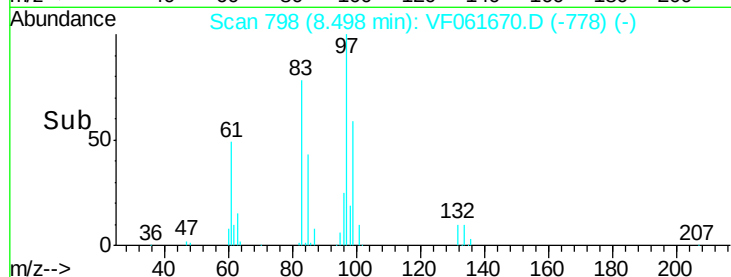
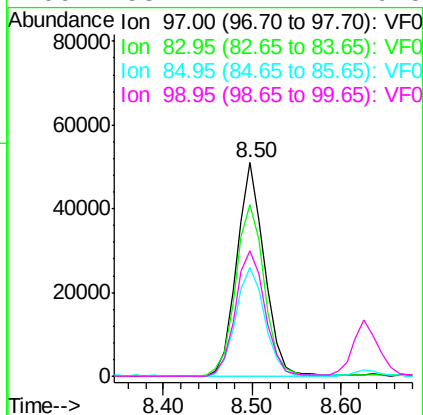
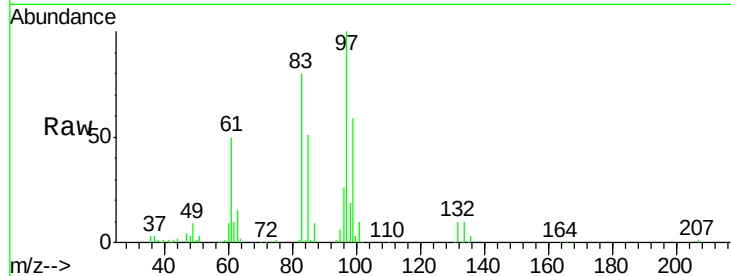
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	110585
Ion	Ratio	Lower	Upper
97	100		
83	80.2	69.2	103.8
85	50.9	43.0	64.4
99	58.7	47.2	70.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 49.093 ug/l

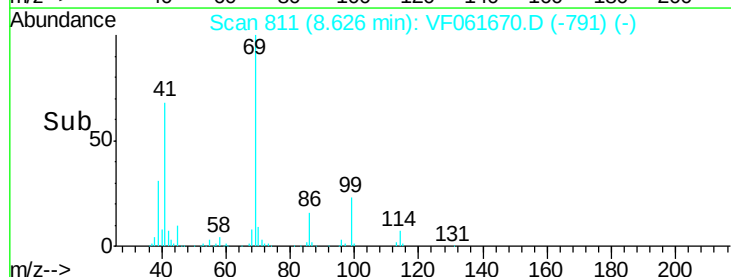
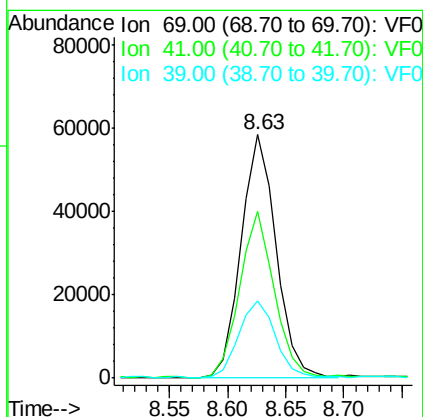
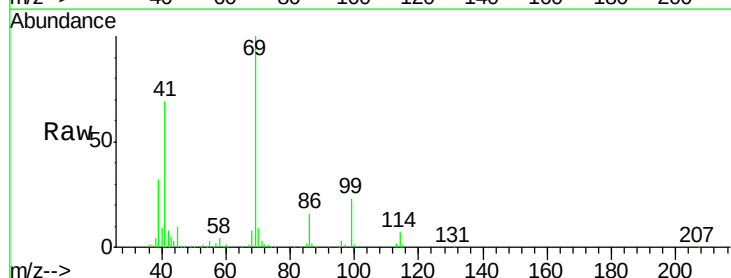
RT: 8.63 min Scan# 811

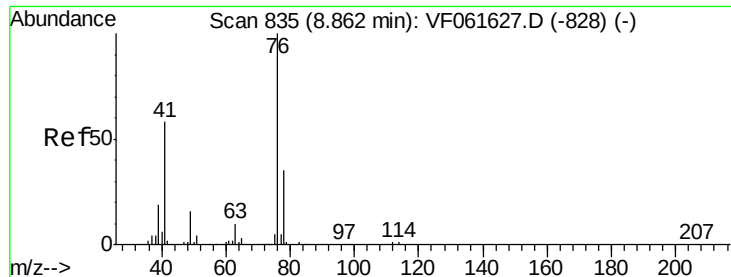
Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	69	Resp:	122565
Ion	Ratio	Lower	Upper
69	100		
41	68.5	52.9	79.3
39	31.5	24.5	36.7





#57

1,3-Dichloropropane

Concen: 48.105 ug/l

RT: 8.86 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 180051

Ion Ratio Lower Upper

76 100

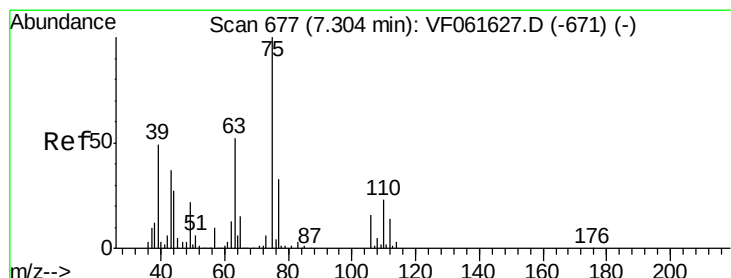
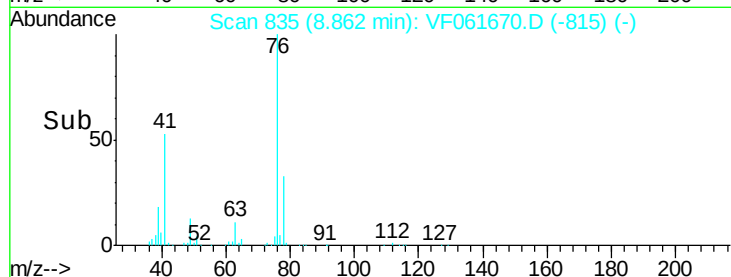
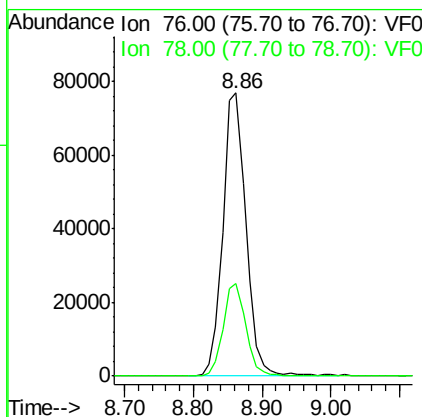
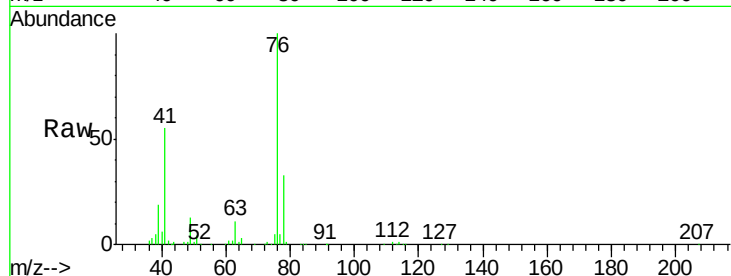
78 32.7 27.8 41.6

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 216.262 ug/l

RT: 7.30 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF061670.D

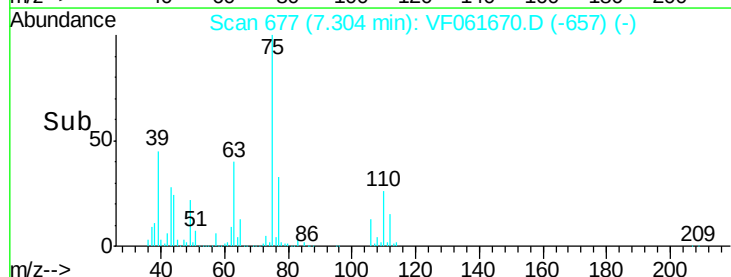
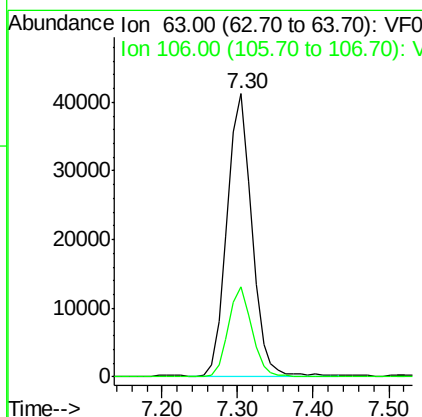
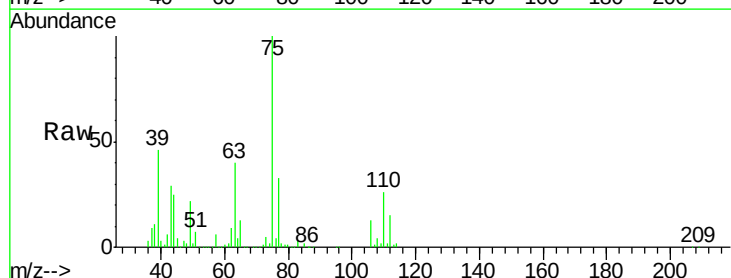
Acq: 18 Feb 2019 10:54

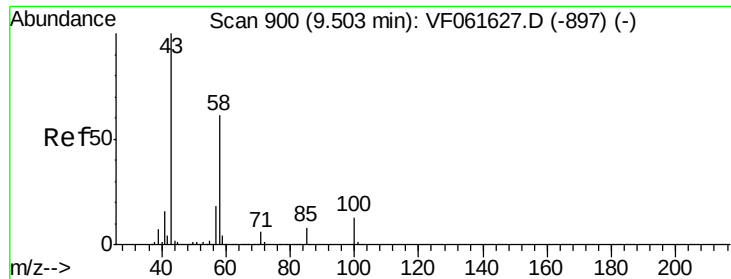
Tgt Ion: 63 Resp: 93155

Ion Ratio Lower Upper

63 100

106 31.9 24.6 36.8





#59

2-Hexanone

Concen: 256.127 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 339330

Ion Ratio Lower Upper

43 100

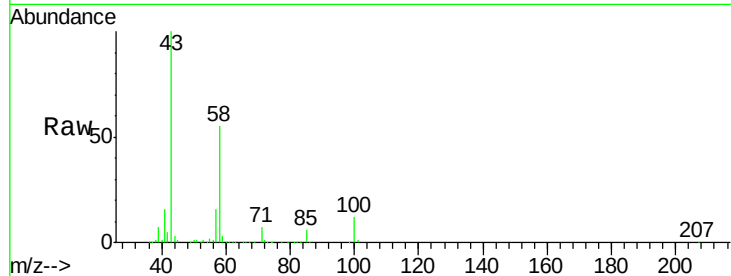
58 54.9 28.5 85.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

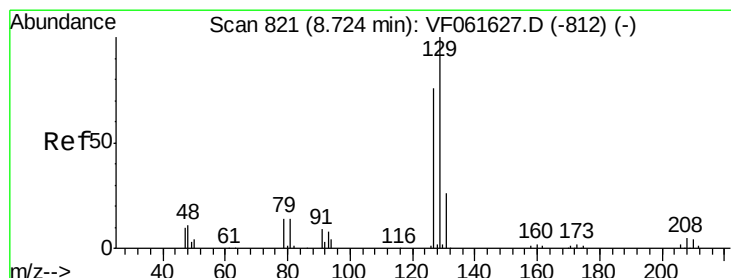
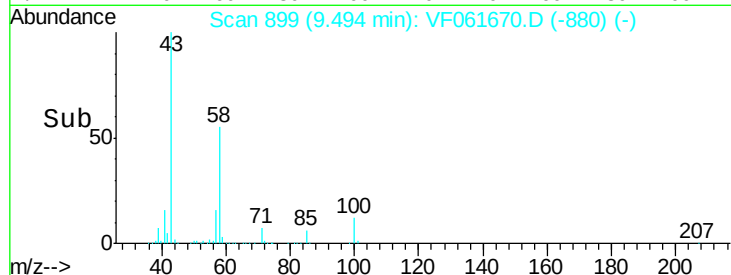
9.49

