

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062076.D
 Acq On : 22 Mar 2019 11:04
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:09 AM

Quant Time: Mar 23 01:04:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 00:41:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	290251	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.63	114	436226	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	358960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	194075	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.88	65	22893	10.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	21.20%	
35) Dibromofluoromethane	4.15	113	32234	10.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	21.84%	
50) Toluene-d8	7.59	98	95503	10.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	21.68%	
62) 4-Bromofluorobenzene	11.44	95	36594	10.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	21.52%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	39415	10.600	ug/l	97
3) Chloromethane	1.11	50	39856	10.244	ug/l	100
4) Vinyl Chloride	1.16	62	35951	9.990	ug/l	94
5) Bromomethane	1.33	94	28856	11.154	ug/l	90
6) Chloroethane	1.41	64	18231	10.063	ug/l #	78
7) Trichlorofluoromethane	1.51	101	45588m	10.921	ug/l	
8) Diethyl Ether	1.64	74	10498	10.574	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.86	101	32383	10.921	ug/l	96
10) Methyl Iodide	1.93	142	59168m	10.702	ug/l	
11) Tert butyl alcohol	2.59	59	6015	50.637	ug/l #	80
12) 1,1-Dichloroethene	1.81	96	30284	10.824	ug/l	86
13) Acrolein	2.03	56	8492	59.315	ug/l	89
14) Allyl chloride	2.12	41	32485	10.875	ug/l	92
15) Acrylonitrile	2.97	53	22087	52.876	ug/l	88
16) Acetone	2.26	43	20697	45.550	ug/l	98
17) Carbon Disulfide	1.85	76	88105m	10.535	ug/l	
18) Methyl Acetate	2.36	43	12511	11.623	ug/l	92
19) Methyl tert-butyl Ether	2.45	73	47434	10.727	ug/l	93
20) Methylene Chloride	2.21	84	35813m	11.798	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	27122	10.431	ug/l	93
22) Diisopropyl ether	2.83	45	87382	11.158	ug/l	98
23) Vinyl Acetate	3.22	43	156187	48.709	ug/l	99
24) 1,1-Dichloroethane	2.90	63	50266	10.703	ug/l	98
25) 2-Butanone	4.38	43	48917	51.569	ug/l	97
26) 2,2-Dichloropropane	3.63	77	20045	10.527	ug/l	97
27) cis-1,2-Dichloroethene	3.51	96	37650	10.555	ug/l	97
28) Bromochloromethane	3.75	49	19247	10.030	ug/l	87
29) Tetrahydrofuran	4.12	42	21158	51.302	ug/l	95
30) Chloroform	3.89	83	54022	10.884	ug/l	94
31) Cyclohexane	3.71	56	52263m	11.339	ug/l	
32) 1,1,1-Trichloroethane	4.13	97	29344	9.719	ug/l	99
36) 1,1-Dichloropropene	4.32	75	45861	11.037	ug/l	98
37) Ethyl Acetate	4.15	43	17878	9.845	ug/l	94
38) Carbon Tetrachloride	4.02	117	31212	11.021	ug/l #	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.49	83	49778	10.322	ug/l	98
40) Benzene	4.67	78	121399	10.899	ug/l	97
41) Methacrylonitrile	4.78	41	10250	10.668	ug/l #	94
42) 1,2-Dichloroethane	4.98	62	27998	10.629	ug/l	98
43) Isopropyl Acetate	7.00	43	23737	10.794	ug/l #	90
44) Trichloroethene	5.54	130	38388	11.272	ug/l	95
45) 1,2-Dichloropropane	6.27	63	27859	10.486	ug/l	95
46) Dibromomethane	6.12	93	16465	10.136	ug/l #	82
47) Bromodichloromethane	6.42	83	38313	10.648	ug/l	95
48) Methyl methacrylate	6.74	41	12426	9.924	ug/l	90
49) 1,4-Dioxane	6.74	88	1990	181.125	ug/l #	52
51) 4-Methyl-2-Pentanone	8.29	43	80999	55.030	ug/l	100
52) Toluene	7.66	92	70624	10.947	ug/l	96
53) t-1,3-Dichloropropene	8.31	75	29720	10.522	ug/l	92
54) cis-1,3-Dichloropropene	7.33	75	44047	10.899	ug/l	92
55) 1,1,2-Trichloroethane	8.52	97	19130	10.439	ug/l	98
56) Ethyl methacrylate	8.66	69	22631	10.355	ug/l	91
57) 1,3-Dichloropropane	8.89	76	31389	10.320	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.32	63	15684	47.292	ug/l	95
59) 2-Hexanone	9.52	43	58111	53.868	ug/l	98
60) Dibromochloromethane	8.75	129	24632	9.669	ug/l	99
61) 1,2-Dibromoethane	9.02	107	19760	10.107	ug/l	91
64) Tetrachloroethene	8.18	164	31754	11.450	ug/l	89
65) Chlorobenzene	9.83	112	71984	10.718	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.97	131	30697	11.378	ug/l	92
67) Ethyl Benzene	9.93	91	129861	11.118	ug/l	100
68) m/p-Xylenes	10.16	106	96394	22.080	ug/l	90
69) o-Xylene	10.74	106	50152	10.968	ug/l	100
70) Styrene	10.81	104	75967	10.966	ug/l	98
71) Bromoform	10.80	173	14481	10.494	ug/l #	93
73) Isopropylbenzene	11.15	105	147722	10.817	ug/l	96
74) N-amyl acetate	11.40	43	34610	10.636	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.72	83	23978	10.226	ug/l	96
76) 1,2,3-Trichloropropane	11.82	75	17804	10.789	ug/l	97
77) Bromobenzene	11.52	156	36515	10.944	ug/l	95
78) n-propylbenzene	11.61	91	179738	11.335	ug/l	98
79) 2-Chlorotoluene	11.74	91	96590	10.959	ug/l	97
80) 1,3,5-Trimethylbenzene	11.85	105	124116	11.049	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.89	75	6757m	7.592	ug/l	
82) 4-Chlorotoluene	11.92	91	102769	11.372	ug/l	98
83) tert-Butylbenzene	12.16	119	128026	10.888	ug/l	99
84) 1,2,4-Trimethylbenzene	12.22	105	125193	11.369	ug/l	93
85) sec-Butylbenzene	12.32	105	171727	11.289	ug/l	97
86) p-Isopropyltoluene	12.48	119	147556	11.196	ug/l	98
87) 1,3-Dichlorobenzene	12.49	146	69032	11.136	ug/l	94
88) 1,4-Dichlorobenzene	12.59	146	65200	10.779	ug/l	97
89) n-Butylbenzene	12.87	91	144006	11.453	ug/l	94
90) Hexachloroethane	12.93	117	33951	10.819	ug/l	95
91) 1,2-Dichlorobenzene	12.96	146	67851	11.657	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.66	75	3327	9.364	ug/l	74

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	46996	11.585	ug/l	95
94) Hexachlorobutadiene	14.21	225	29649	10.992	ug/l	93
95) Naphthalene	14.47	128	70280	9.886	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	40080	10.555	ug/l	95

