

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032619\
 Data File : VF062142.D
 Acq On : 26 Mar 2019 13:05
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 12:01:39 PM

Quant Time: Mar 27 09:48:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	265007	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	414300	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.75	117	343118	50.00	ug/l	-0.06
72) 1,4-Dichlorobenzene-d4	12.54	152	180677	50.00	ug/l	-0.03

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.82	65	96907	49.16	ug/l	-0.06
Spiked Amount	50.000		Recovery	=	98.32%	
35) Dibromofluoromethane	4.10	113	135880	48.48	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	96.96%	
50) Toluene-d8	7.53	98	407784	48.74	ug/l	-0.06
Spiked Amount	50.000		Recovery	=	97.48%	
62) 4-Bromofluorobenzene	11.40	95	157370	48.73	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	97.46%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	159804	47.071	ug/l	96
3) Chloromethane	1.09	50	168781	47.513	ug/l	100
4) Vinyl Chloride	1.14	62	157279	47.866	ug/l	99
5) Bromomethane	1.31	94	110791	46.906	ug/l	92
6) Chloroethane	1.39	64	83797	50.661	ug/l	100
7) Trichlorofluoromethane	1.48	101	207713	52.342	ug/l	96
8) Diethyl Ether	1.62	74	41273	45.531	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.83	101	134126	49.542	ug/l	95
10) Methyl Iodide	1.90	142	265136m	51.535	ug/l	
11) Tert butyl alcohol	2.56	59	25998	239.710	ug/l #	85
12) 1,1-Dichloroethene	1.79	96	128579	50.335	ug/l	93
13) Acrolein	2.00	56	35247	270.261	ug/l	89
14) Allyl chloride	2.09	41	153256	56.194	ug/l	97
15) Acrylonitrile	2.92	53	86226	226.088	ug/l	99
16) Acetone	2.22	43	119213	287.358	ug/l	96
17) Carbon Disulfide	1.81	76	389781	50.039	ug/l	100
18) Methyl Acetate	2.33	43	47358	47.856	ug/l	97
19) Methyl tert-butyl Ether	2.41	73	193804	48.003	ug/l	98
20) Methylene Chloride	2.17	84	128172m	51.480	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	127644	51.934	ug/l	94
22) Diisopropyl ether	2.79	45	358051	50.074	ug/l	98
23) Vinyl Acetate	3.17	43	744249	254.216	ug/l	97
24) 1,1-Dichloroethane	2.86	63	215286	50.206	ug/l	100
25) 2-Butanone	4.32	43	220703	254.832	ug/l	97
26) 2,2-Dichloropropane	3.58	77	92814	53.385	ug/l	97
27) cis-1,2-Dichloroethene	3.46	96	156029	47.907	ug/l	98
28) Bromochloromethane	3.70	49	90733	51.789	ug/l	97
29) Tetrahydrofuran	4.05	42	83481	221.697	ug/l	98
30) Chloroform	3.84	83	228669	50.460	ug/l	95
31) Cyclohexane	3.67	56	214890	47.983	ug/l	99
32) 1,1,1-Trichloroethane	4.08	97	135867	49.287	ug/l	99
36) 1,1-Dichloropropene	4.26	75	189530	48.028	ug/l	98
37) Ethyl Acetate	4.09	43	77739	45.076	ug/l	92
38) Carbon Tetrachloride	3.97	117	139832	51.990	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	215969	47.155	ug/l	95
40) Benzene	4.61	78	504159	47.657	ug/l	98
41) Methacrylonitrile	4.73	41	39924	43.752	ug/l	95
42) 1,2-Dichloroethane	4.92	62	126916	50.732	ug/l	96
43) Isopropyl Acetate	6.94	43	95002	45.486	ug/l	97
44) Trichloroethene	5.48	130	153944	47.596	ug/l	99
45) 1,2-Dichloropropane	6.22	63	126256	50.038	ug/l	90
46) Dibromomethane	6.07	93	73028	47.336	ug/l	96
47) Bromodichloromethane	6.37	83	162695	47.610	ug/l	99
48) Methyl methacrylate	6.69	41	54656	45.961	ug/l	97
49) 1,4-Dioxane	6.68	88	10370	993.802	ug/l	96
51) 4-Methyl-2-Pentanone	8.24	43	333417	238.510	ug/l	99
52) Toluene	7.60	92	305901	49.923	ug/l	97
53) t-1,3-Dichloropropene	8.26	75	139229	51.901	ug/l	93
54) cis-1,3-Dichloropropene	7.28	75	188214	49.036	ug/l	96
55) 1,1,2-Trichloroethane	8.47	97	82966	47.669	ug/l	96
56) Ethyl methacrylate	8.60	69	96546	46.512	ug/l	96
57) 1,3-Dichloropropane	8.83	76	144340	49.968	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.27	63	79202	251.457	ug/l	94
59) 2-Hexanone	9.47	43	234231	228.620	ug/l	98
60) Dibromochloromethane	8.69	129	125313	51.792	ug/l	97
61) 1,2-Dibromoethane	8.97	107	91542	49.299	ug/l	98
64) Tetrachloroethene	8.13	164	132855	50.118	ug/l	94
65) Chlorobenzene	9.78	112	323261	50.352	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	131895	51.146	ug/l	99
67) Ethyl Benzene	9.88	91	566454	50.735	ug/l	98
68) m/p-Xylenes	10.11	106	417203	99.977	ug/l	97
69) o-Xylene	10.70	106	223376	51.109	ug/l	98
70) Styrene	10.77	104	325727	49.188	ug/l	98
71) Bromoform	10.75	173	64781	49.113	ug/l	99
73) Isopropylbenzene	11.11	105	618725	48.666	ug/l	100
74) N-amyl acetate	11.36	43	147916	48.828	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.68	83	106517	48.795	ug/l	99
76) 1,2,3-Trichloropropane	11.78	75	71731m	46.692	ug/l	
77) Bromobenzene	11.48	156	148759	47.892	ug/l	96
78) n-propylbenzene	11.58	91	723033	48.977	ug/l	96
79) 2-Chlorotoluene	11.70	91	402138	49.008	ug/l	95
80) 1,3,5-Trimethylbenzene	11.81	105	525960	50.295	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.86	75	28560m	45.623	ug/l	
82) 4-Chlorotoluene	11.88	91	405127	48.153	ug/l	98
83) tert-Butylbenzene	12.12	119	570760	52.138	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	516459	50.378	ug/l	100
85) sec-Butylbenzene	12.29	105	710842	50.195	ug/l	98
86) p-Isopropyltoluene	12.44	119	629468	51.304	ug/l	96
87) 1,3-Dichlorobenzene	12.46	146	285908	49.544	ug/l	94
88) 1,4-Dichlorobenzene	12.55	146	277279	49.240	ug/l	98
89) n-Butylbenzene	12.84	91	580962	49.631	ug/l	98
90) Hexachloroethane	12.90	117	153947	52.695	ug/l	83
91) 1,2-Dichlorobenzene	12.92	146	266133	49.113	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.63	75	16294	49.263	ug/l	81

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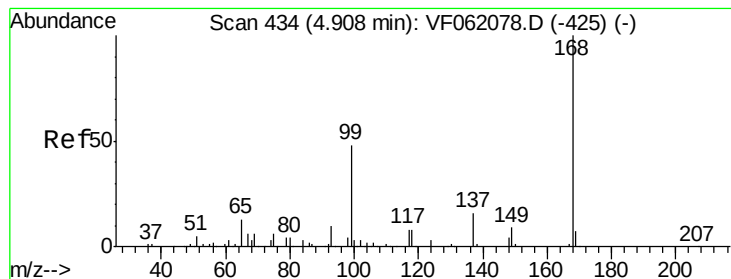
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	190702	50.496	ug/l	98
94) Hexachlorobutadiene	14.18	225	131994	52.565	ug/l	96
95) Naphthalene	14.44	128	328419	49.624	ug/l	100
96) 1,2,3-Trichlorobenzene	14.59	180	178518	50.499	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.06 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 265007

Ion Ratio Lower Upper

168 100

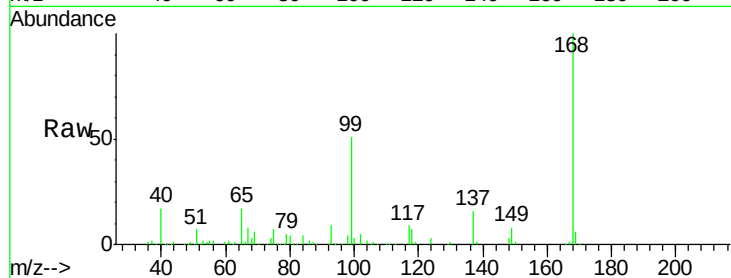
99 50.5 38.2 57.4

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

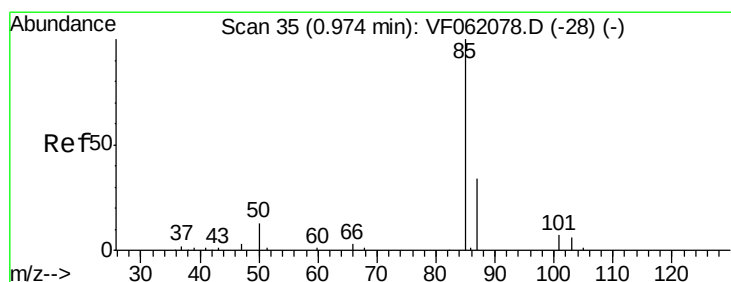
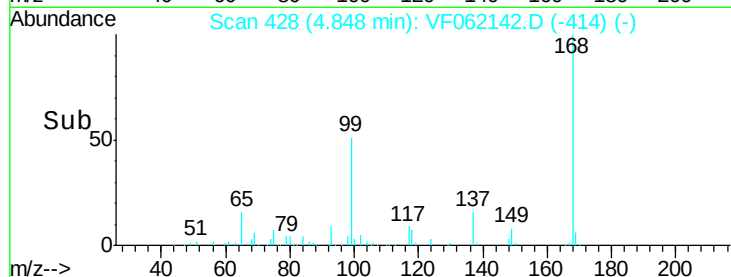
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 47.071 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062142.D

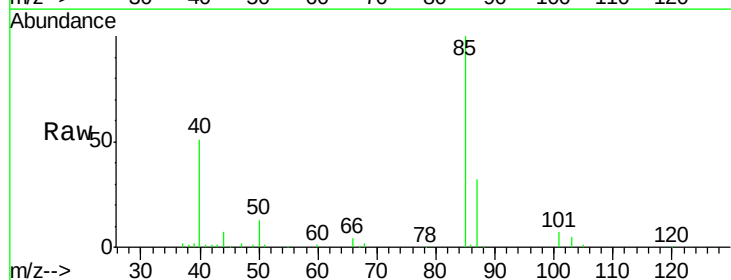
Acq: 26 Mar 2019 13:05

Tgt Ion: 85 Resp: 159804

Ion Ratio Lower Upper

85 100

87 31.6 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

50000

40000

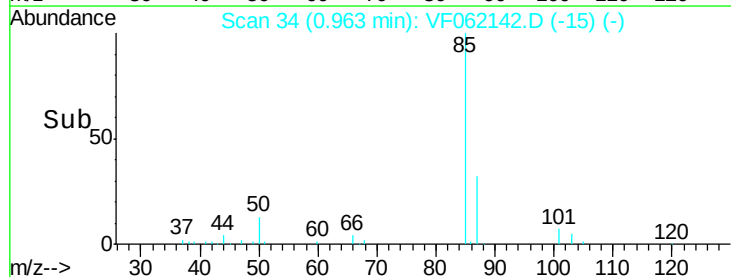
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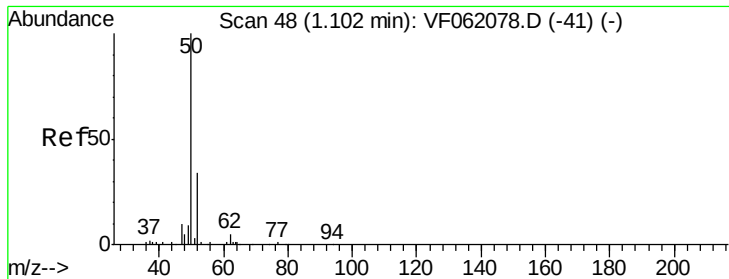
20000

10000

0

Time-->





#3

Chloromethane

Concen: 47.513 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 168781

Ion Ratio Lower Upper

50 100

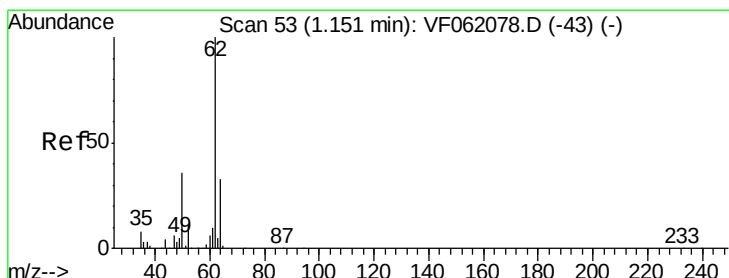
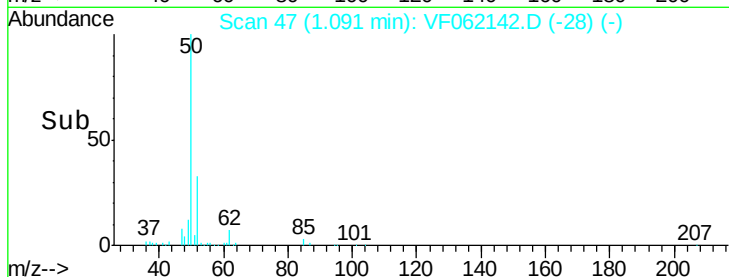
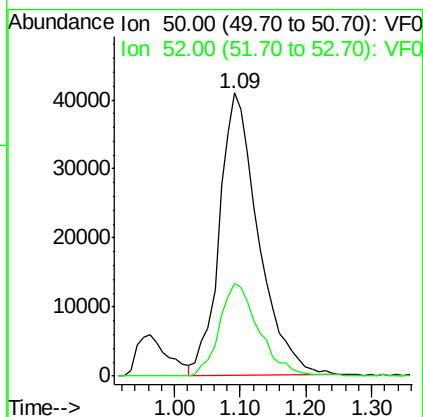
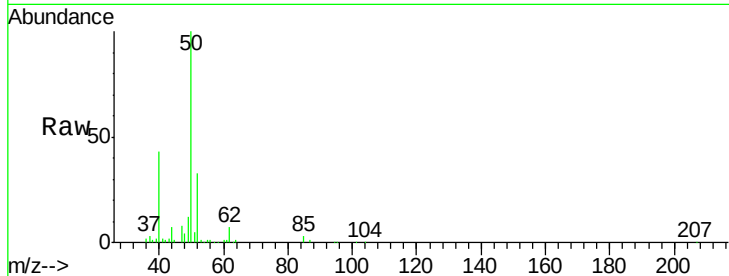
52 32.7 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 47.866 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062142.D

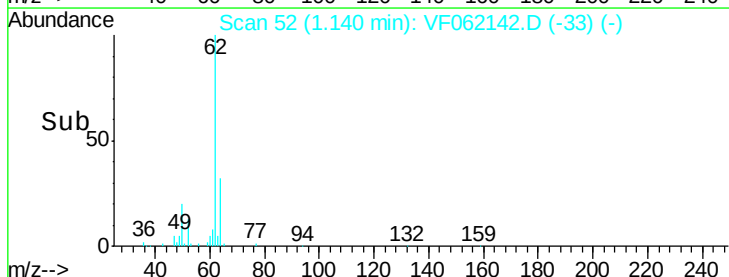
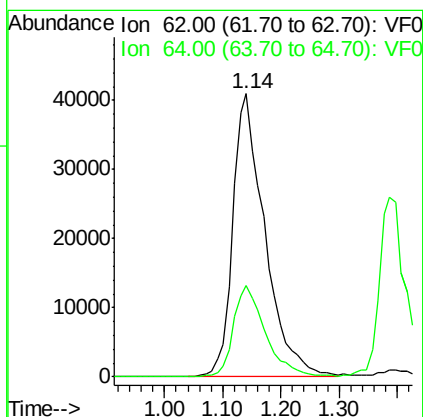
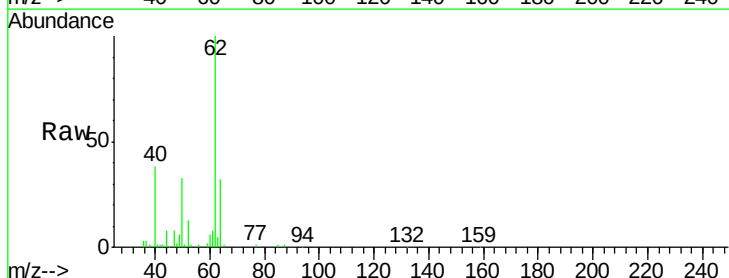
Acq: 26 Mar 2019 13:05

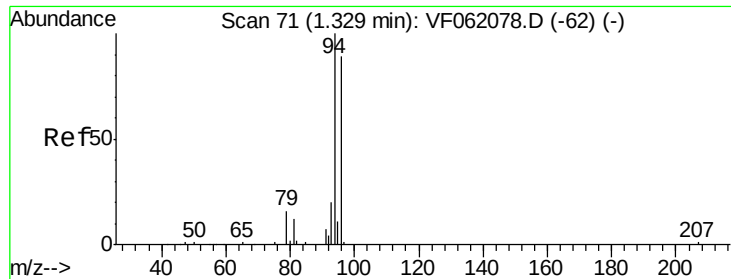
Tgt Ion: 62 Resp: 157279

Ion Ratio Lower Upper

62 100

64 32.1 26.2 39.2





#5

Bromomethane

Concen: 46.906 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 110791

Ion Ratio Lower Upper

94 100

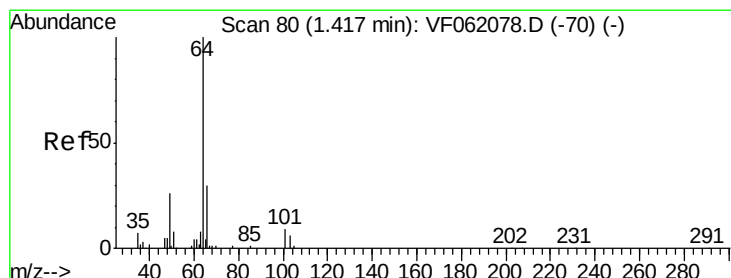
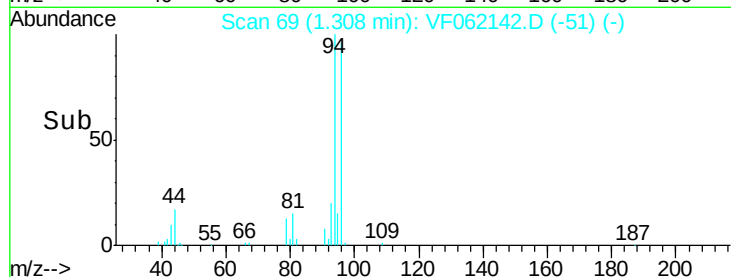
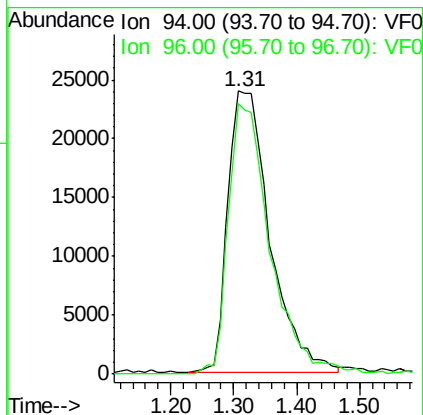
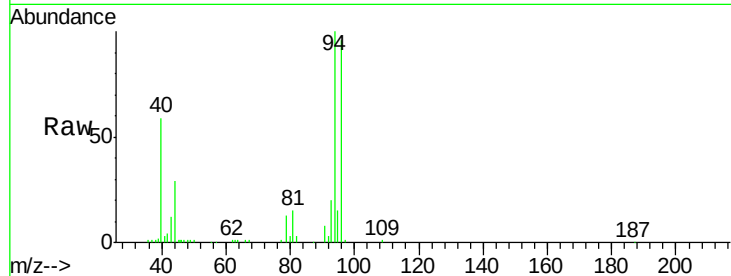
96 95.6 70.9 106.3

Manual Integrations

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#6

Chloroethane

Concen: 50.661 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.03 min

Lab File: VF062142.D

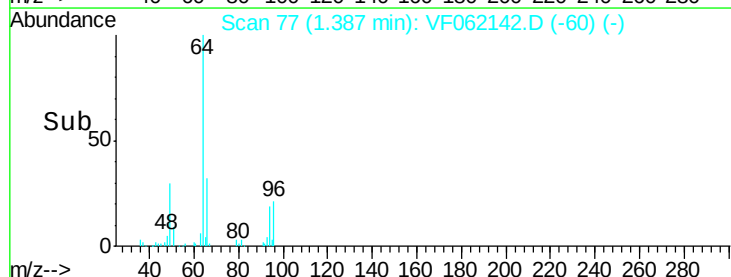
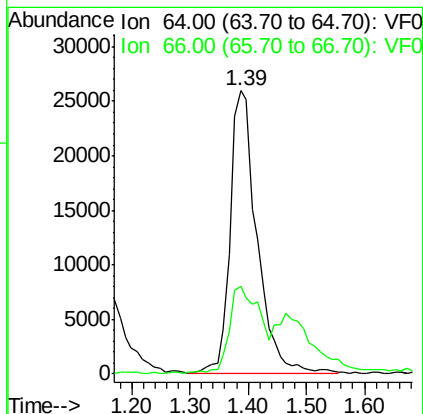
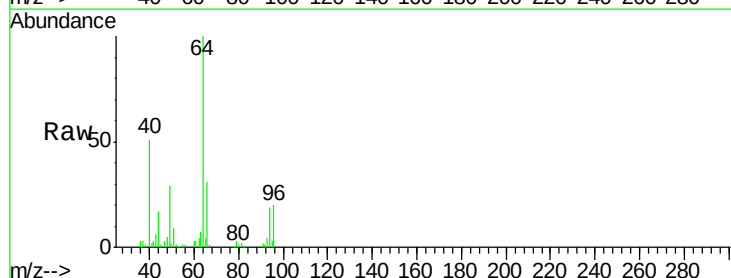
Acq: 26 Mar 2019 13:05

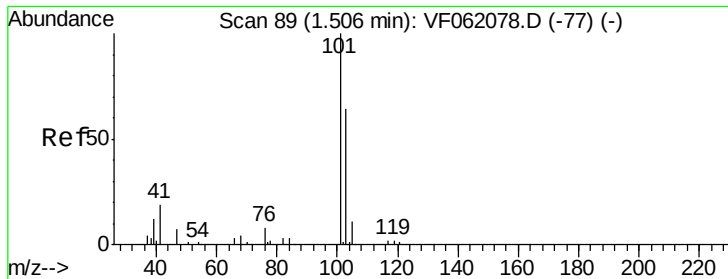
Tgt Ion: 64 Resp: 83797

Ion Ratio Lower Upper

64 100

66 30.8 24.5 36.7





#7

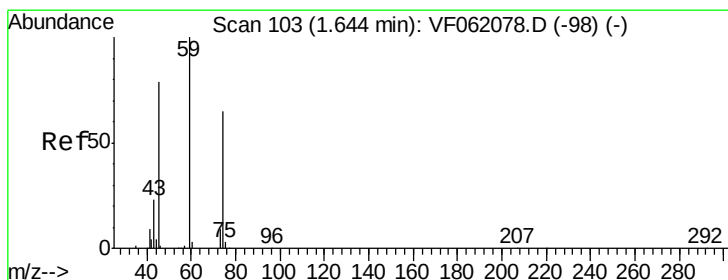
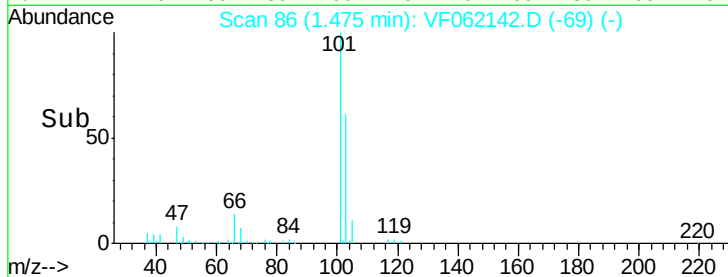
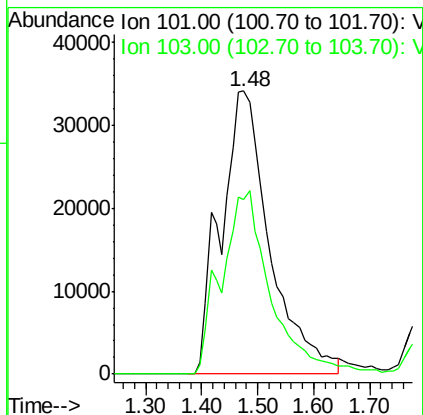
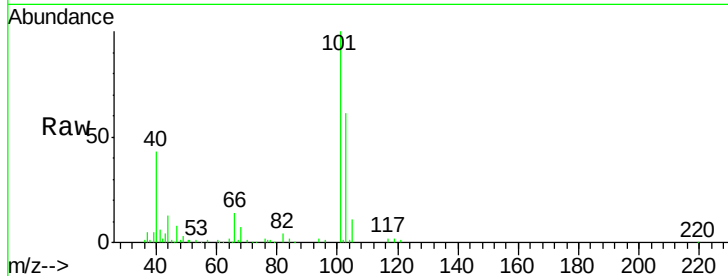
Trichlorofluoromethane
Concen: 52.342 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	61.5	51.5	77.3

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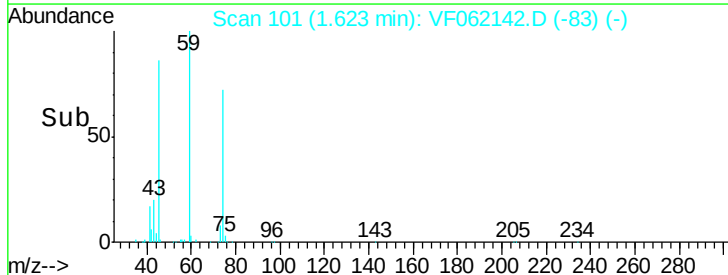
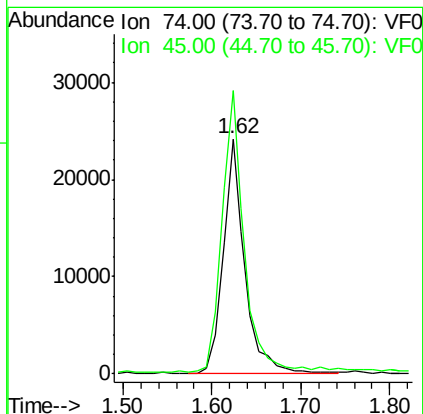
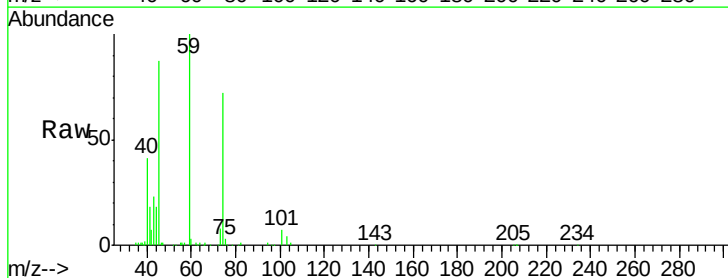
MMDadoda
3/27/2019 12:01:39 PM

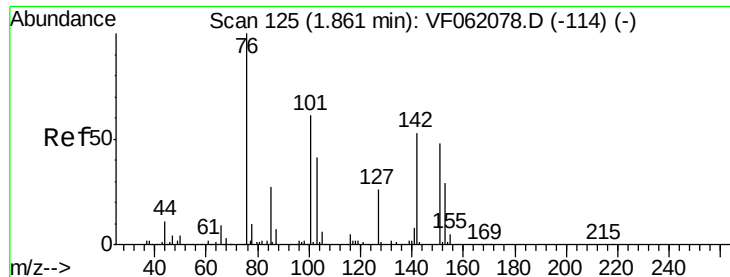


#8

Diethyl Ether
Concen: 45.531 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.02 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
74	100		
45	120.5	61.4	184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.542 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.03 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

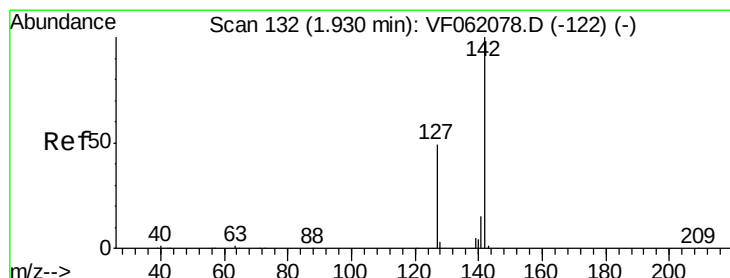
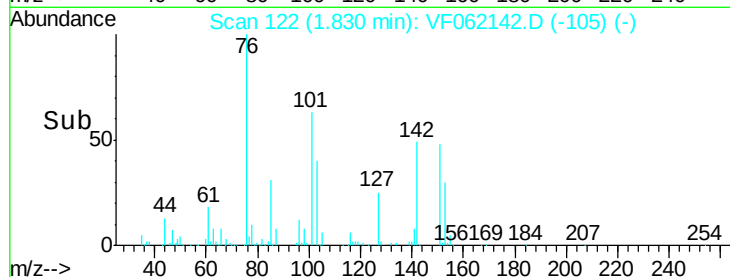
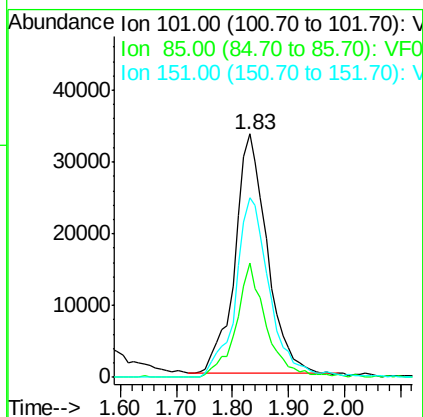
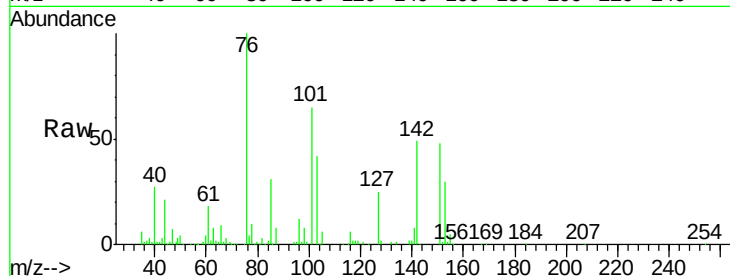
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	134126
Ion Ratio	Lower	Upper	
101	100		
85	46.9	34.6	52.0
151	73.6	61.7	92.5

Manual Integrations
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3/27/2019 12:01:39 PM



#10

Methyl Iodide

Concen: 51.535 ug/l m

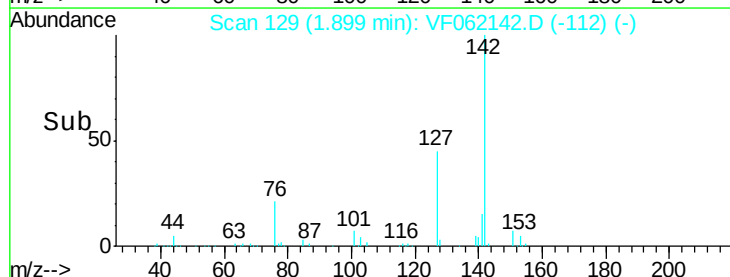
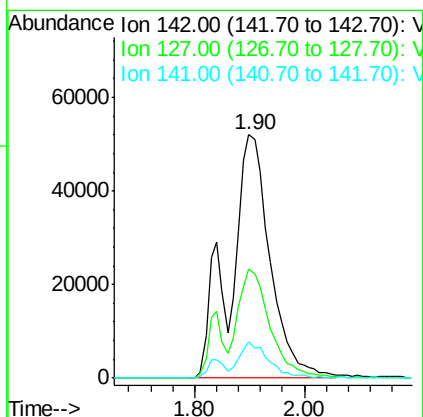
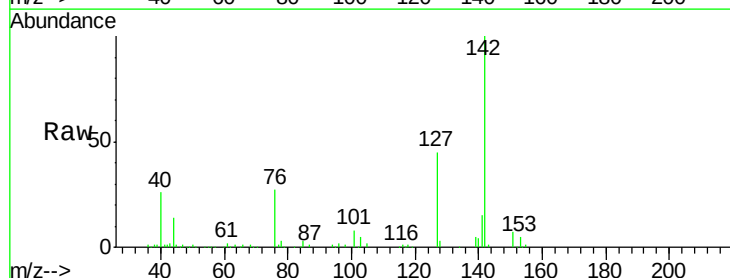
RT: 1.90 min Scan# 129