100000

50000

0

Time-->



#60

Dibromochloromethane

Concen: 50.009 ug/l

RT: 8.72 min Scan# 821

Delta R.T. 0.00 min

Lab File: VF061670.D

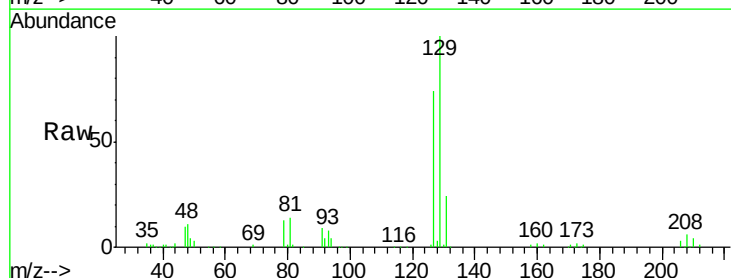
Acq: 18 Feb 2019 10:54

Tgt Ion: 129 Resp: 156085

Ion Ratio Lower Upper

129 100

127 74.4 37.8 113.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

80000

8.72

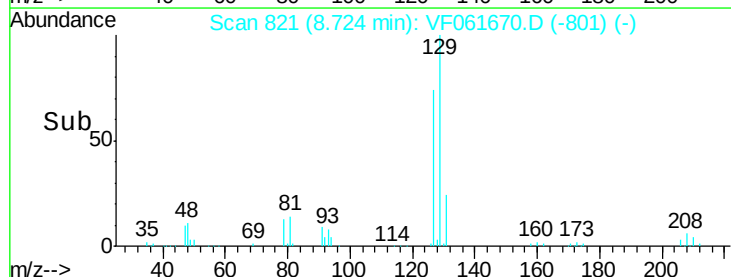
60000

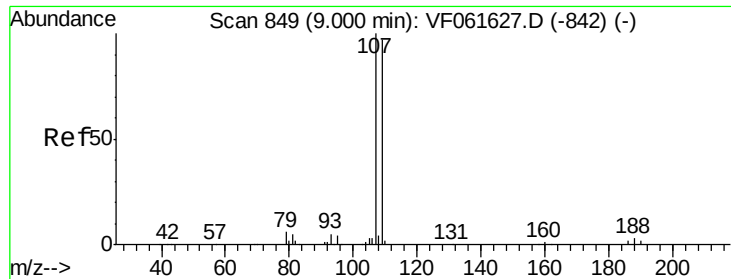
40000

20000

0

Time-->





#61

1,2-Dibromoethane

Concen: 50.945 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 123907

Ion Ratio Lower Upper

107 100

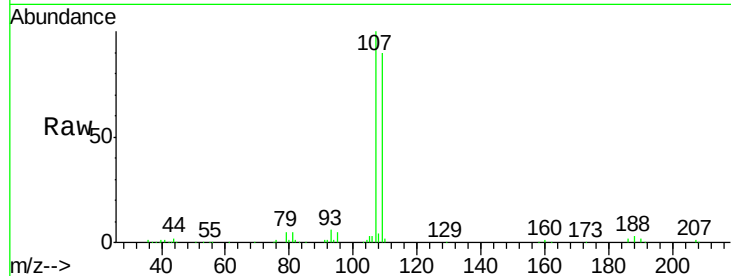
109 90.4 77.4 116.0

Manual Integrations

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

60000

50000

40000

30000

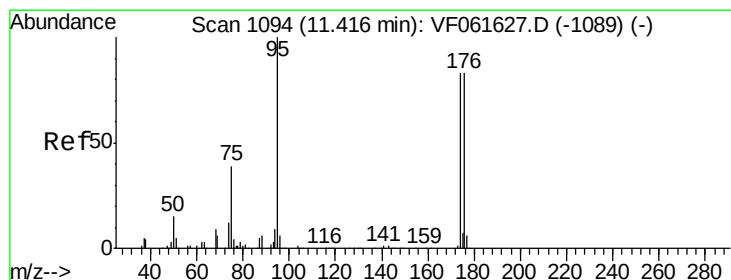
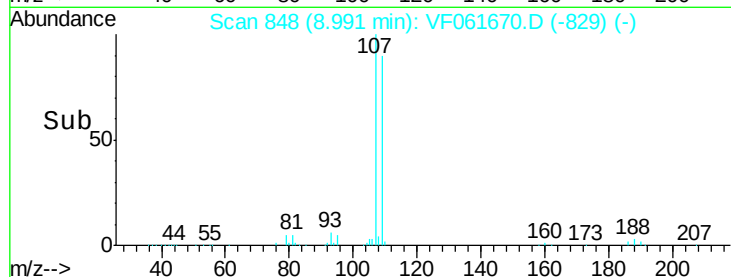
20000

10000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 50.774 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

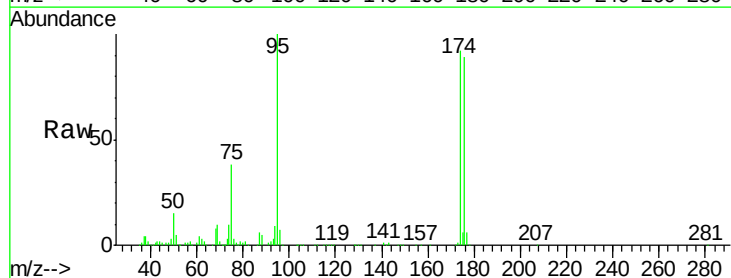
Tgt Ion: 95 Resp: 212998

Ion Ratio Lower Upper

95 100

174 91.9 0.0 165.8

176 89.0 0.0 167.0



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

150000

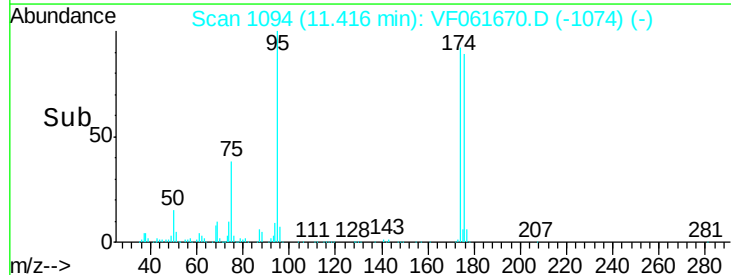
100000

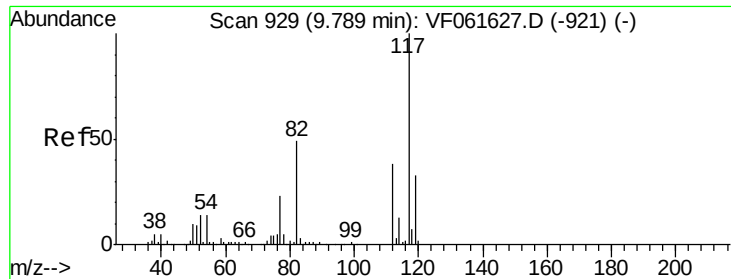
50000

0

11.30 11.40 11.50 11.60

Time-->





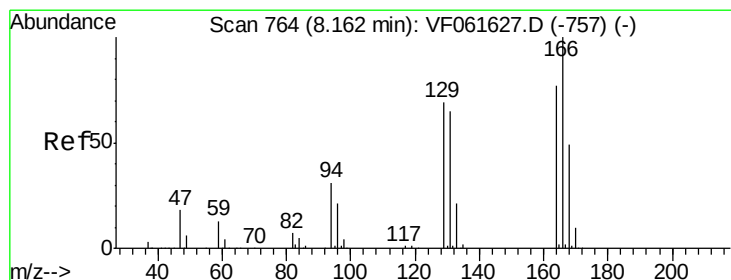
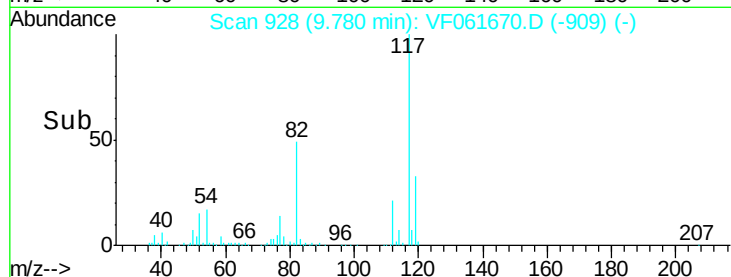
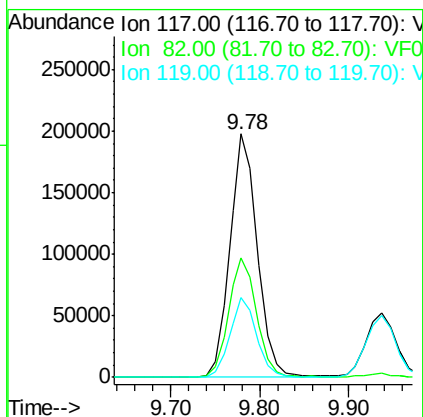
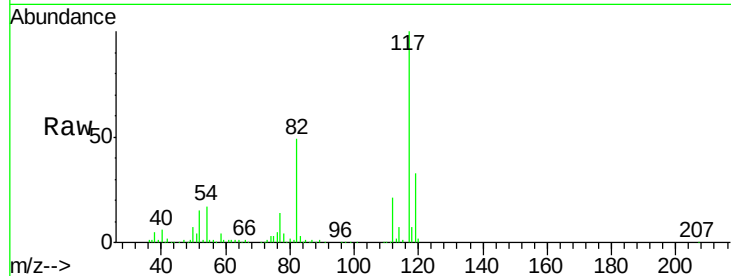
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	429307		
82	49.1		39.3	58.9
119	32.6		26.6	40.0

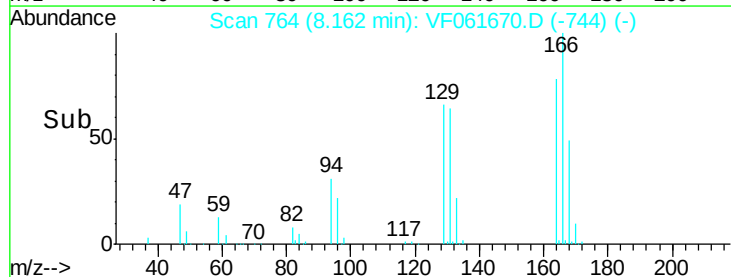
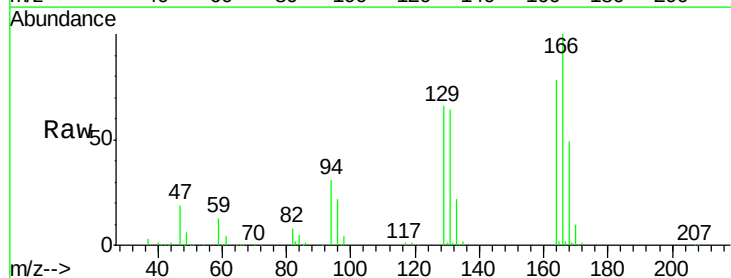
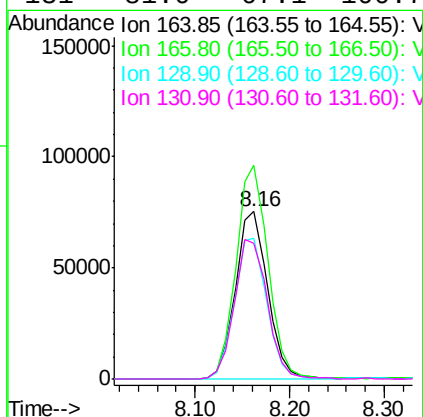
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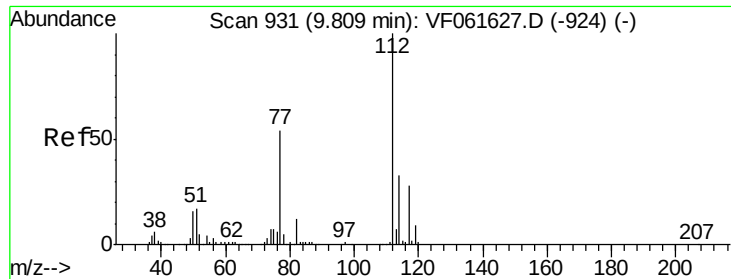
MMDadoda
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#64
Tetrachloroethene
Concen: 50.825 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	178351		
166	127.5		103.9	155.9
129	84.4		71.3	106.9
131	81.0		67.1	100.7





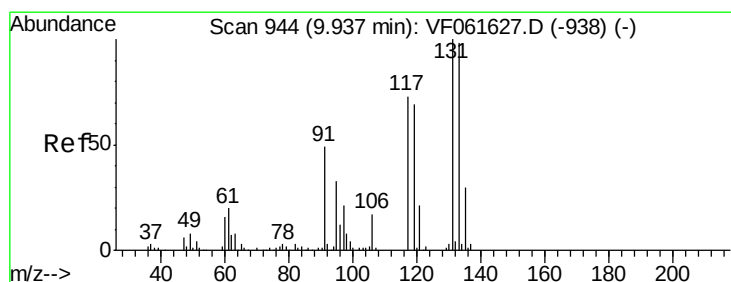
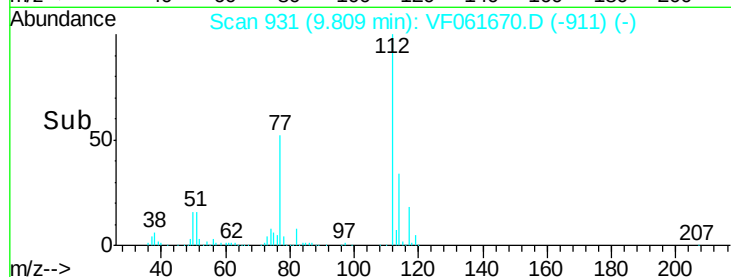
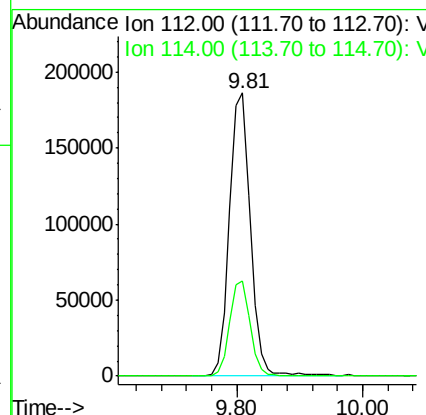
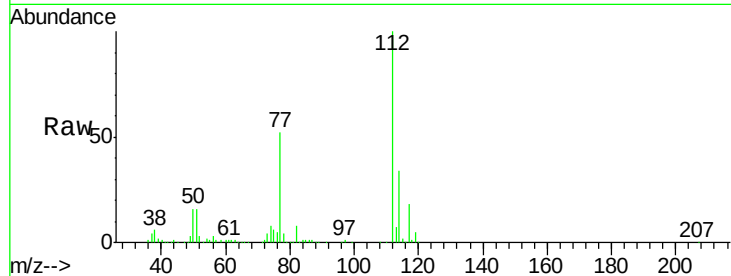
#65
Chlorobenzene
Concen: 49.441 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 430709
Ion Ratio Lower Upper
112 100
114 33.5 26.2 39.2