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

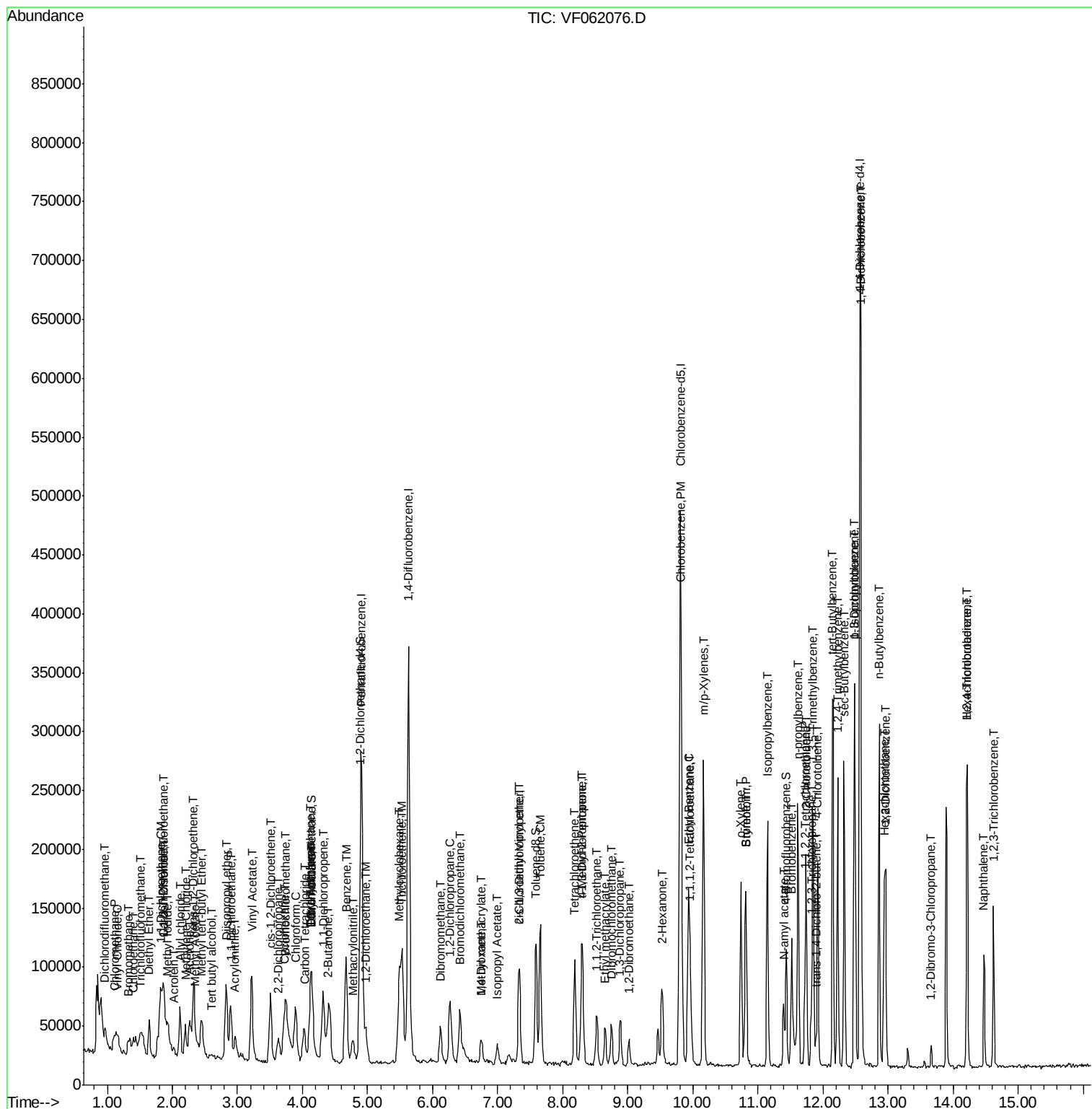
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032219\
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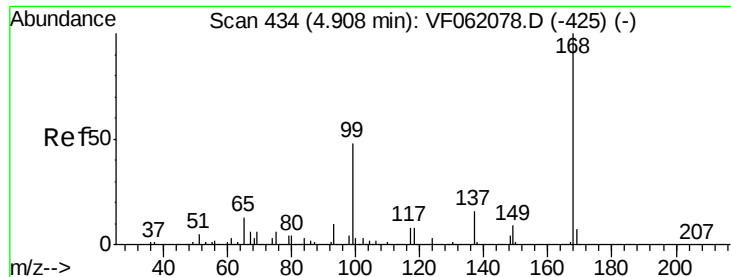
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleID :

VSTDIC010

Tot Ion:168 Resp: 290251

Ion Ratio Lower Upper

168 100

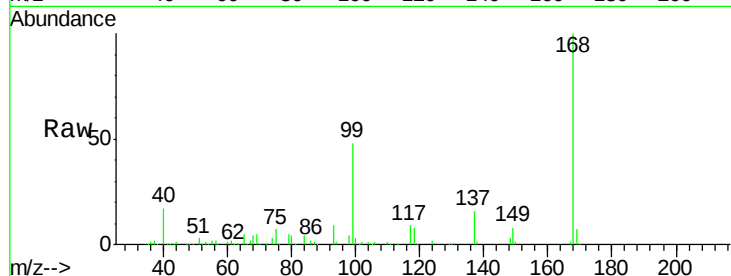
99 48.2 38.2 57.4

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

4.90

100000

80000

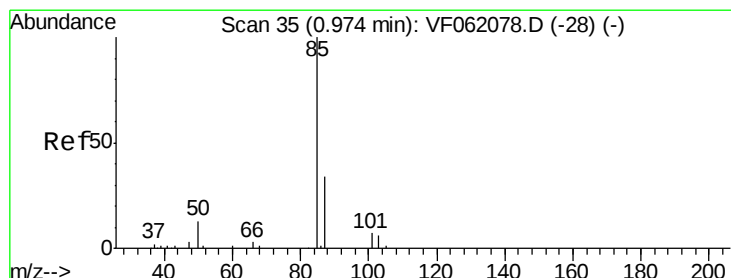
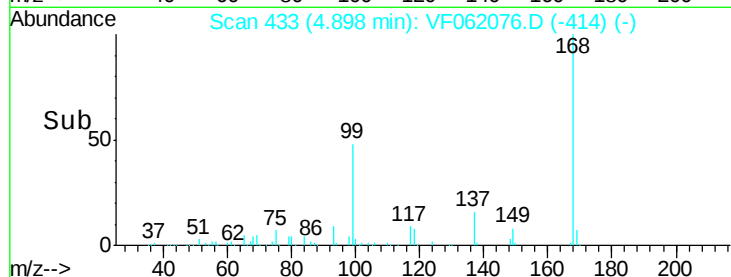
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 10.600 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062076.D

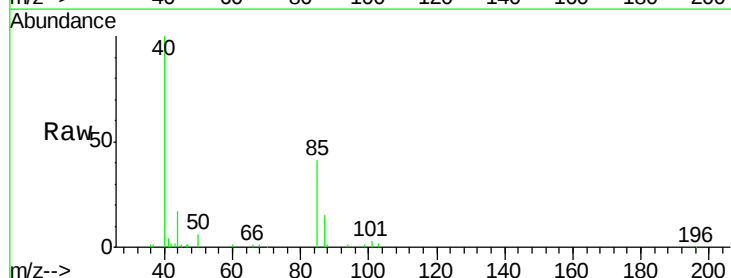
Acq: 22 Mar 2019 11:04

Tgt Ion: 85 Resp: 39415

Ion Ratio Lower Upper

85 100

87 35.9 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

12000

10000

8000

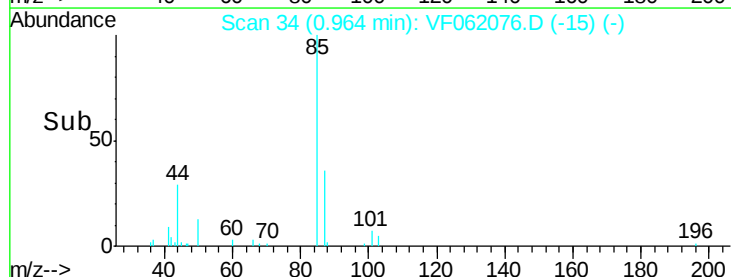
6000

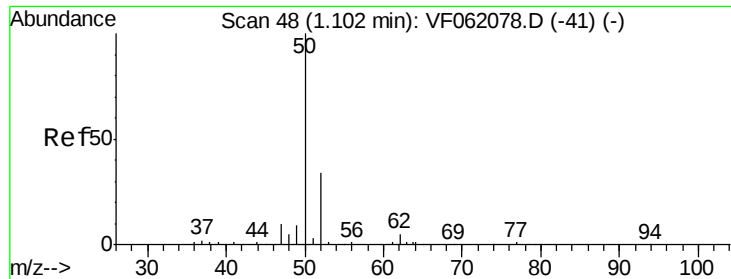
4000

2000

0

Time--> 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 10.244 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampled :

VSTDIC010

Tot Ion: 50 Resp: 39856

Ion Ratio Lower Upper

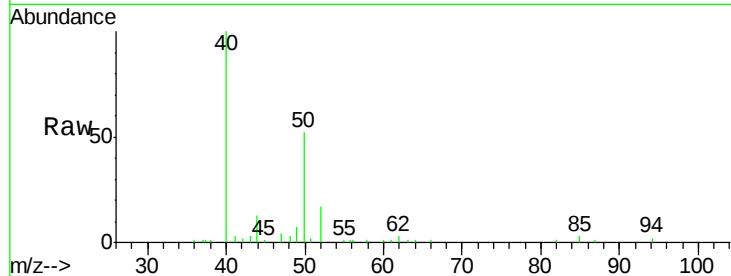
50 100

52 32.4 26.1 39.1

Manual Integrations
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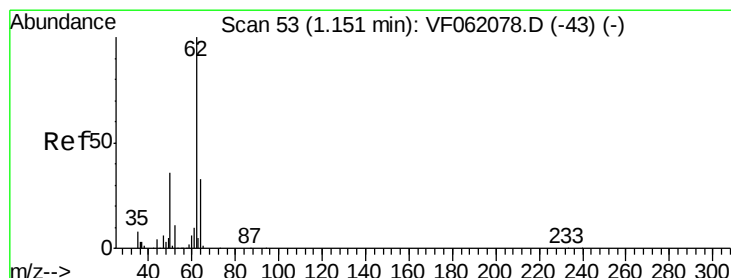
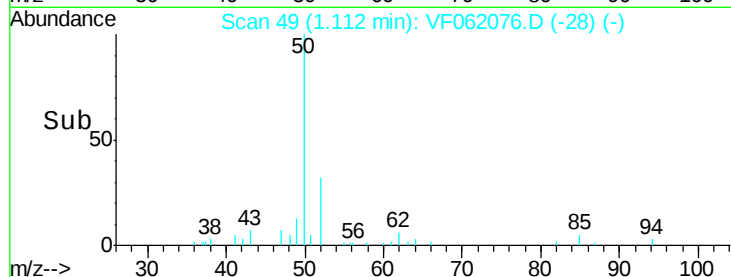
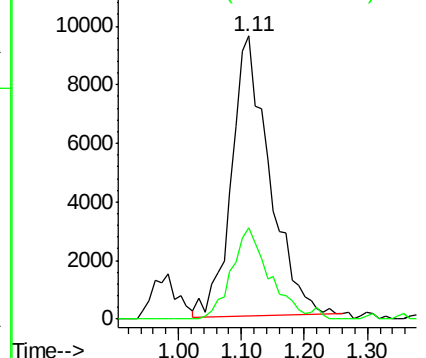
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 9.990 ug/l

RT: 1.16 min Scan# 54

Delta R.T. 0.01 min

Lab File: VF062076.D

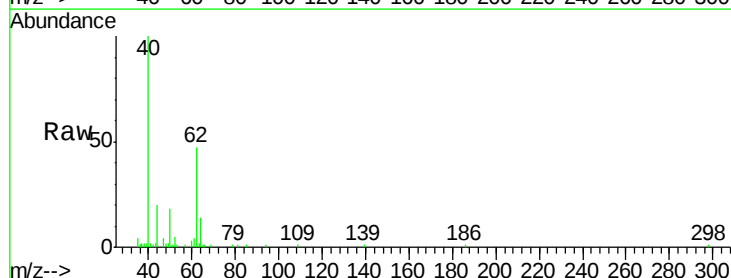
Acq: 22 Mar 2019 11:04

Tgt Ion: 62 Resp: 35951

Ion Ratio Lower Upper

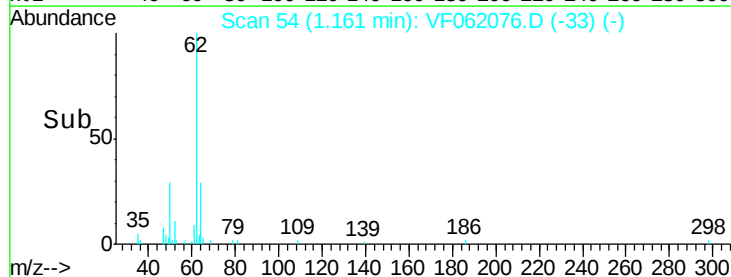
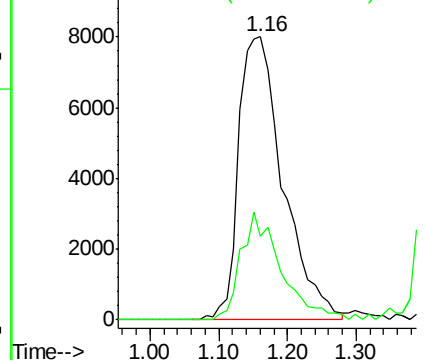
62 100

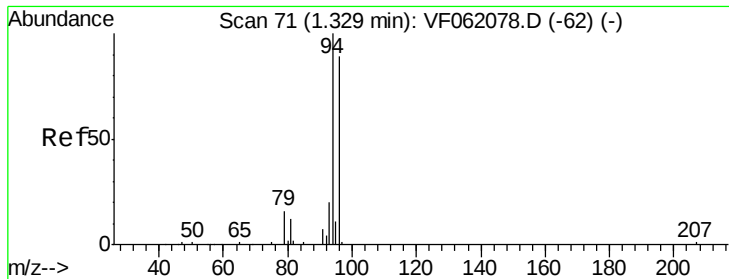
64 29.5 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 11.154 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

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Tot Ion: 94 Resp: 28856

Ion Ratio Lower Upper

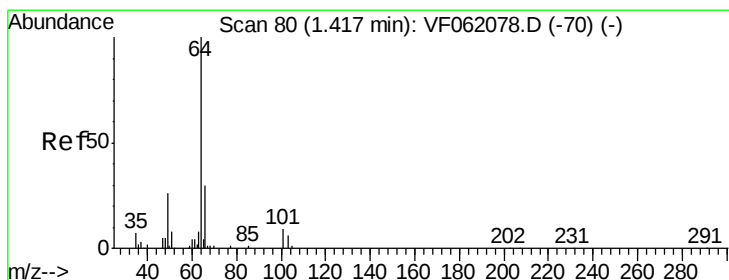
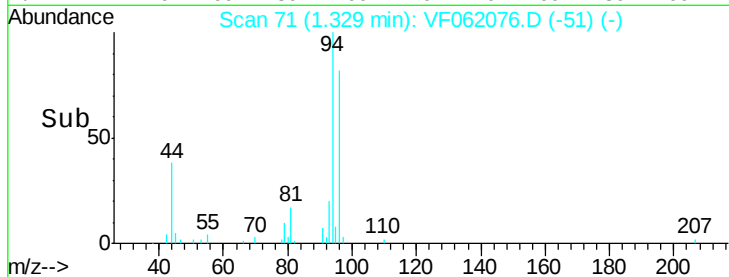
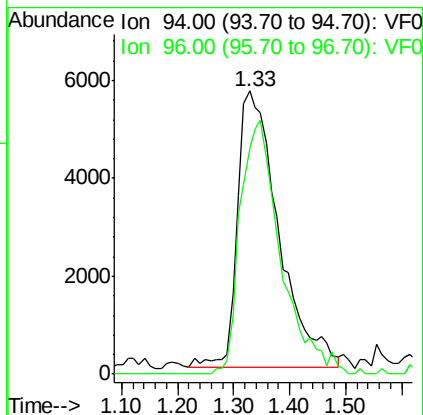
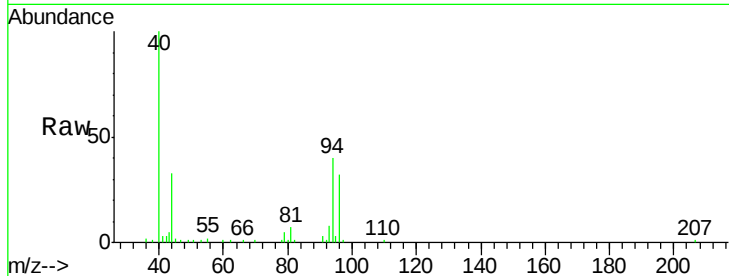
94 100