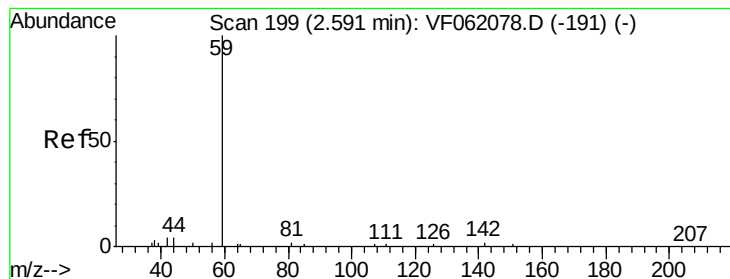
Delta R.T. -0.03 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion:	142	Resp:	265136
Ion Ratio	Lower	Upper	
142	100		
127	44.8	39.1	58.7
141	14.7	12.2	18.4





#11

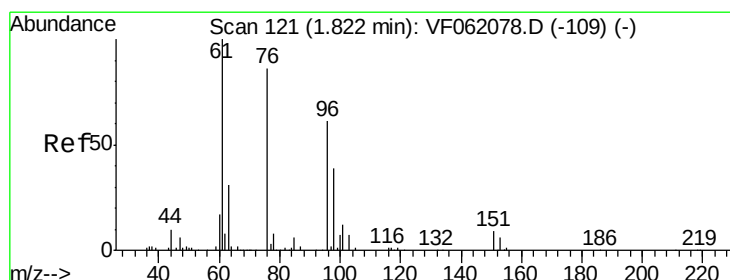
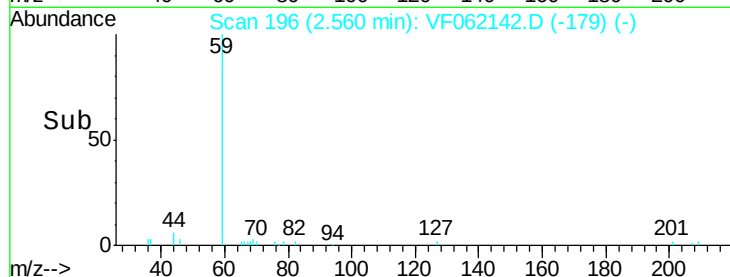
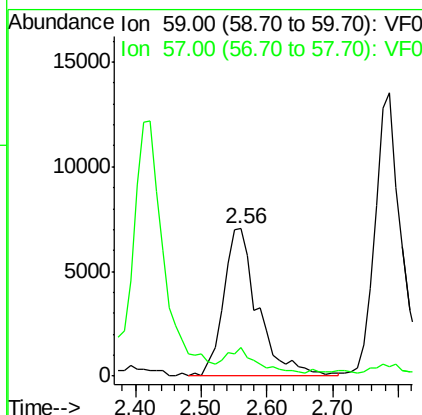
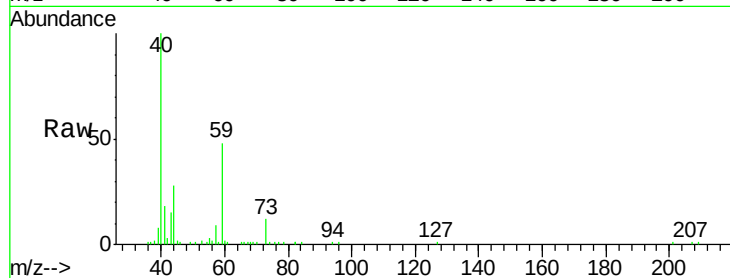
Tert butyl alcohol
Concen: 239.710 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	59	Ratio	Lower	Upper
59	100			
57	19.6	11.0	16.4	

Manual Integrations
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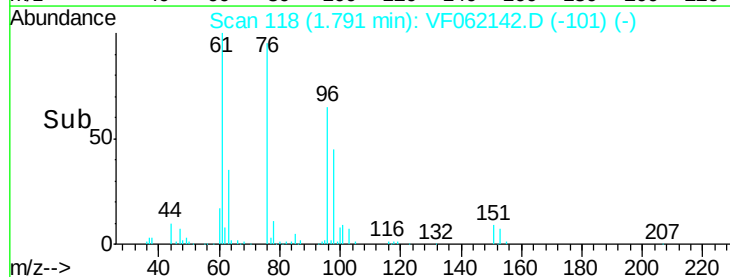
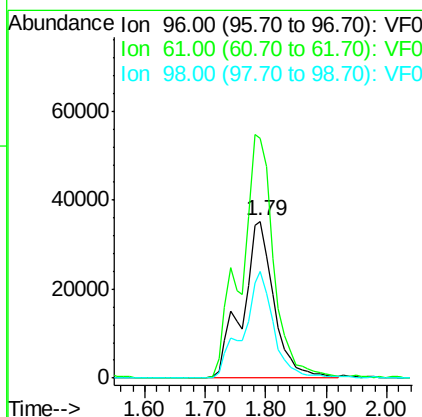
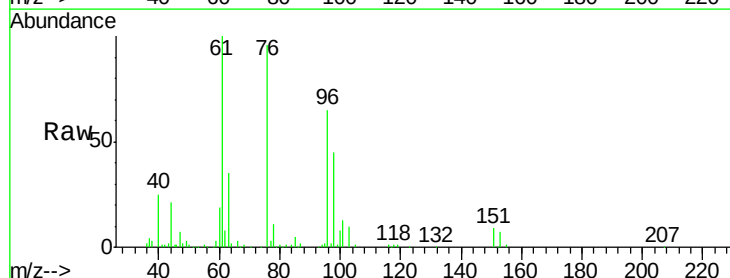
MMDadoda
3/27/2019 12:01:39 PM

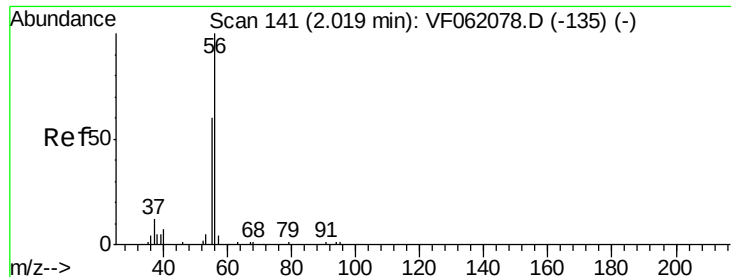


#12

1,1-Dichloroethene
Concen: 50.335 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	96	Ratio	Lower	Upper
96	100			
61	152.8	131.0	196.6	
98	68.2	51.5	77.3	





#13

Acrolein

Concen: 270.261 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.02 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 35247

Ion Ratio Lower Upper

56 100

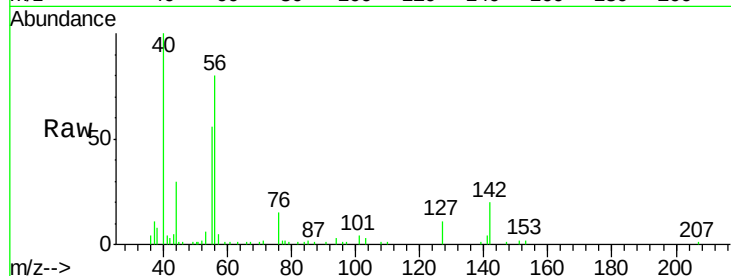
55 69.6 49.0 73.4

Manual Integrations

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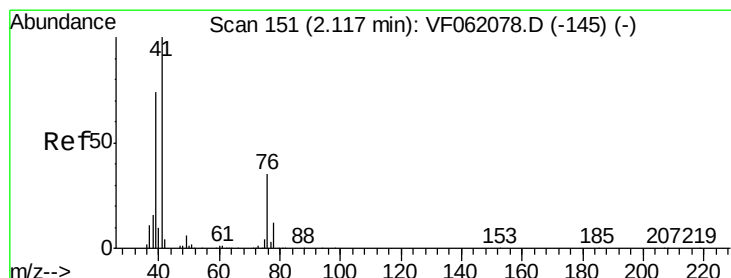
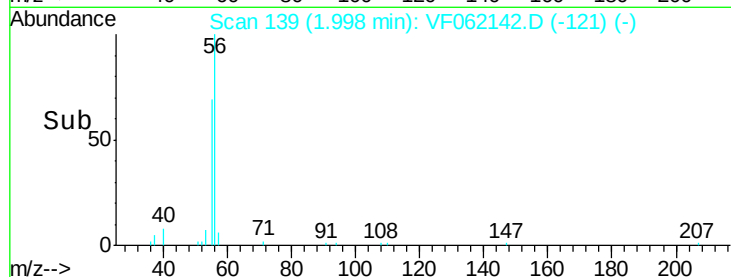
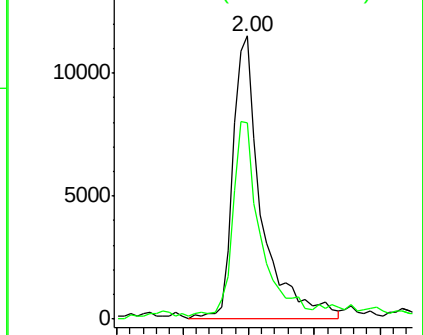
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 56.194 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.03 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

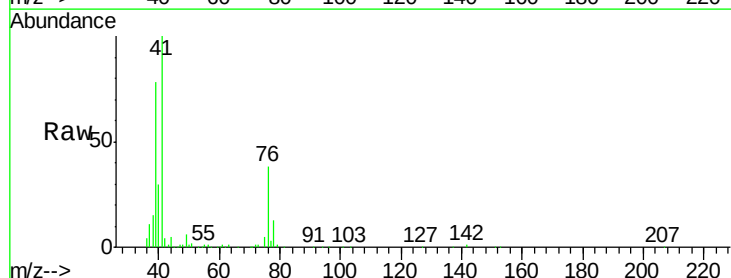
Tgt Ion: 41 Resp: 153256

Ion Ratio Lower Upper

41 100

39 77.8 59.8 89.8

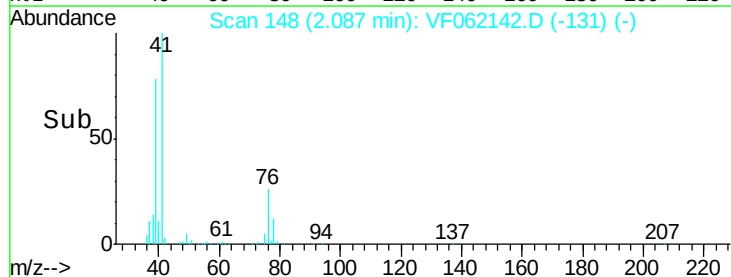
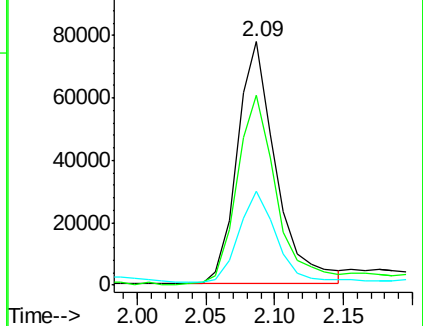
76 38.4 30.0 45.0

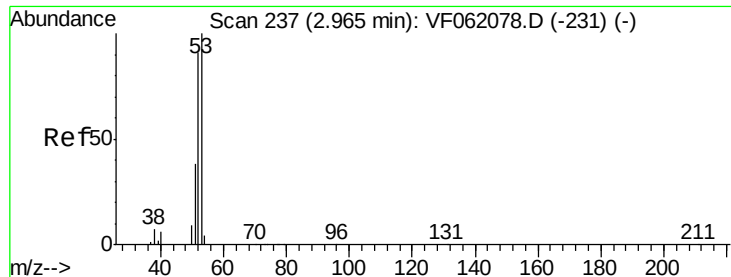


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 226.088 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

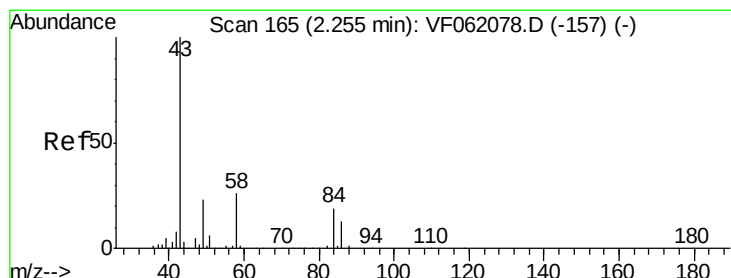
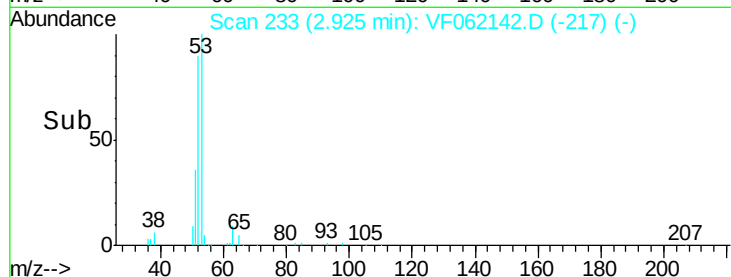
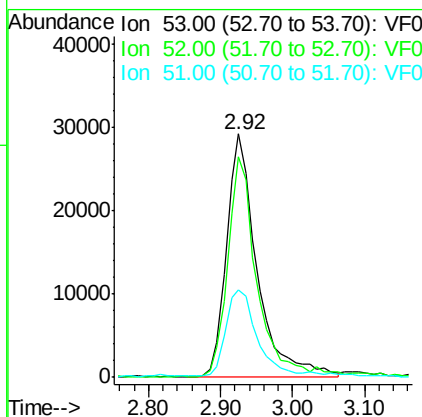
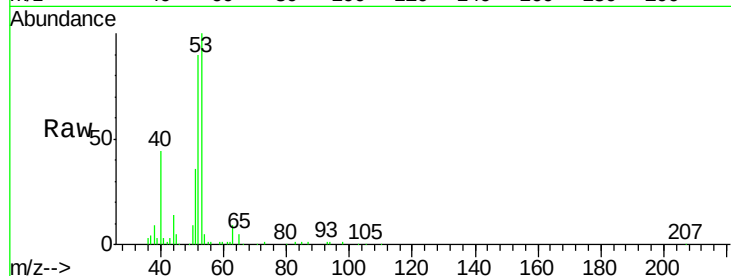
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	86226
Ion	Ratio	Lower	Upper
53	100		
52	90.4	72.3	108.5
51	36.1	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 287.358 ug/l

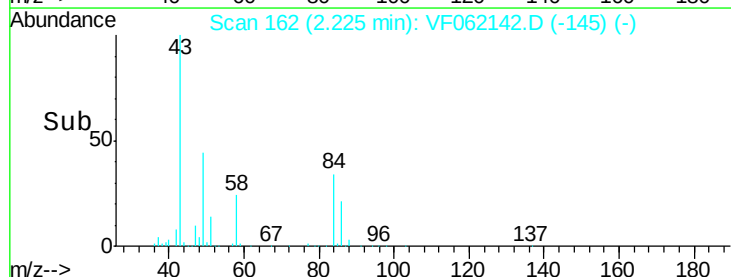
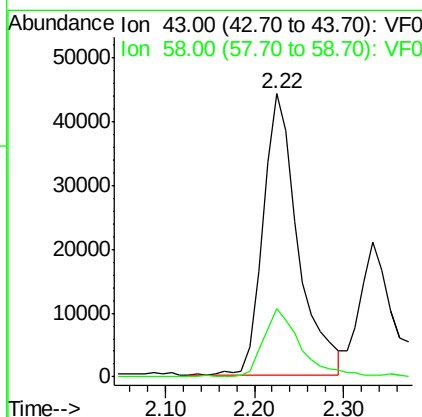
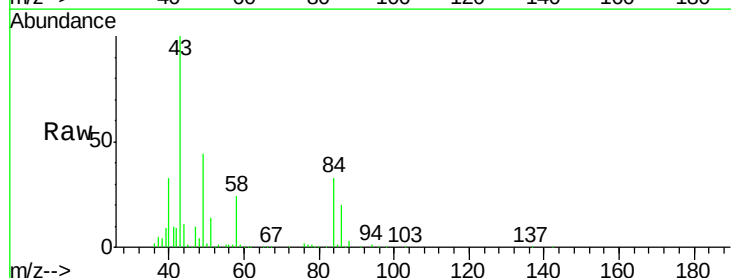
RT: 2.22 min Scan# 162

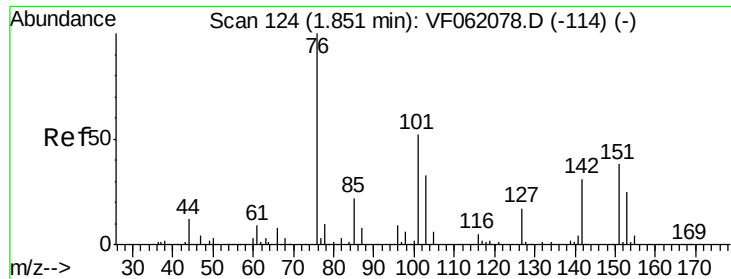
Delta R.T. -0.03 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion:	43	Resp:	119213
Ion	Ratio	Lower	Upper
43	100		
58	24.0	20.8	31.2





#17

Carbon Disulfide

Concen: 50.039 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 389781

Ion Ratio Lower Upper

76 100

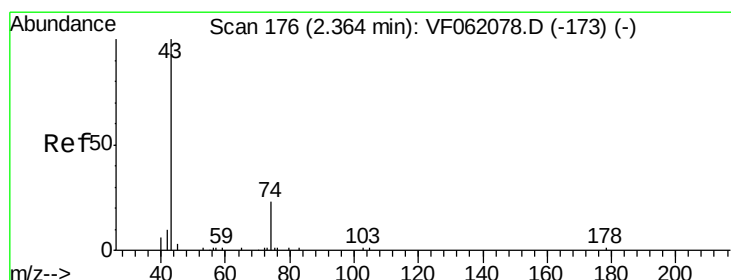
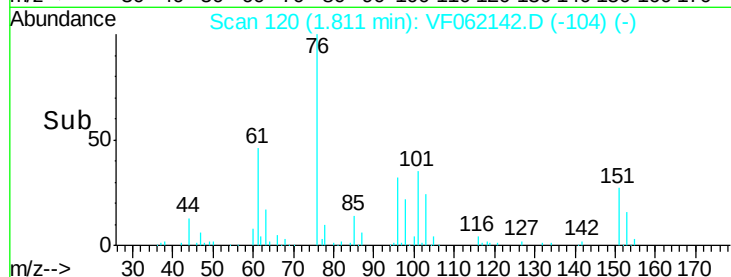
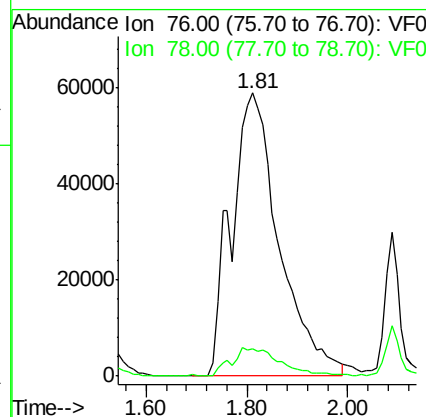
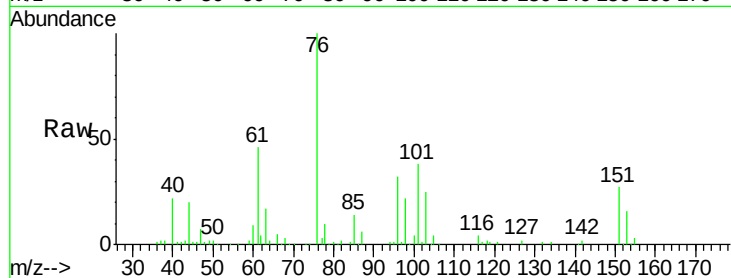
78 9.8 7.9 11.9

Manual Integrations

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#18

Methyl Acetate

Concen: 47.856 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.03 min

Lab File: VF062142.D

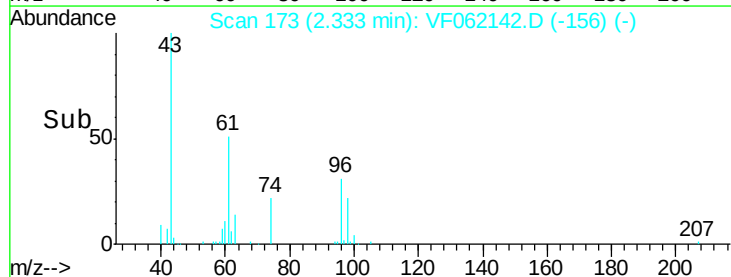
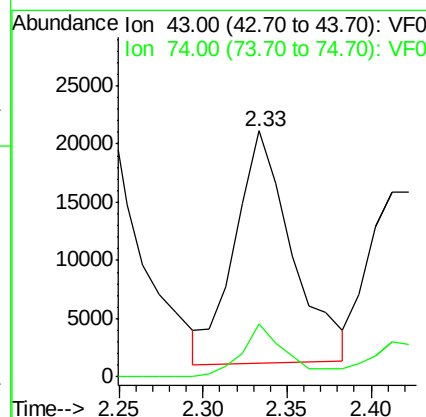
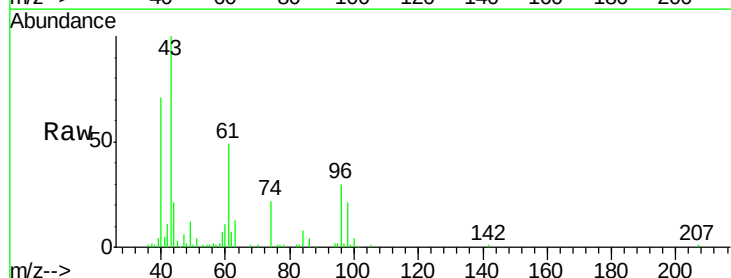
Acq: 26 Mar 2019 13:05

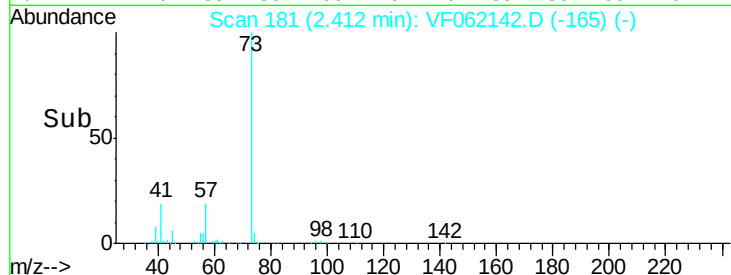
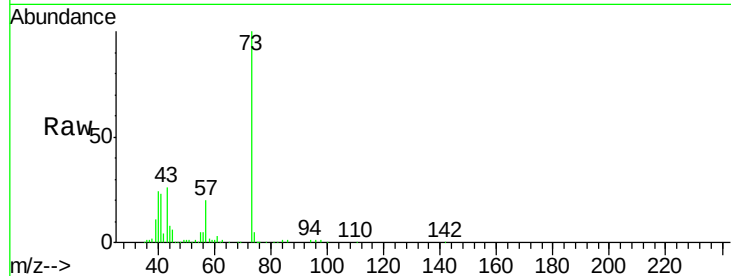
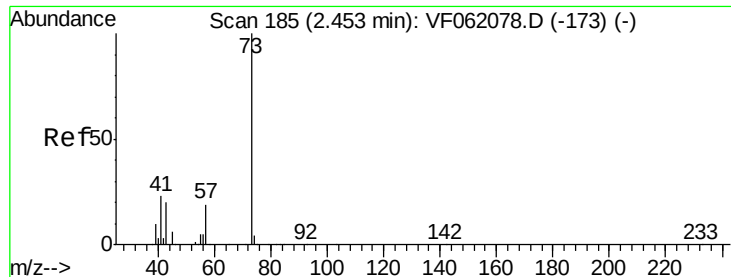
Tgt Ion: 43 Resp: 47358

Ion Ratio Lower Upper

43 100

74 21.8 16.3 24.5





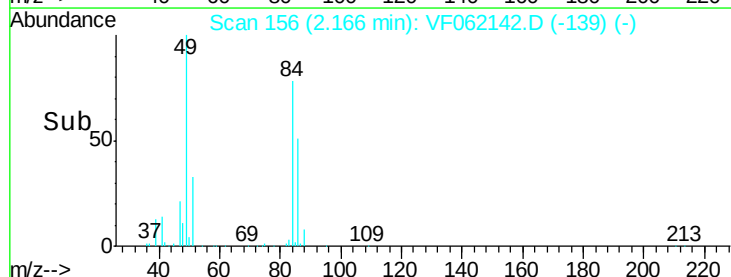
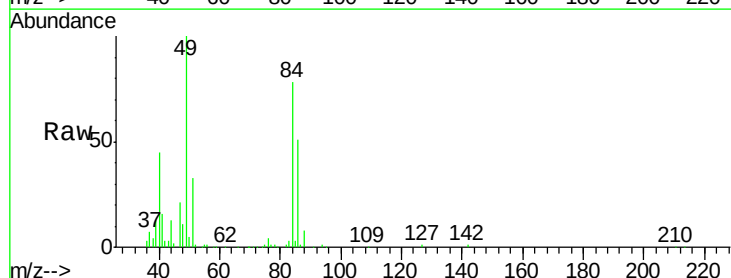
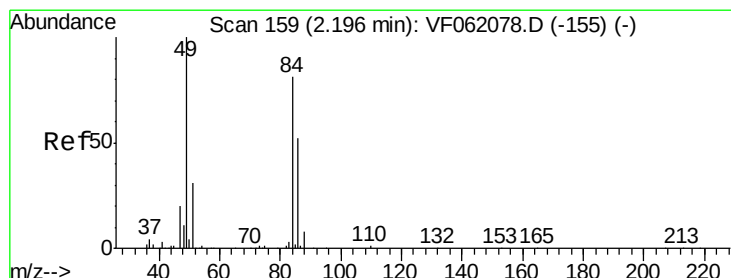
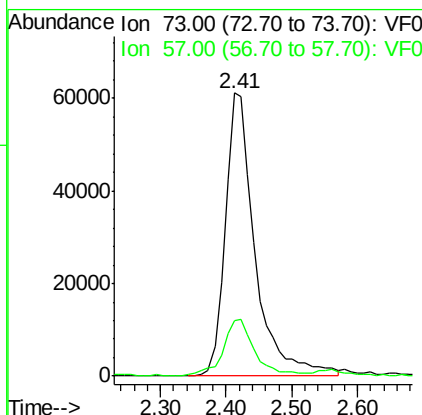
#19
Methyl tert-butyl Ether
Concen: 48.003 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.04 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tot Ion	73	Resp	193804
Ion Ratio	100	Lower	Upper
73	100		
57	19.8	15.1	22.7

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

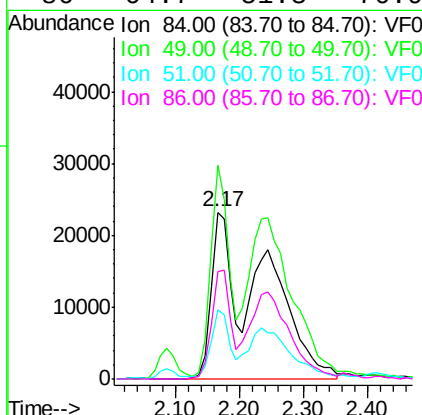
Manual Integrations
APPROVED

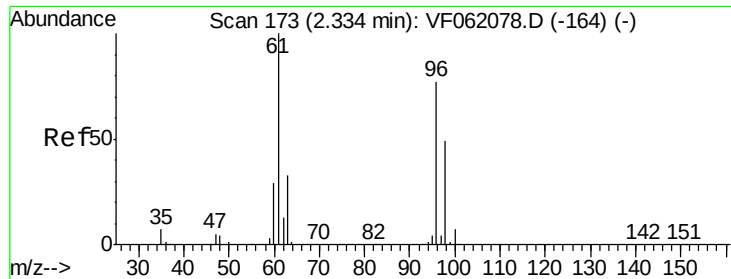
MMDadoda
3/27/2019 12:01:39 PM



#20
Methylene Chloride
Concen: 51.480 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	84	Resp	128172
Ion Ratio	100	Lower	Upper
84	100		
49	128.0	100.4	150.6
51	41.6	31.0	46.6
86	64.7	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 51.934 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

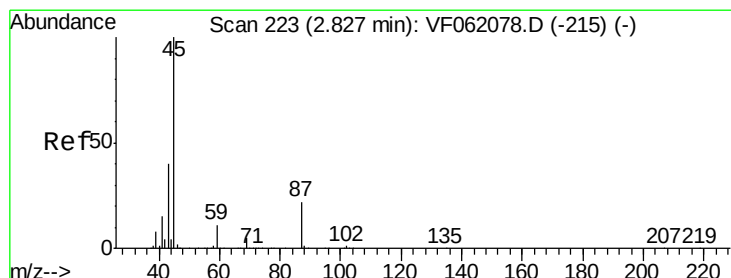
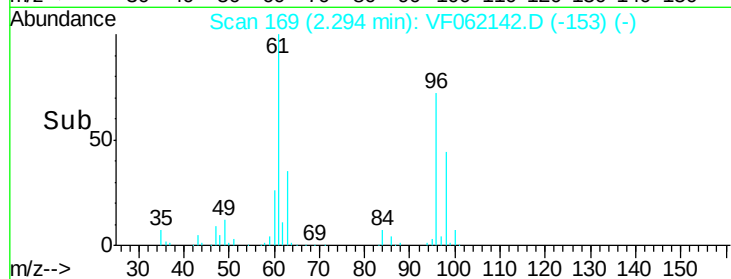
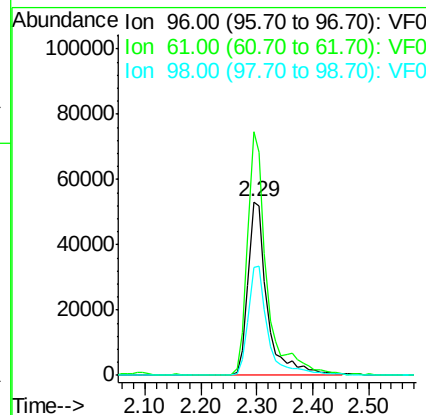
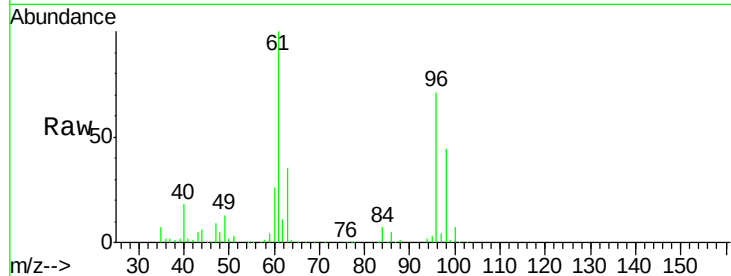
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	127644
Ion	Ratio	Lower	Upper
96	100		
61	140.0	104.5	156.7
98	61.9	51.2	76.8

Manual Integrations
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3/27/2019 12:01:39 PM



#22

Diisopropyl ether

Concen: 50.074 ug/l

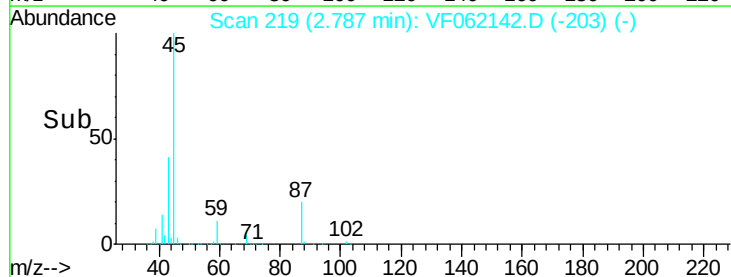
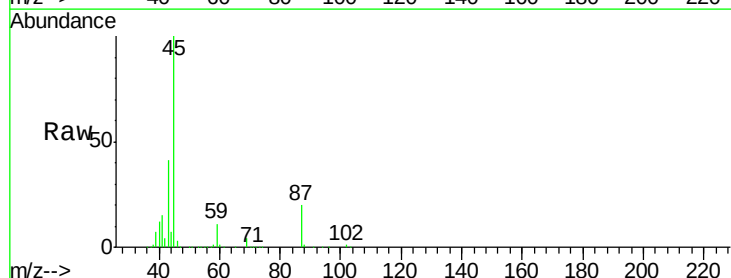
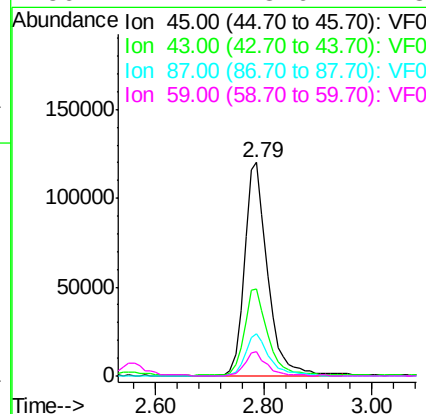
RT: 2.79 min Scan# 219