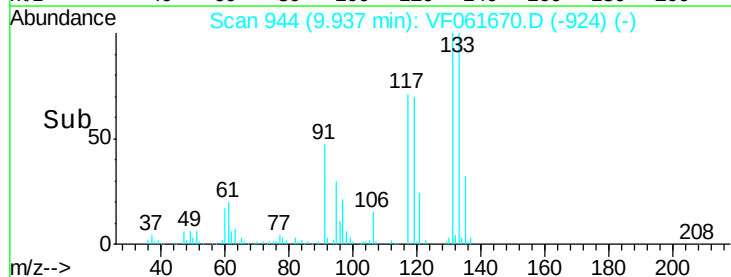
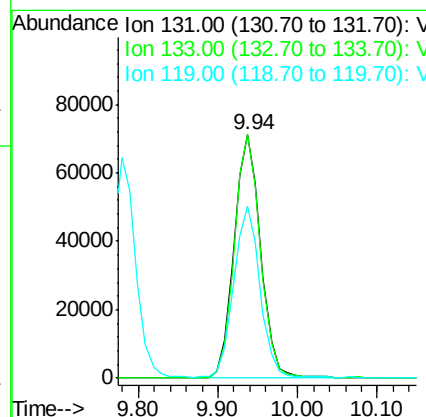
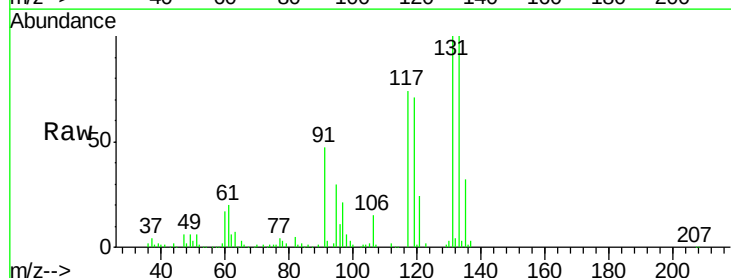
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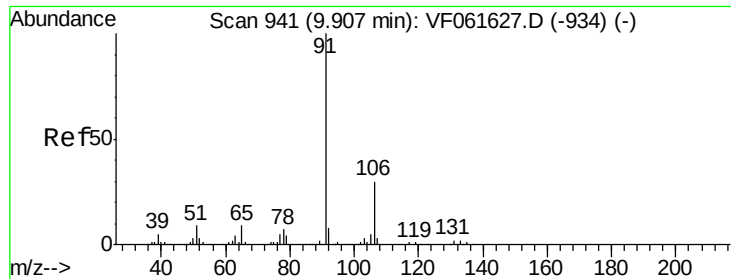
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 48.552 ug/l
RT: 9.94 min Scan# 944
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion:131 Resp: 165738
Ion Ratio Lower Upper
131 100
133 100.0 48.9 146.6
119 70.8 34.8 104.3





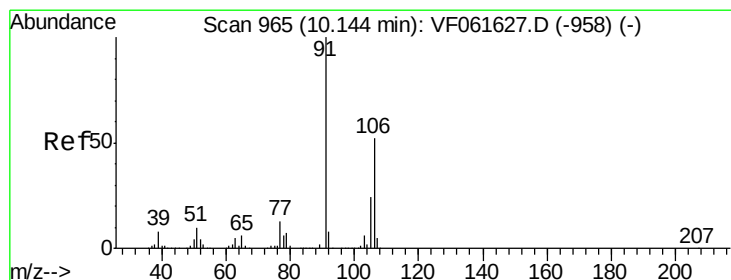
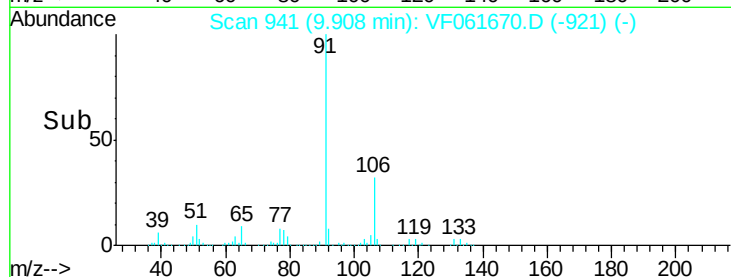
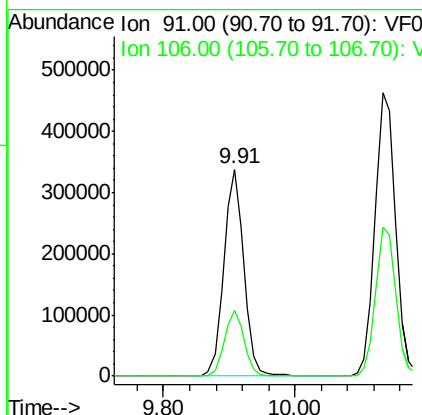
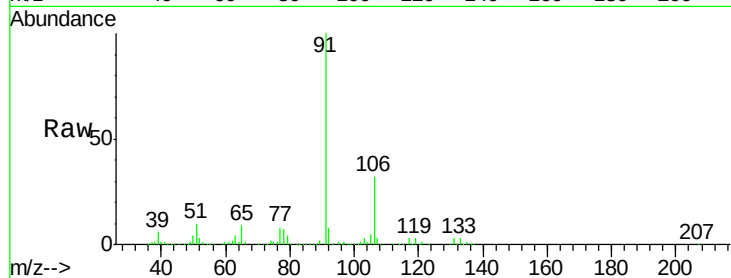
#67
Ethyl Benzene
Concen: 49.634 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 719070
Ion Ratio Lower Upper
91 100
106 32.0 24.1 36.1

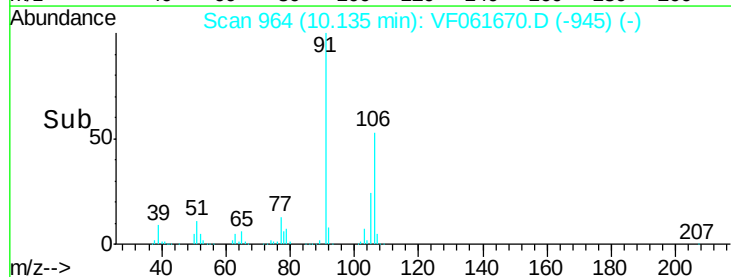
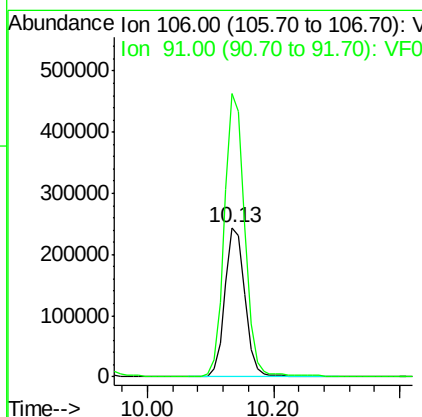
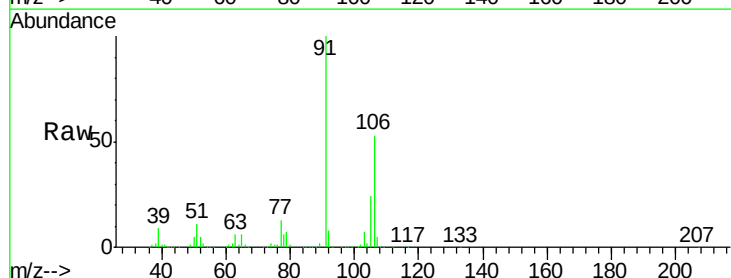
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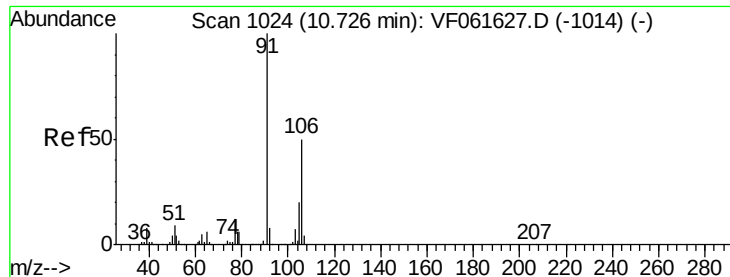
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#68
m/p-Xylenes
Concen: 96.567 ug/l
RT: 10.13 min Scan# 964
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion: 106 Resp: 535415
Ion Ratio Lower Upper
106 100
91 189.9 153.0 229.6





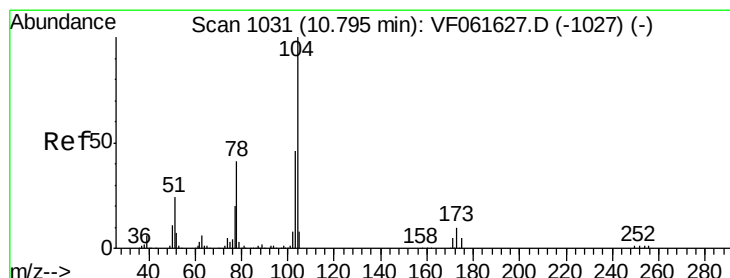
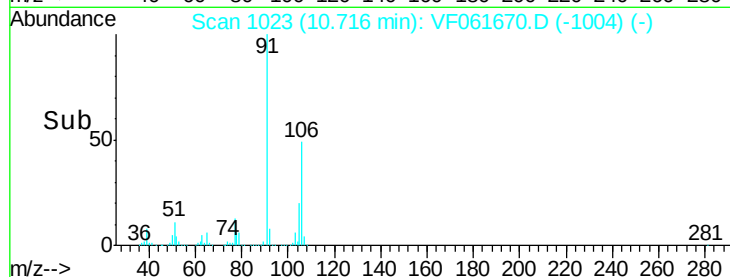
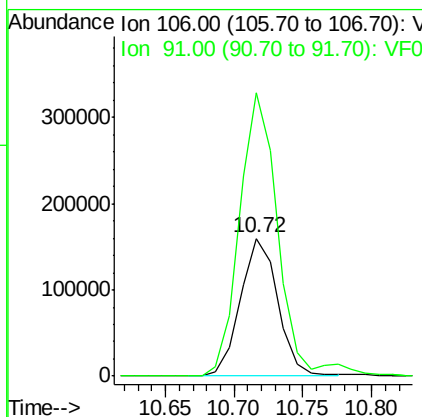
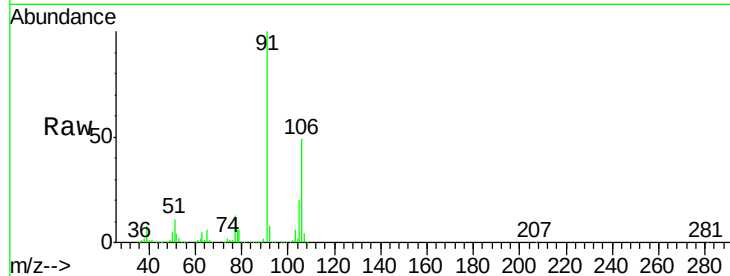
#69
o-Xylene
Concen: 51.385 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	205.2	100.1	300.1	

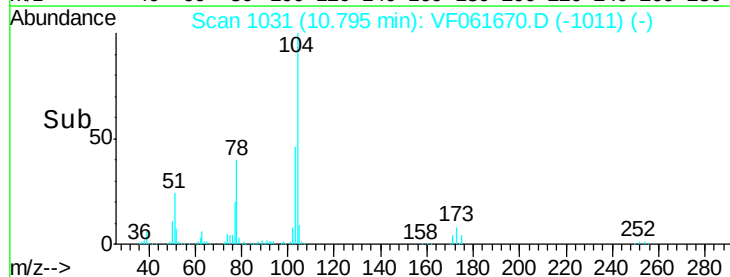
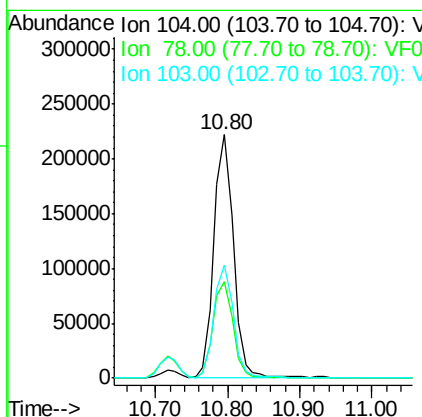
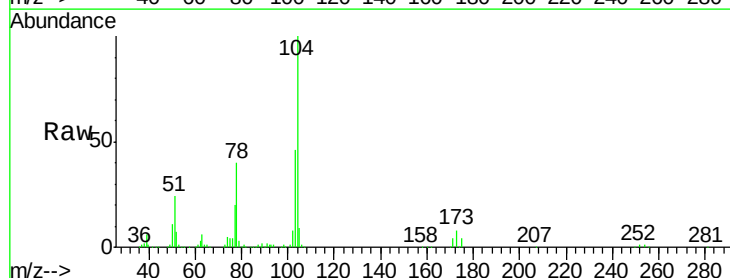
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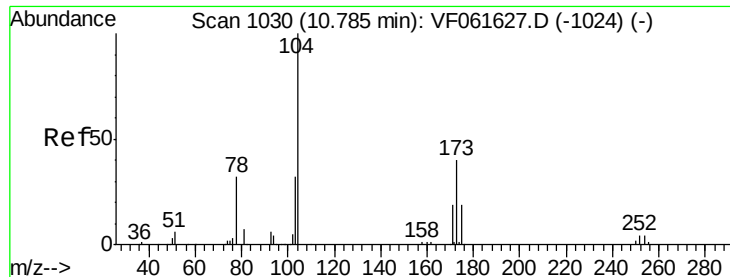
MMDadoda
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#70
Styrene
Concen: 49.435 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	39.8	33.2	49.8	
103	46.2	37.2	55.8	