96 79.5 70.9 106.3

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#6

Chloroethane

Concen: 10.063 ug/l

RT: 1.41 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF062076.D

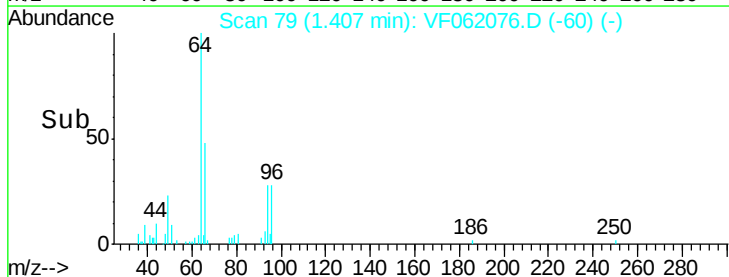
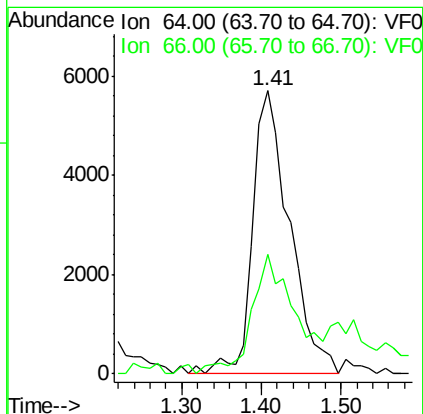
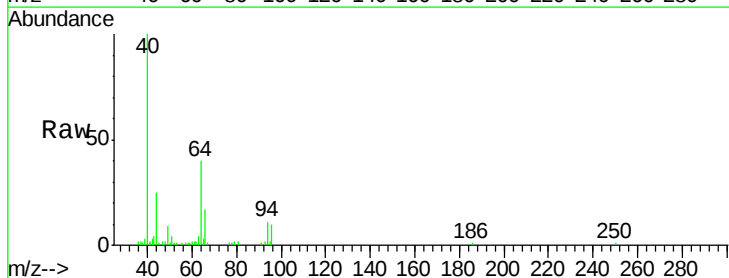
Acq: 22 Mar 2019 11:04

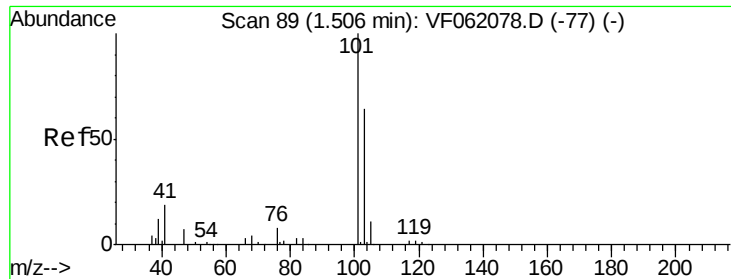
Tgt Ion: 64 Resp: 18231

Ion Ratio Lower Upper

64 100

66 42.4 24.5 36.7#





#7

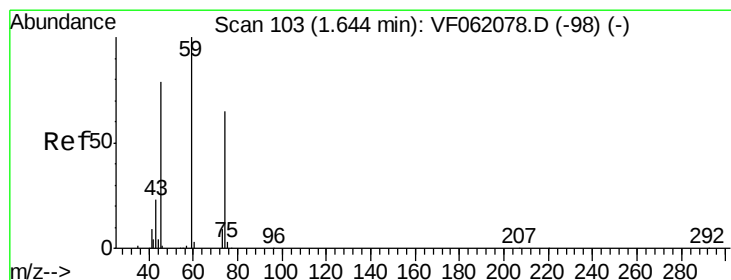
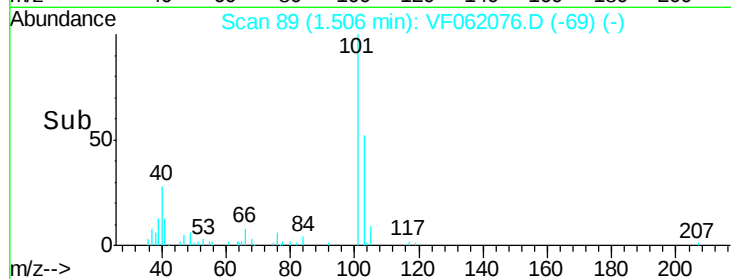
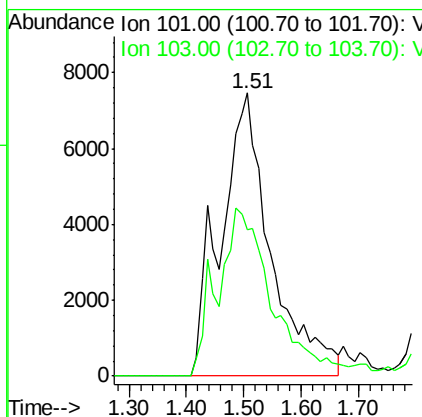
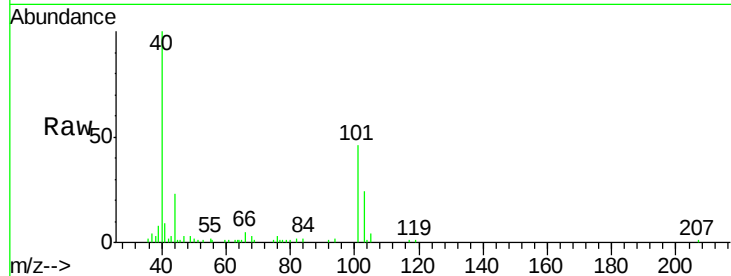
Trichlorofluoromethane
 Concen: 10.921 ug/l m
 RT: 1.51 min Scan# 89
 Delta R.T. 0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Instrument :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	51.7	51.5	77.3

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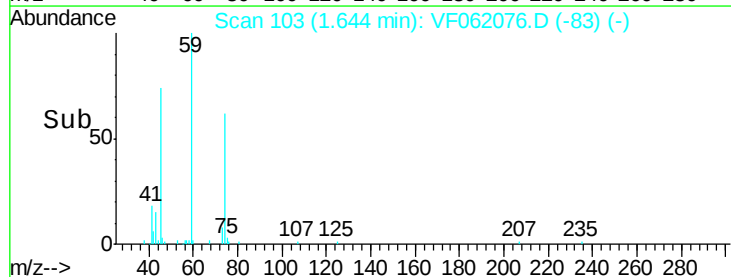
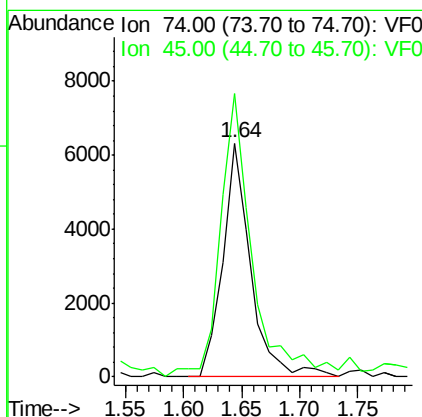
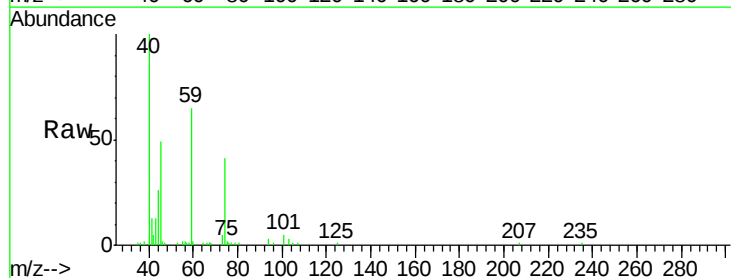
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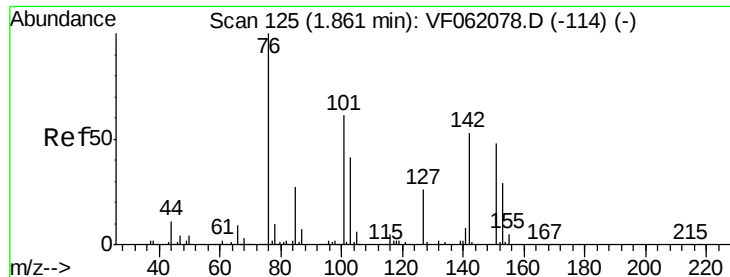