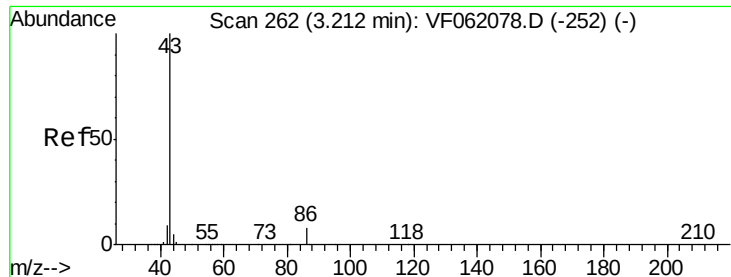
Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion:	45	Resp:	358051
Ion	Ratio	Lower	Upper
45	100		
43	41.0	32.5	48.7
87	19.8	17.4	26.2
59	11.2	8.6	12.8





#23

Vinyl Acetate

Concen: 254.216 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 744249

Ion Ratio Lower Upper

43 100

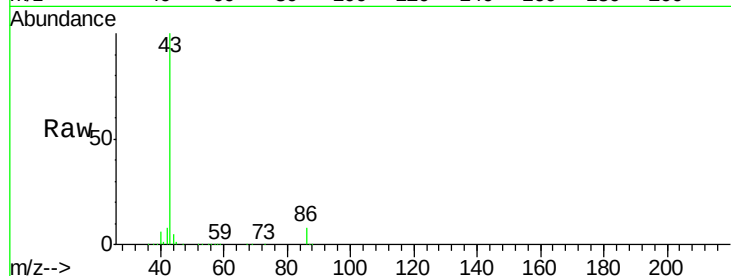
86 7.6 6.8 10.2

Manual Integrations

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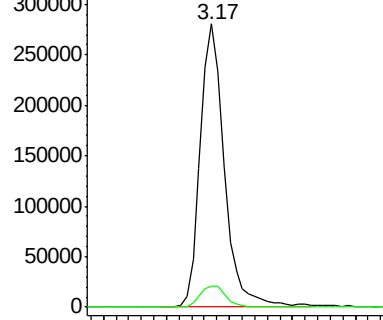
MMDadoda

3/27/2019 12:01:39 PM

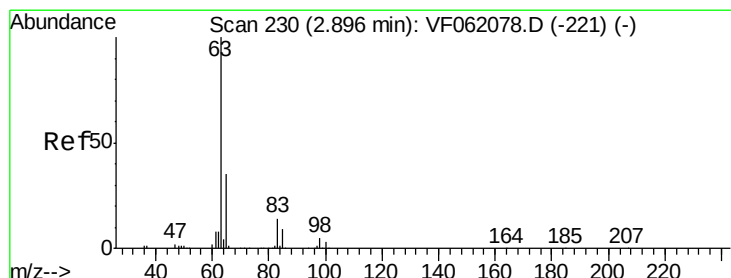
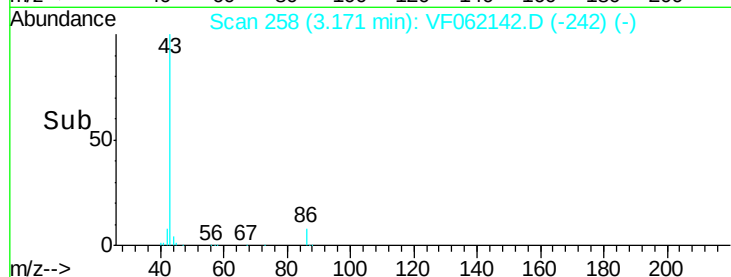


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#24

1,1-Dichloroethane

Concen: 50.206 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

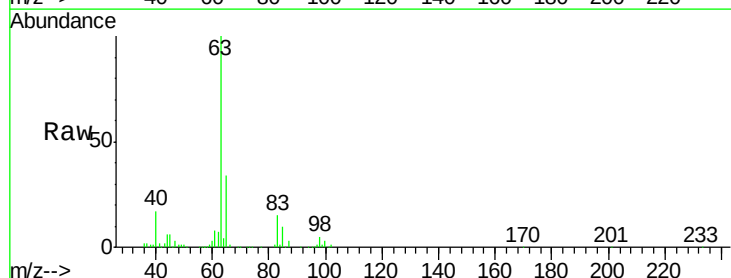
Tgt Ion: 63 Resp: 215286

Ion Ratio Lower Upper

63 100

98 5.3 2.7 8.1

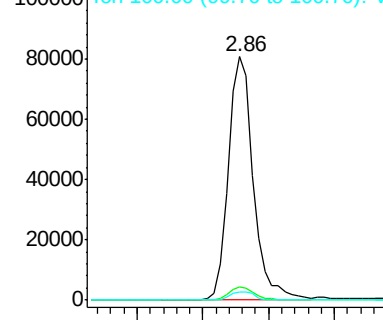
100 3.4 1.7 5.1



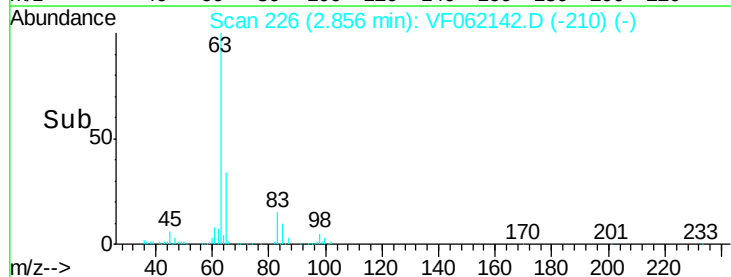
Abundance Ion 63.00 (62.70 to 63.70): VF0

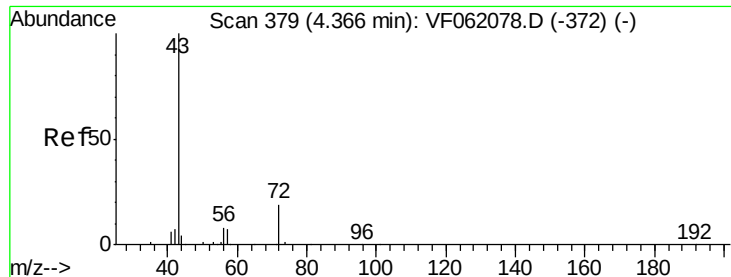
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#25

2-Butanone

Concen: 254.832 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 220703

Ion Ratio Lower Upper

43 100

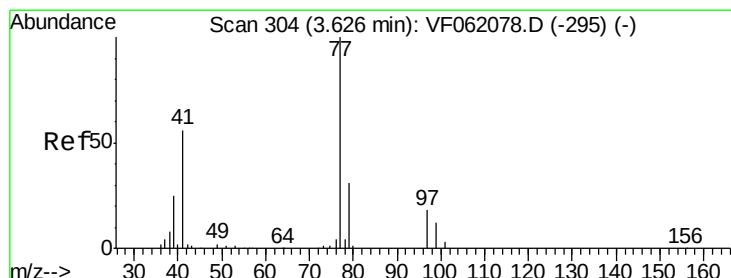
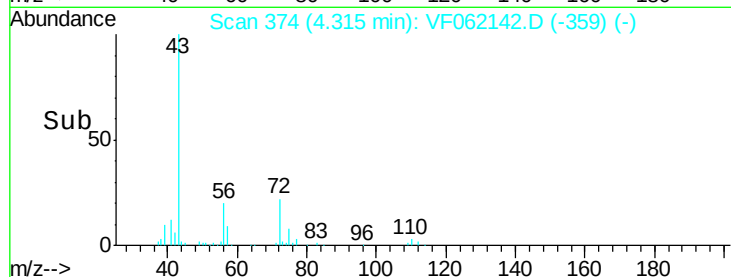
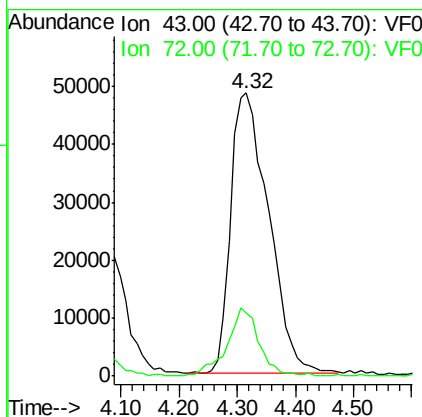
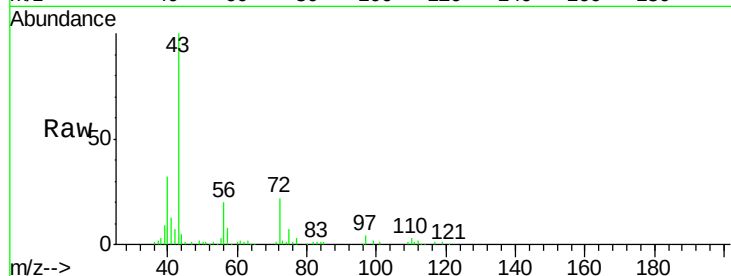
72 22.4 16.7 25.1

Manual Integrations

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MMDadoda

3/27/2019 12:01:39 PM



#26

2,2-Dichloropropane

Concen: 53.385 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.05 min

Lab File: VF062142.D

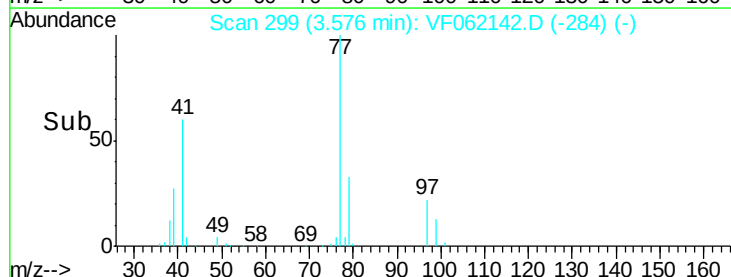
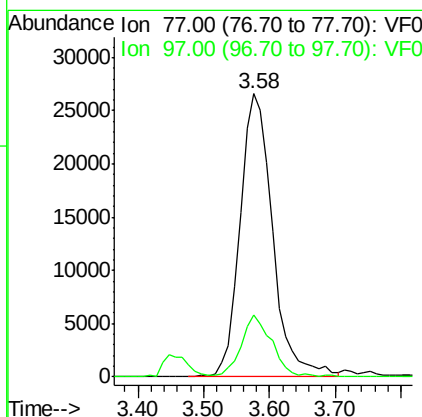
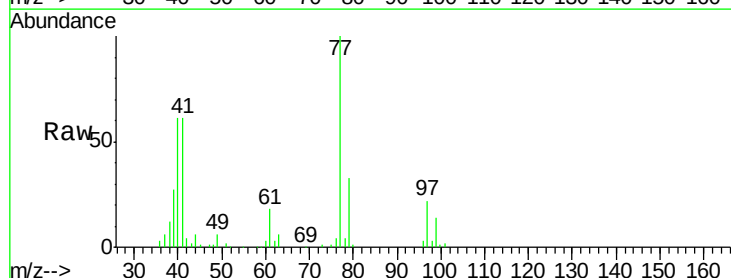
Acq: 26 Mar 2019 13:05

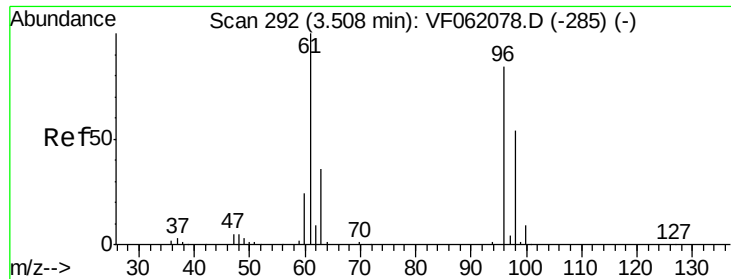
Tgt Ion: 77 Resp: 92814

Ion Ratio Lower Upper

77 100

97 21.9 10.3 30.9





#27

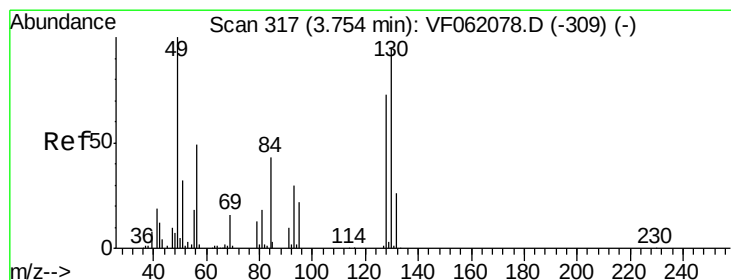
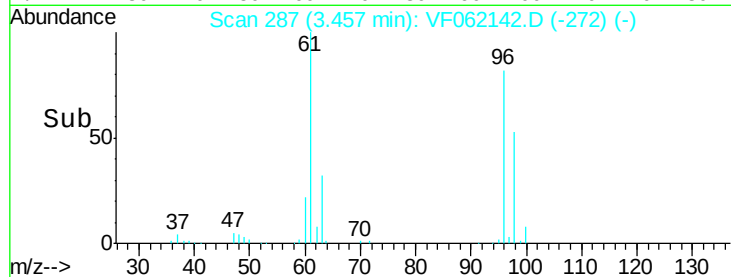
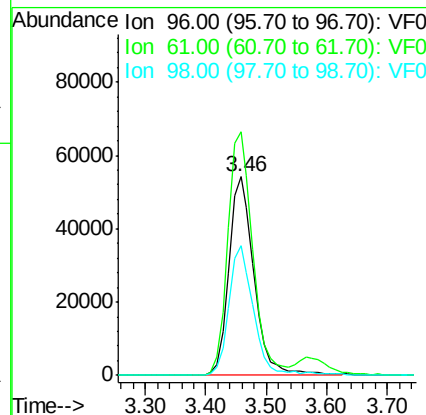
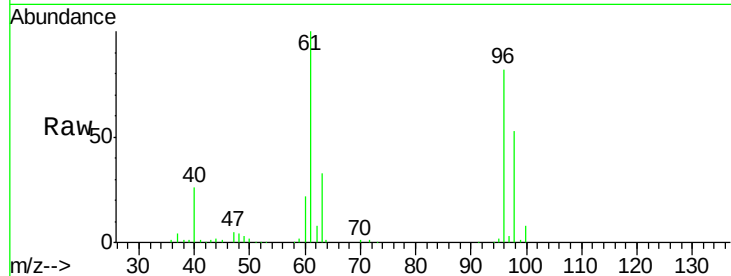
cis-1,2-Dichloroethene
Concen: 47.907 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	122.5	0.0	239.0	
98	65.3	0.0	128.2	

Manual Integrations
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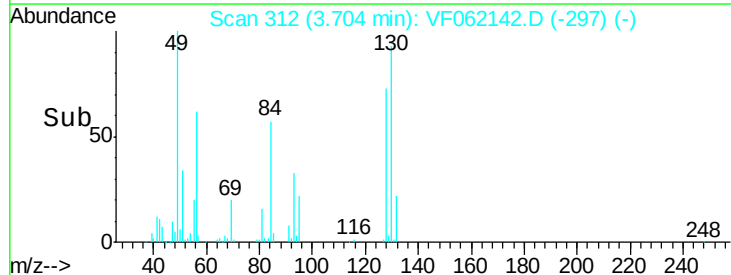
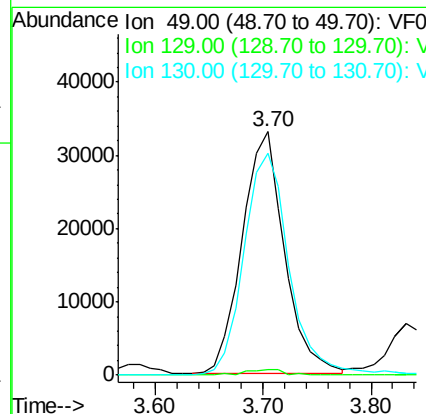
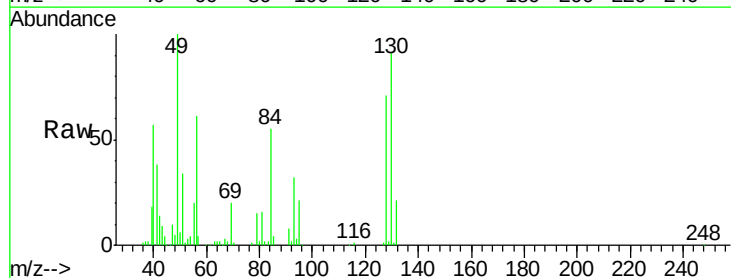
MMDadoda
3/27/2019 12:01:39 PM

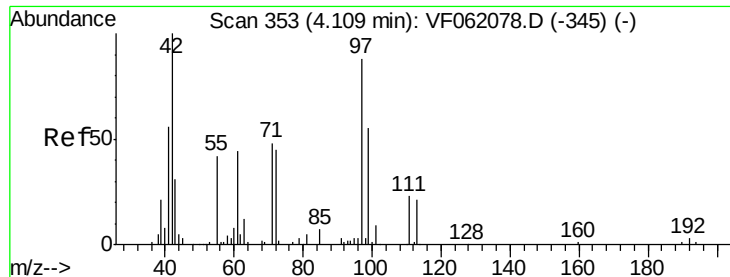


#28

Bromochloromethane
Concen: 51.789 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.5	0.0	5.6	
130	91.3	75.5	113.3	





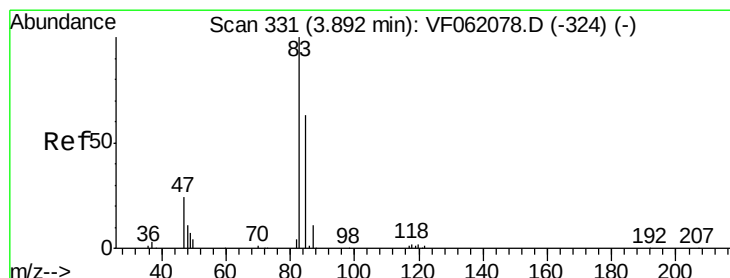
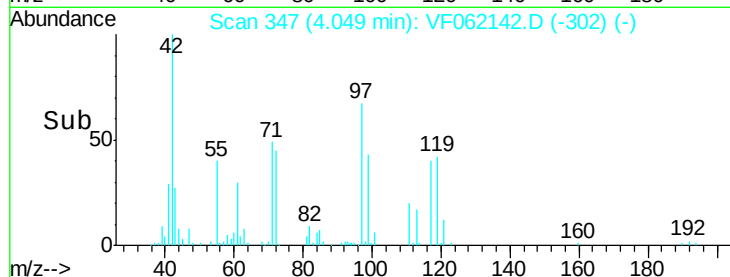
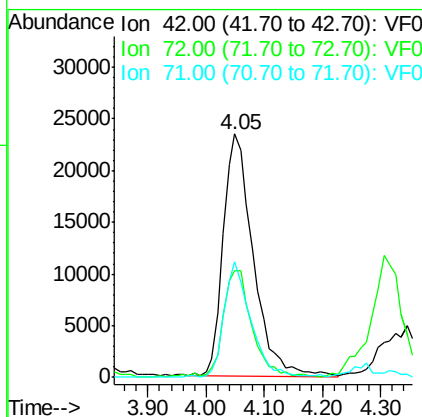
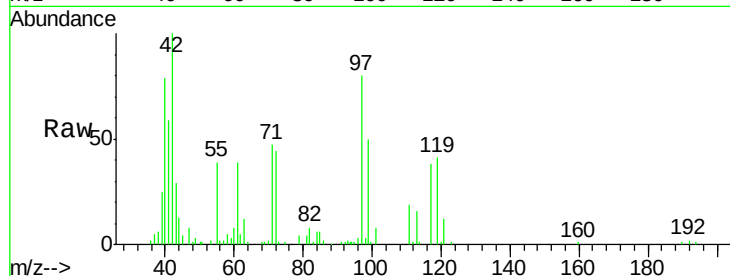
#29
Tetrahydrofuran
Concen: 221.697 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.06 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.7	33.3	49.9
71	43.2	35.0	52.4

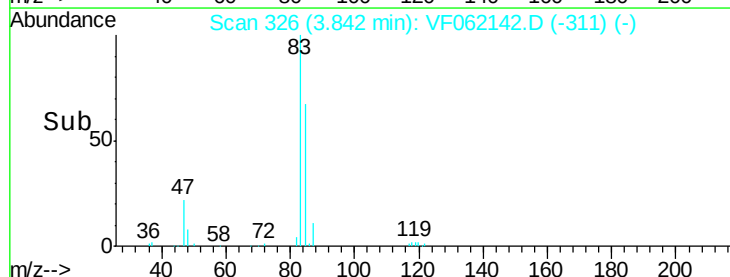
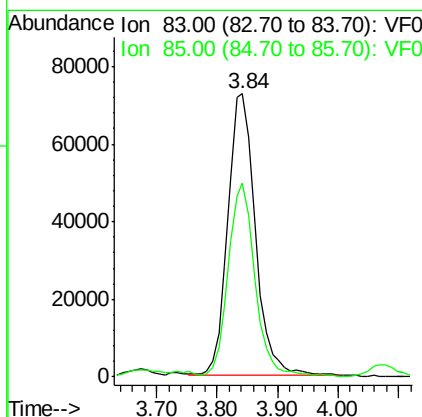
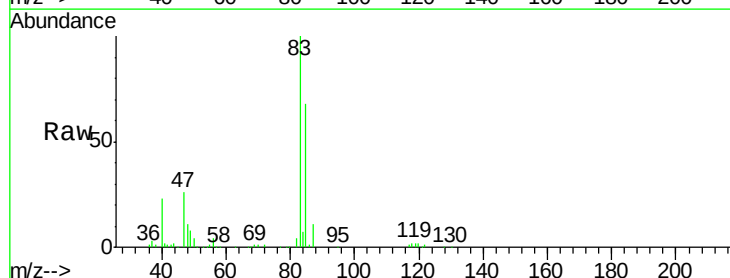
Manual Integrations
APPROVED

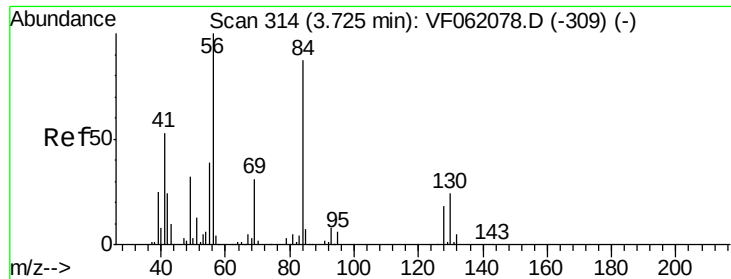
MMDadoda
3/27/2019 12:01:39 PM



#30
Chloroform
Concen: 50.460 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.2	51.5	77.3





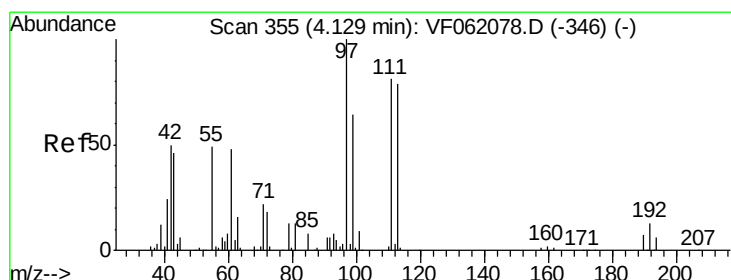
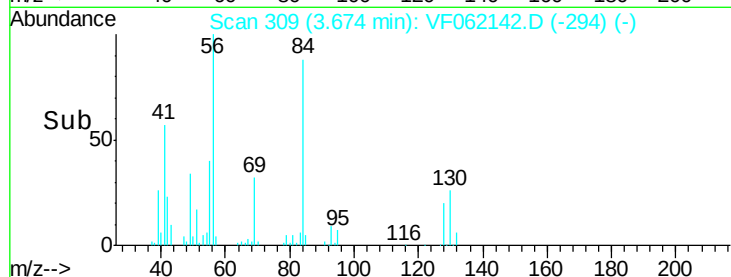
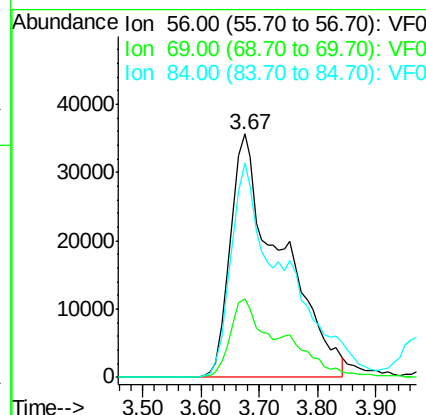
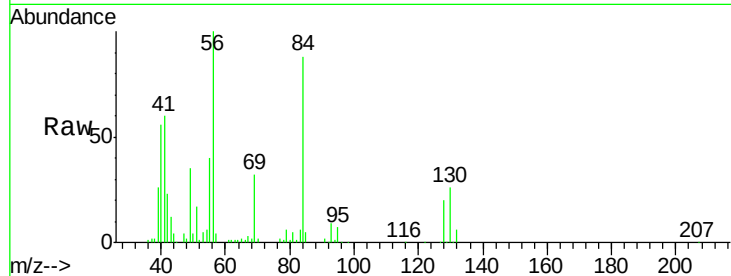
#31
Cyclohexane
Concen: 47.983 ug/l
RT: 3.67 min Scan# 309
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.1	25.9	38.9
84	87.9	71.1	106.7

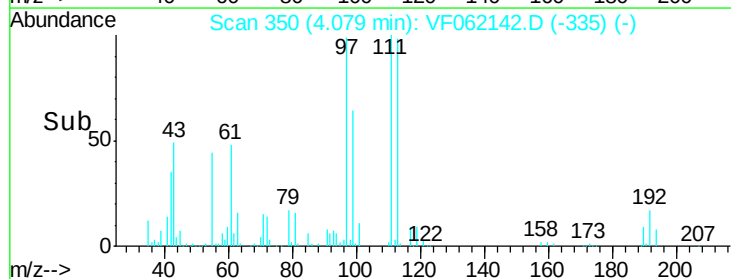
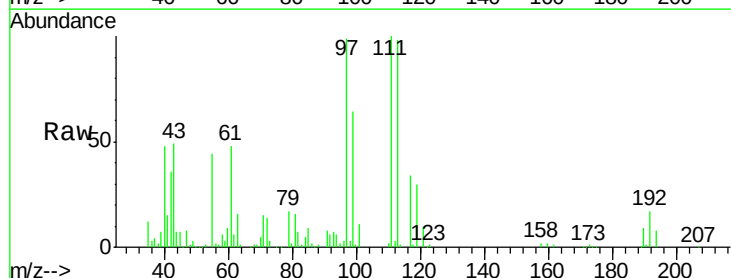
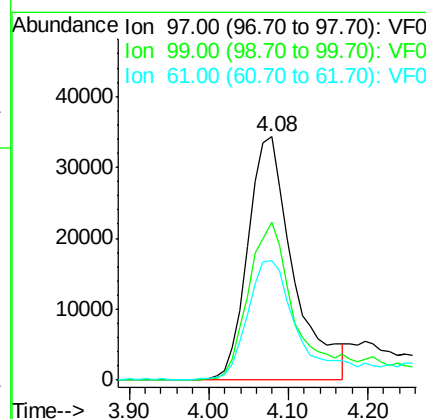
Manual Integrations
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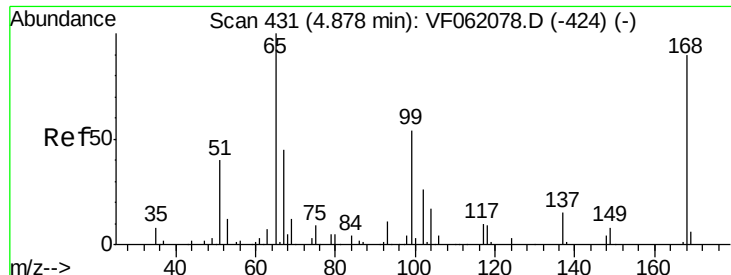
MMDadoda
3/27/2019 12:01:39 PM



#32
1,1,1-Trichloroethane
Concen: 49.287 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.3	76.9
61	49.0	39.0	58.6





#33

1,2-Dichloroethane-d4

Concen: 49.163 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.06 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tot Ion: 65 Resp: 96907

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.2

Instrument :

MSVOA_F

ClientSampleId :

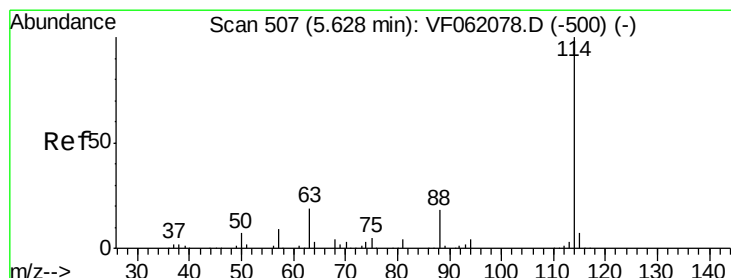
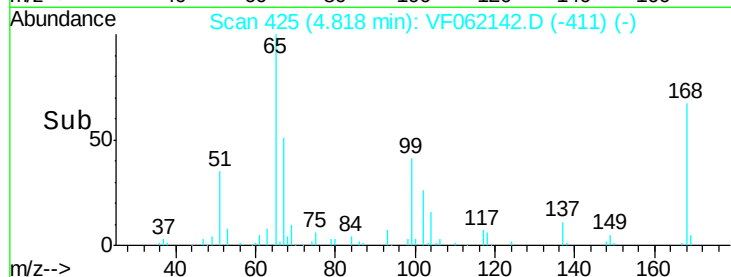
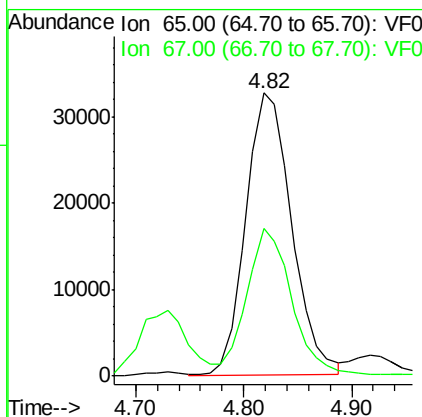
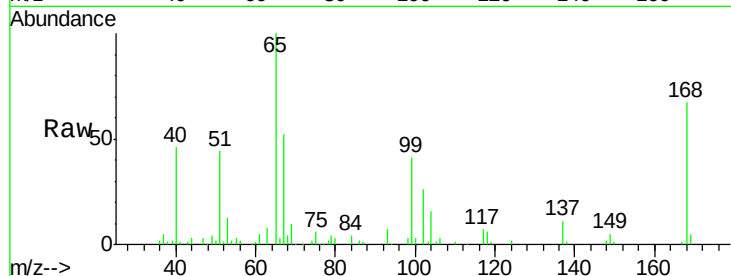
VSTDCCC050

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

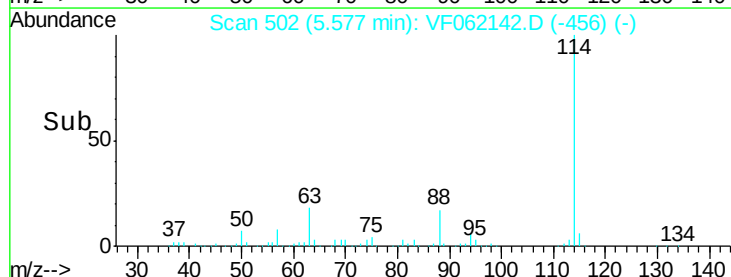
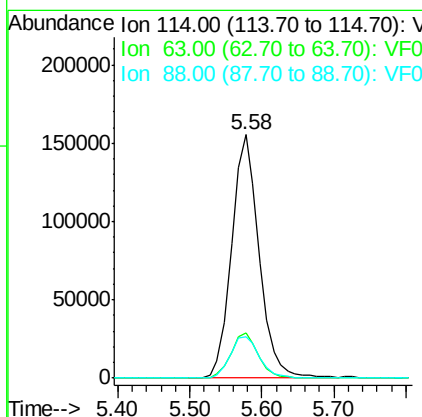
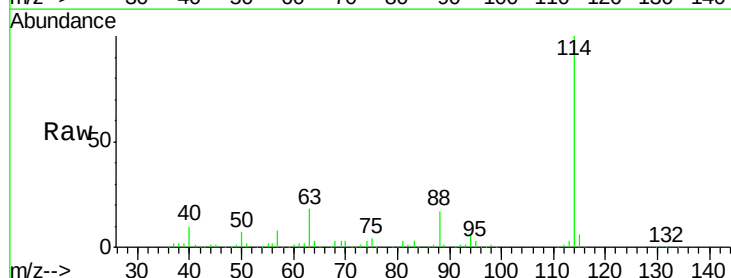
Tgt Ion: 114 Resp: 414300

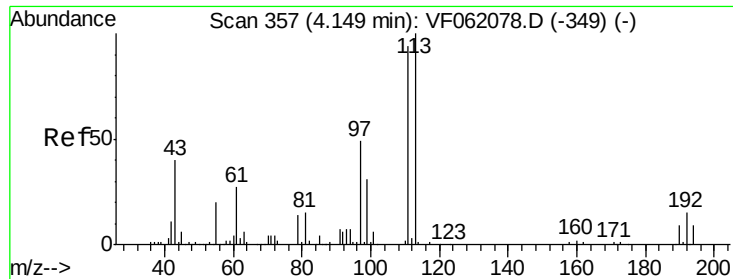
Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.8

88 16.9 0.0 36.4





#35

Dibromofluoromethane

Concen: 48.484 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 113 Resp: 135880