#71

Bromoform

Concen: 50.833 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 94228

Ion Ratio Lower Upper

173 100

175 51.9 24.0 72.0

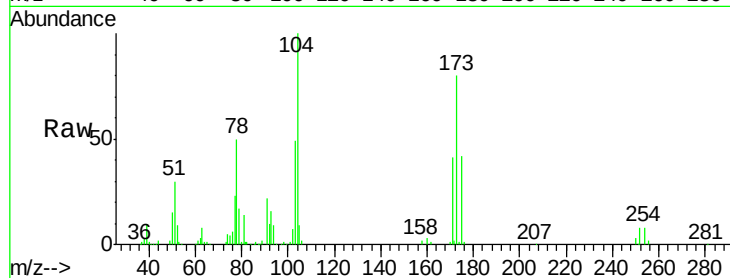
254 9.4 8.2 12.2

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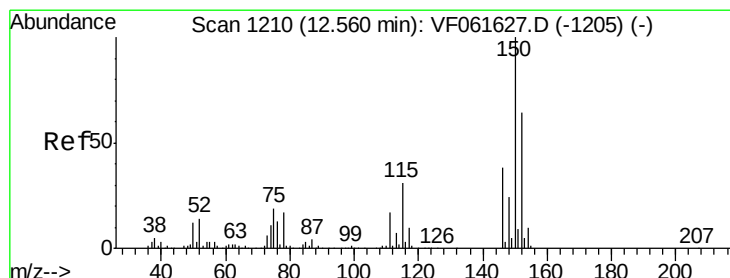
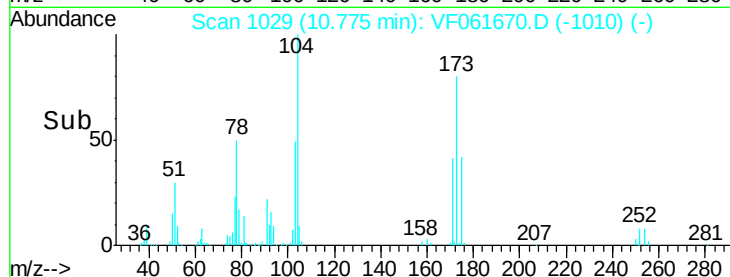
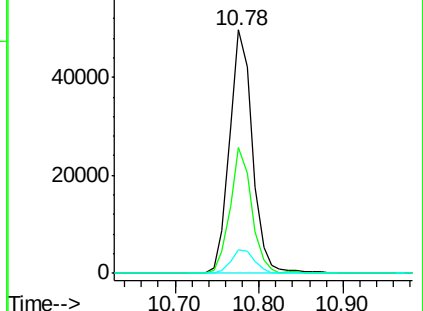
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Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

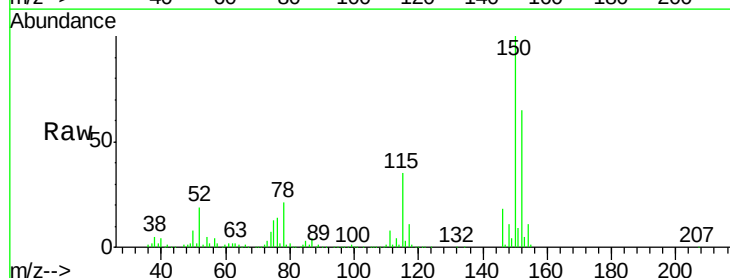
Tgt Ion:152 Resp: 240847

Ion Ratio Lower Upper

152 100

115 53.8 24.3 72.8

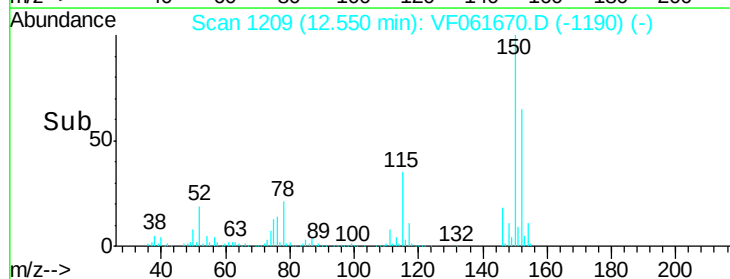
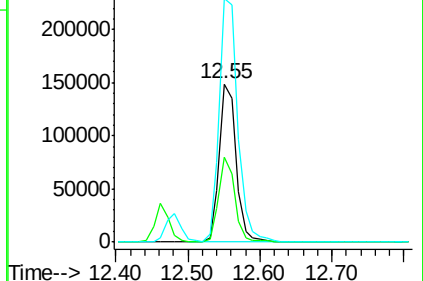
150 154.1 0.0 312.0

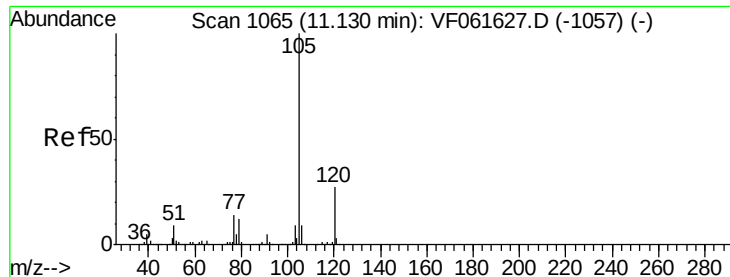


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 50.289 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 862354

Ion Ratio Lower Upper

105 100

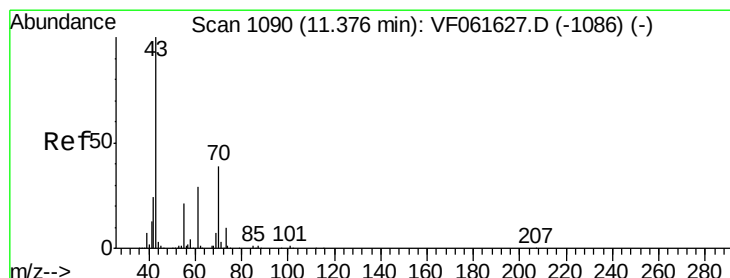
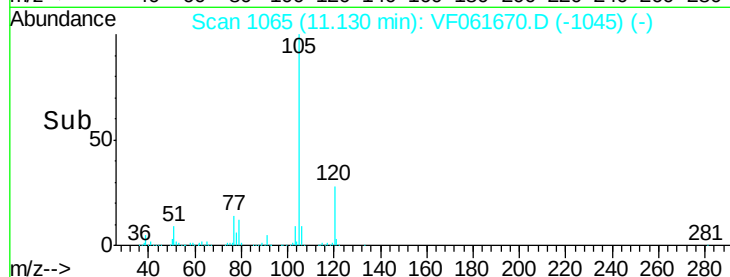
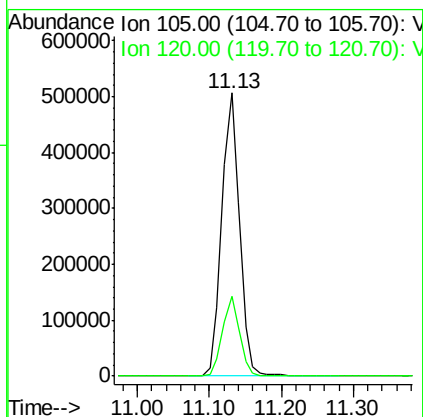
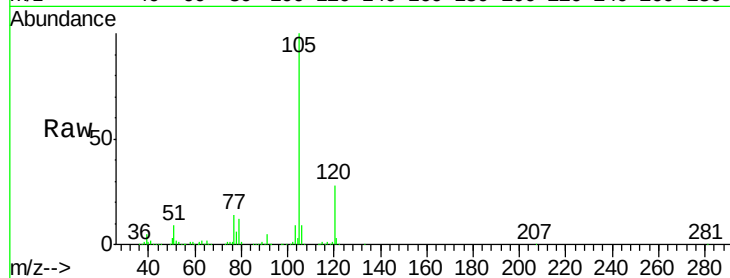
120 28.3 13.4 40.1

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#74

N-ethyl acetate

Concen: 47.232 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion: 43 Resp: 194401

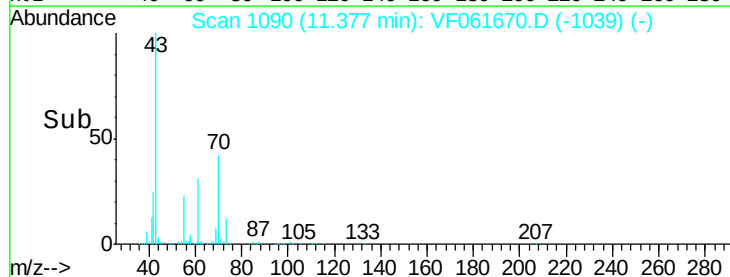
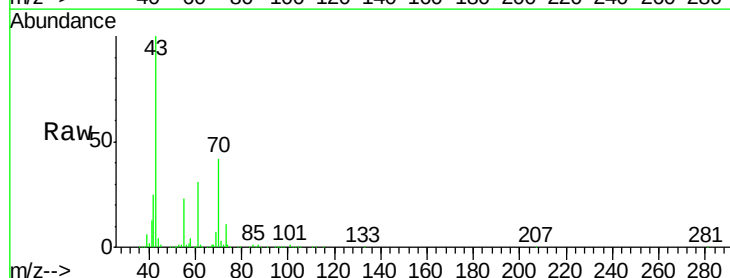
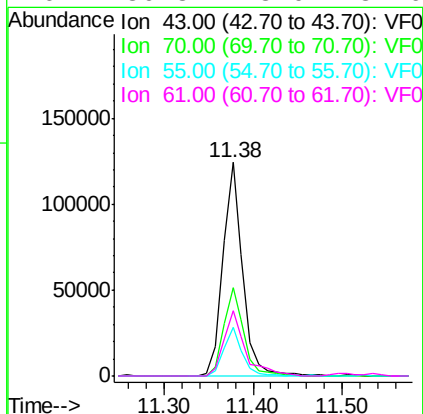
Ion Ratio Lower Upper

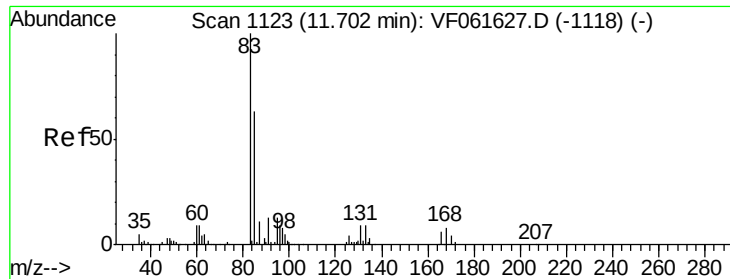
43 100

70 41.5 31.5 47.3

55 23.0 16.7 25.1

61 30.8 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 45.997 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

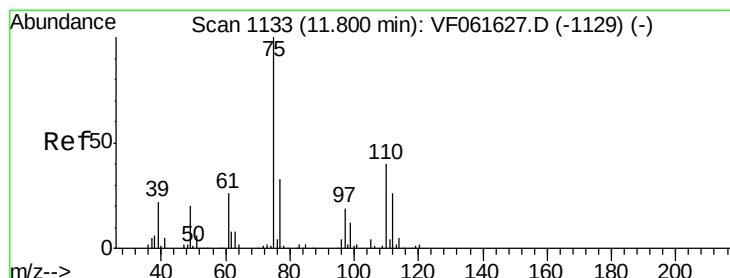
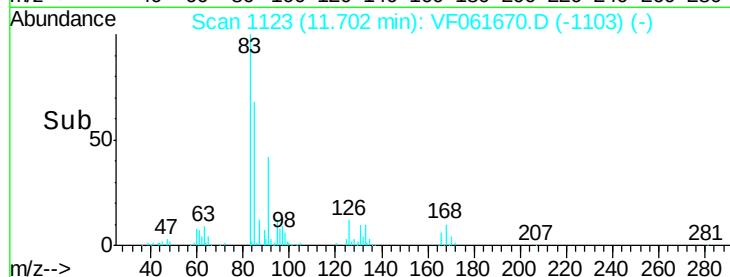
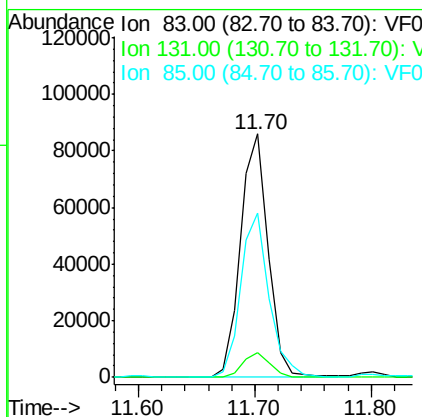
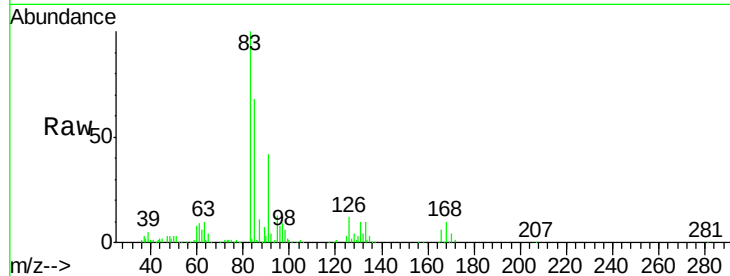
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	141306
Ion Ratio	Lower	Upper	
83	100		
131	10.2	4.4	13.2
85	67.6	31.5	94.5