#8

Diethyl Ether
 Concen: 10.574 ug/l
 RT: 1.64 min Scan# 103
 Delta R.T. -0.00 min
 Lab File: VF062076.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	121.2	61.4	184.2





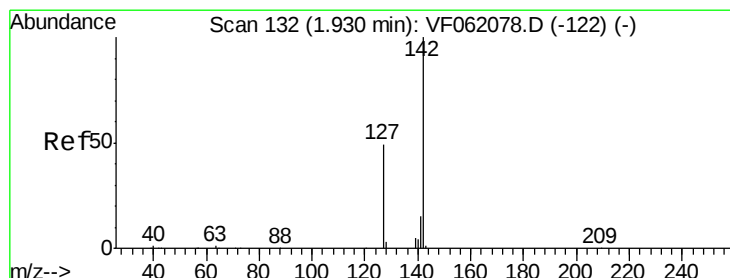
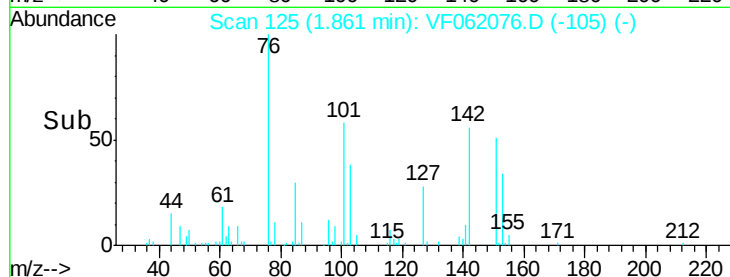
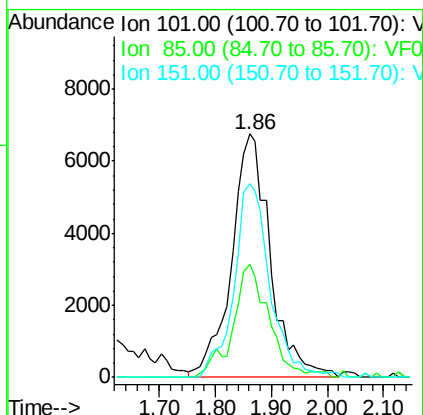
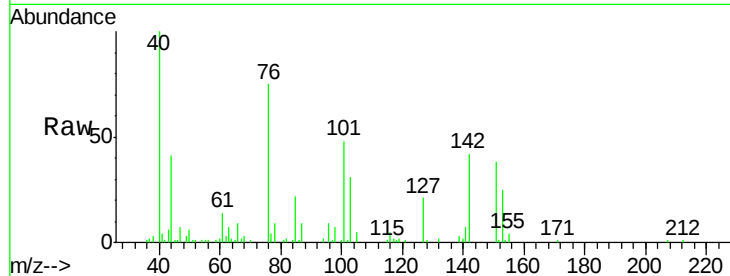
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.921 ug/l
RT: 1.86 min Scan# 125
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
101	100		
85	46.6	34.6	52.0
151	79.7	61.7	92.5

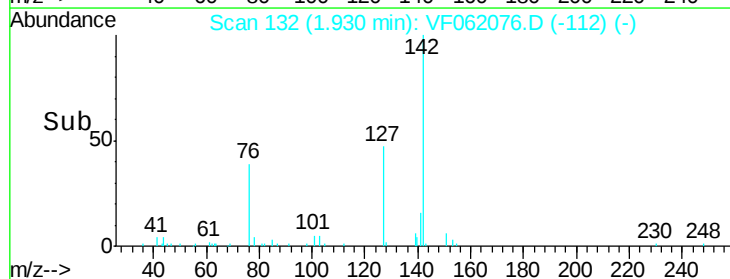
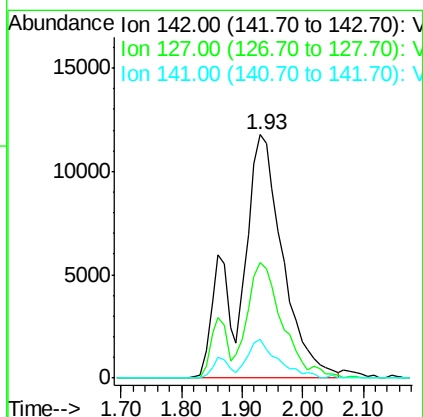
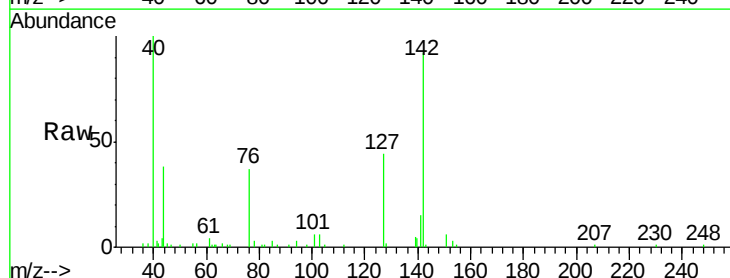
Manual Integrations
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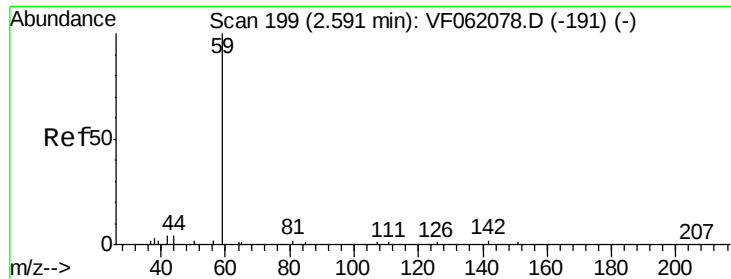
MMDadoda
3/27/2019 11:57:09 AM



#10
Methyl Iodide
Concen: 10.702 ug/l m
RT: 1.93 min Scan# 132
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
142	100		
127	47.3	39.1	58.7
141	15.9	12.2	18.4





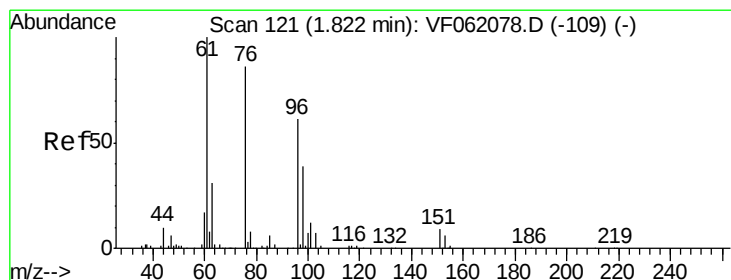
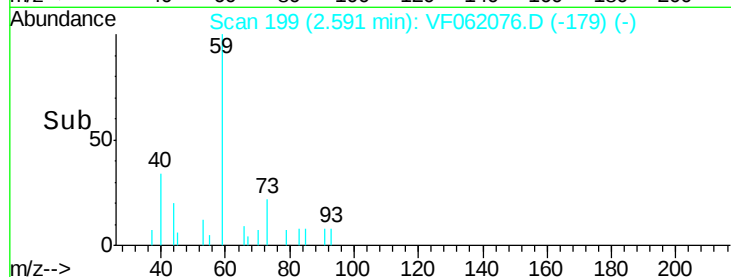
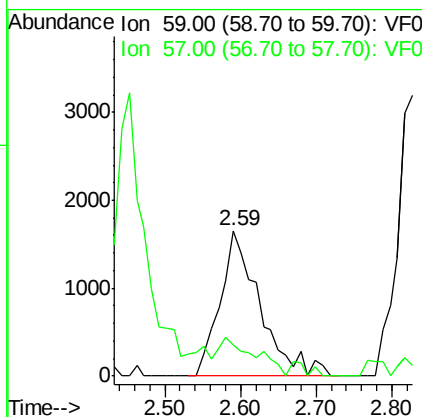
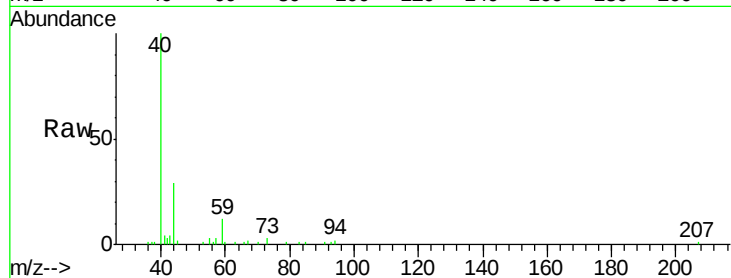
#11
Tert butyl alcohol
Concen: 50.637 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	21.8	11.0	16.4#