Ion Ratio Lower Upper

113 100

111 98.0 75.4 113.0

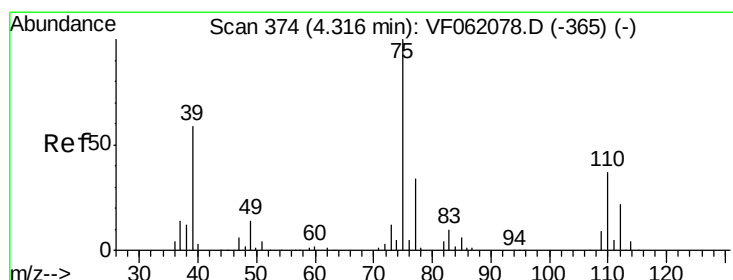
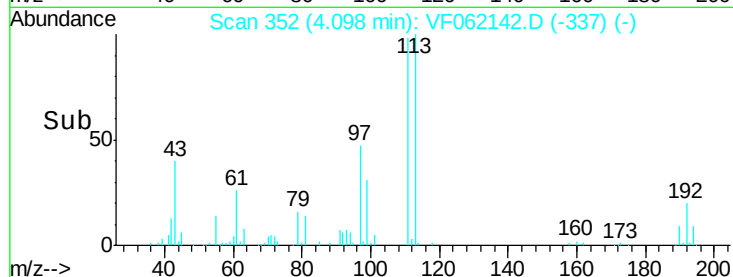
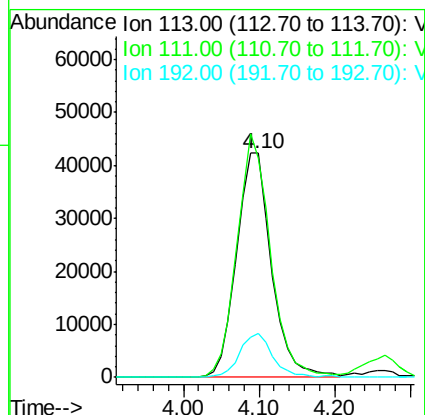
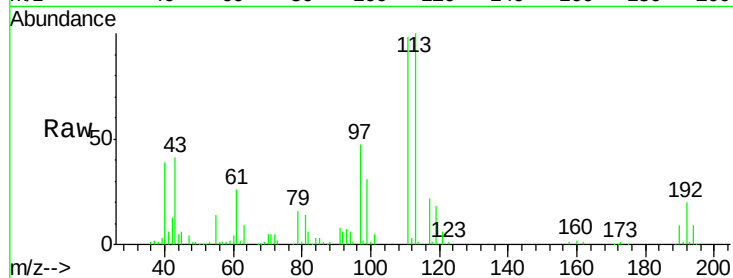
192 19.5 12.3 18.5#

Manual Integrations

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#36

1,1-Dichloropropene

Concen: 48.028 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.06 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

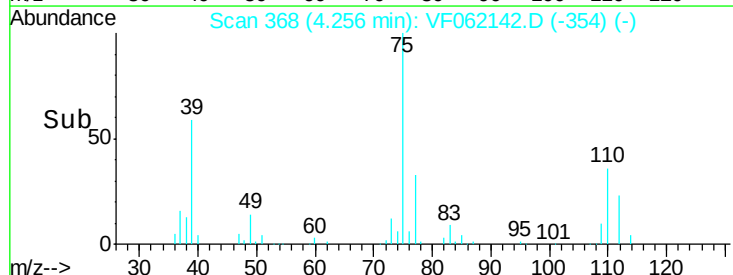
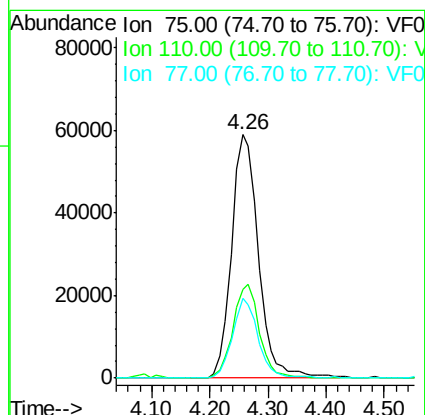
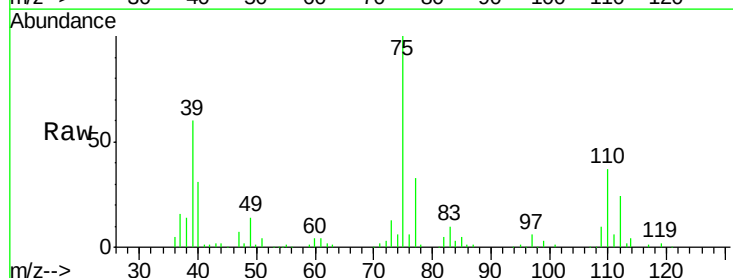
Tgt Ion: 75 Resp: 189530

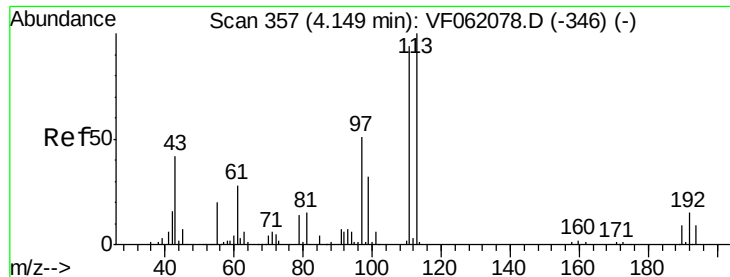
Ion Ratio Lower Upper

75 100

110 36.6 18.5 55.5

77 32.8 27.4 41.0





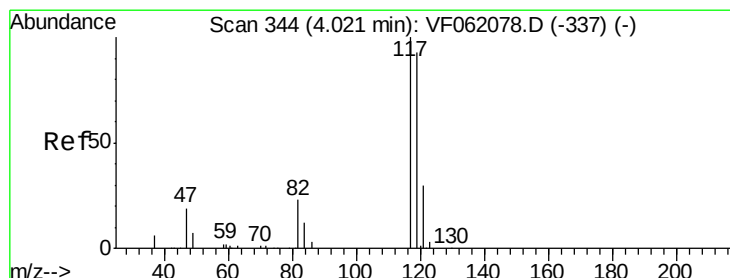
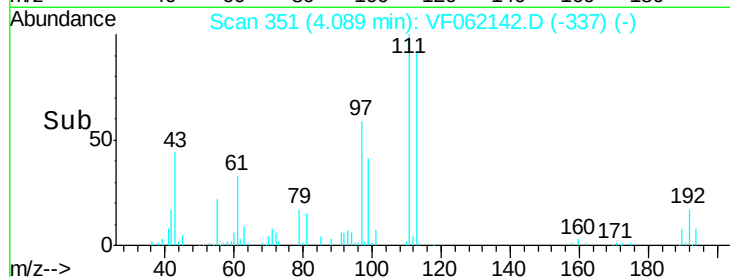
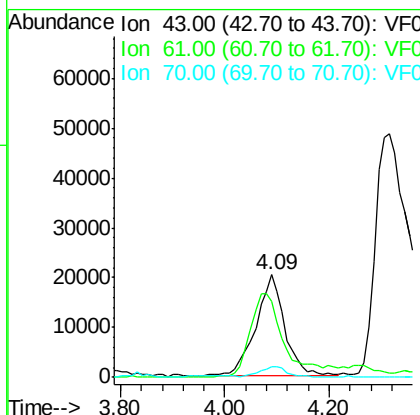
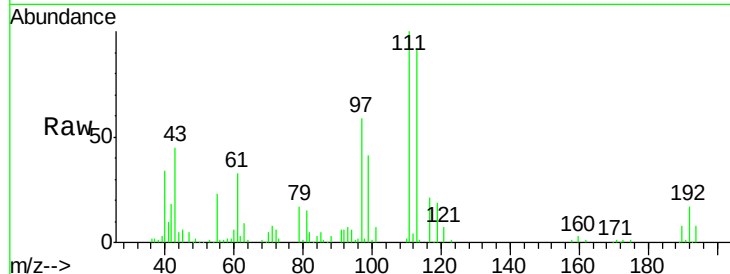
#37
Ethyl Acetate
Concen: 45.076 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.06 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	Resp	77739
Ion Ratio	100	Lower	Upper
43	100		
61	74.7	53.6	80.4
70	10.9	9.0	13.6

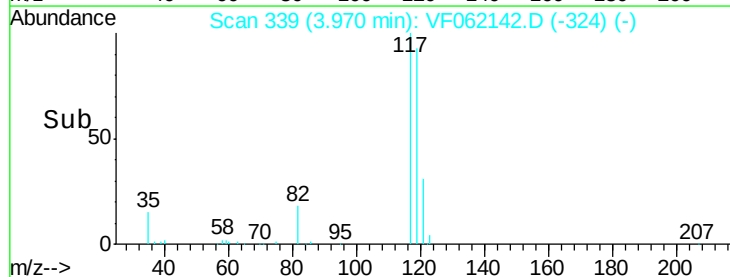
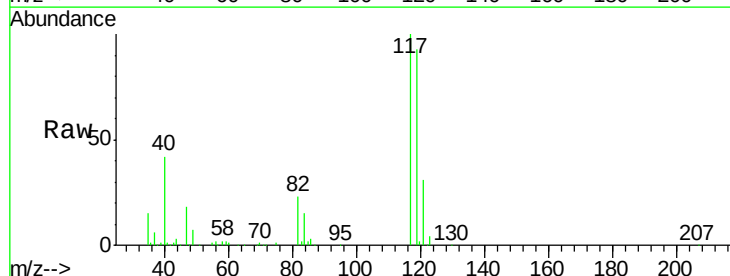
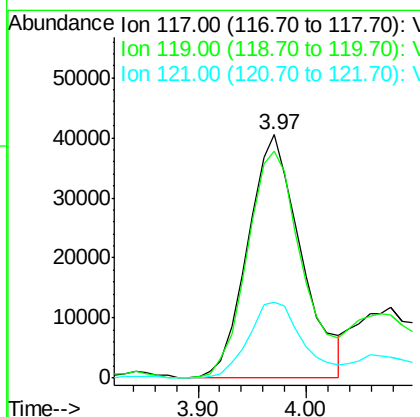
Manual Integrations
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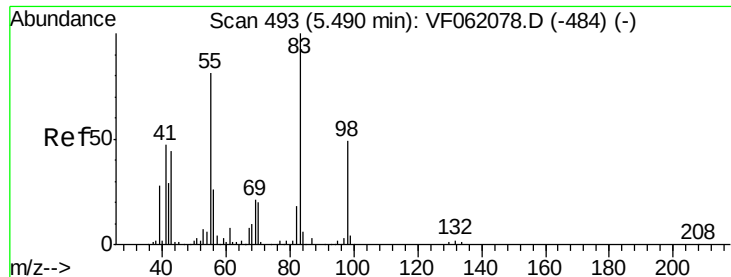
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#38
Carbon Tetrachloride
Concen: 51.990 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	117	Resp	139832
Ion Ratio	100	Lower	Upper
117	100		
119	93.3	74.7	112.1
121	31.2	23.6	35.4





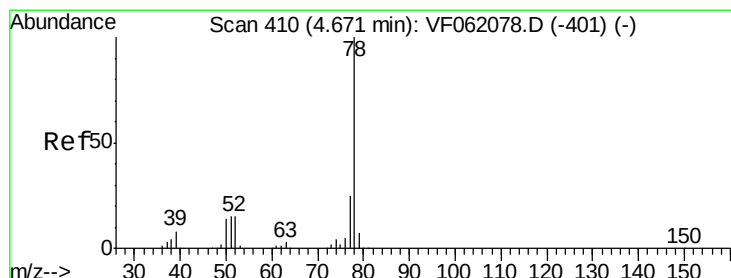
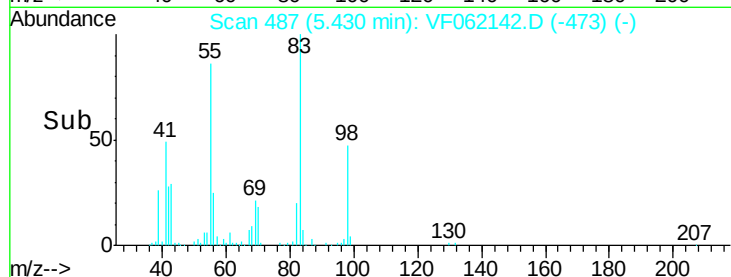
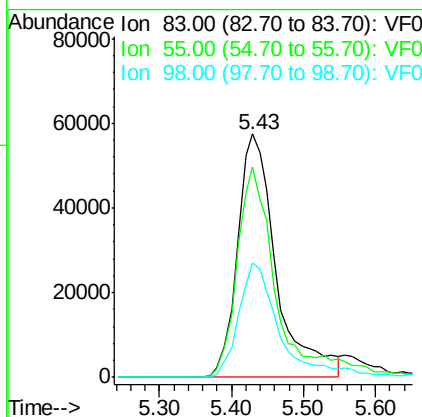
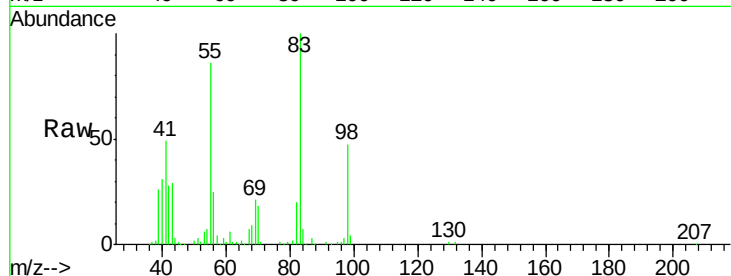
#39
Methylvlcyclohexane
Concen: 47.155 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.06 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	86.3	64.5	96.7	
98	47.1	39.1	58.7	

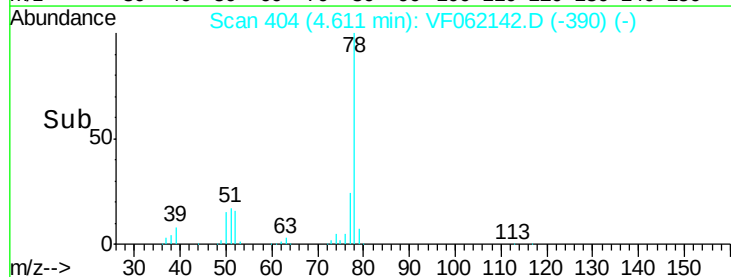
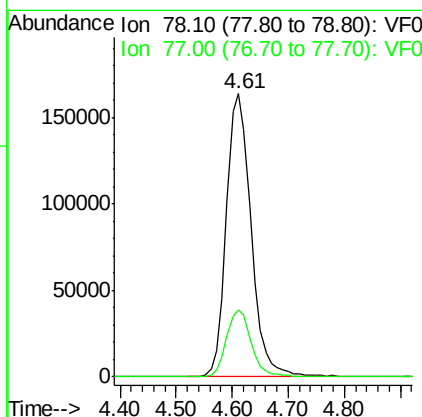
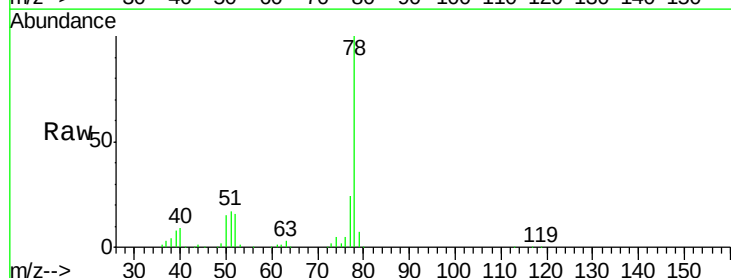
Manual Integrations
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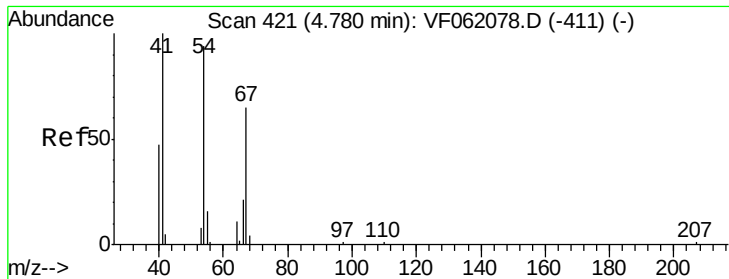
MMDadoda
3/27/2019 12:01:39 PM



#40
Benzene
Concen: 47.657 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.06 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.9	19.8	29.6	





#41

Methacrylonitrile

Concen: 43.752 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

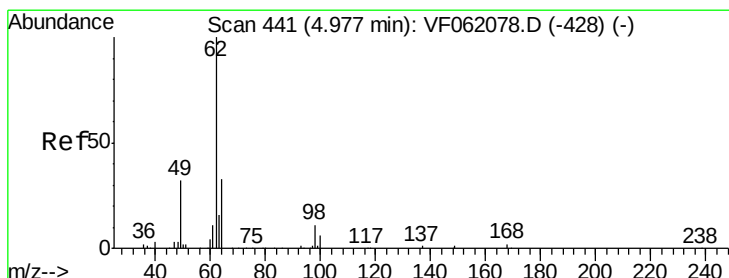
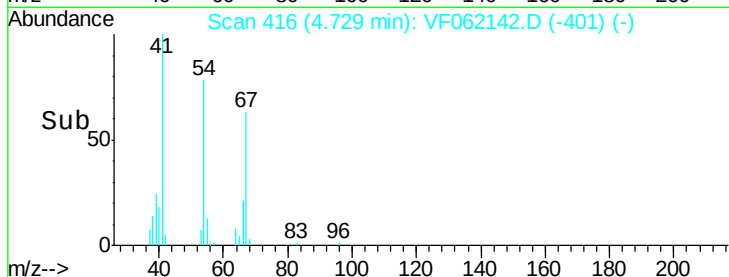
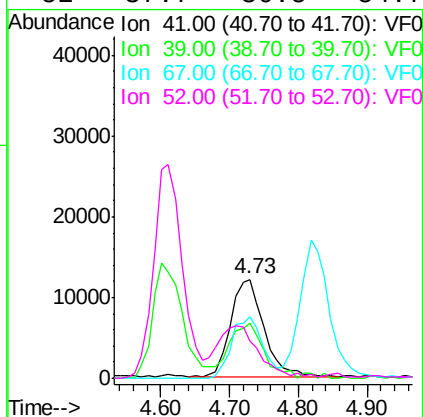
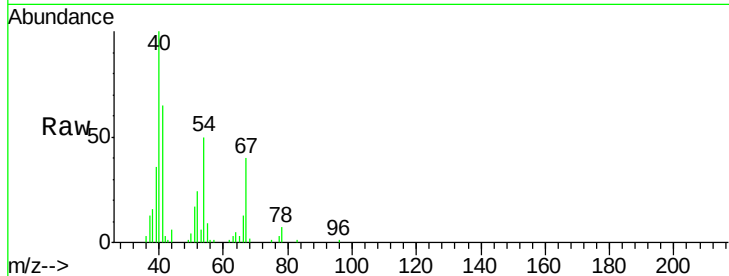
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
39924	41	100		
	39	56.2	43.5	65.3
	67	62.0	51.6	77.4
	52	37.7	36.5	54.7

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 50.732 ug/l

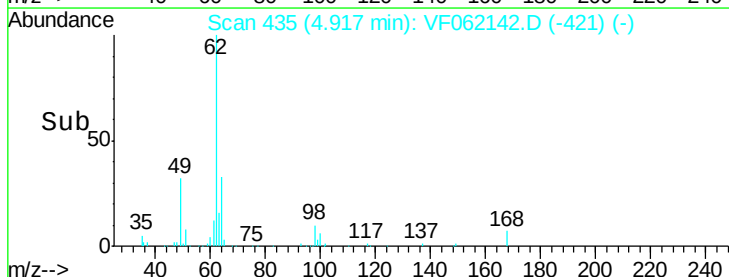
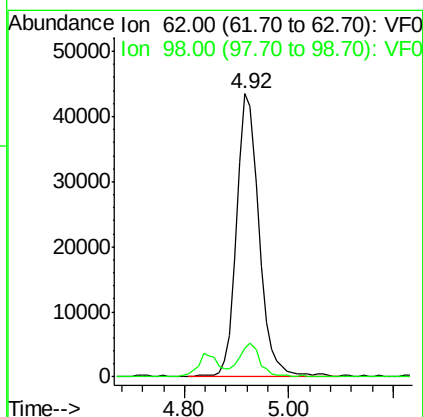
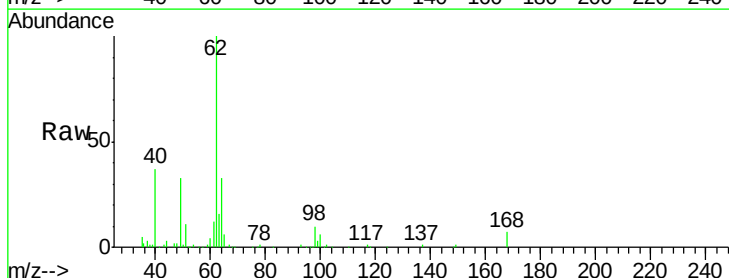
RT: 4.92 min Scan# 435

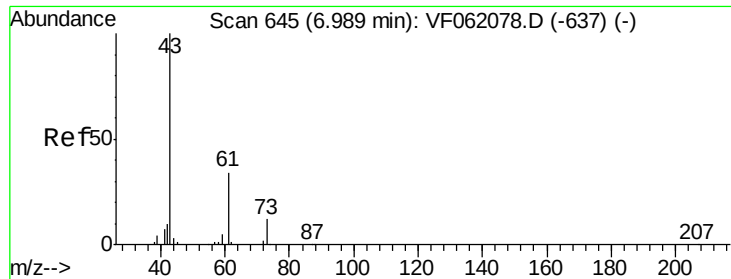
Delta R.T. -0.06 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion	Ion	Ratio	Lower	Upper
126916	62	100		
	98	10.1	0.0	23.2





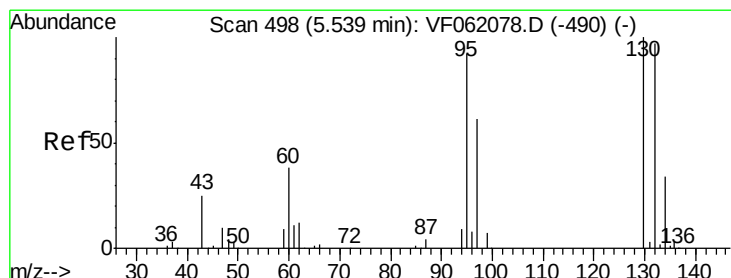
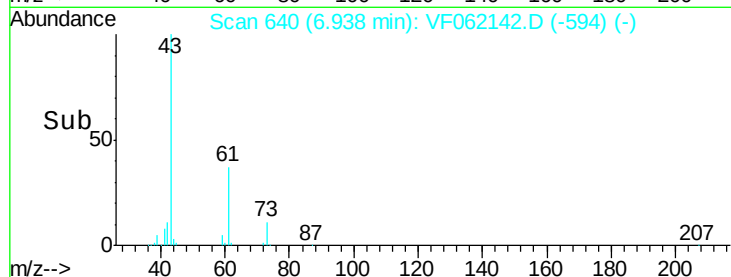
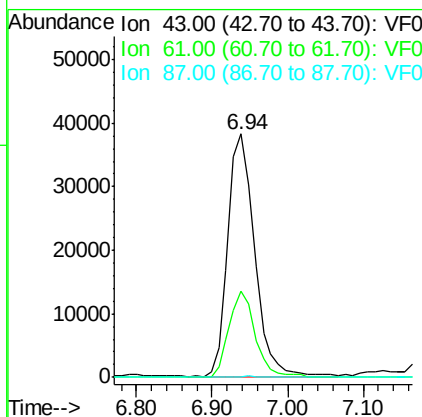
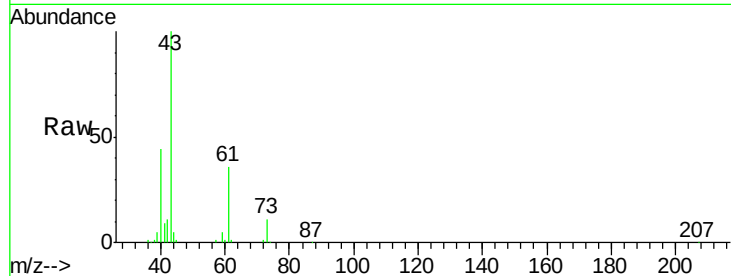
#43
Isopropyl Acetate
Concen: 45.486 ug/l
RT: 6.94 min Scan# 640
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.6	27.0	40.4
87	0.4	0.4	0.6

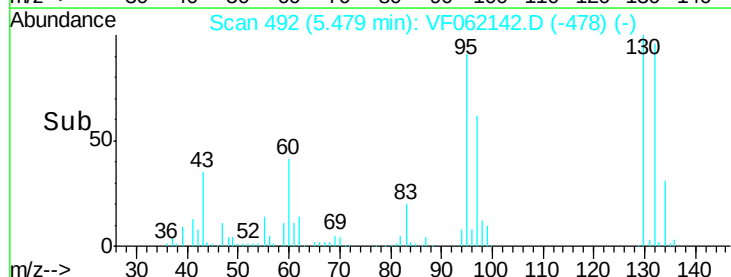
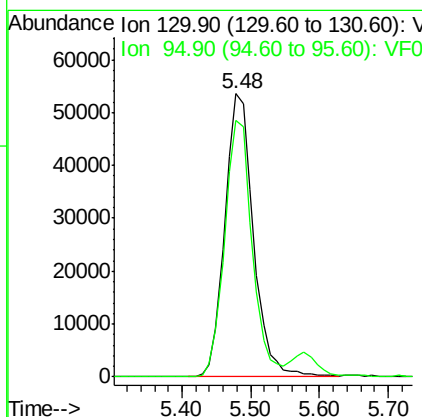
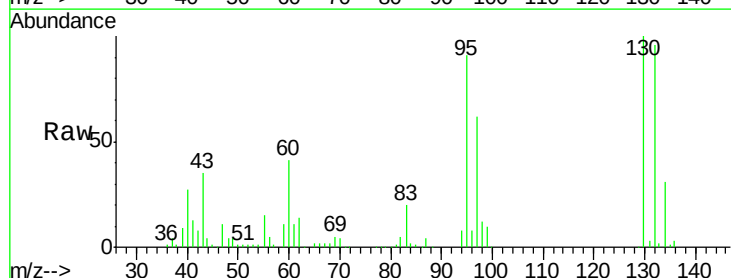
Manual Integrations
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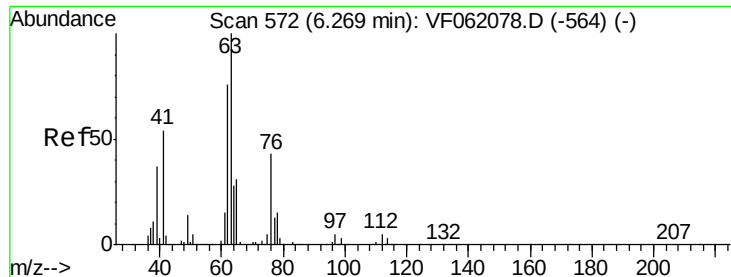
MMDadoda
3/27/2019 12:01:39 PM



#44
Trichloroethene
Concen: 47.596 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.06 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.6	0.0	183.4





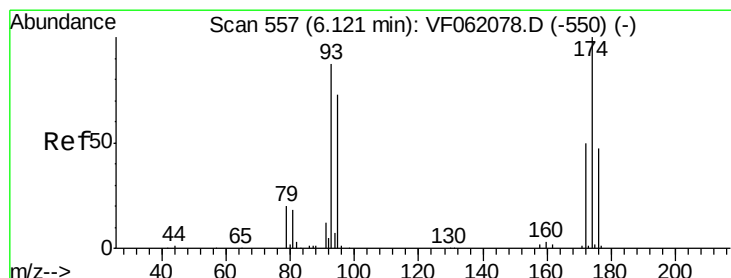
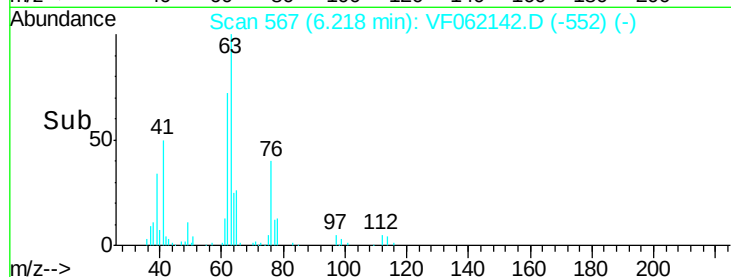
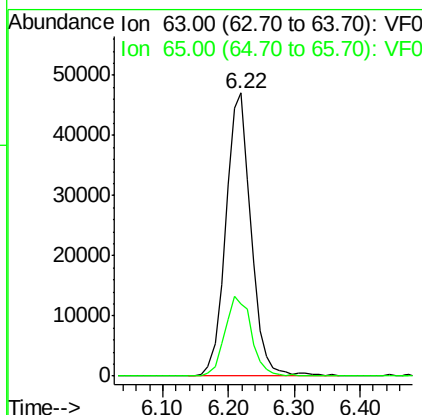
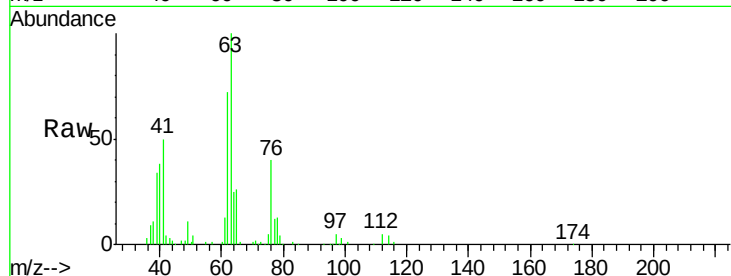
#45
 1,2-Dichloropropane
 Concen: 50.038 ug/l
 RT: 6.22 min Scan# 567
 Delta R.T. -0.05 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	25.6	24.9	37.3

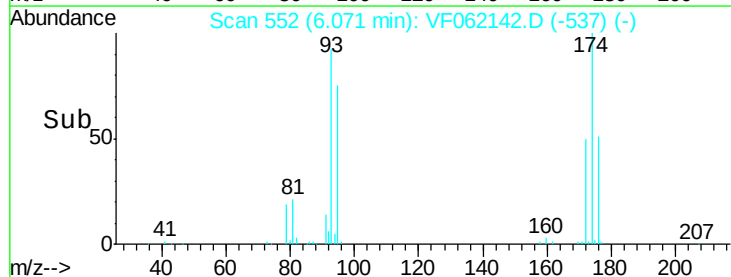
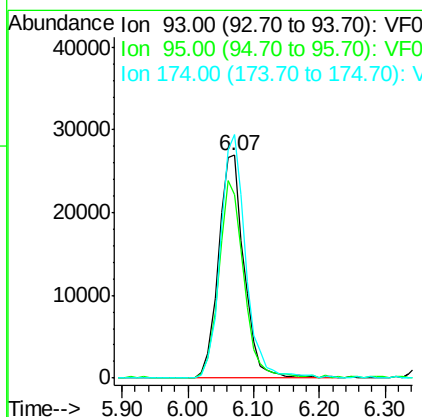
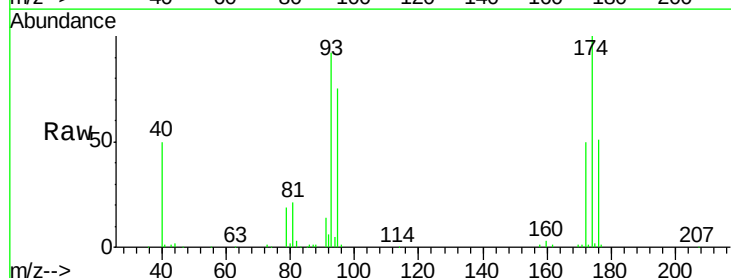
Manual Integrations
 APPROVED

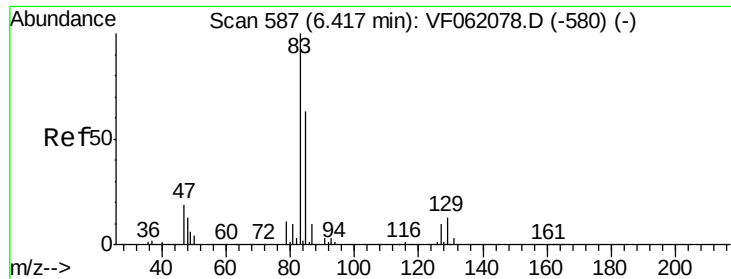
MMDadoda
 3/27/2019 12:01:39 PM



#46
 Dibromomethane
 Concen: 47.336 ug/l
 RT: 6.07 min Scan# 552
 Delta R.T. -0.05 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.4	67.4	101.2
174	109.3	92.0	138.0