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#76

1,2,3-Trichloropropane

Concen: 47.783 ug/l

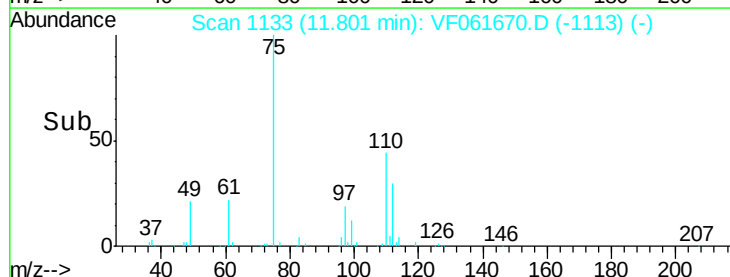
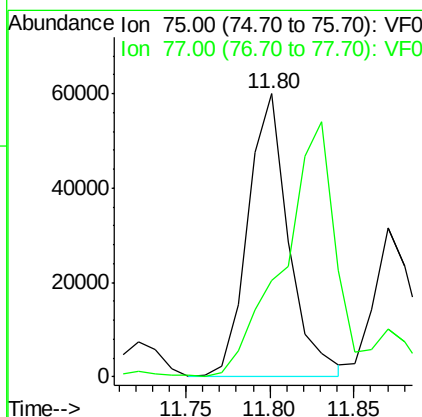
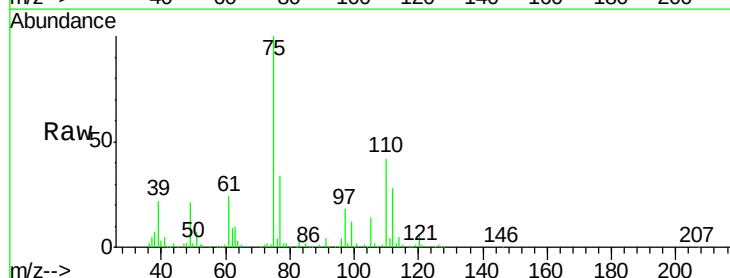
RT: 11.80 min Scan# 1133

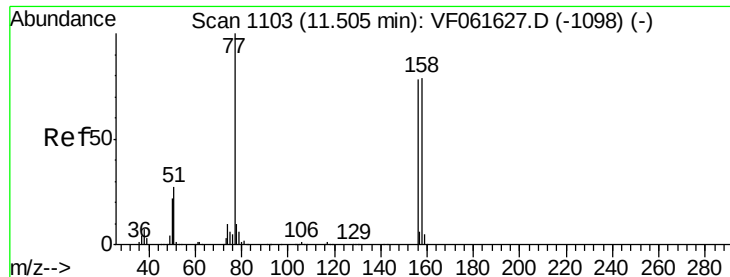
Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	75	Resp:	99804
Ion Ratio	Lower	Upper	
75	100		
77	34.0	16.6	49.7





#77

Bromobenzene

Concen: 49.315 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

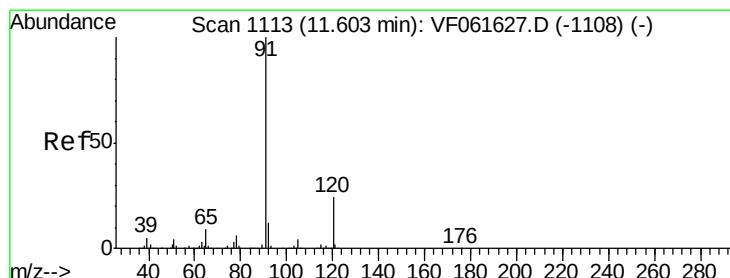
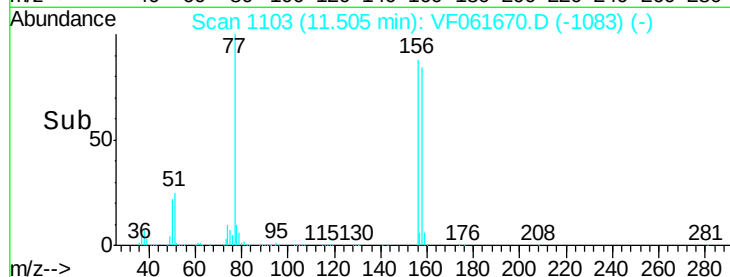
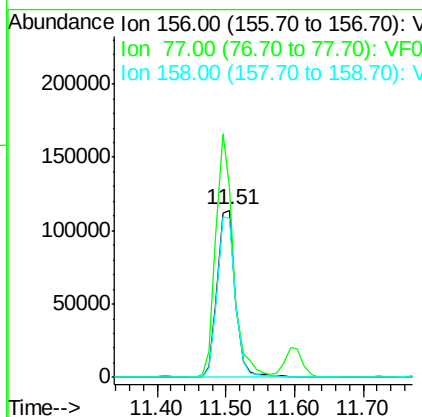
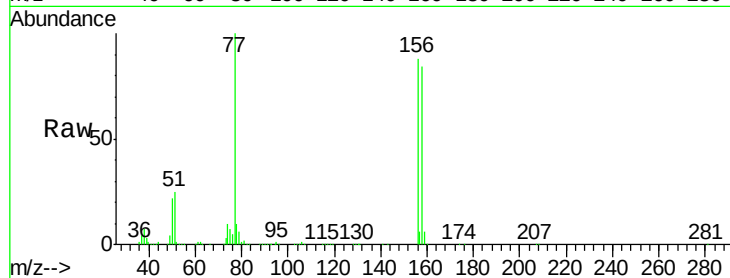
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	208912
Ion Ratio	Lower	Upper	
156	100		
77	114.0	64.3	192.7
158	95.6	50.9	152.7

Manual Integrations
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#78

n-propylbenzene

Concen: 46.278 ug/l

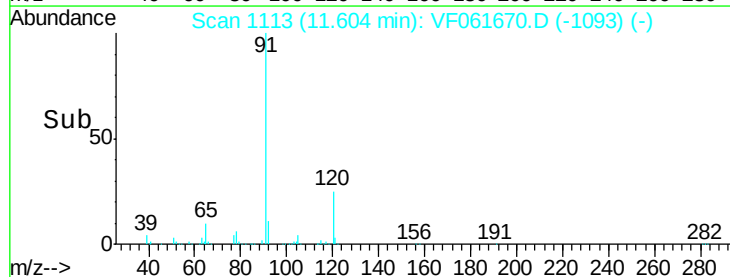
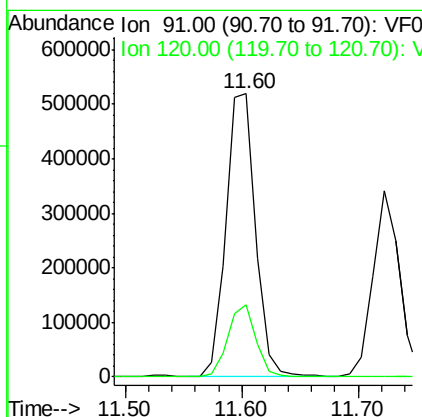
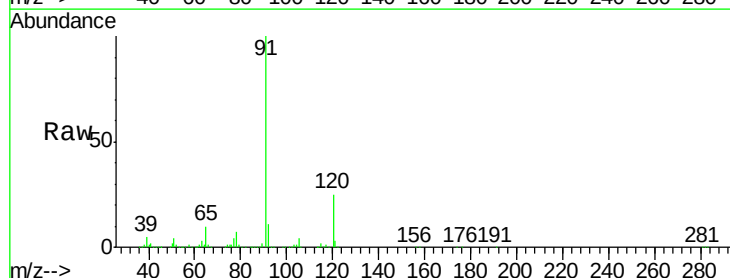
RT: 11.60 min Scan# 1113

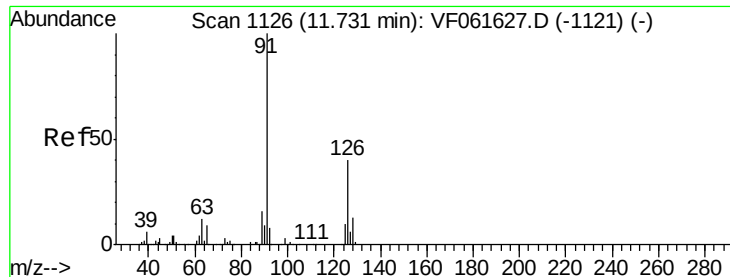
Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	91	Resp:	910650
Ion Ratio	Lower	Upper	
91	100		
120	25.4	12.1	36.3





#79

2-Chlorotoluene

Concen: 48.422 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 533639

Ion Ratio Lower Upper

91 100

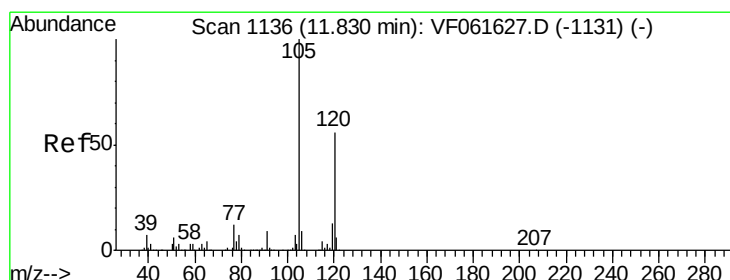
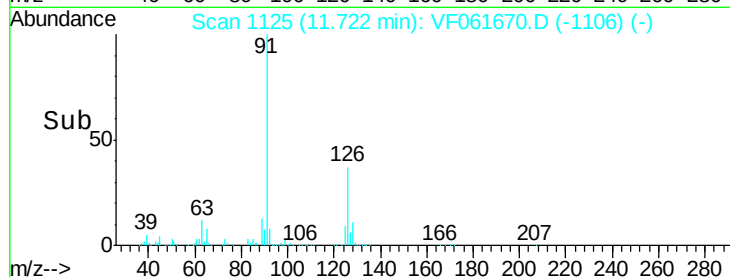
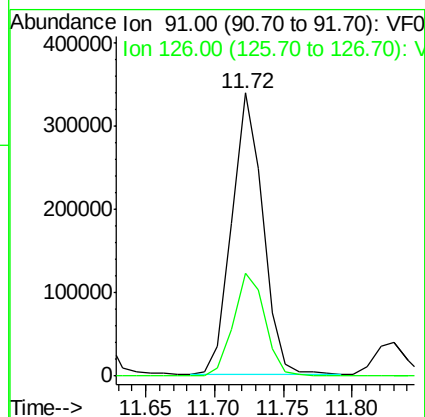
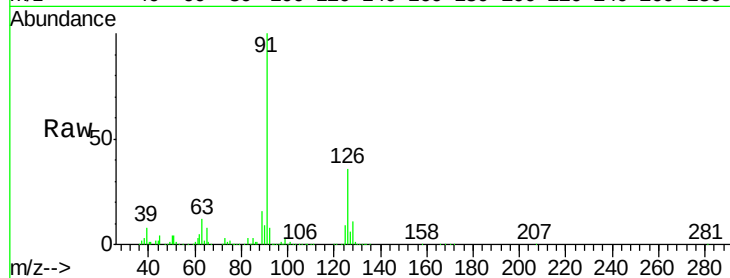
126 36.4 19.8 59.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 49.628 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF061670.D

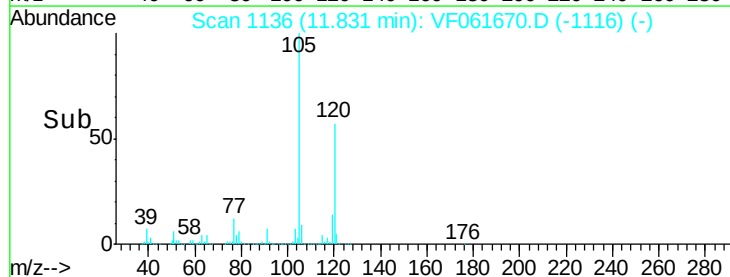
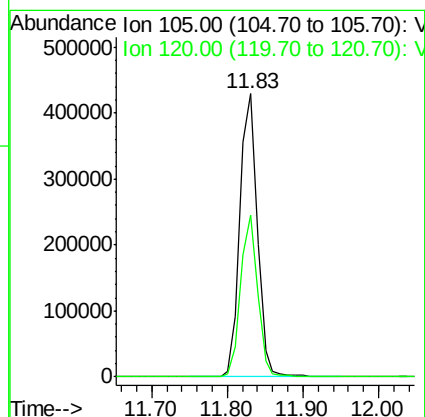
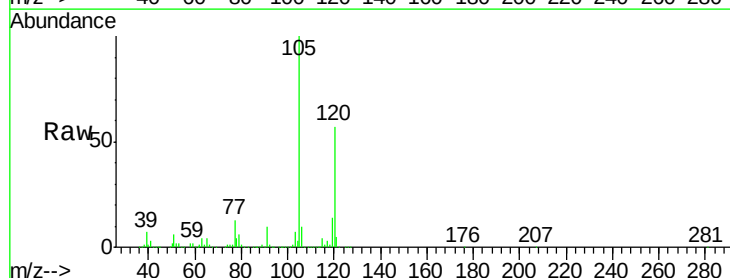
Acq: 18 Feb 2019 10:54

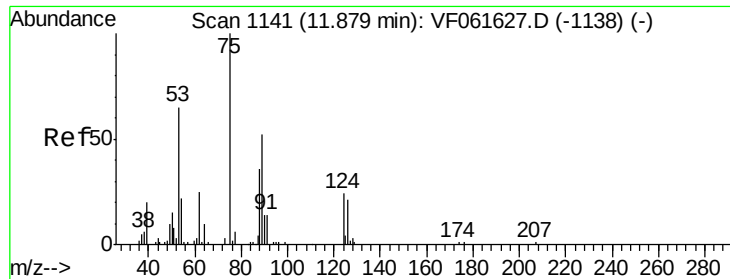
Tgt Ion: 105 Resp: 680169

Ion Ratio Lower Upper

105 100

120 57.4 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 48.576 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