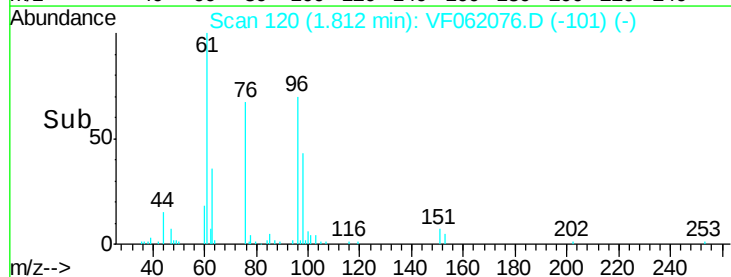
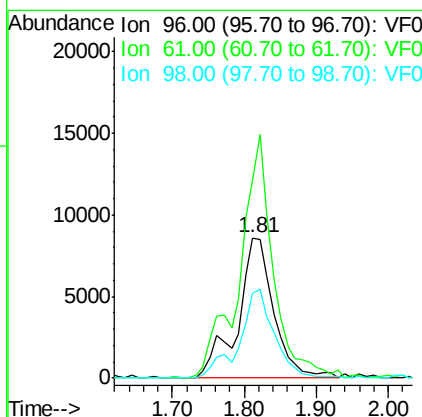
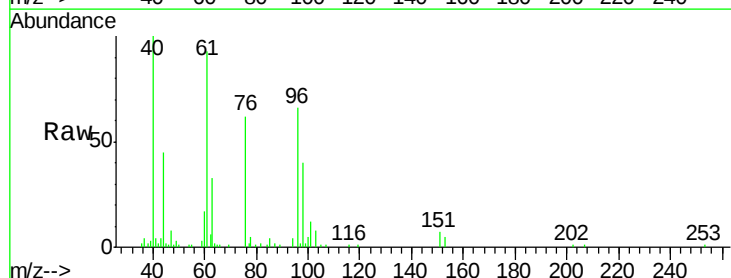
Manual Integrations
APPROVED

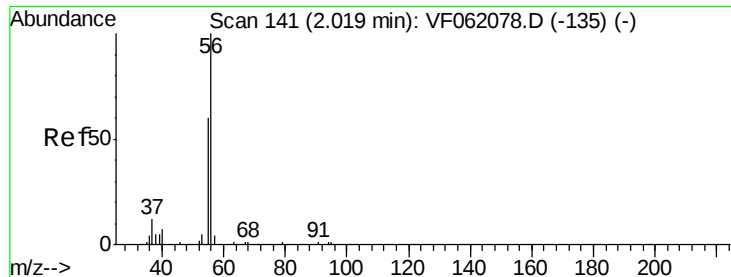
MMDadoda
3/27/2019 11:57:09 AM



#12
1,1-Dichloroethene
Concen: 10.824 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	140.8	131.0	196.6
98	60.6	51.5	77.3





#13

Acrolein

Concen: 59.315 ug/l

RT: 2.03 min Scan# 142

Delta R.T. 0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 56 Resp: 8492

Ion Ratio Lower Upper

56 100

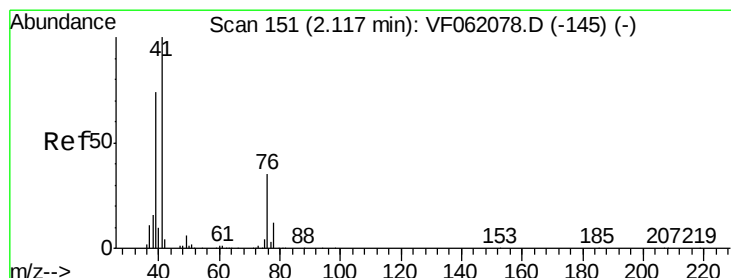
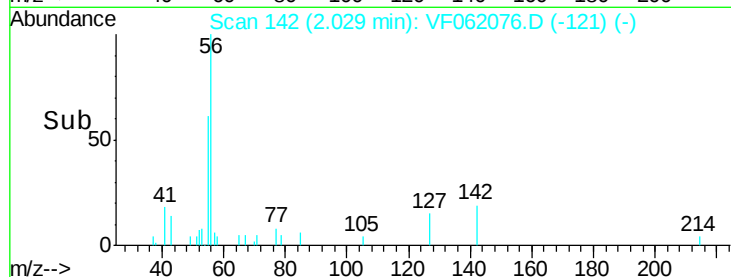
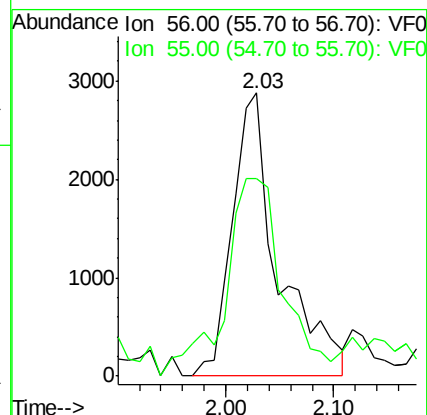
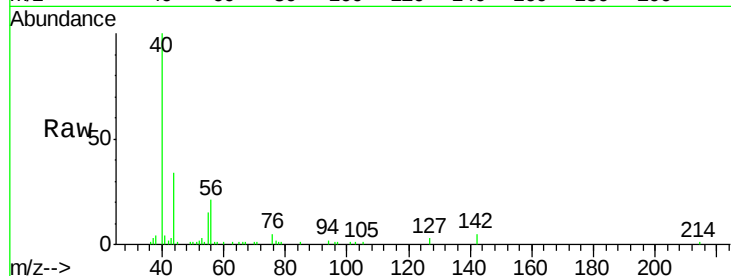
55 69.8 49.0 73.4