#47

Bromodichloromethane

Concen: 47.610 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

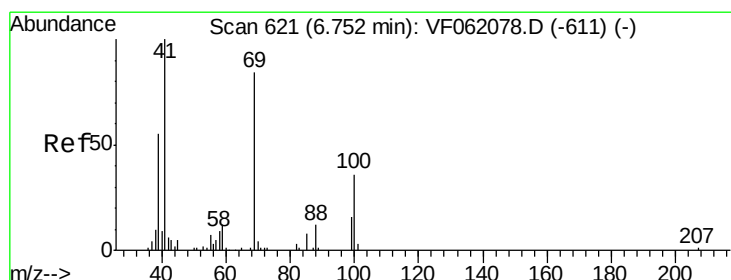
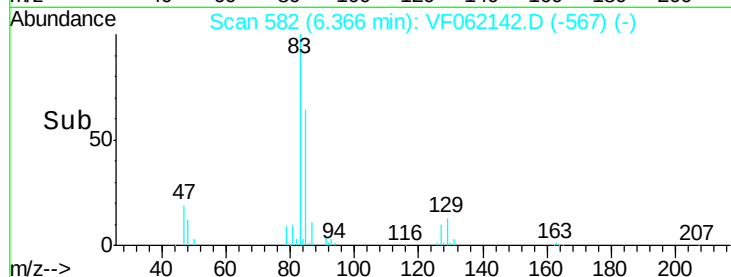
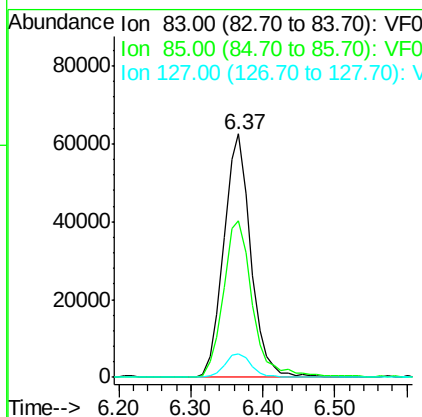
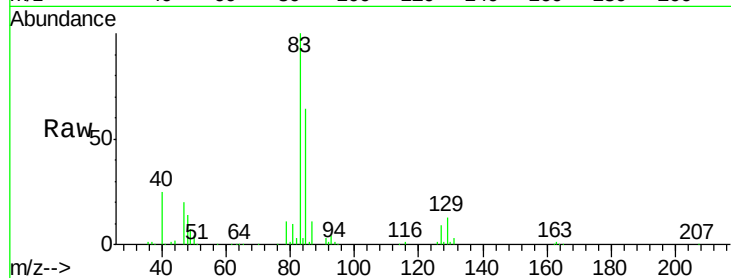
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	162695
Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.7	76.1
127	9.5	7.8	11.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 45.961 ug/l

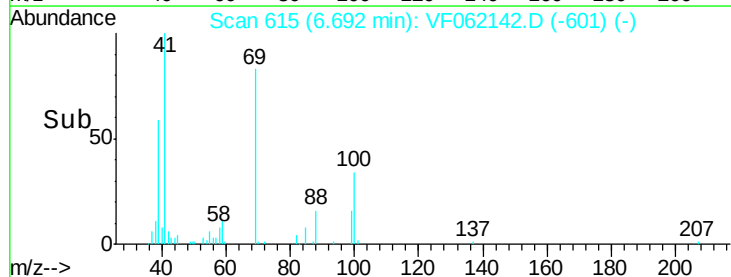
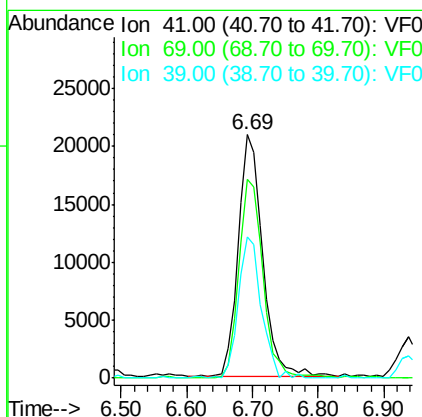
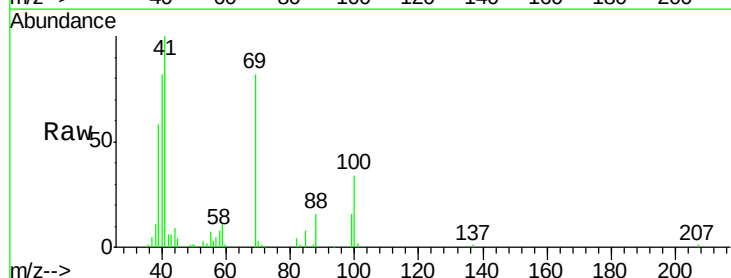
RT: 6.69 min Scan# 615

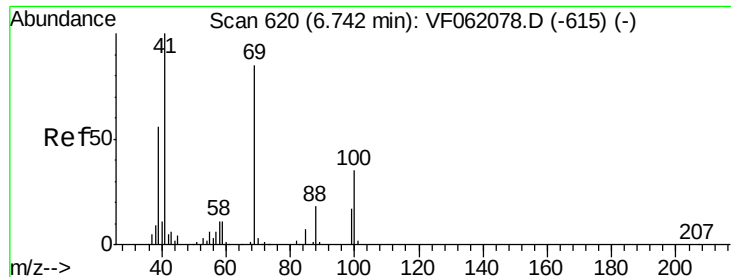
Delta R.T. -0.06 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion:	41	Resp:	54656
Ion	Ratio	Lower	Upper
41	100		
69	81.9	66.6	100.0
39	57.9	43.6	65.4





#49

1,4-Dioxane

Concen: 993.802 ug/l

RT: 6.68 min Scan# 614

Delta R.T. -0.06 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

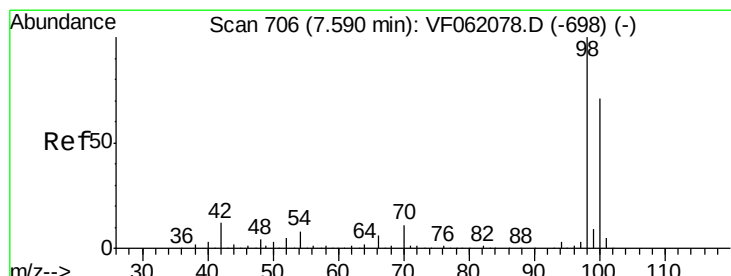
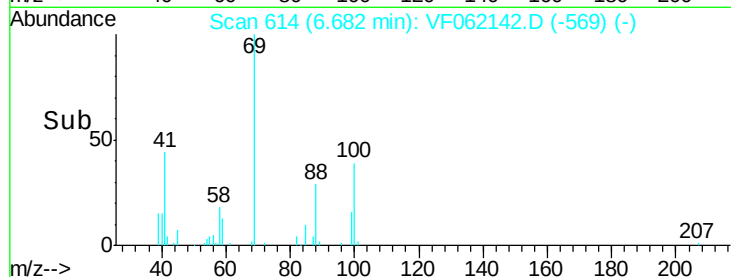
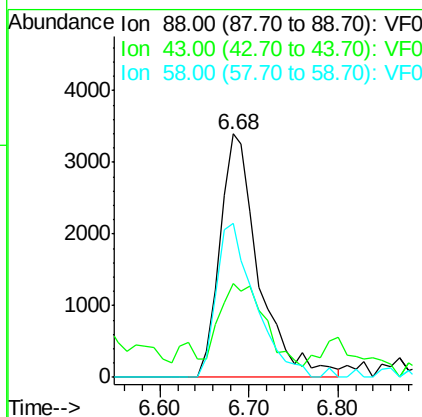
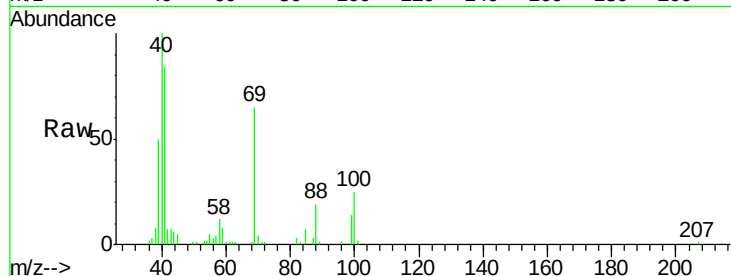
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	10370
Ion	Ratio	Lower	Upper
88	100		
43	38.7	35.0	52.4
58	63.3	49.9	74.9

Manual Integrations
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#50

Toluene-d8

Concen: 48.745 ug/l

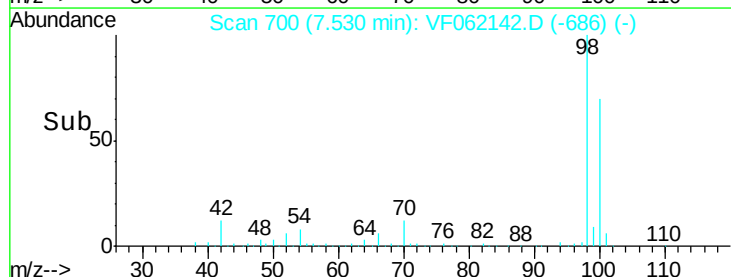
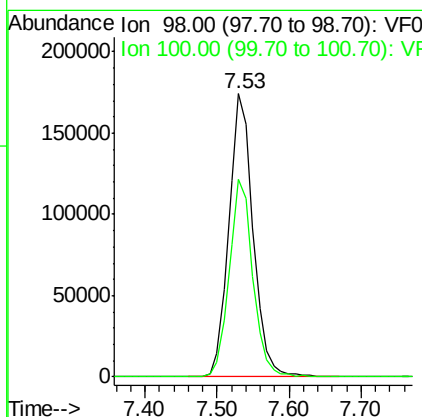
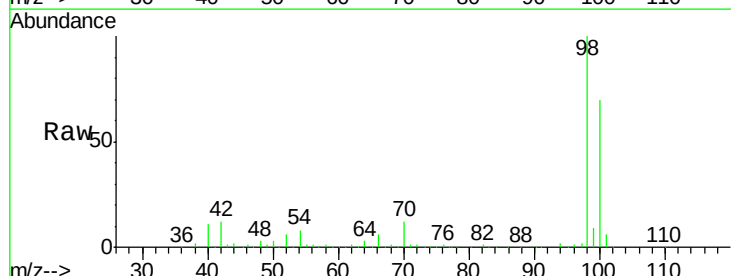
RT: 7.53 min Scan# 700

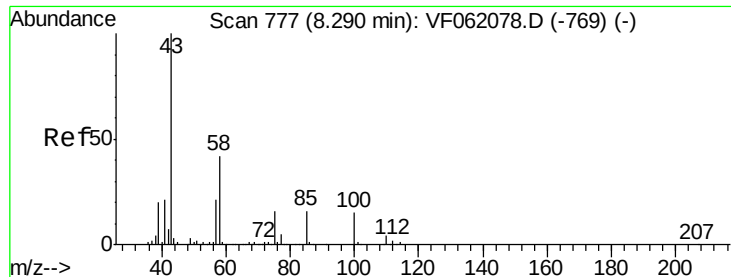
Delta R.T. -0.06 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion:	98	Resp:	407784
Ion	Ratio	Lower	Upper
98	100		
100	69.7	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 238.510 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 333417

Ion Ratio Lower Upper

43 100

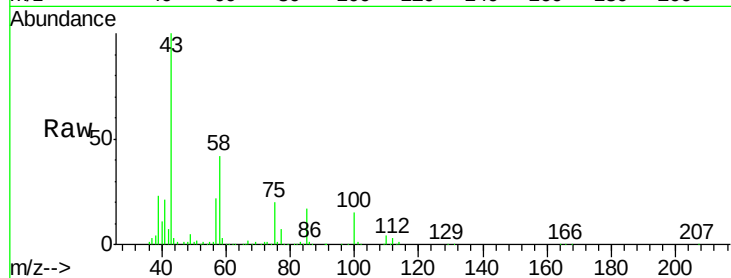
58 41.8 33.8 50.8

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

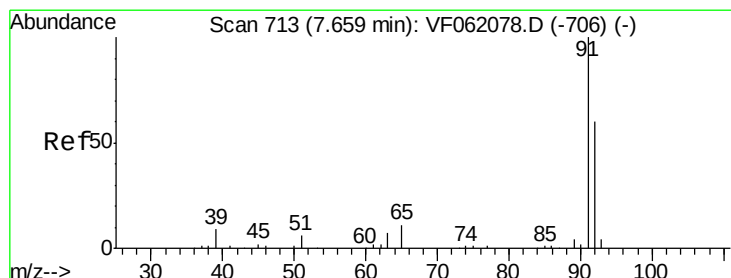
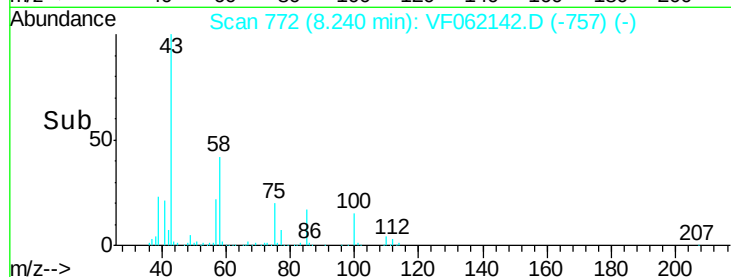
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 49.923 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.06 min

Lab File: VF062142.D

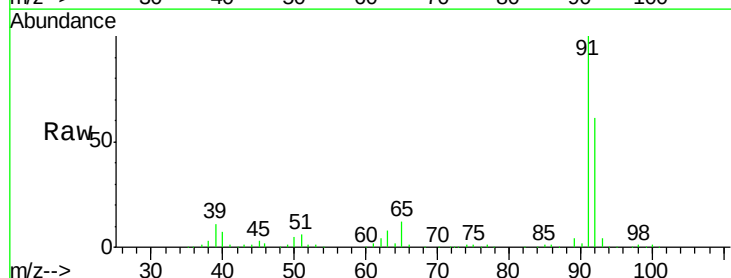
Acq: 26 Mar 2019 13:05

Tgt Ion: 92 Resp: 305901

Ion Ratio Lower Upper

92 100

91 163.7 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.60

200000

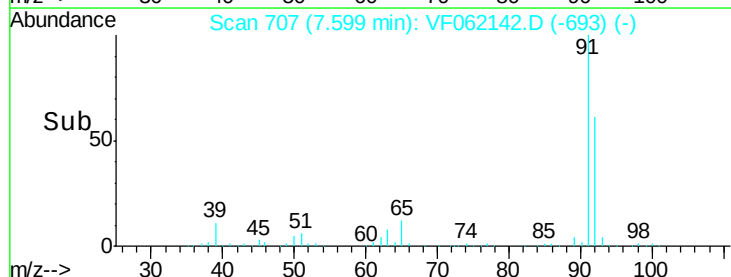
150000

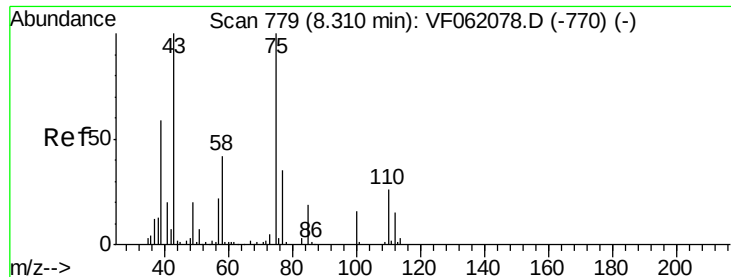
100000

50000

0

Time-->





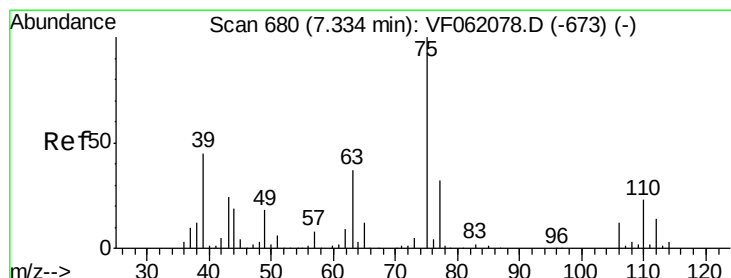
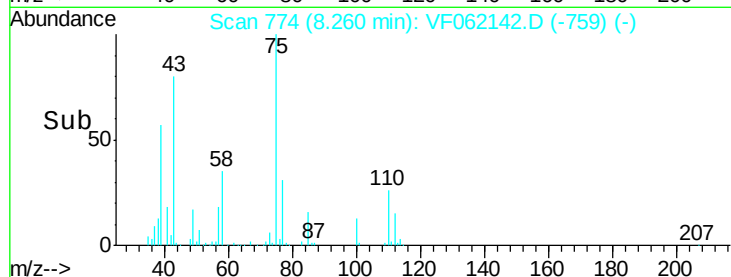
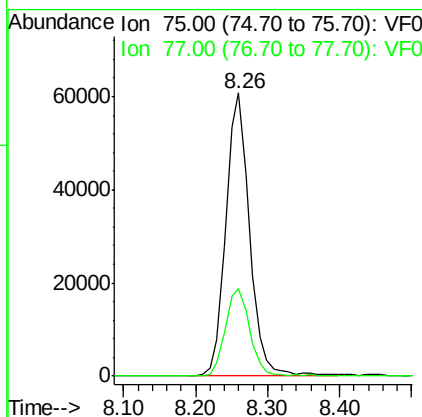
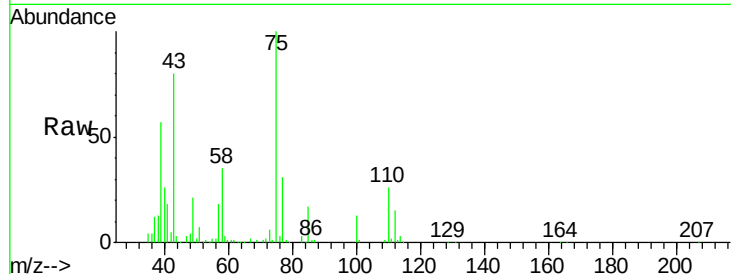
#53
t-1,3-Dichloropropene
Concen: 51.901 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	28.0	42.0

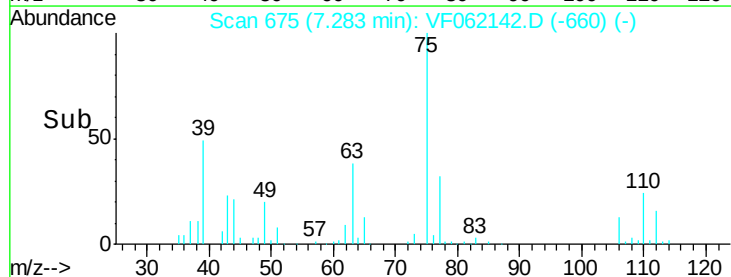
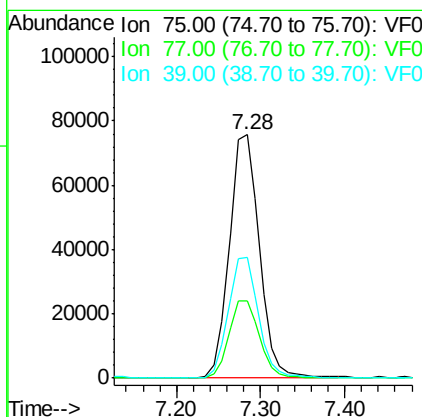
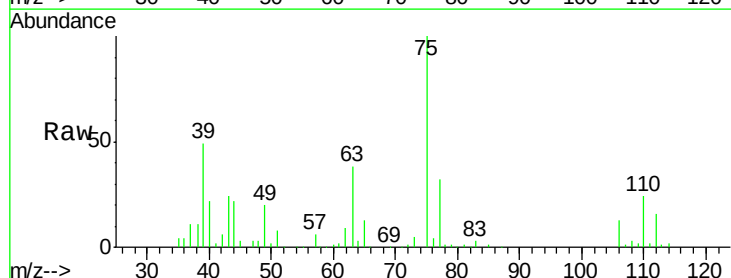
Manual Integrations
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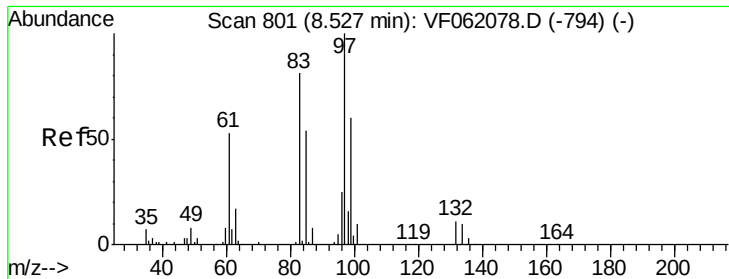
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 49.036 ug/l
RT: 7.28 min Scan# 675
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.8	38.6
39	49.5	35.9	53.9





#55

1,1,2-Trichloroethane

Concen: 47.669 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.06 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

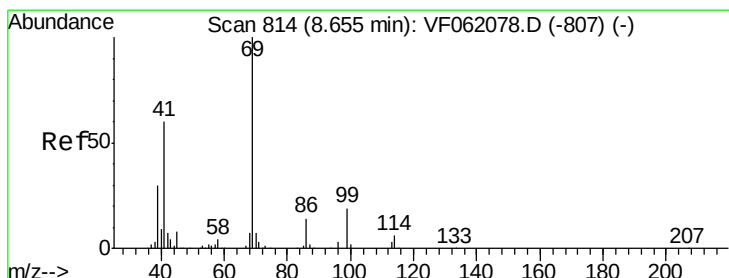
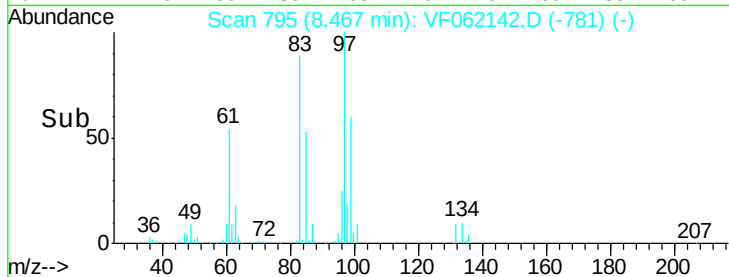
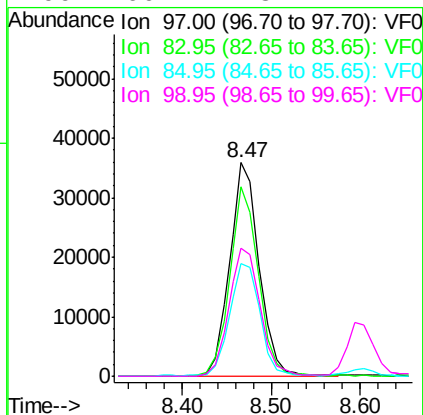
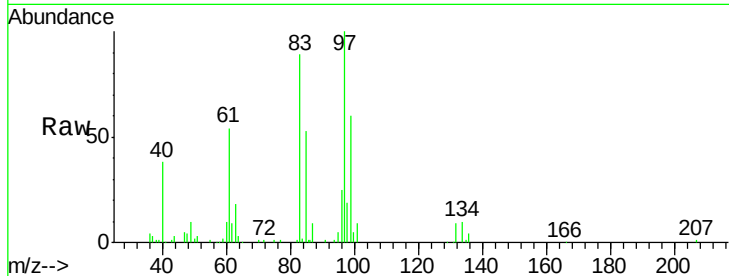
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	82966
Ion	Ratio	Lower	Upper
97	100		
83	88.6	64.6	97.0
85	52.9	43.6	65.4
99	60.1	48.2	72.2

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#56

Ethyl methacrylate

Concen: 46.512 ug/l

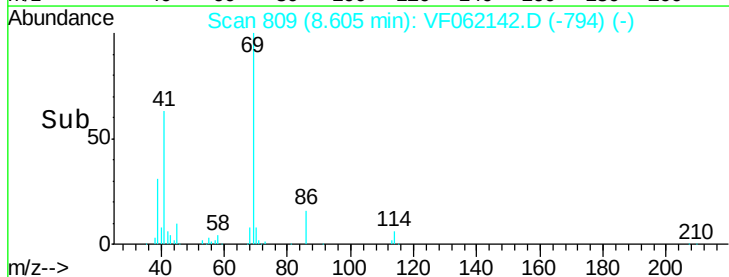
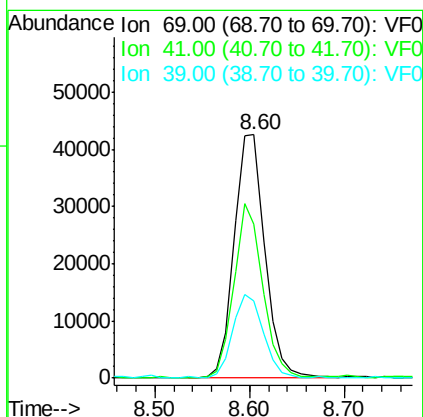
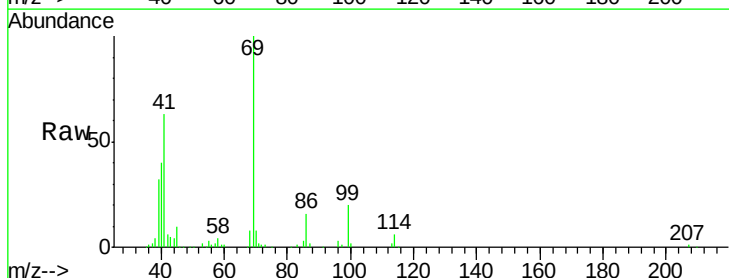
RT: 8.60 min Scan# 809

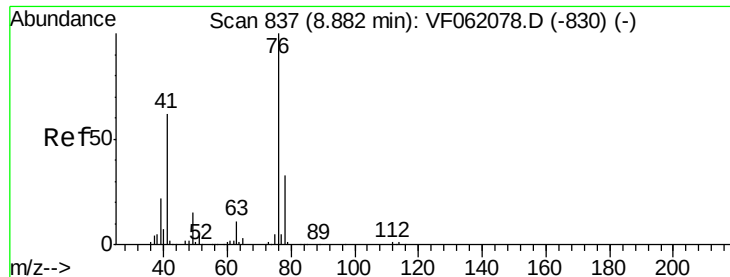
Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion:	69	Resp:	96546
Ion	Ratio	Lower	Upper
69	100		
41	63.2	48.2	72.2
39	32.0	24.0	36.0





#57

1,3-Dichloropropane

Concen: 49.968 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 144340

Ion Ratio Lower Upper

76 100

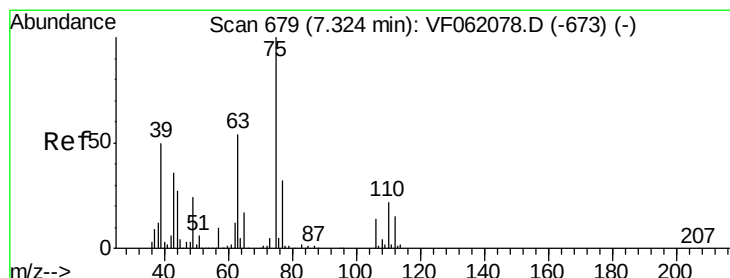
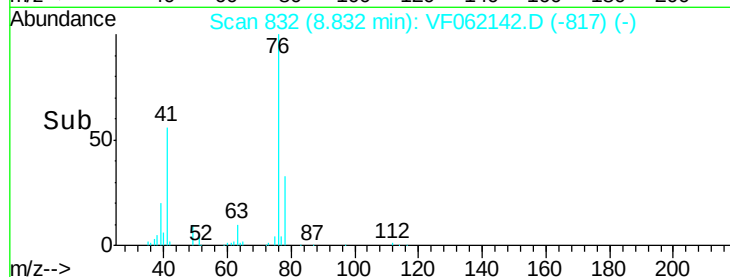
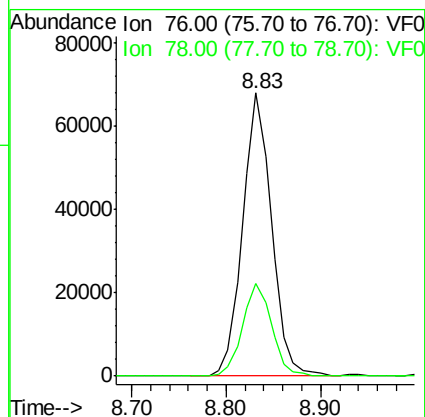
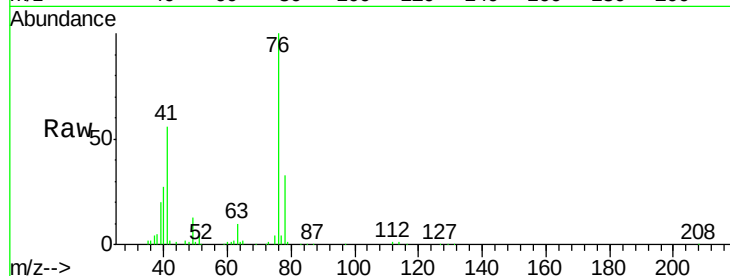
78 32.8 26.6 39.8

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#58

2-Chloroethyl Vinyl ether

Concen: 251.457 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.05 min

Lab File: VF062142.D

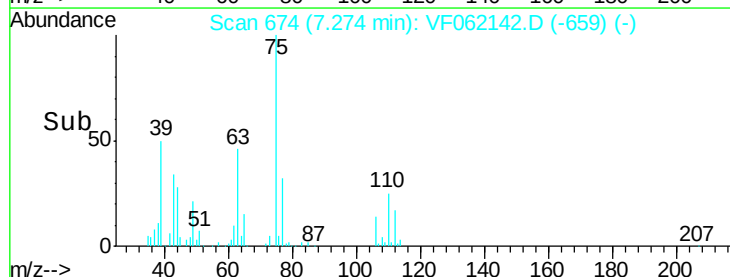
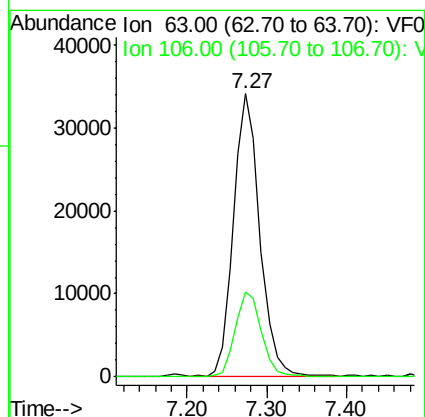
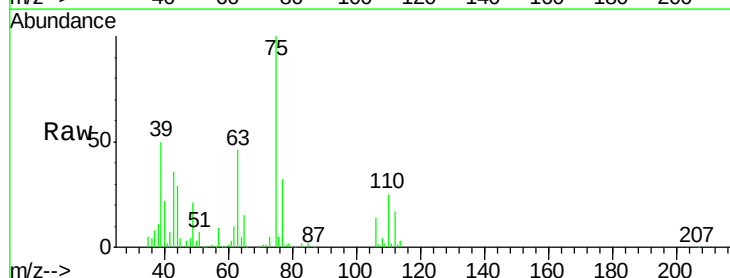
Acq: 26 Mar 2019 13:05

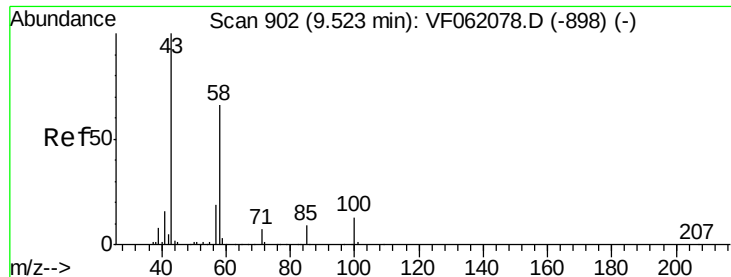
Tgt Ion: 63 Resp: 79202

Ion Ratio Lower Upper

63 100

106 30.0 21.5 32.3





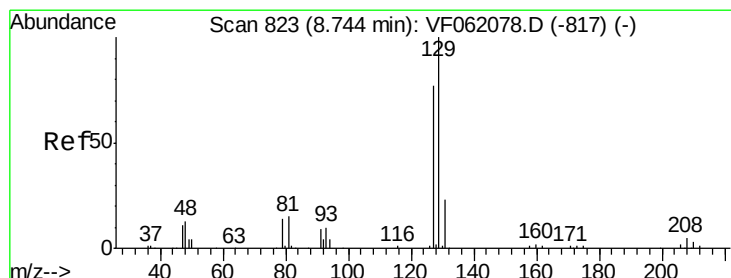
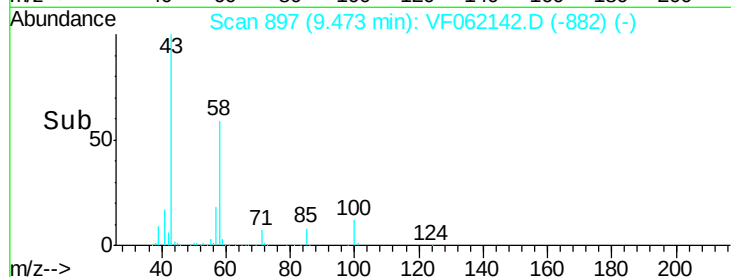
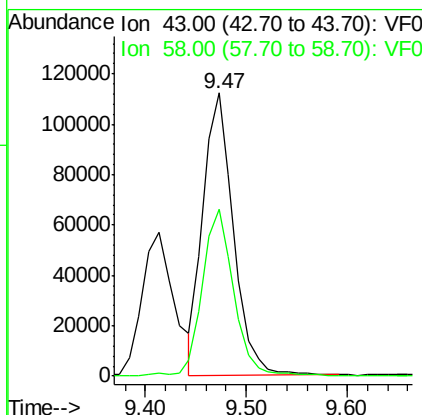
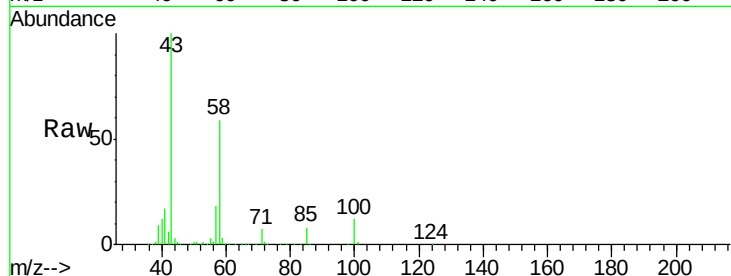
#59
2-Hexanone
Concen: 228.620 ug/l
RT: 9.47 min Scan# 897
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.9	28.8	86.4