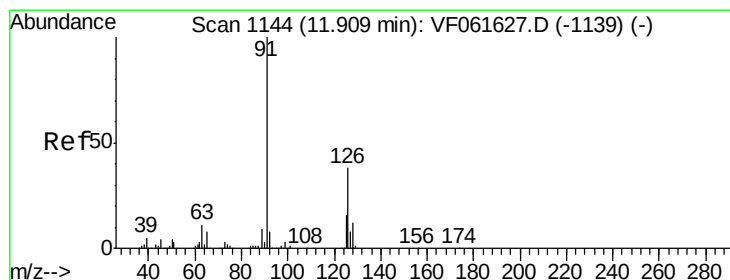
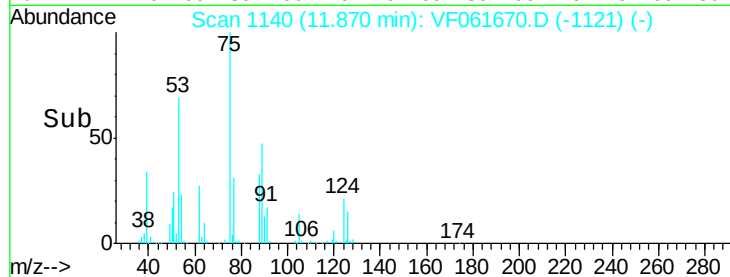
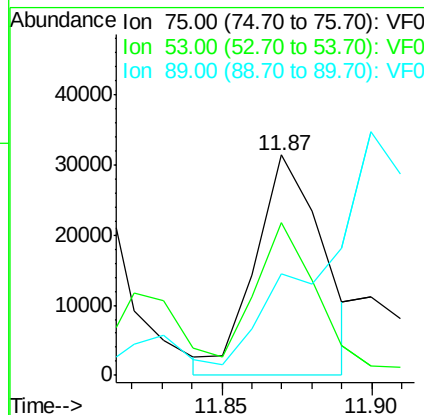
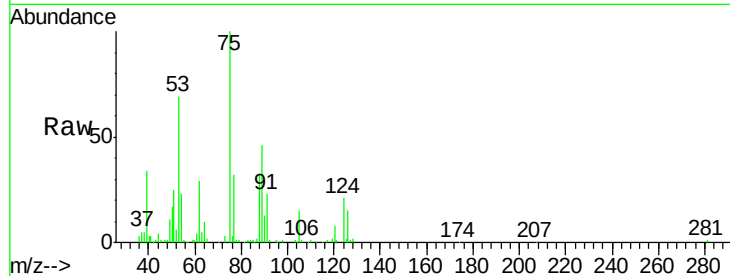
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	48641
Ion Ratio	Lower	Upper	
75	100		
53	69.0	53.7	80.5
89	46.3	41.6	62.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 48.075 ug/l

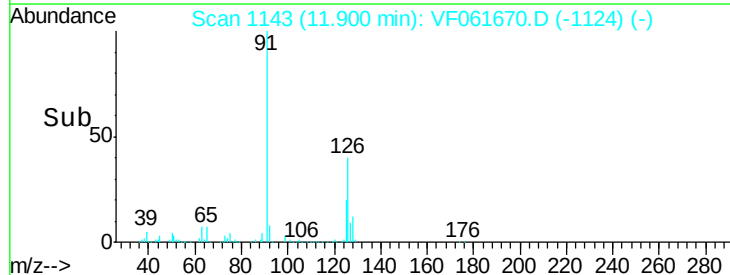
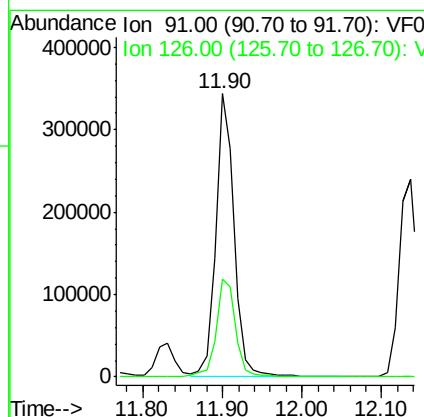
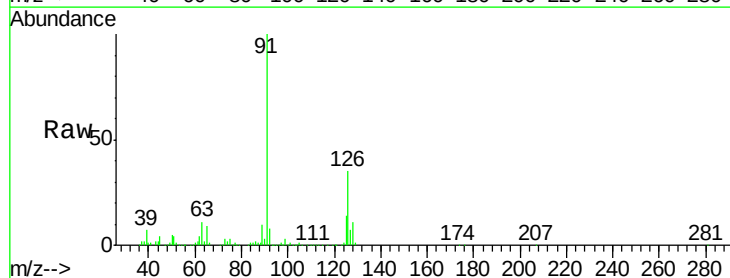
RT: 11.90 min Scan# 1143

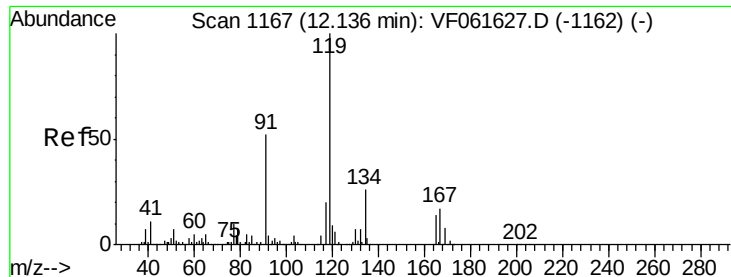
Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	91	Resp:	549915
Ion Ratio	Lower	Upper	
91	100		
126	34.7	19.1	57.1





#83

tert-Butylbenzene

Concen: 48.444 ug/l

RT: 12.14 min Scan# 1167

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

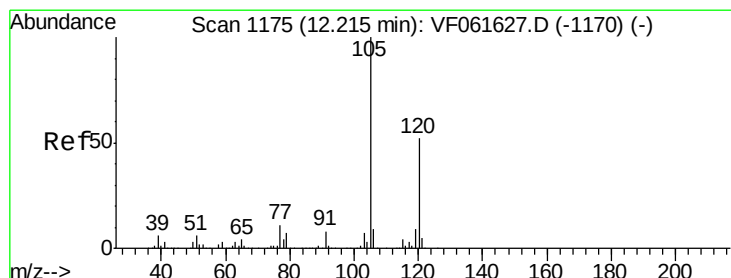
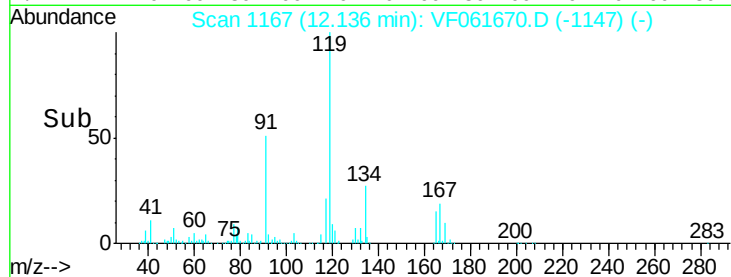
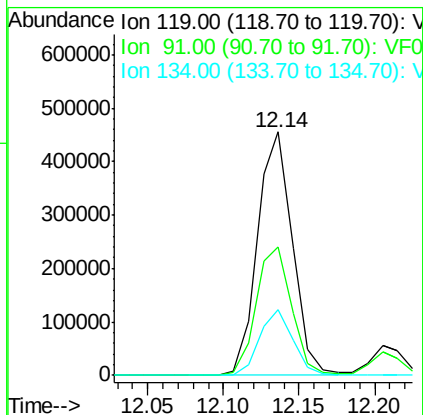
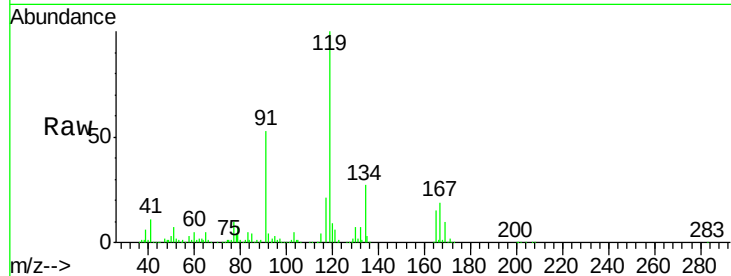
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	735383
Ion Ratio	Lower	Upper	
119	100		
91	52.6	26.3	78.8
134	26.9	12.9	38.7

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 47.216 ug/l

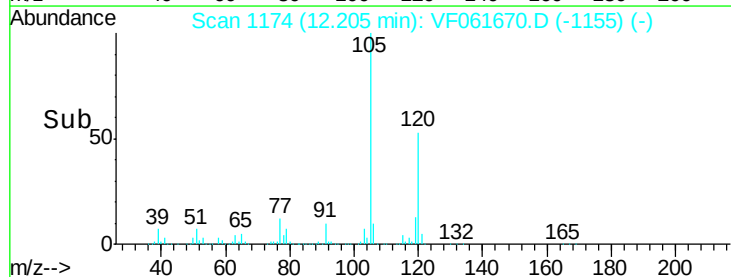
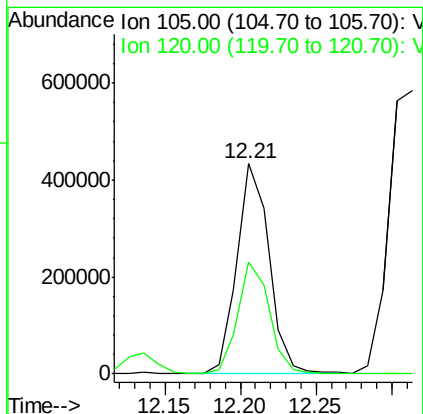
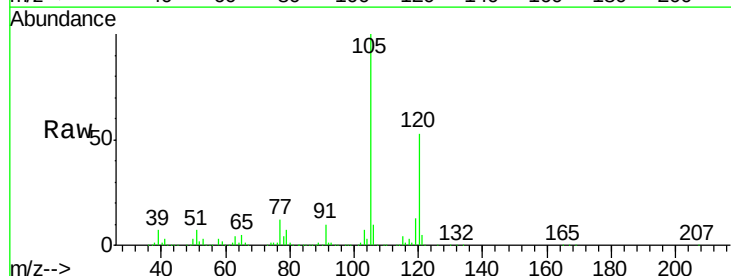
RT: 12.21 min Scan# 1174

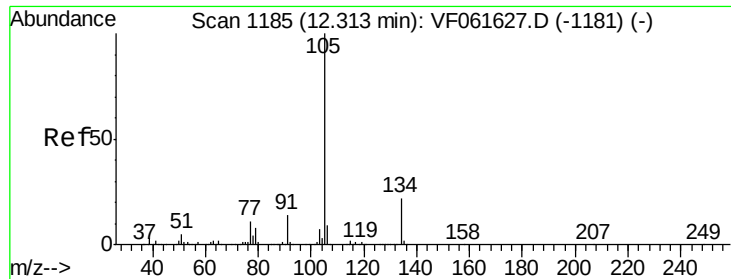
Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	105	Resp:	642887
Ion Ratio	Lower	Upper	
105	100		
120	53.0	26.1	78.3





#85

sec-Butylbenzene

Concen: 49.284 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 967460

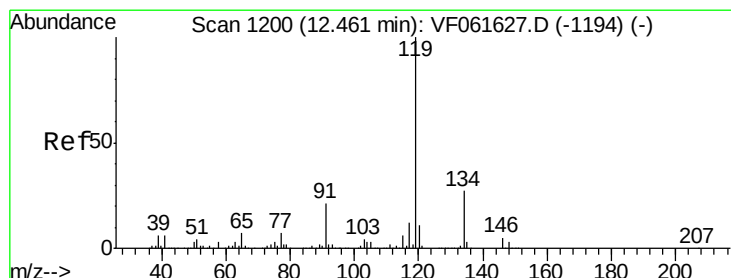
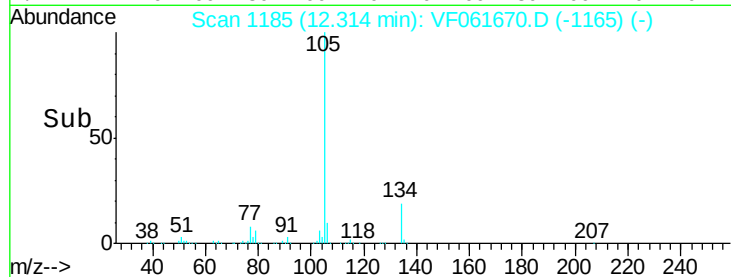
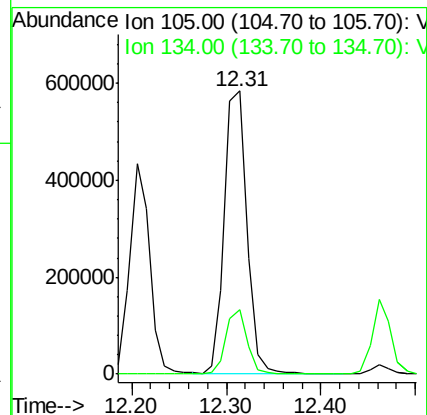
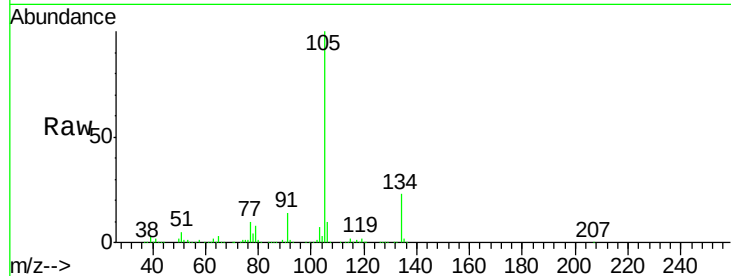
Ion Ratio Lower Upper

105 100

134 22.7 10.8 32.4

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 47.564 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