Manual Integrations

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#14

Allyl chloride

Concen: 10.875 ug/l

RT: 2.12 min Scan# 151

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

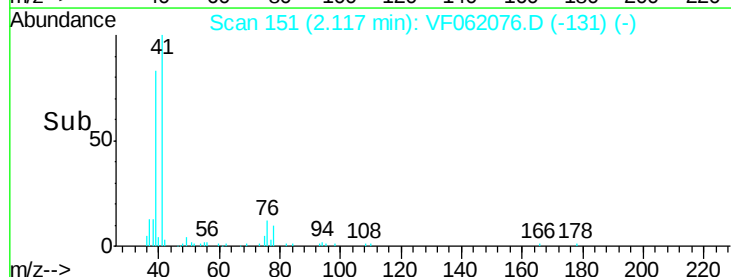
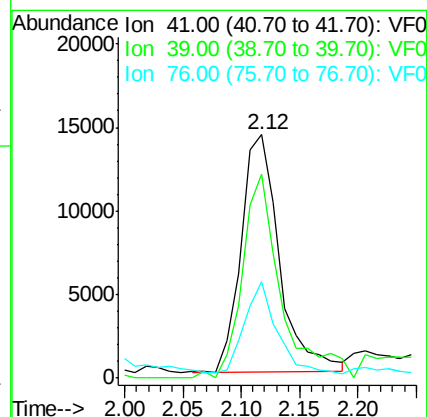
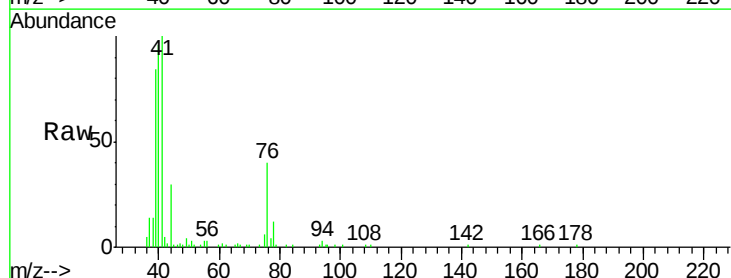
Tgt Ion: 41 Resp: 32485

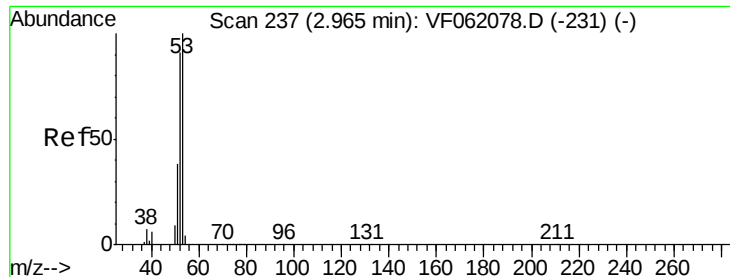
Ion Ratio Lower Upper

41 100

39 83.6 59.8 89.8

76 39.6 30.0 45.0





#15

Acrylonitrile

Concen: 52.876 ug/l

RT: 2.97 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

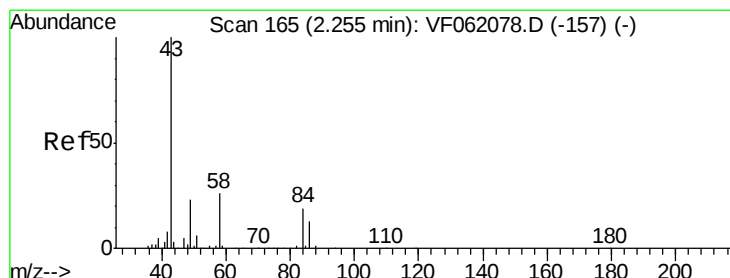
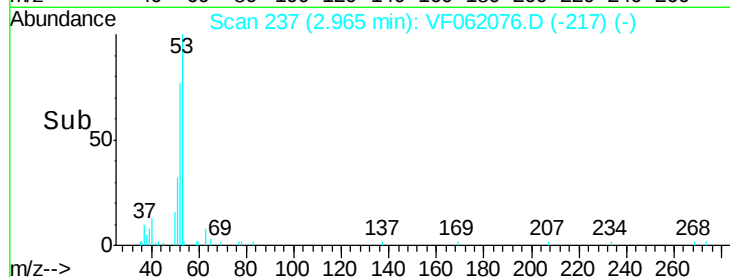
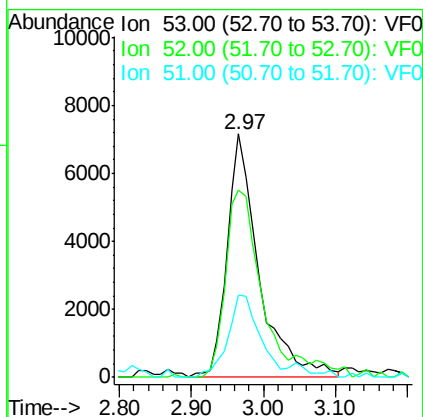
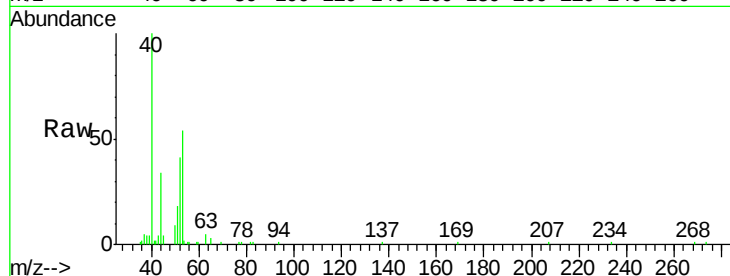
ClientSampleId :

VSTDIC010

Tot Ion:	53	Resp:	22087
Ion	Ratio	Lower	Upper
53	100		
52	76.8	72.3	108.5
51	33.8	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 45.550 ug/l

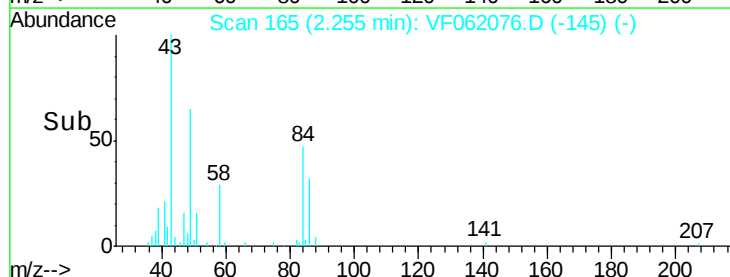
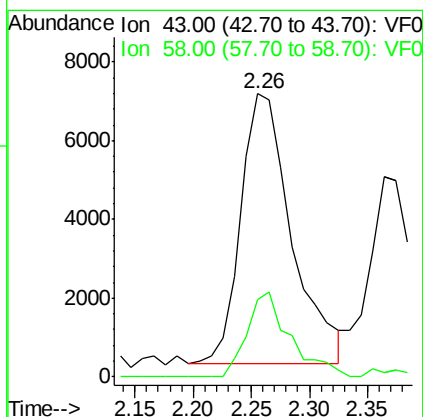
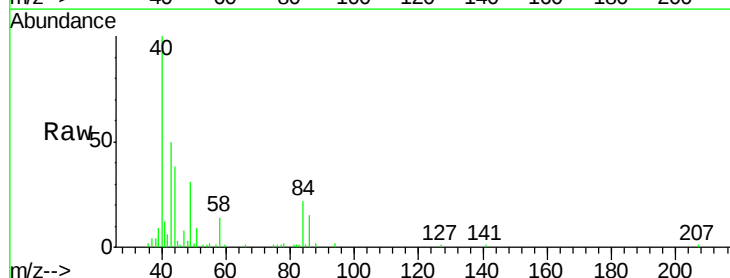
RT: 2.26 min Scan# 165

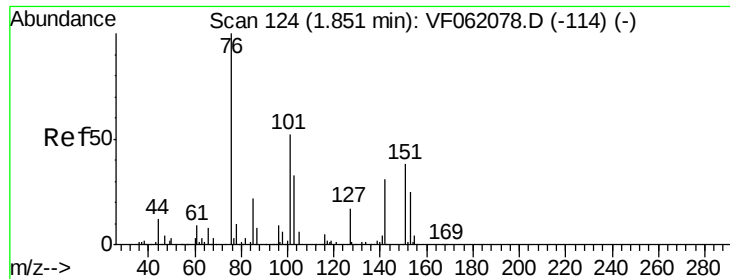
Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion:	43	Resp:	20697
Ion	Ratio	Lower	Upper
43	100		
58	27.2	20.8	31.2