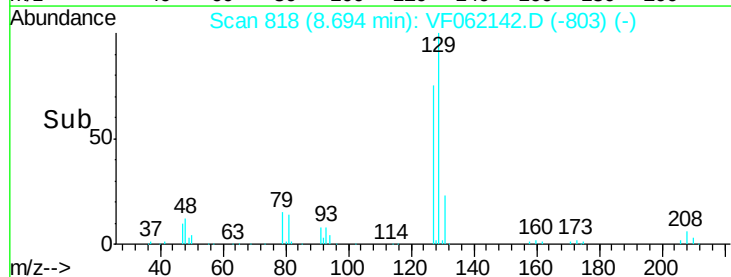
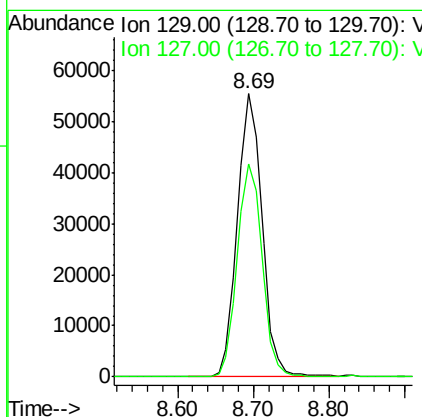
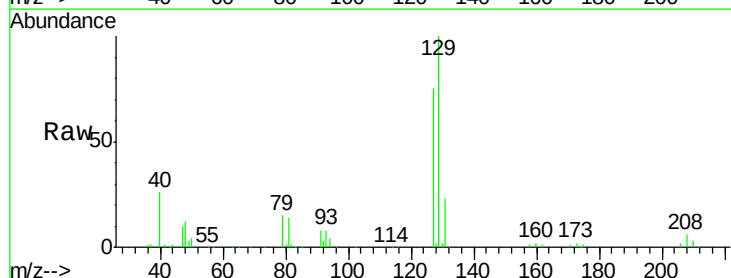
Manual Integrations
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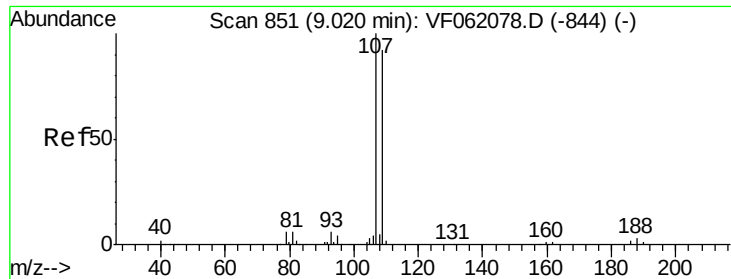
MMDadoda
3/27/2019 12:01:39 PM



#60
Dibromochloromethane
Concen: 51.792 ug/l
RT: 8.69 min Scan# 818
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.2	38.7	116.1





#61

1,2-Dibromoethane

Concen: 49.299 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 91542

Ion Ratio Lower Upper

107 100

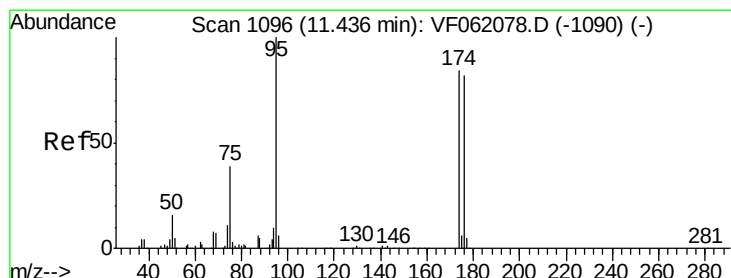
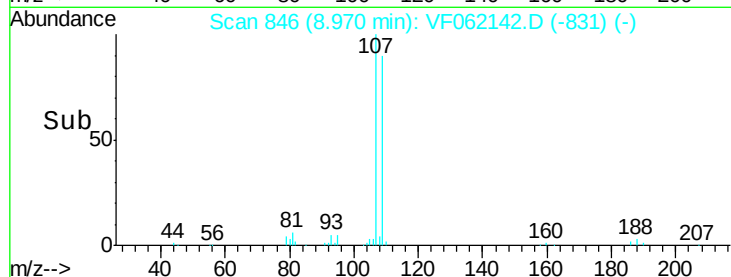
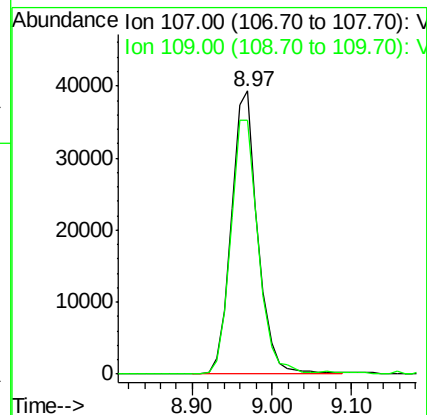
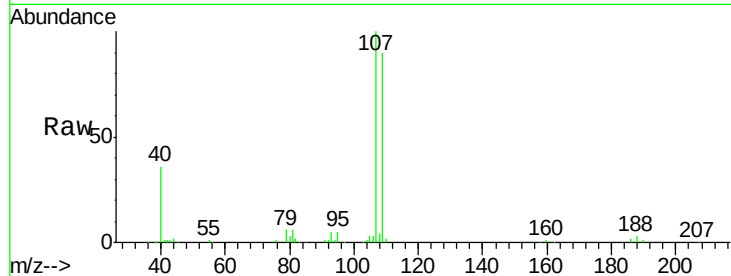
109 89.9 73.4 110.0

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#62

4-Bromofluorobenzene

Concen: 48.727 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

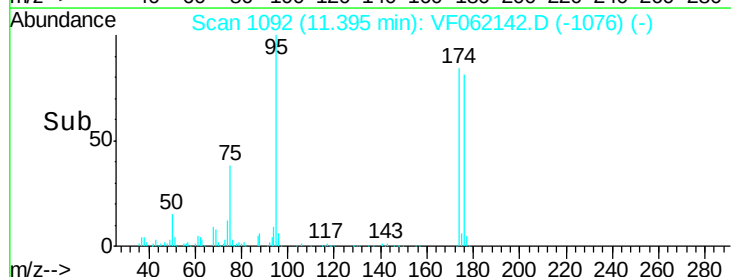
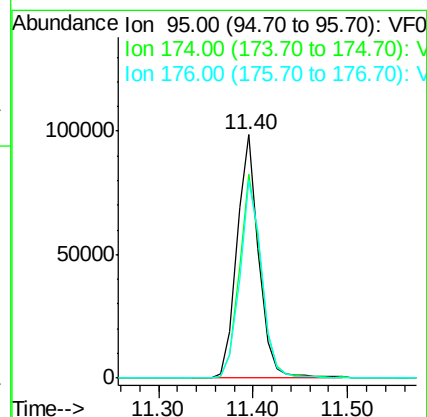
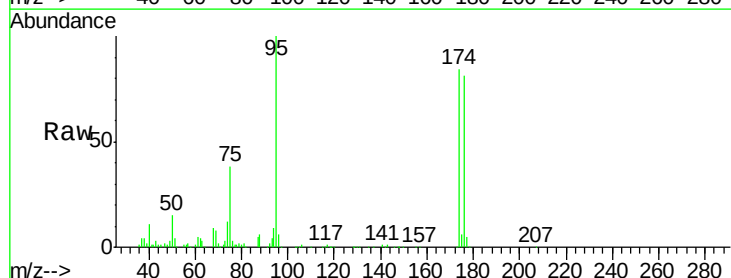
Tgt Ion: 95 Resp: 157370

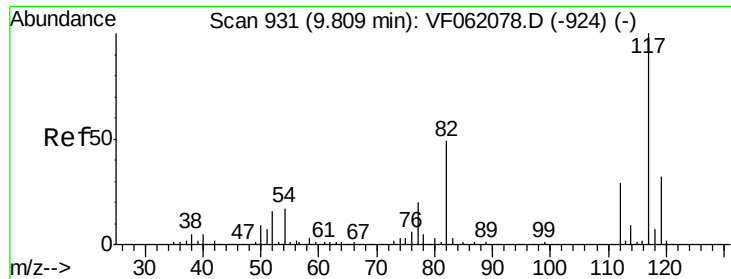
Ion Ratio Lower Upper

95 100

174 84.0 0.0 168.2

176 81.1 0.0 164.2





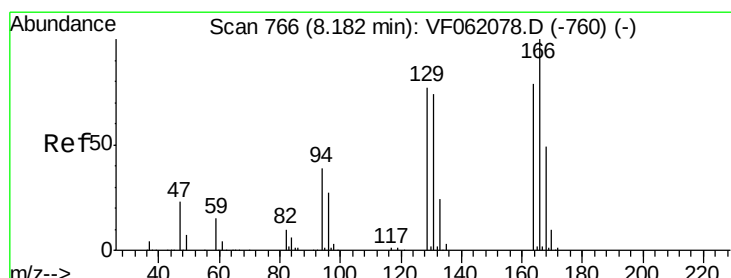
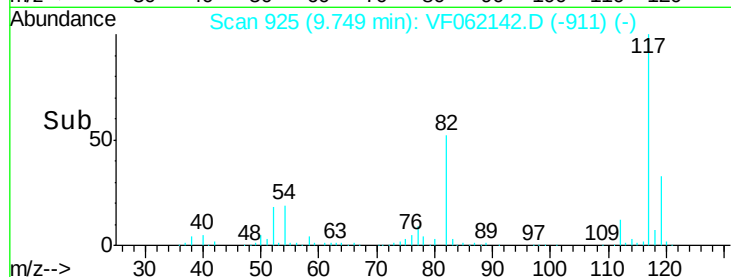
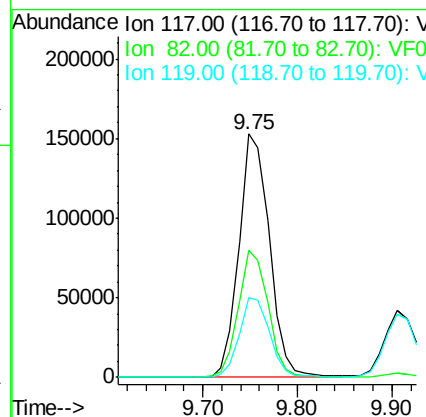
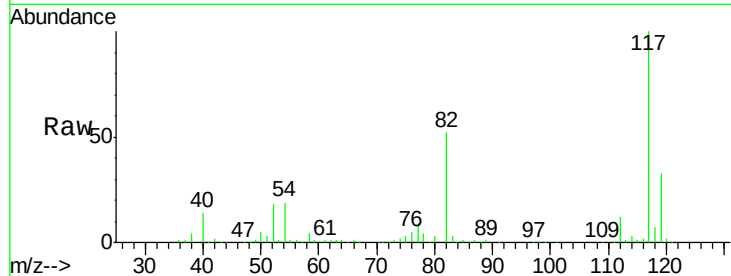
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.06 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	39.2	58.8
119	32.6	25.4	38.2

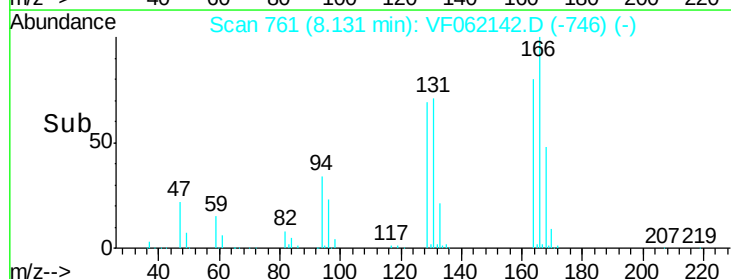
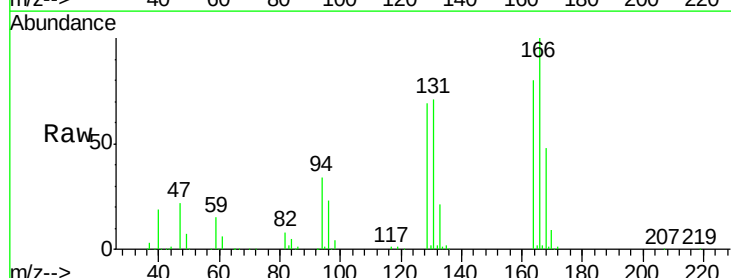
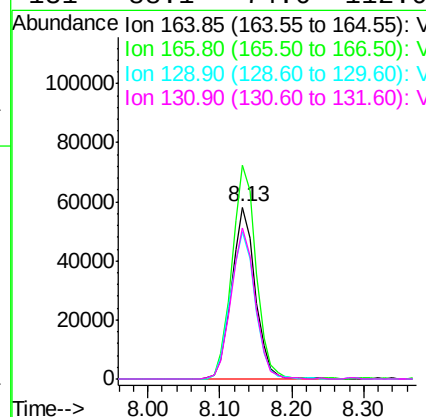
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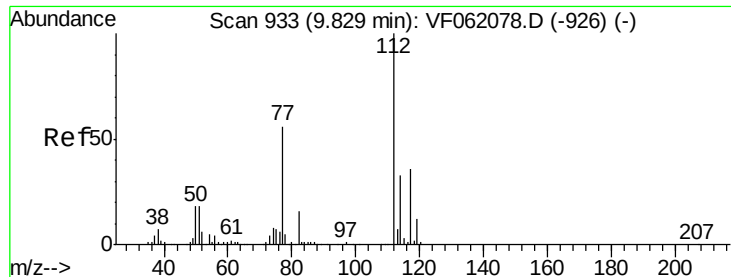
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#64
Tetrachloroethene
Concen: 50.118 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.4	100.9	151.3
129	85.4	77.9	116.9
131	88.1	74.6	112.0





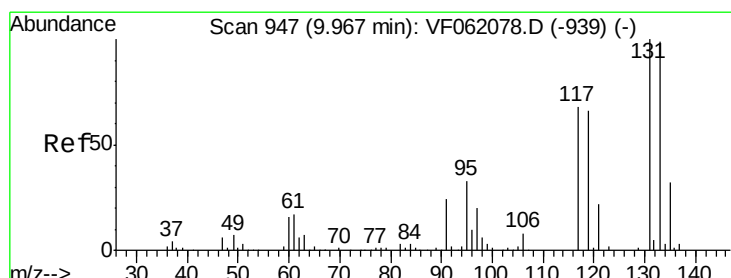
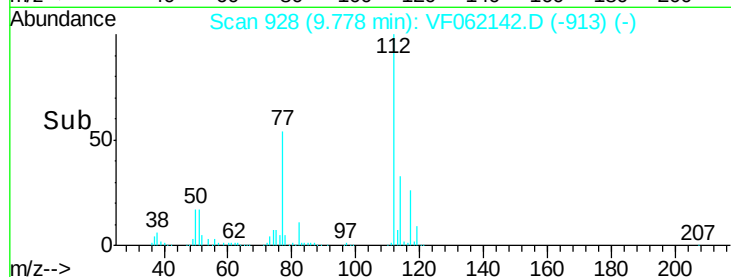
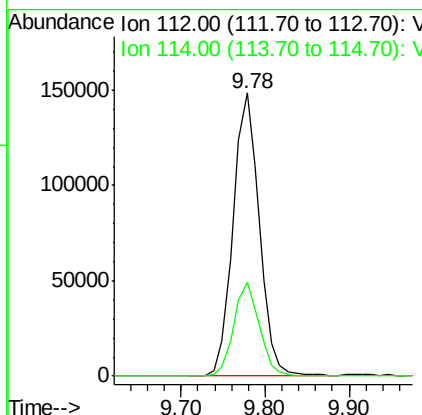
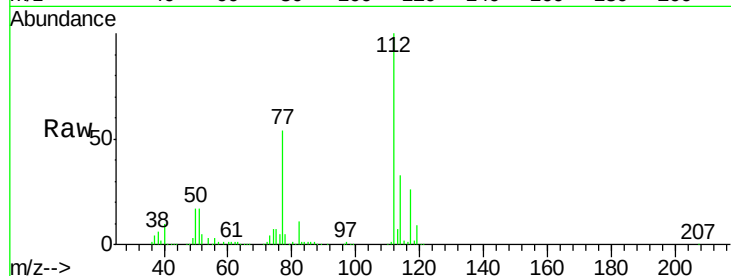
#65
Chlorobenzene
Concen: 50.352 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.05 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
112	100	323261		
114	33.0	26.0	39.0	

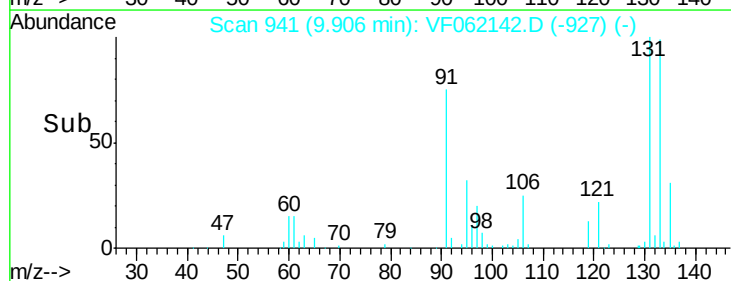
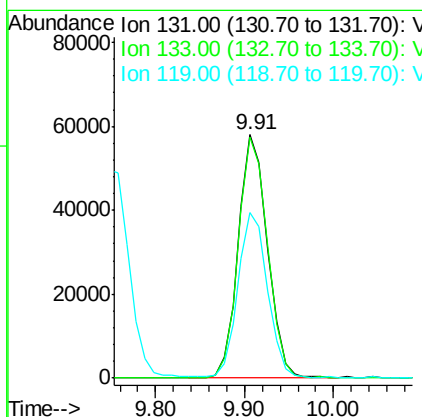
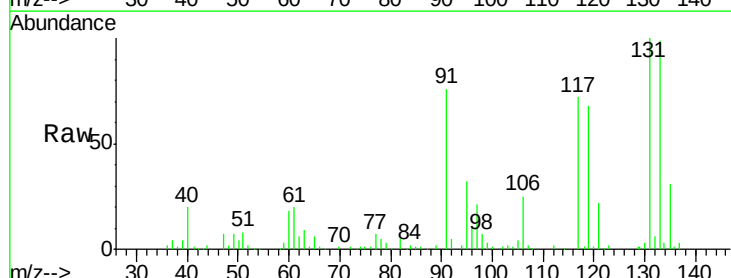
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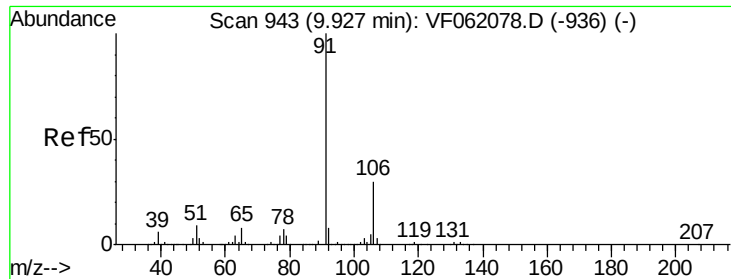
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#66
1,1,1,2-Tetrachloroethane
Concen: 51.146 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.06 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	131895		
133	99.0	49.3	147.8	
119	68.1	33.5	100.4	





#67

Ethyl Benzene

Concen: 50.735 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.05 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 566454

Ion Ratio Lower Upper

91 100

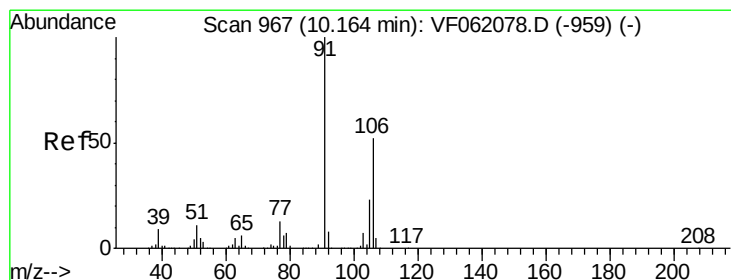
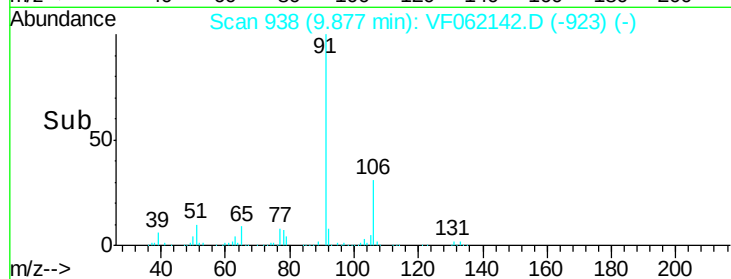
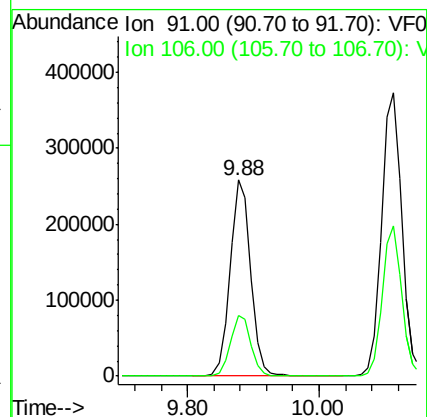
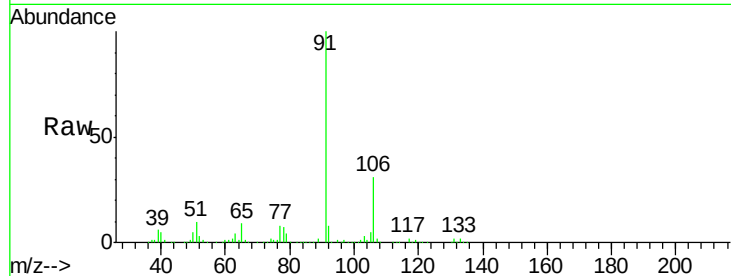
106 30.8 24.0 36.0

Manual Integrations

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#68

m/p-Xylenes

Concen: 99.977 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.05 min

Lab File: VF062142.D

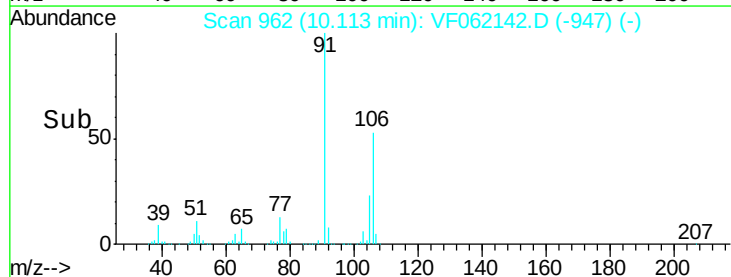
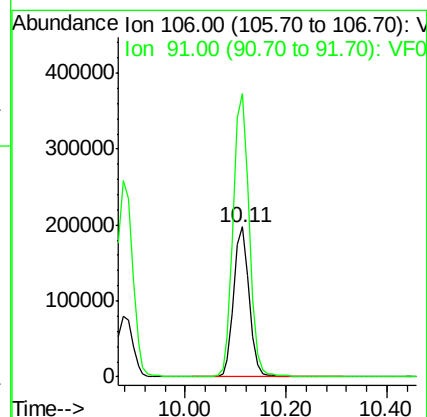
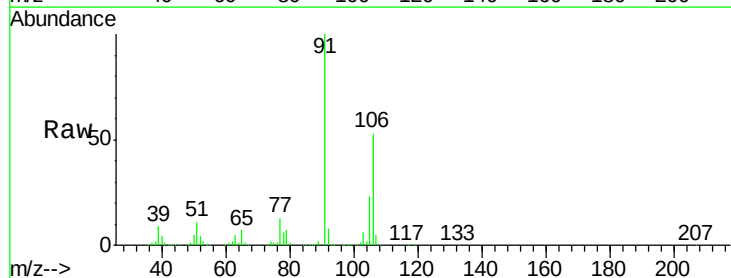
Acq: 26 Mar 2019 13:05

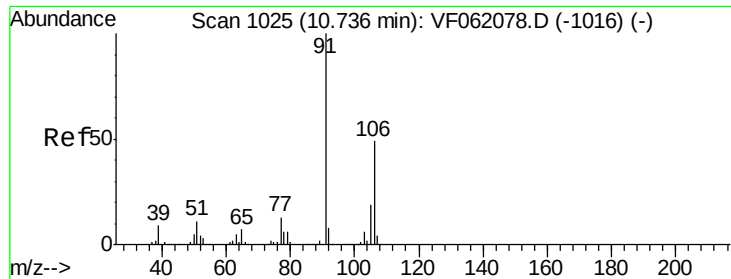
Tgt Ion: 106 Resp: 417203

Ion Ratio Lower Upper

106 100

91 189.1 154.4 231.6





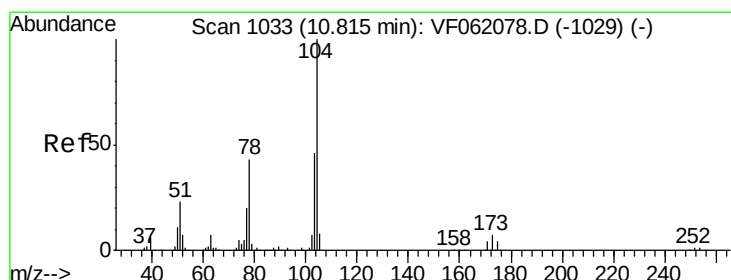
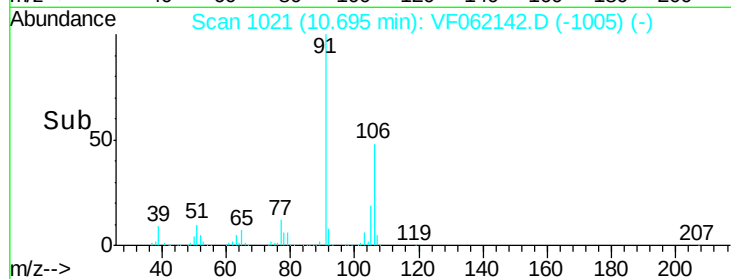
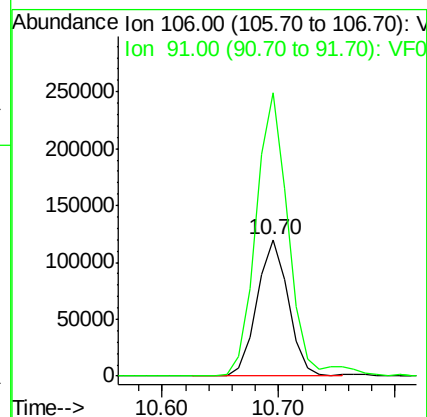
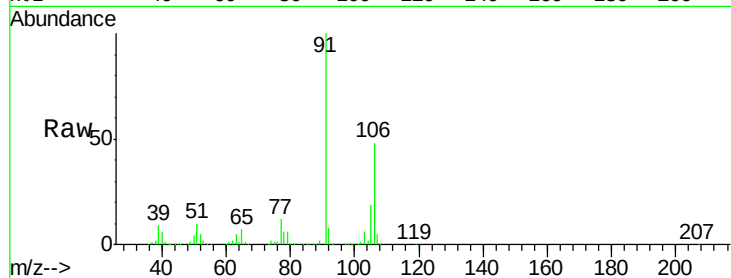
#69
o-Xylene
Concen: 51.109 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.04 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 223376
Ion Ratio Lower Upper
106 100
91 207.7 102.6 307.8

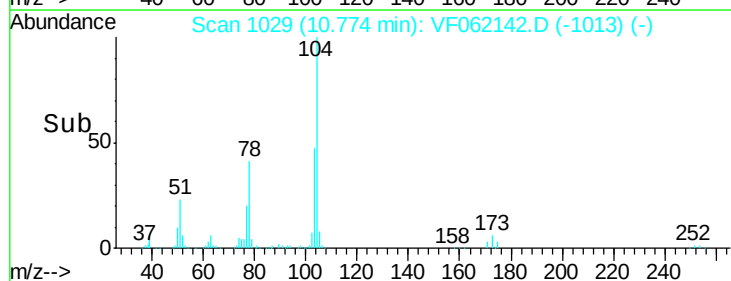
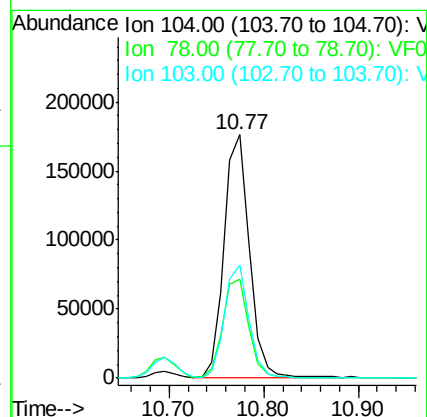
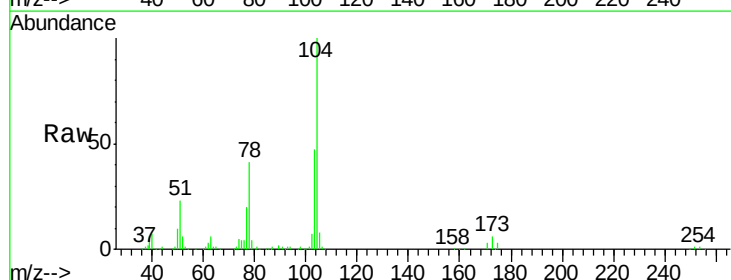
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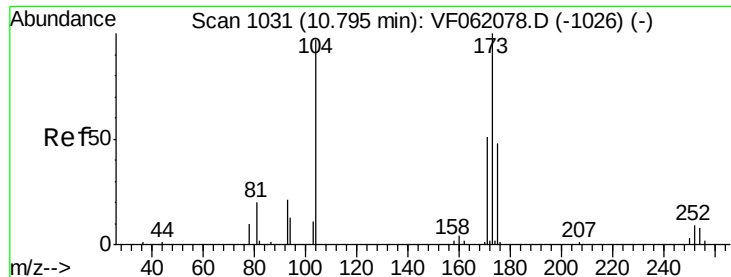
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#70
Styrene
Concen: 49.188 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.04 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion:104 Resp: 325727
Ion Ratio Lower Upper
104 100
78 40.8 34.3 51.5
103 46.7 36.9 55.3





#71

Bromoform

Concen: 49.113 ug/l

RT: 10.75 min Scan# 1027

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 64781

Ion Ratio Lower Upper

173 100

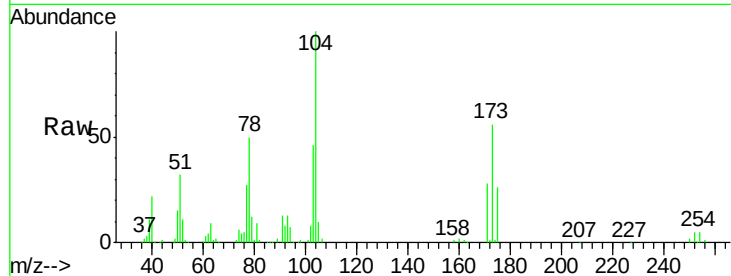
175 47.5 24.1 72.4

254 8.8 6.2 9.4

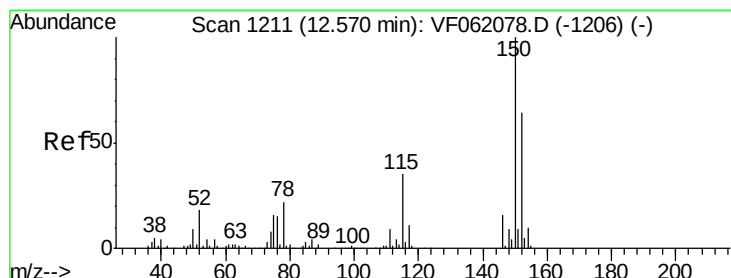
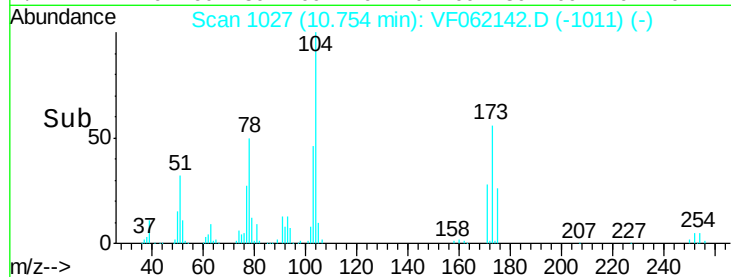
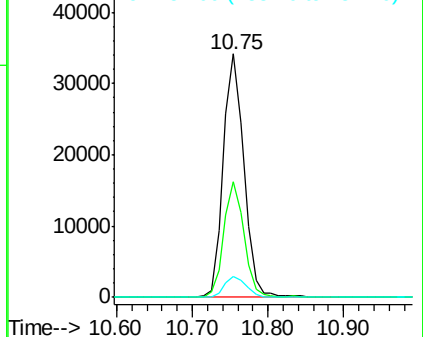
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Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.03 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