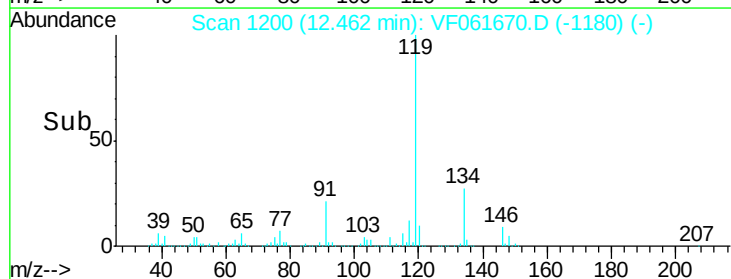
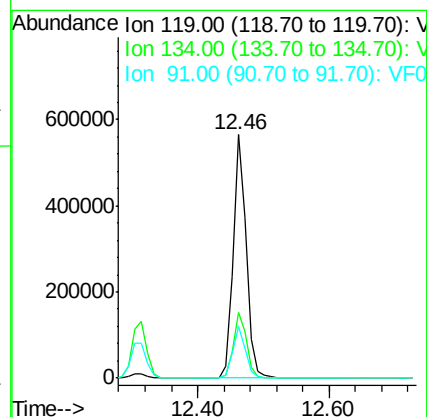
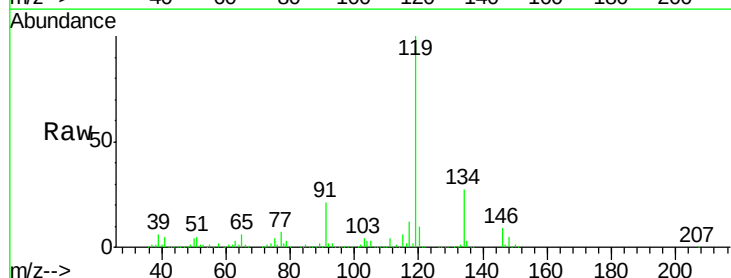
Tgt Ion:119 Resp: 783591

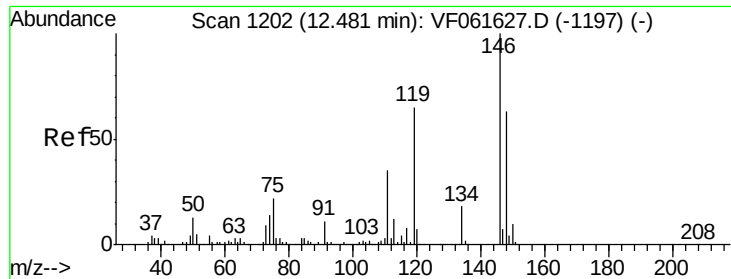
Ion Ratio Lower Upper

119 100

134 27.1 13.7 41.1

91 21.0 10.8 32.4





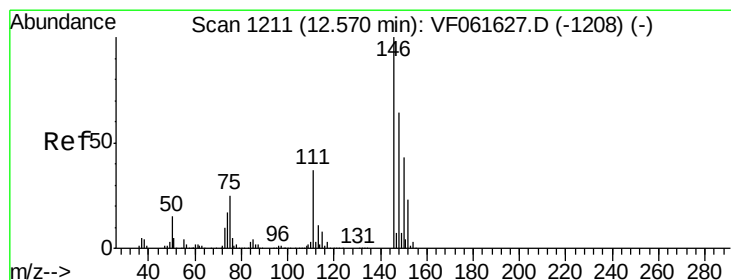
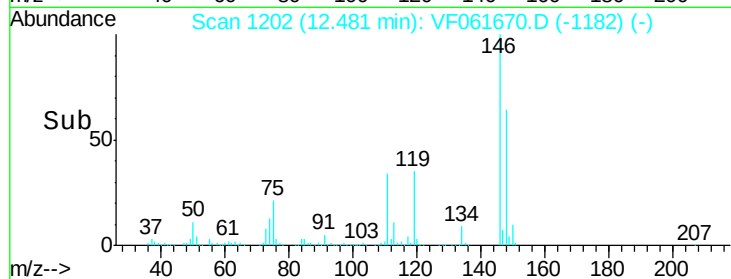
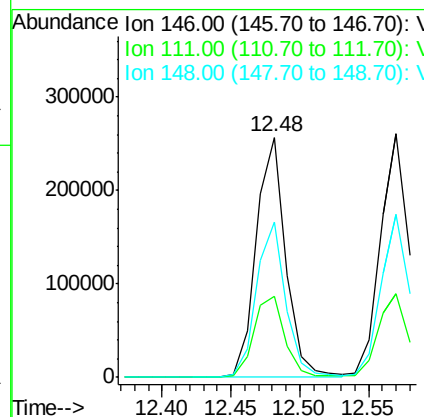
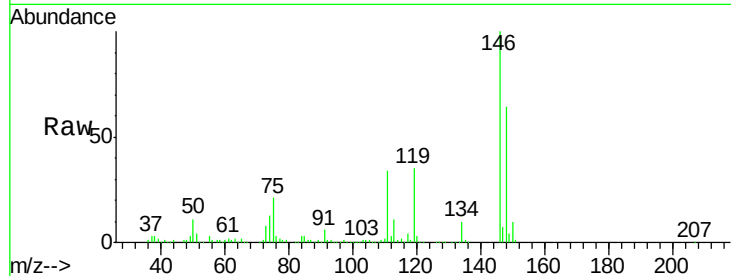
#87
 1,3-Dichlorobenzene
 Concen: 46.803 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	33.7	17.5	52.6
148	64.4	31.4	94.3

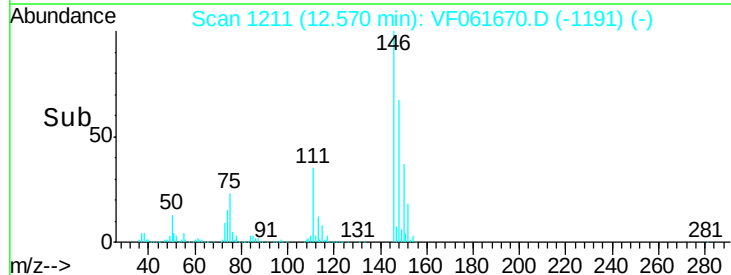
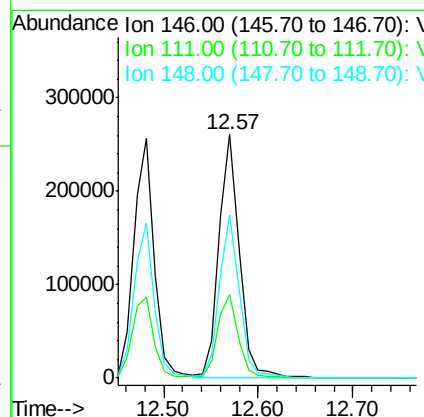
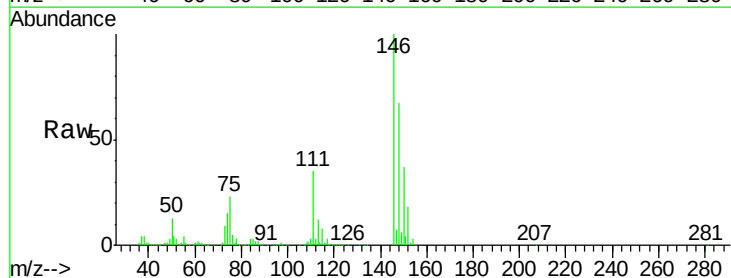
Manual Integrations
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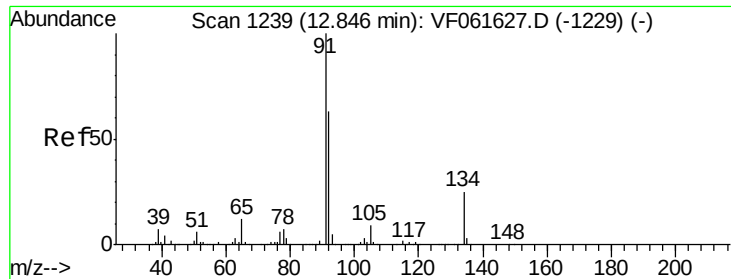
MMDadoda
 2/19/2019 12:29:08 PM



#88
 1,4-Dichlorobenzene
 Concen: 49.316 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.5	18.4	55.4
148	66.9	32.2	96.6





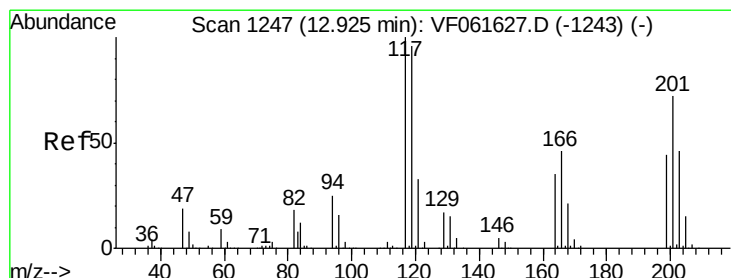
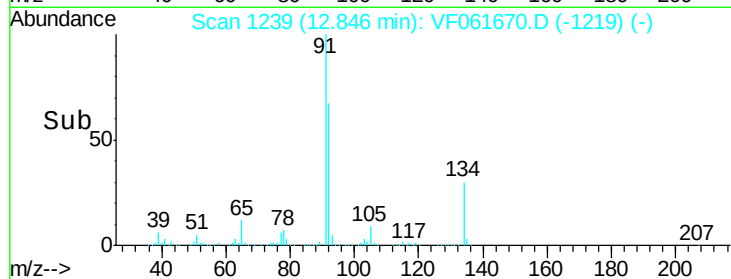
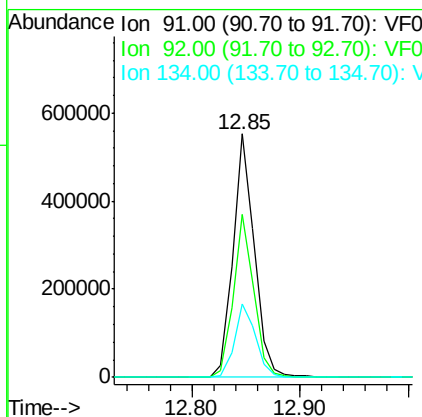
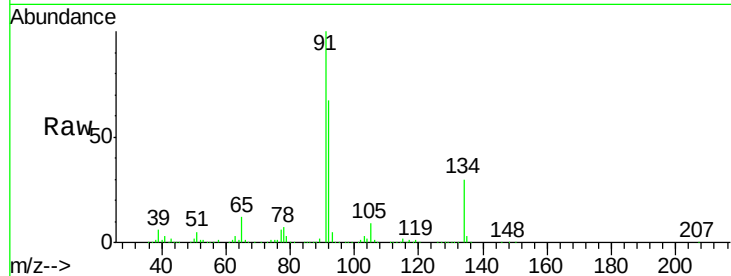
#89
n-Butylbenzene
Concen: 48.792 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100	759042		
92	66.9		31.4	94.3
134	30.2		12.3	36.9

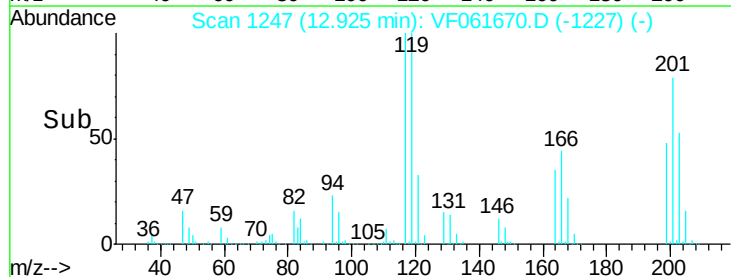
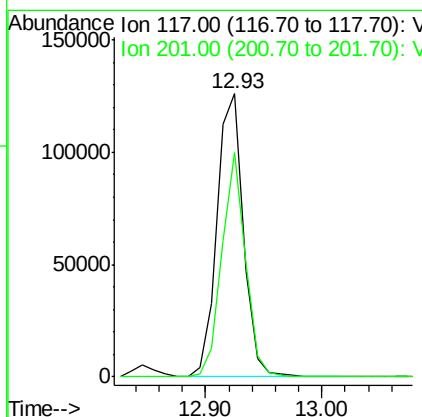
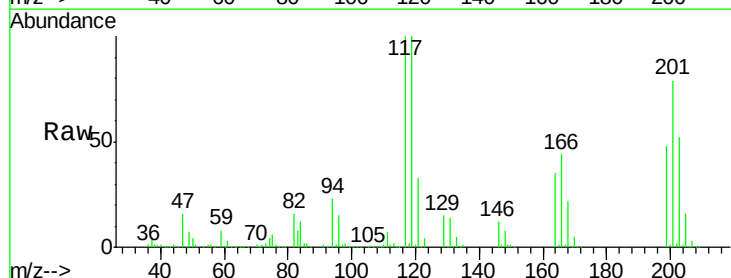
Manual Integrations
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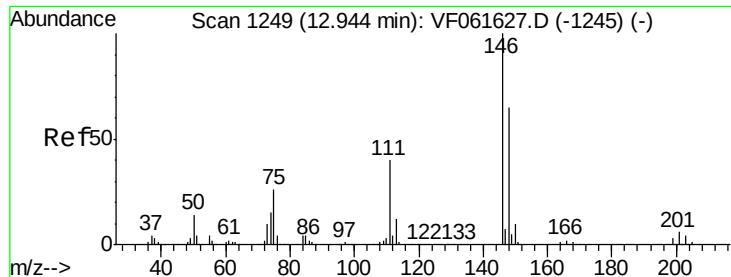
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#90
Hexachloroethane
Concen: 51.726 ug/l
RT: 12.93 min Scan# 1247
Delta R.T. 0.00 min
Lab File: VF061670.D
Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	198188		
201	79.1		36.2	108.6