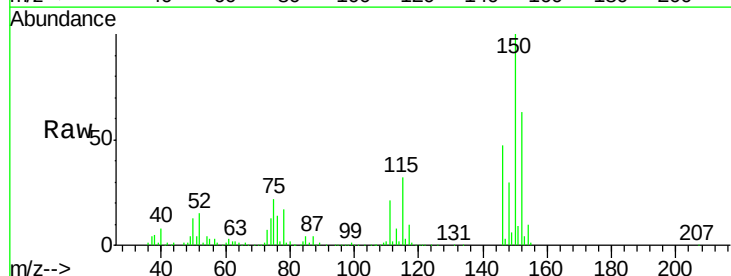
Tgt Ion:152 Resp: 180677

Ion Ratio Lower Upper

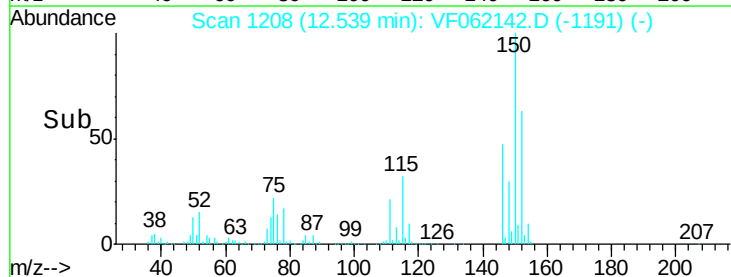
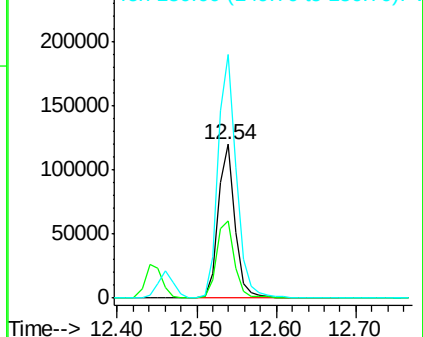
152 100

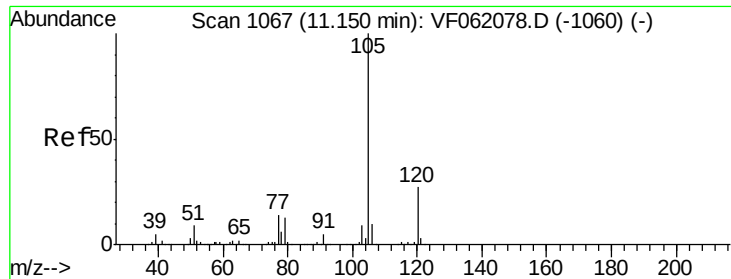
115 50.1 27.7 83.1

150 158.7 0.0 313.2



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: 48.666 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 618725

Ion Ratio Lower Upper

105 100

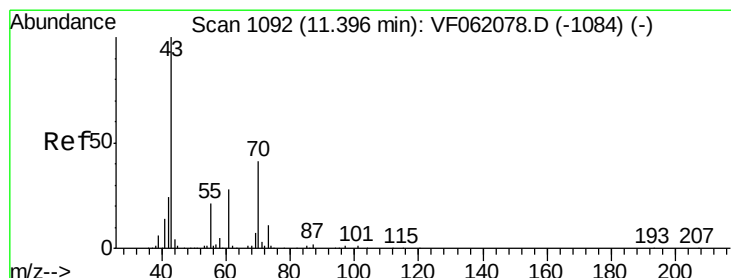
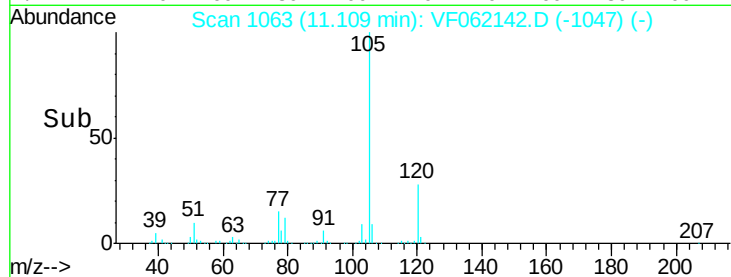
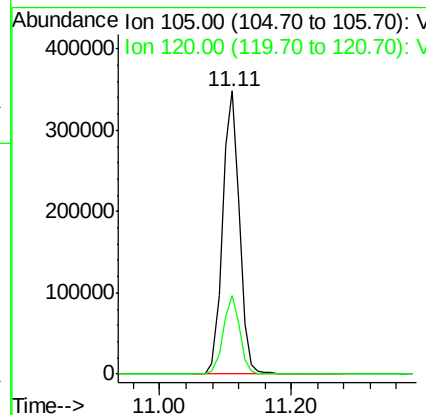
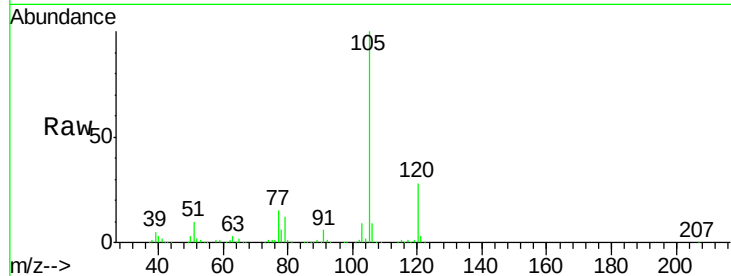
120 27.6 13.8 41.3

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#74

N-ethyl acetate

Concen: 48.828 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion: 43 Resp: 147916

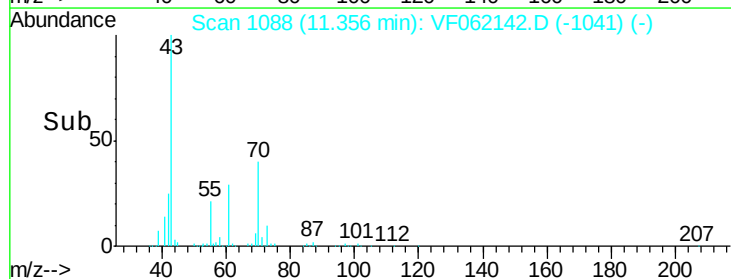
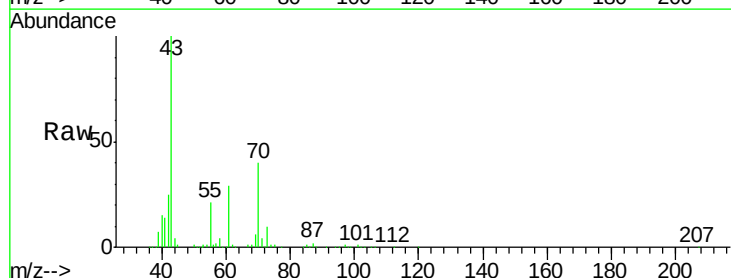
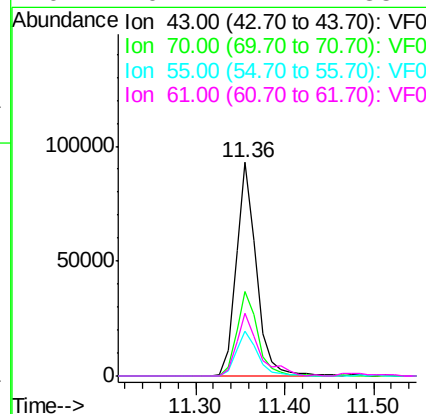
Ion Ratio Lower Upper

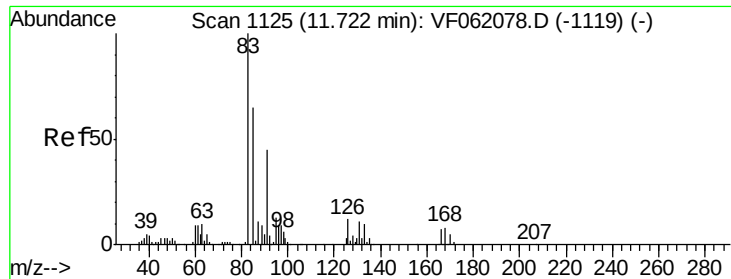
43 100

70 39.8 32.9 49.3

55 21.3 17.1 25.7

61 29.2 22.2 33.2





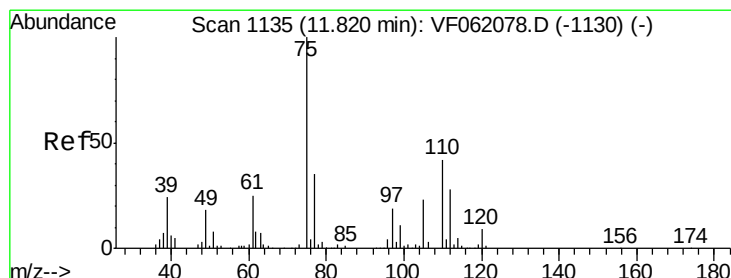
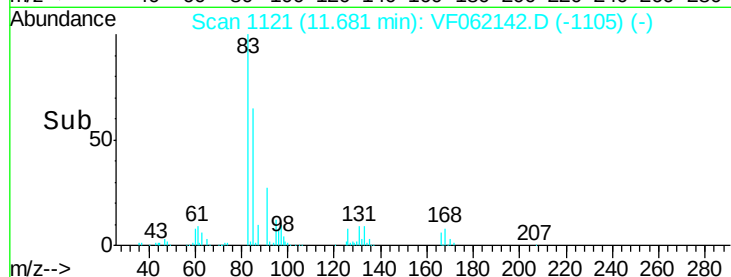
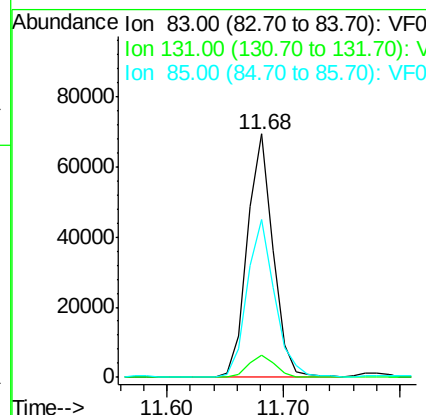
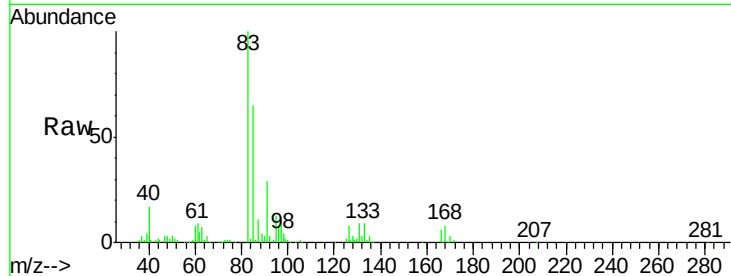
#75
 1,1,2,2-Tetrachloroethane
 Concen: 48.795 ug/l
 RT: 11.68 min Scan# 1121
 Delta R.T. -0.04 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
131	9.3	5.3	15.8	
85	64.6	32.6	98.0	

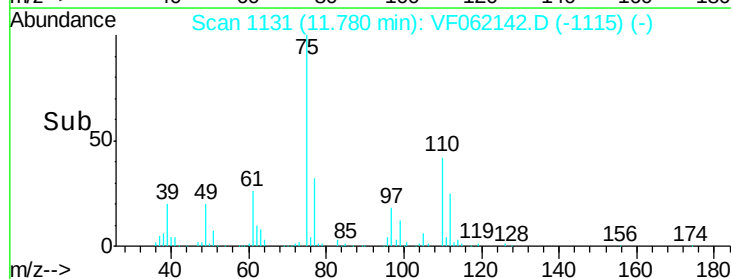
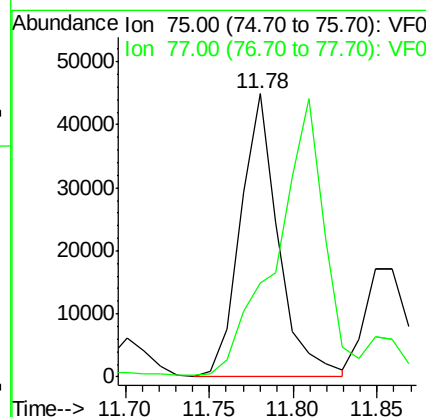
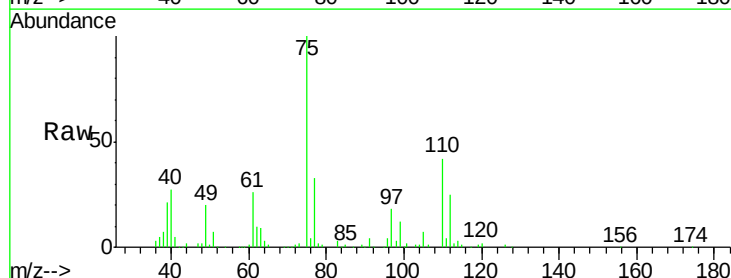
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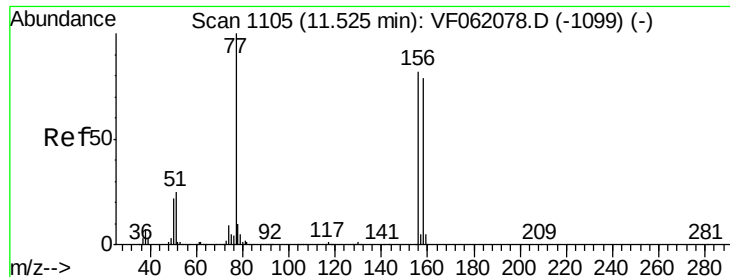
MMDadoda
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#76
 1,2,3-Trichloropropane
 Concen: 46.692 ug/l m
 RT: 11.78 min Scan# 1131
 Delta R.T. -0.04 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
77	33.0	17.8	53.3	





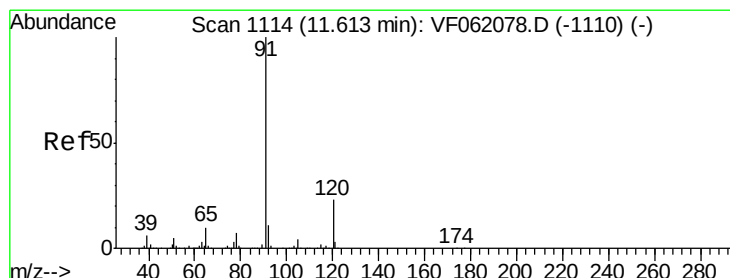
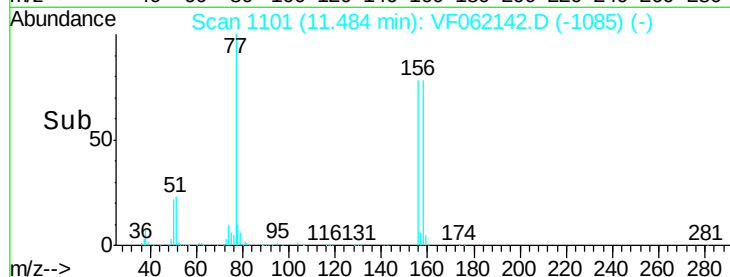
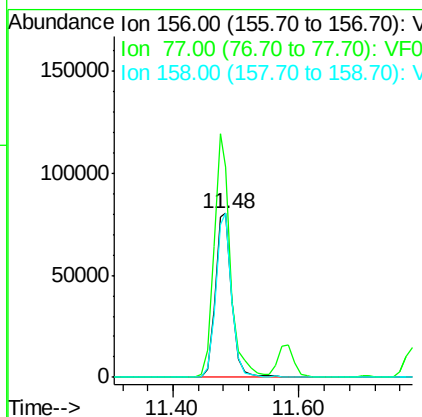
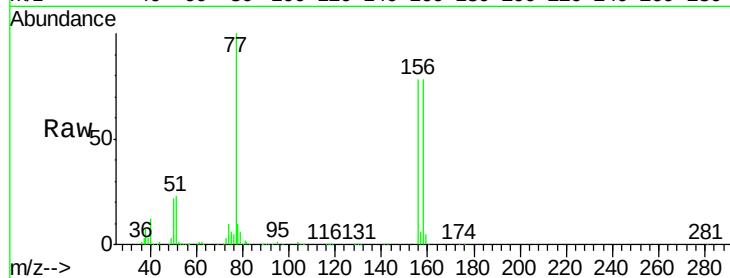
#77
Bromobenzene
Concen: 47.892 ug/l
RT: 11.48 min Scan# 1101
Delta R.T. -0.04 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	128.3	61.3	183.9
158	100.4	48.6	145.9

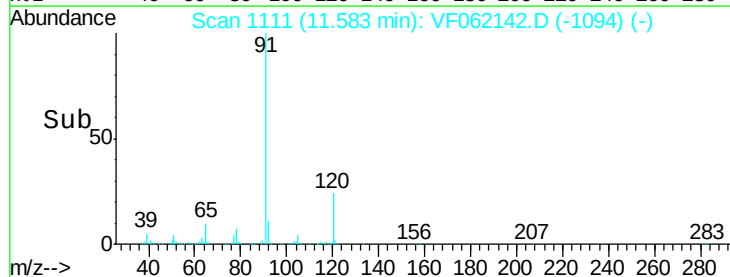
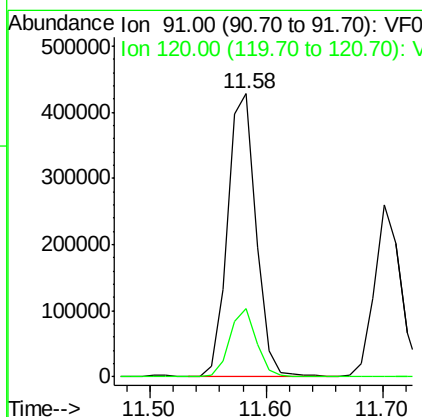
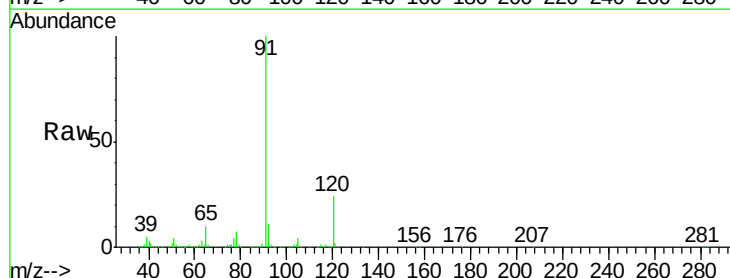
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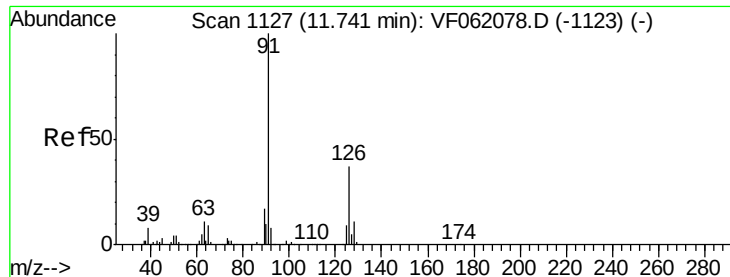
MMDadoda
3/27/2019 12:01:39 PM



#78
n-propylbenzene
Concen: 48.977 ug/l
RT: 11.58 min Scan# 1111
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.3	11.3	33.8





#79

2-Chlorotoluene

Concen: 49.008 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 402138

Ion Ratio Lower Upper

91 100

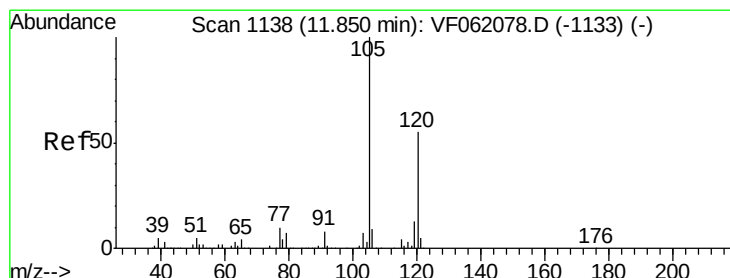
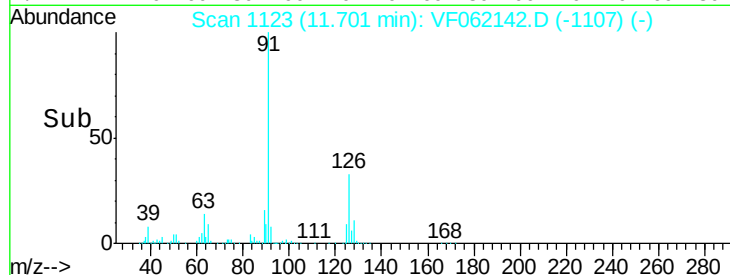
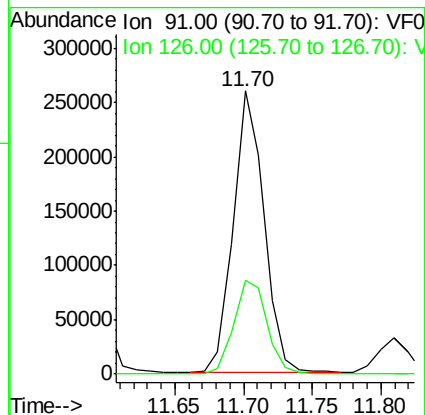
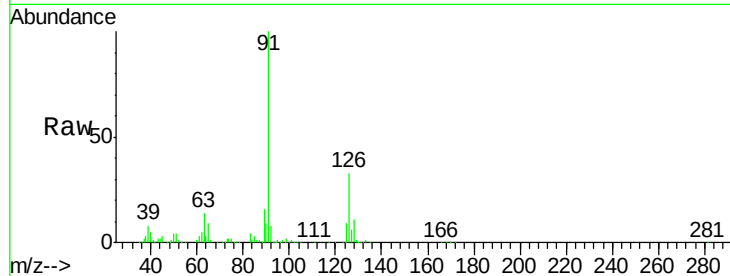
126 33.3 18.3 54.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 50.295 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.04 min

Lab File: VF062142.D

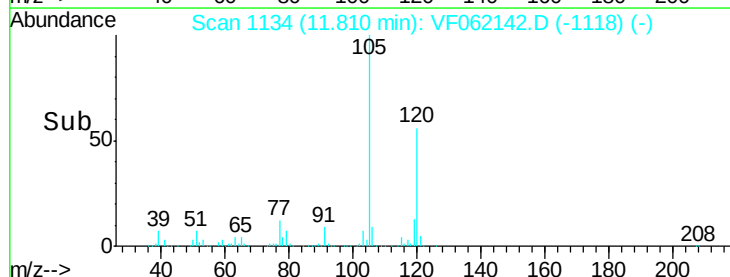
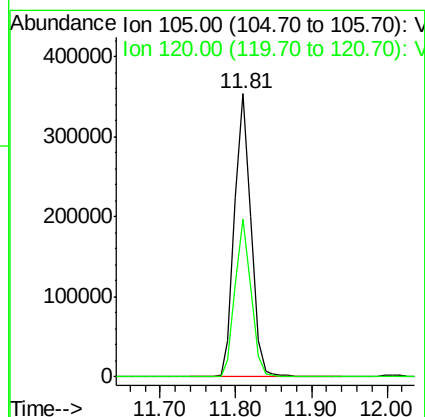
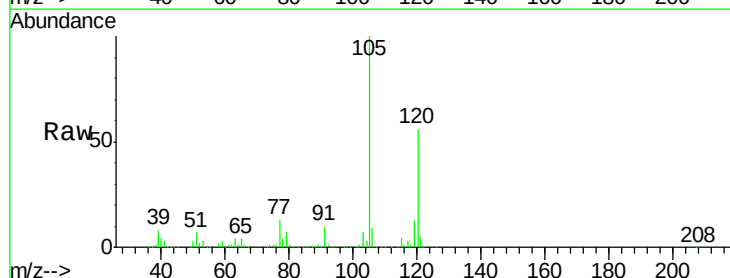
Acq: 26 Mar 2019 13:05

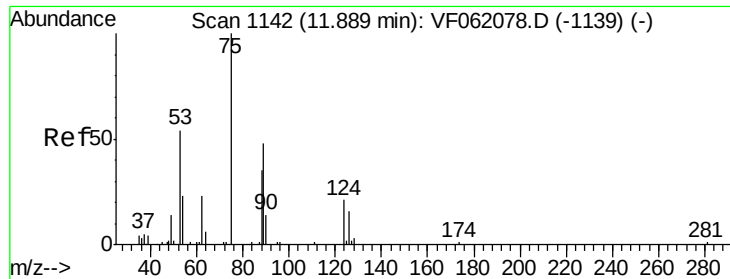
Tgt Ion: 105 Resp: 525960

Ion Ratio Lower Upper

105 100

120 55.8 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 45.623 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.03 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

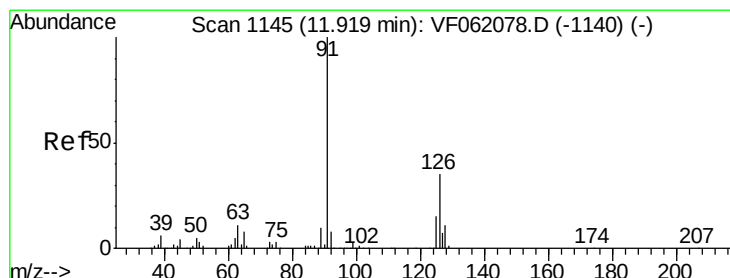
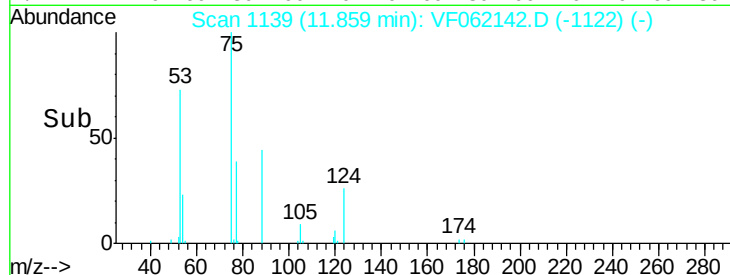
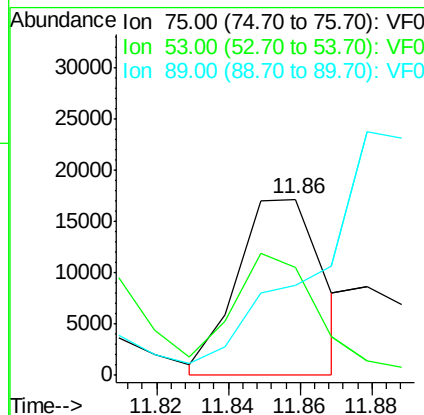
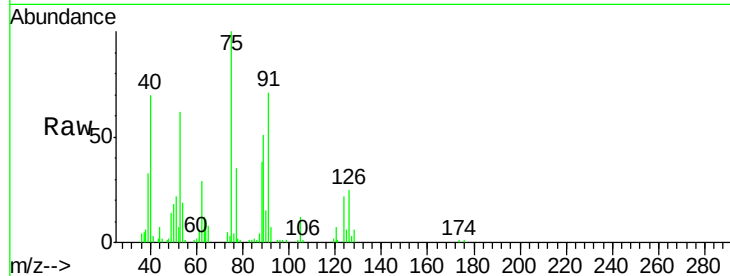
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	28560
Ion	Ratio	Lower	Upper
75	100		
53	61.5	49.4	74.0
89	50.8	40.6	60.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 48.153 ug/l

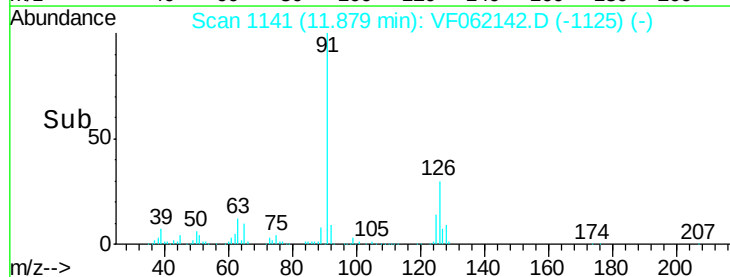
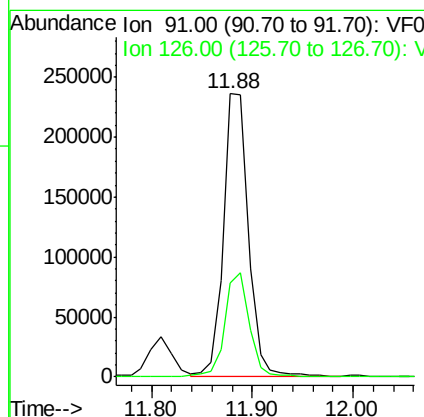
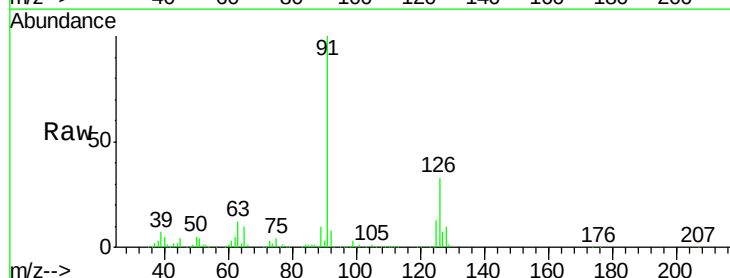
RT: 11.88 min Scan# 1141

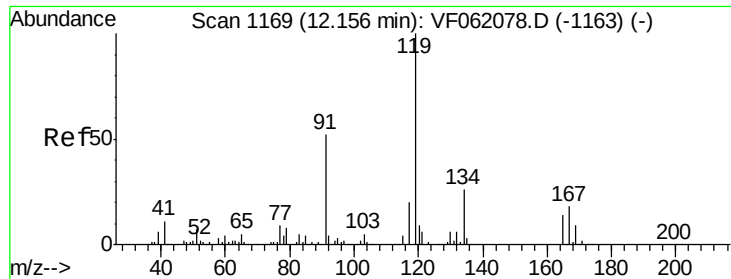
Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Tgt Ion:	91	Resp:	405127
Ion	Ratio	Lower	Upper
91	100		
126	33.2	17.2	51.6





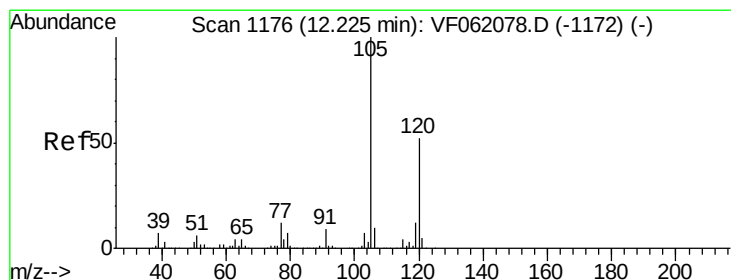
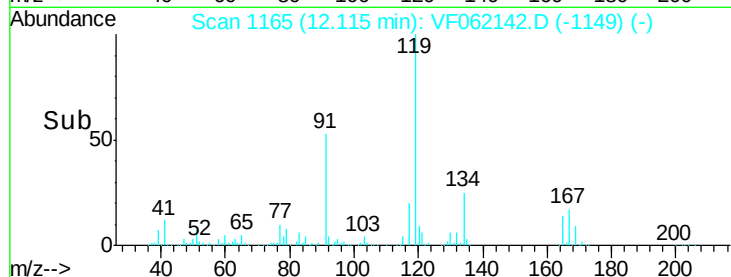
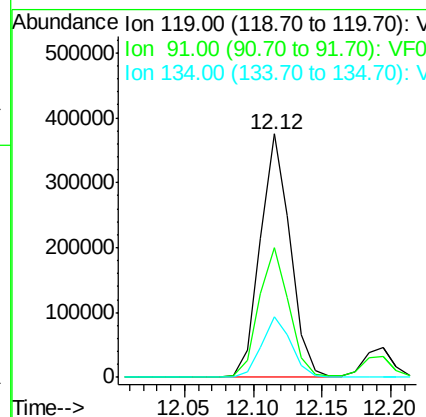
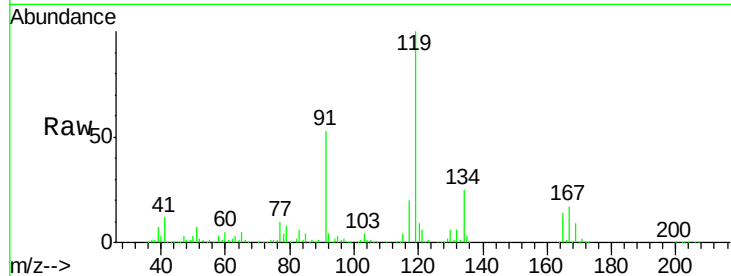
#83
 tert-Butylbenzene
 Concen: 52.138 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.04 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	53.2	26.1	78.2
134	25.0	12.8	38.4