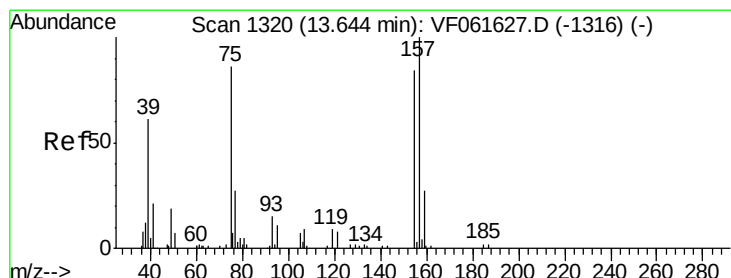
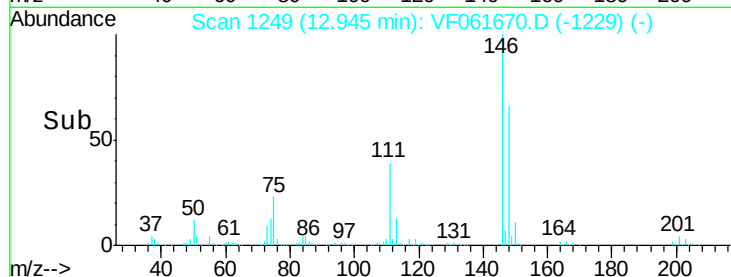
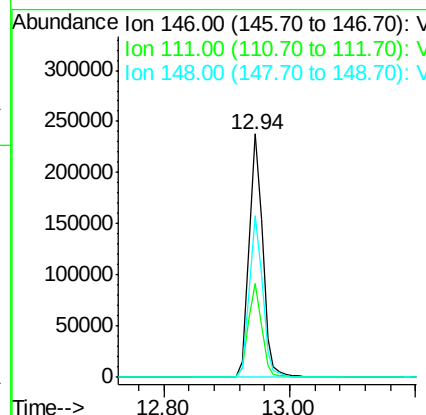
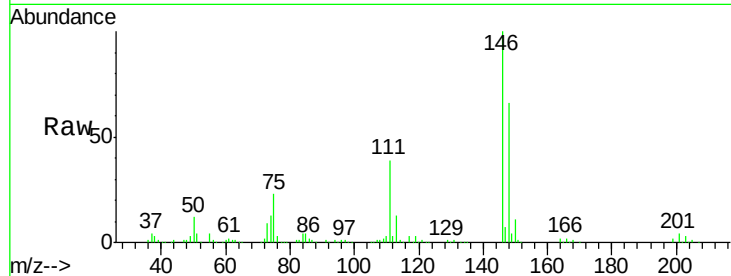
#91
 1,2-Dichlorobenzene
 Concen: 44.680 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	20.2	60.5
148	66.2	32.3	96.9

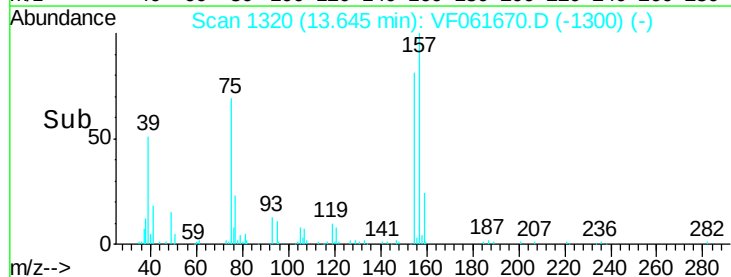
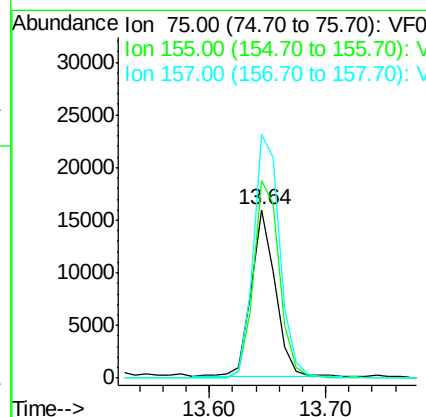
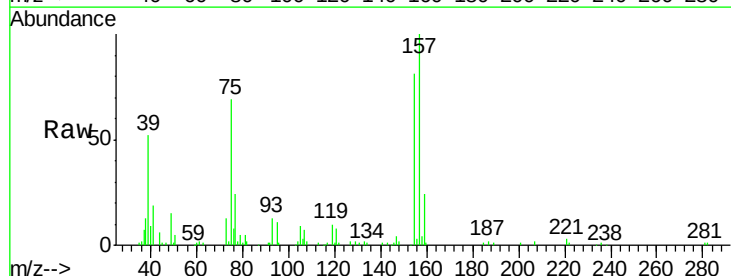
Manual Integrations
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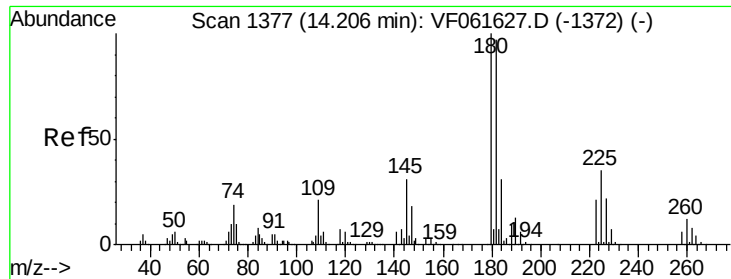
MMDadoda
 2/19/2019 12:29:08 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.268 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Lower	Upper
75	100		
155	117.2	48.9	146.8
157	144.6	58.3	174.8





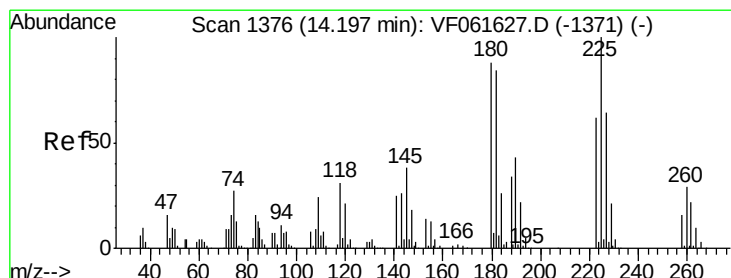
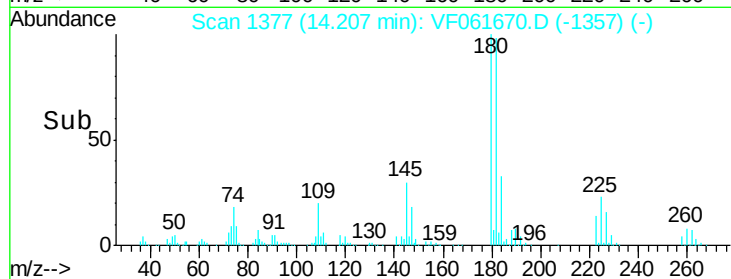
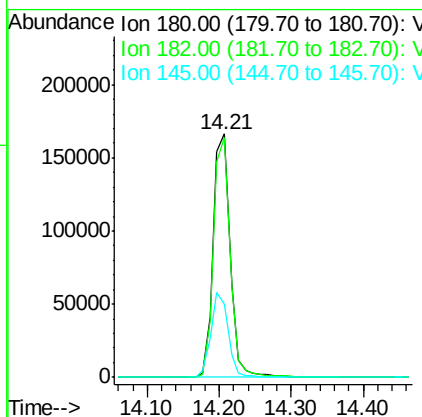
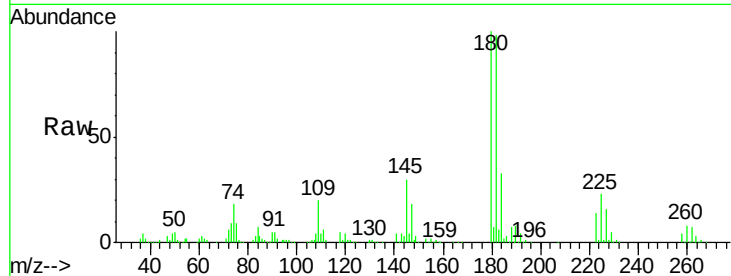
#93
 1,2,4-Trichlorobenzene
 Concen: 47.974 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	270121		
182	98.2	48.6	145.9	
145	30.2	15.3	45.9	

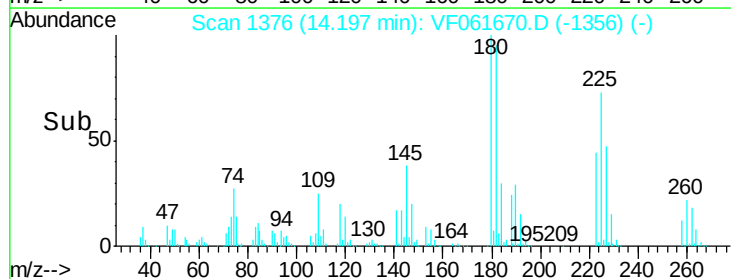
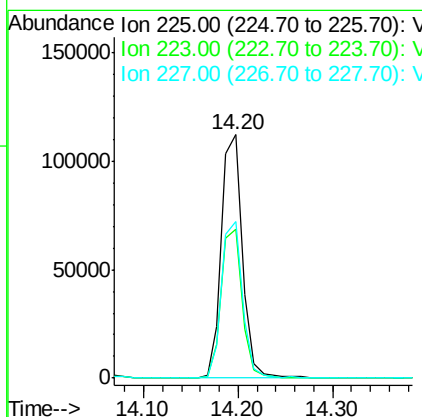
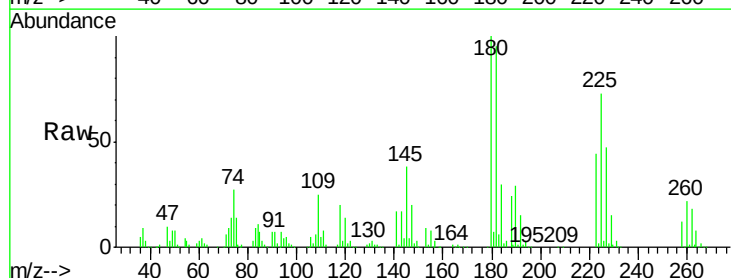
Manual Integrations
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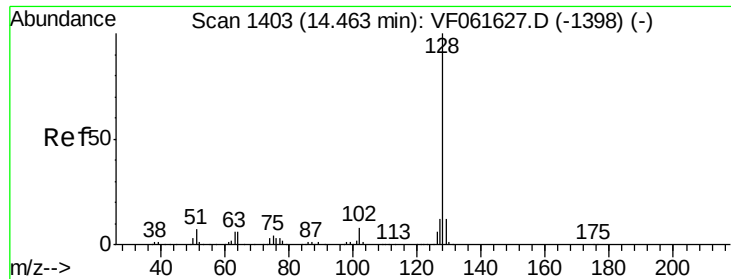
MMDadoda
 2/19/2019 12:29:08 PM



#94
 Hexachlorobutadiene
 Concen: 49.769 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061670.D
 Acq: 18 Feb 2019 10:54

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	173066		
223	61.1	30.9	92.7	
227	64.3	32.1	96.3	





#95

Naphthalene

Concen: 50.264 ug/l

RT: 14.46 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Instrument :

MSVOA_F

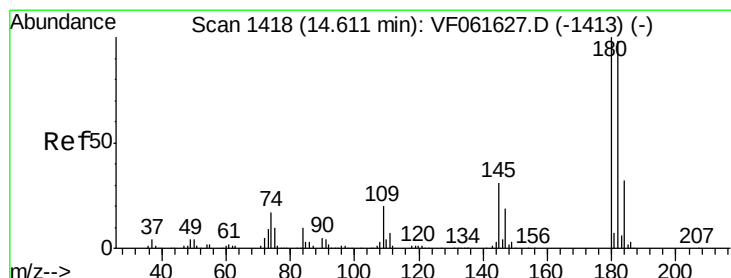
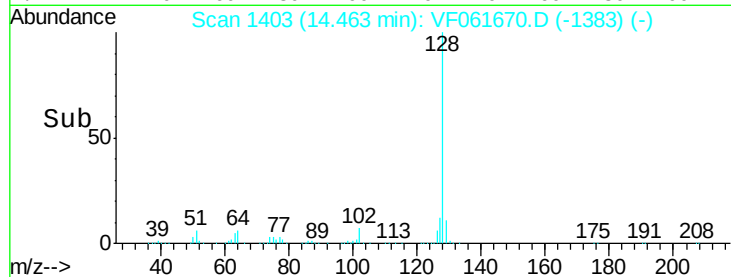
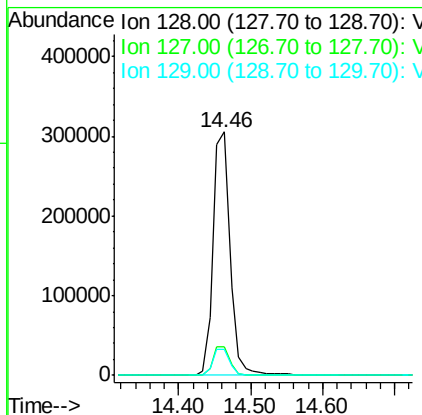
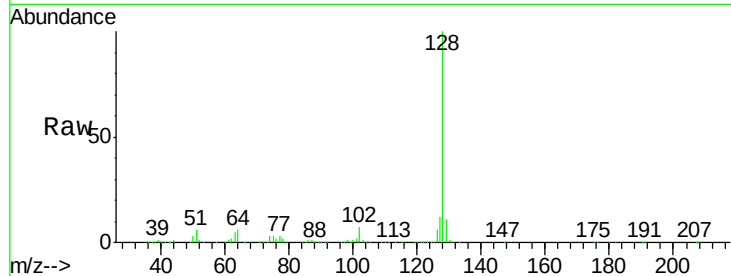
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	495167
Ion Ratio		Lower	Upper
128	100		
127	12.0	9.8	14.6
129	10.8	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
2/19/2019 12:29:08 PM



#96

1,2,3-Trichlorobenzene

Concen: 49.489 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF061670.D

Acq: 18 Feb 2019 10:54

Tgt Ion:	180	Resp:	255754
Ion Ratio		Lower	Upper
180	100		
182	95.0	49.0	147.2
145	32.5	15.4	46.1