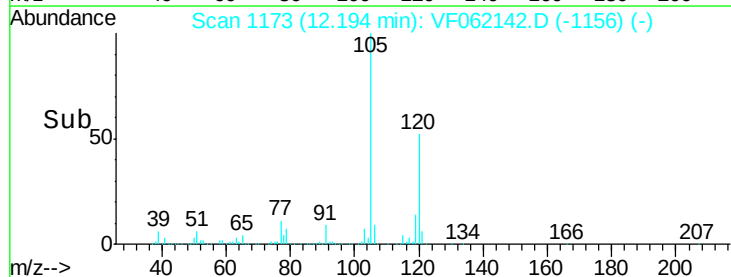
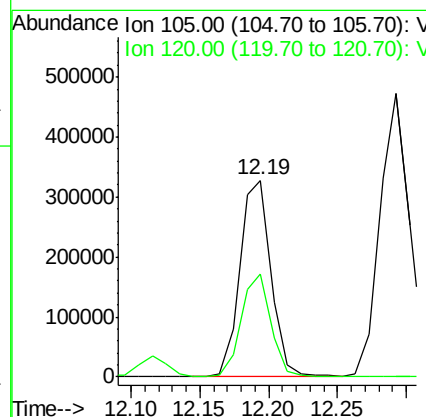
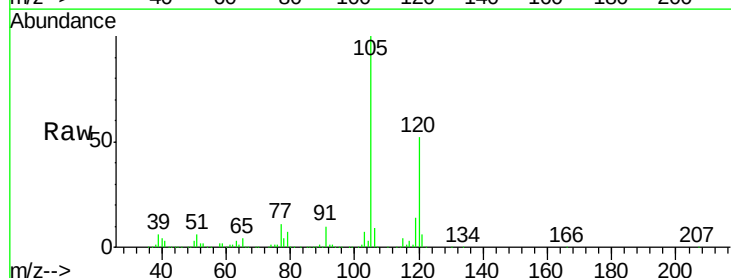
Manual Integrations
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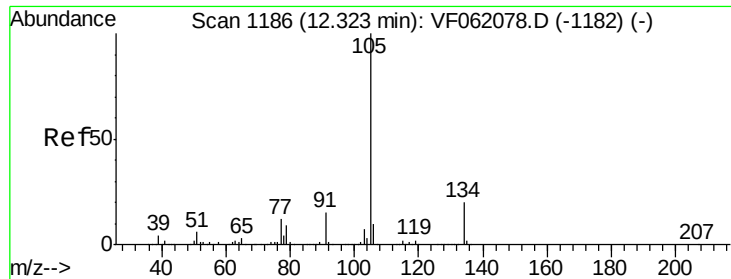
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.378 ug/l
 RT: 12.19 min Scan# 1173
 Delta R.T. -0.03 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.2	26.1	78.2





#85

sec-Butylbenzene

Concen: 50.195 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.03 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 710842

Ion Ratio Lower Upper

105 100

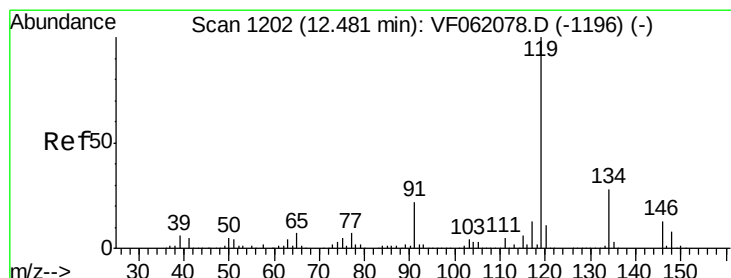
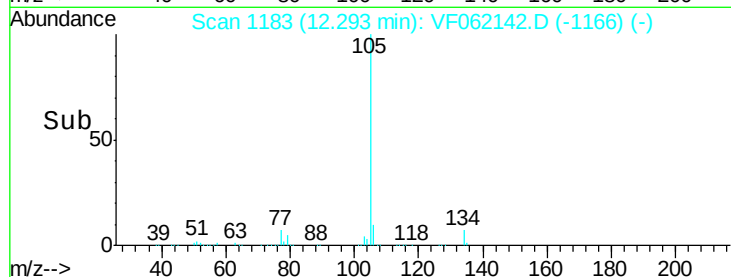
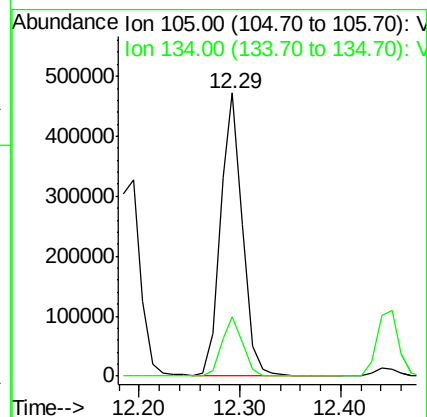
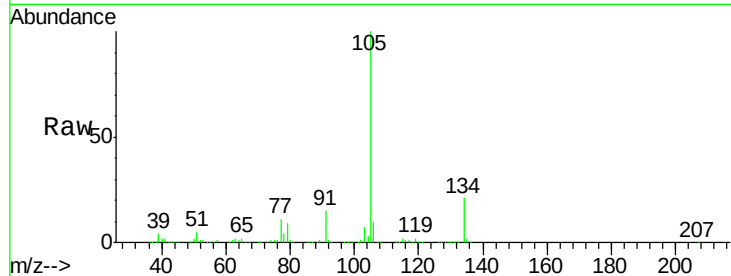
134 21.2 10.2 30.4

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 51.304 ug/l

RT: 12.44 min Scan# 1198

Delta R.T. -0.04 min

Lab File: VF062142.D

Acq: 26 Mar 2019 13:05

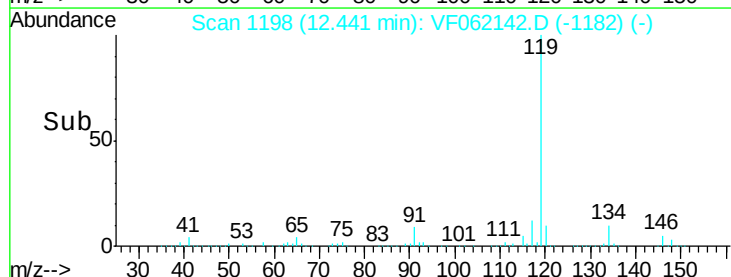
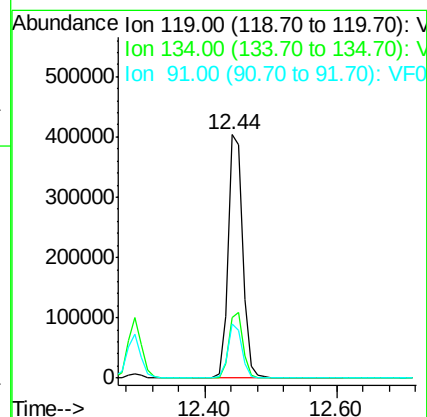
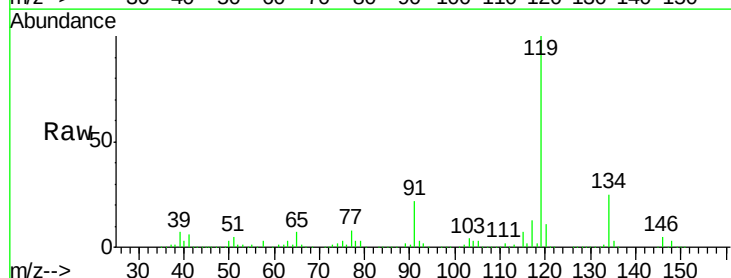
Tgt Ion:119 Resp: 629468

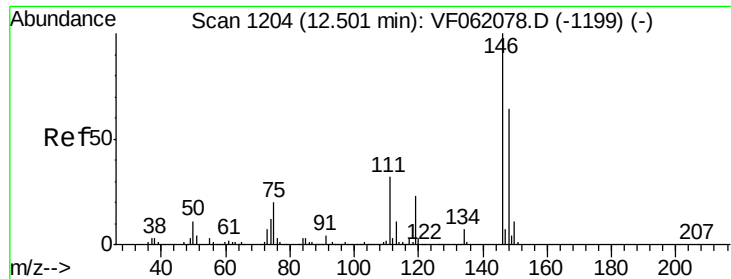
Ion Ratio Lower Upper

119 100

134 25.1 14.0 42.0

91 22.1 10.8 32.4





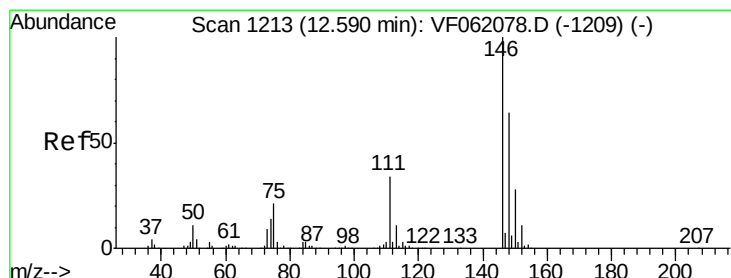
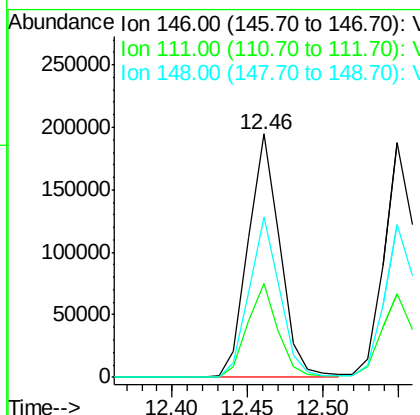
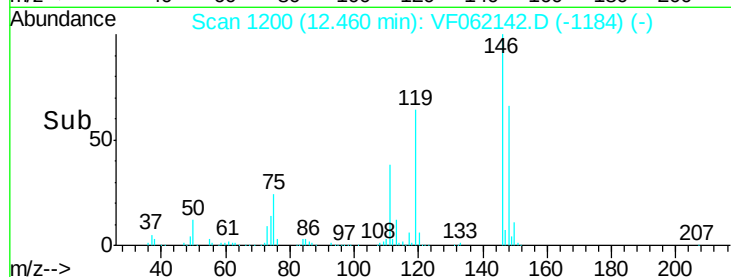
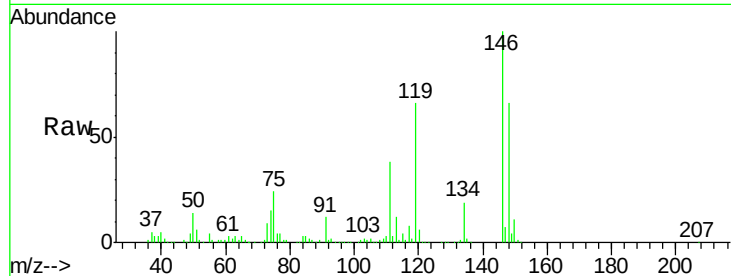
#87
 1,3-Dichlorobenzene
 Concen: 49.544 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.04 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	16.1	48.3
148	66.1	31.9	95.7

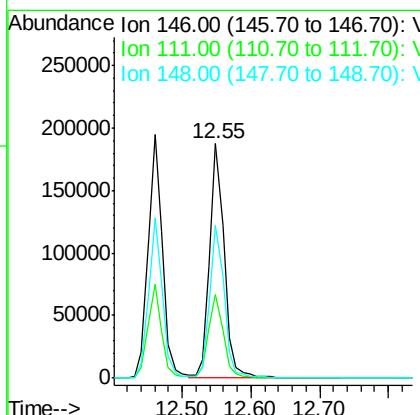
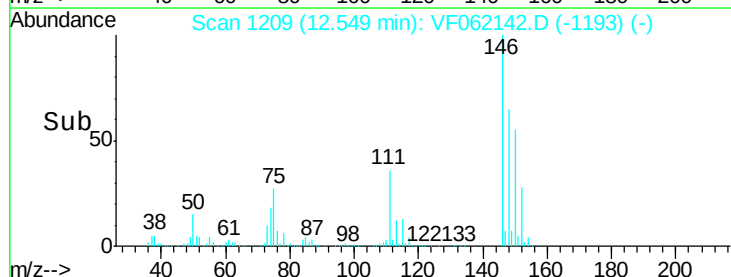
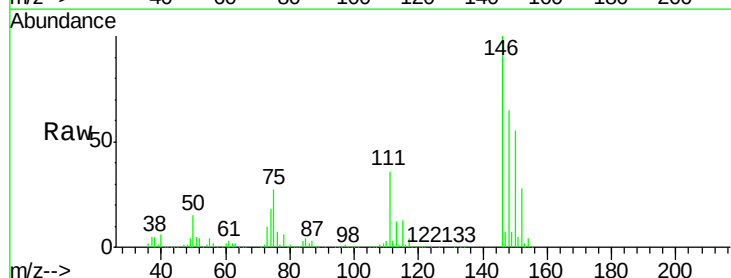
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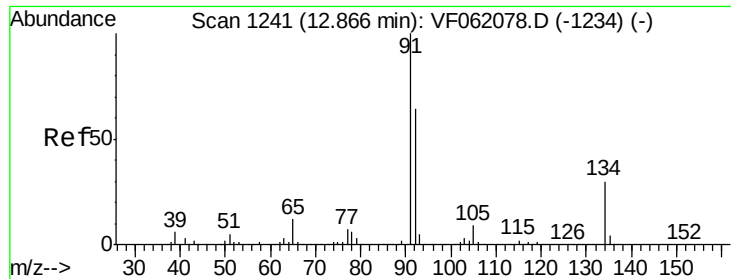
MMDadoda
 3/27/2019 12:01:39 PM



#88
 1,4-Dichlorobenzene
 Concen: 49.240 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.04 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	16.9	50.6
148	65.0	31.9	95.7





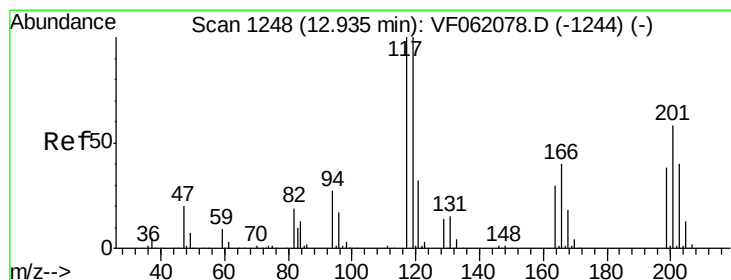
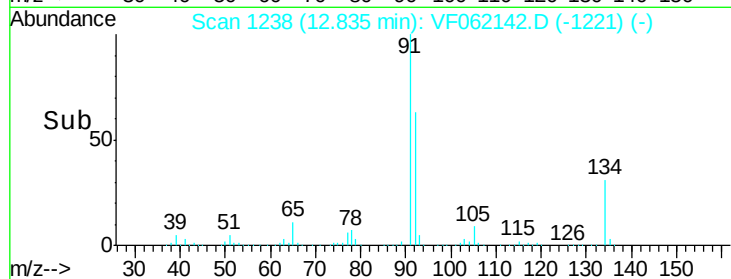
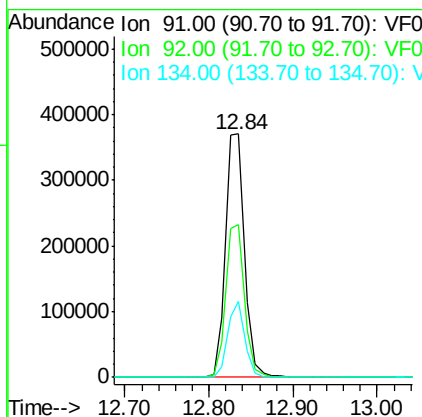
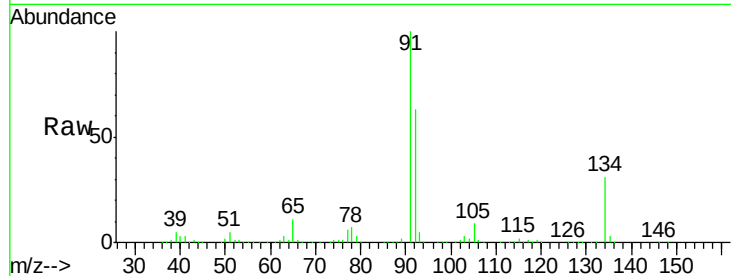
#89
n-Butylbenzene
Concen: 49.631 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.6	31.9	95.5
134	31.4	14.9	44.9

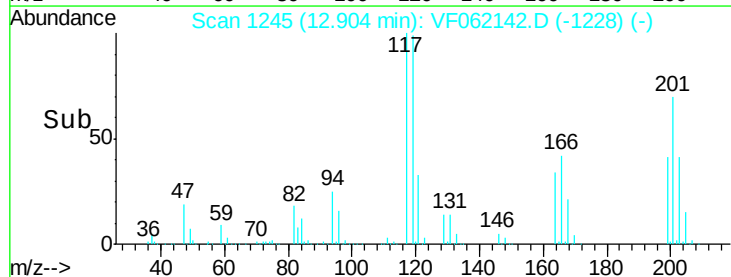
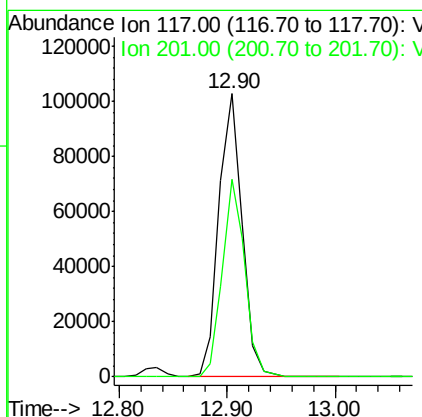
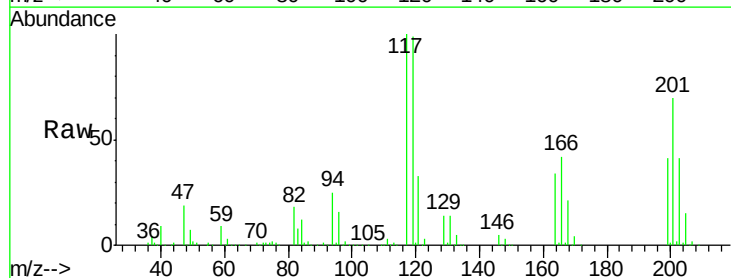
Manual Integrations
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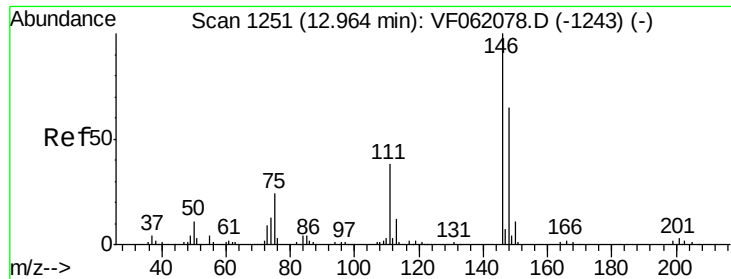
MMDadoda
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#90
Hexachloroethane
Concen: 52.695 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.7	28.7	86.1





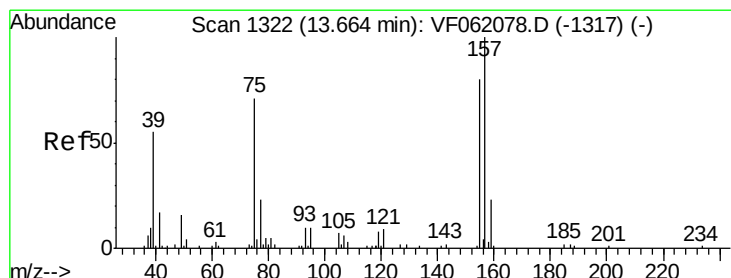
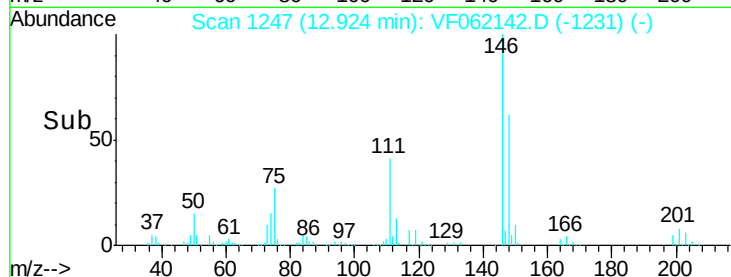
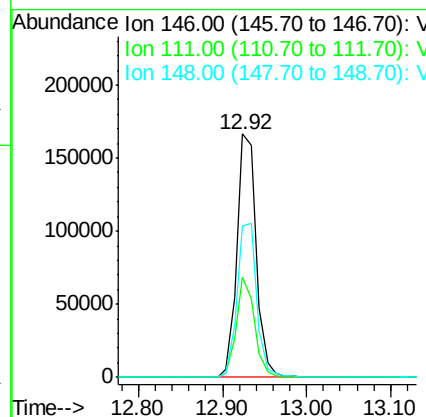
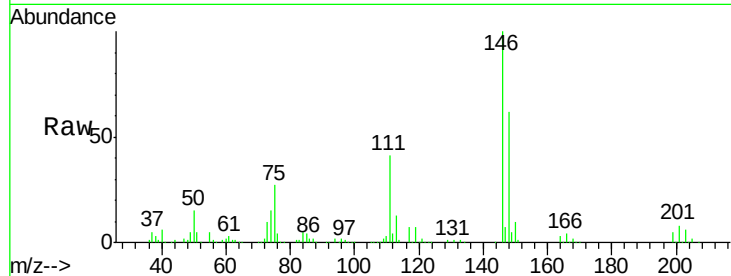
#91
 1,2-Dichlorobenzene
 Concen: 49.113 ug/l
 RT: 12.92 min Scan# 1247
 Delta R.T. -0.04 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.1	57.3
148	62.1	32.8	98.3

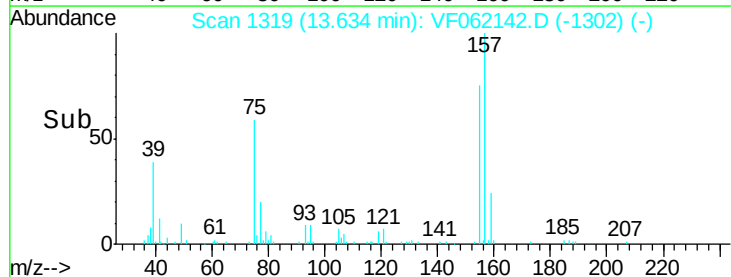
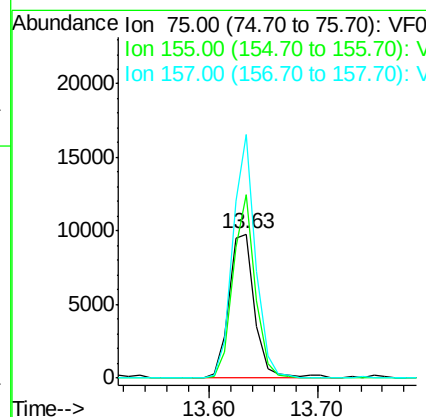
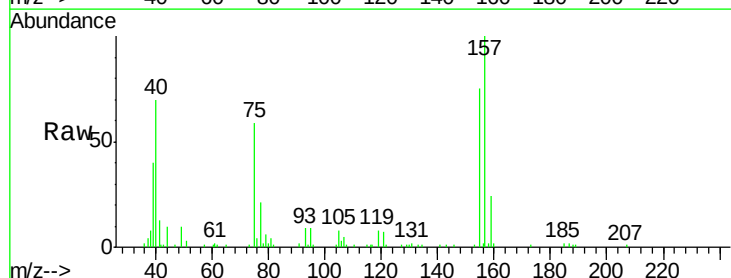
Manual Integrations
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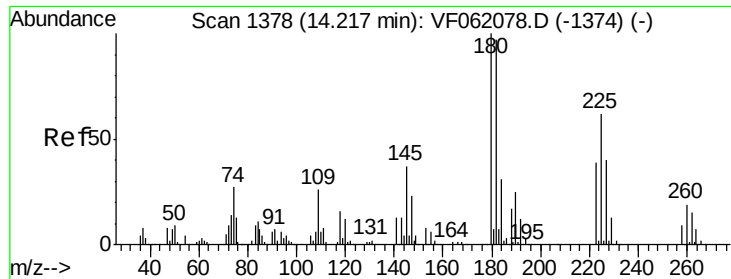
MMDadoda
 3/27/2019 12:01:39 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 49.263 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.03 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	127.2	56.1	168.4
157	168.7	70.4	211.2





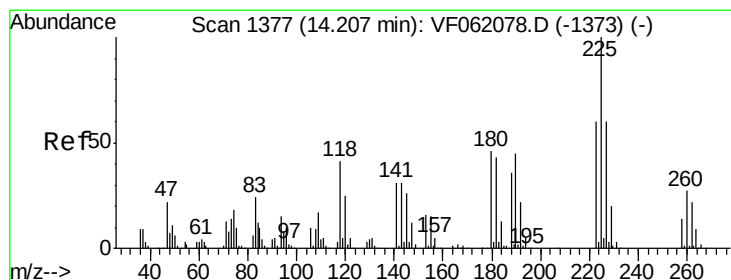
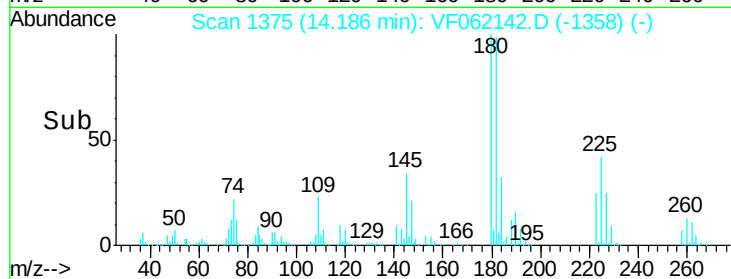
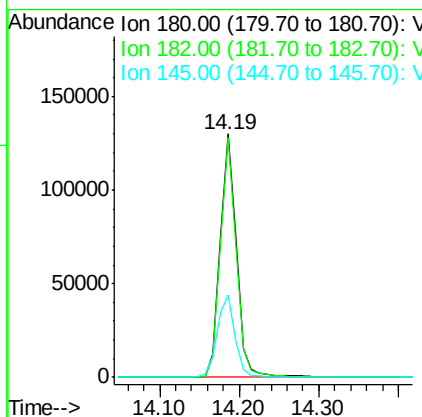
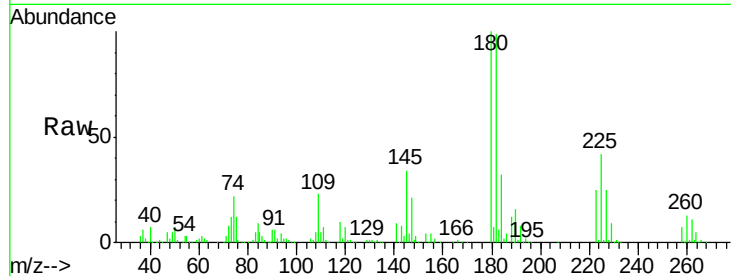
#93
 1,2,4-Trichlorobenzene
 Concen: 50.496 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.03 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	190702		
182	98.7	48.7	146.1	
145	33.8	18.3	54.8	

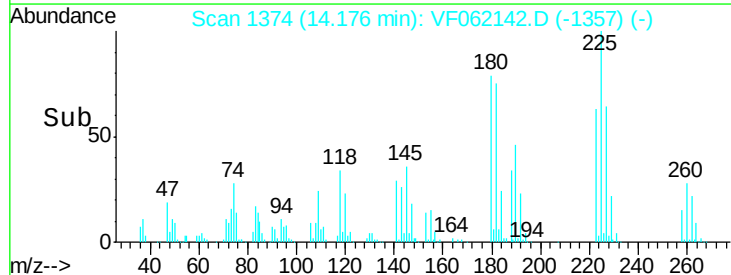
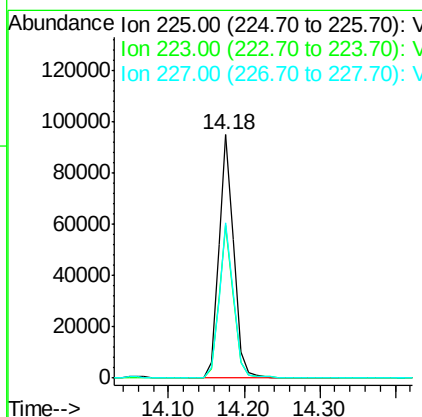
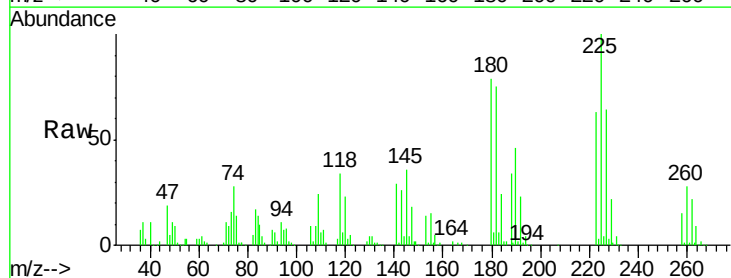
Manual Integrations
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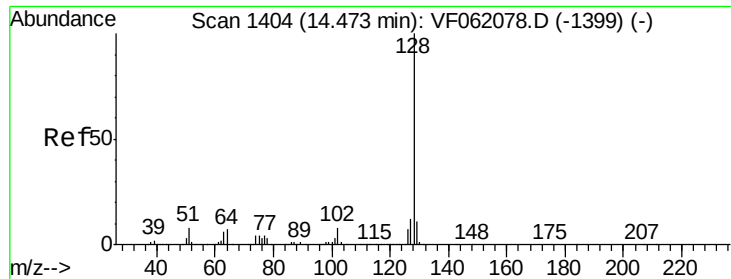
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 3/27/2019 12:01:39 PM



#94
 Hexachlorobutadiene
 Concen: 52.565 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VF062142.D
 Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	131994		
223	62.6	30.0	90.0	
227	64.0	30.2	90.6	





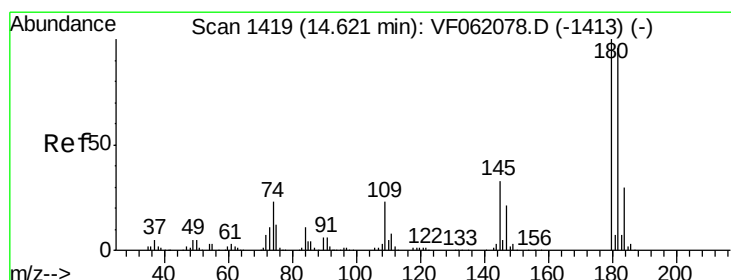
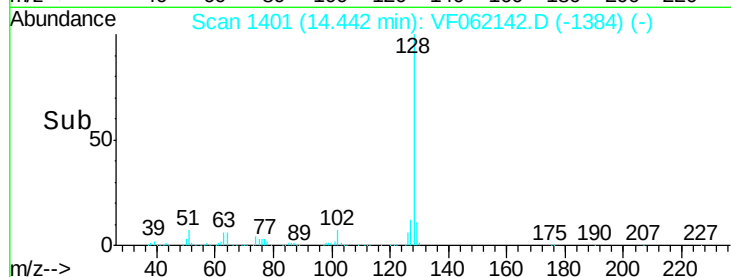
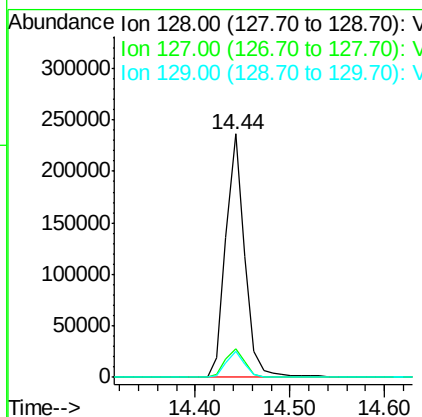
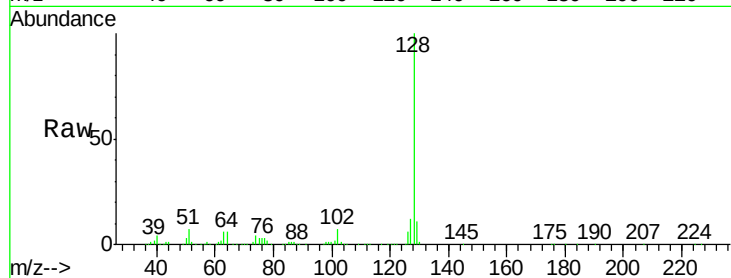
#95
Naphthalene
Concen: 49.624 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.8	9.5	14.3
129	10.7	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/27/2019 12:01:39 PM



#96
1,2,3-Trichlorobenzene
Concen: 50.499 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.03 min
Lab File: VF062142.D
Acq: 26 Mar 2019 13:05

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.9	143.7
145	31.3	16.6	49.7