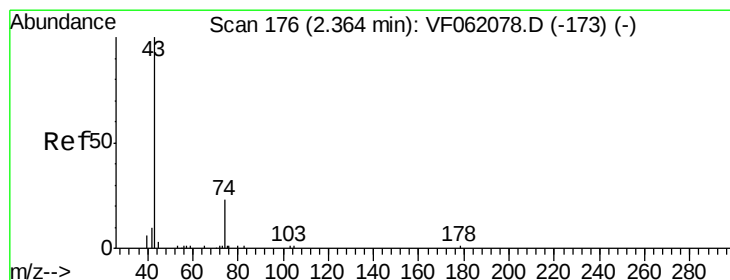
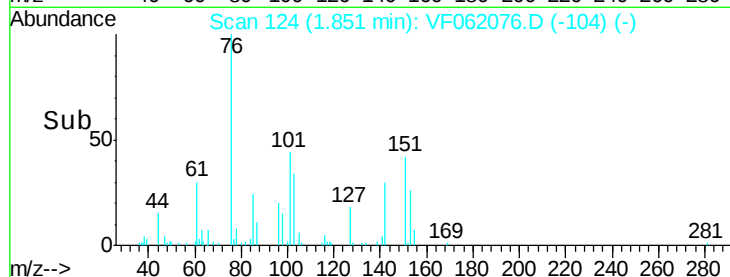
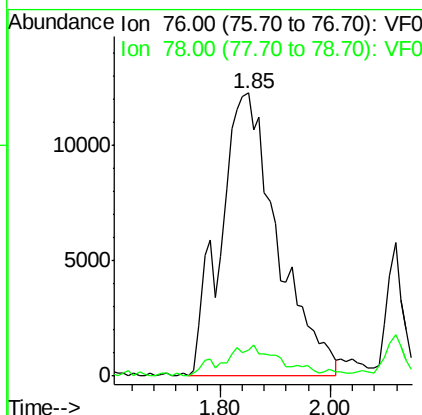
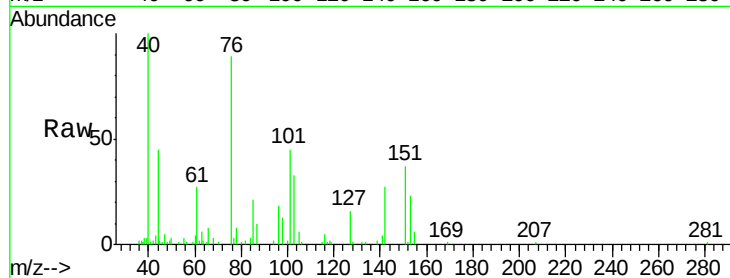
#17
Carbon Disulfide
Concen: 10.535 ug/l m
RT: 1.85 min Scan# 124
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampled :
VSTDIC010

Tot Ion: 76 Resp: 88105
Ion Ratio Lower Upper
76 100
78 9.2 7.9 11.9

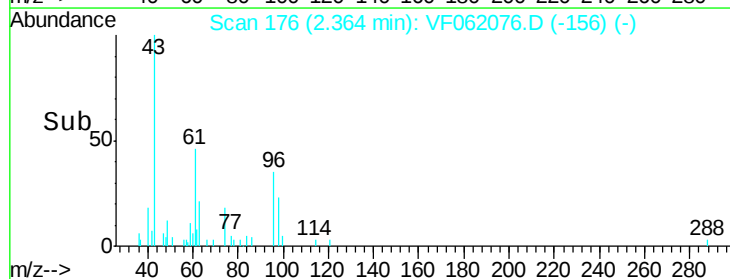
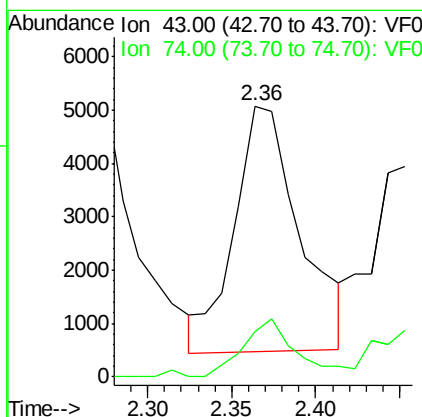
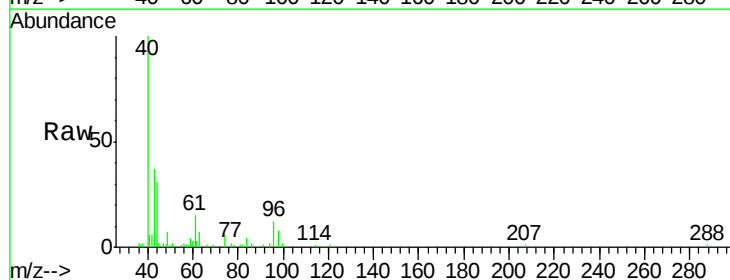
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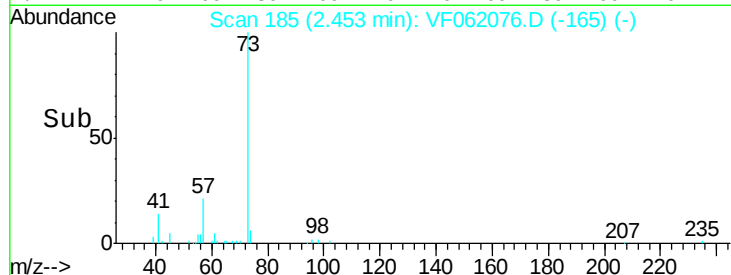
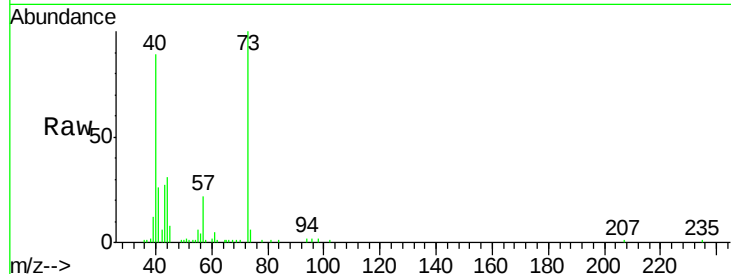
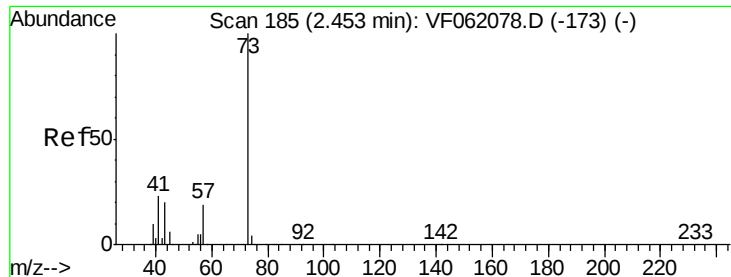
MMDadoda
3/27/2019 11:57:09 AM



#18
Methyl Acetate
Concen: 11.623 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion: 43 Resp: 12511
Ion Ratio Lower Upper
43 100
74 16.6 16.3 24.5





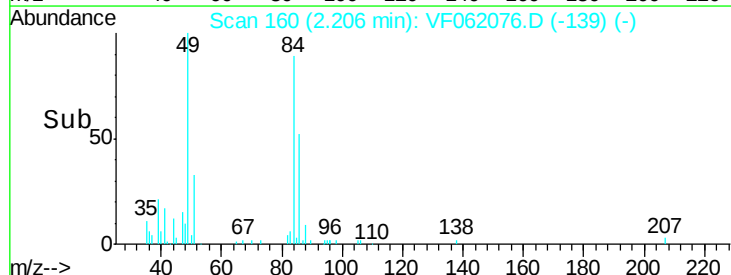
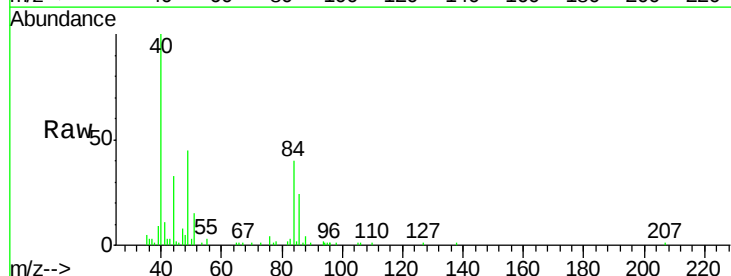
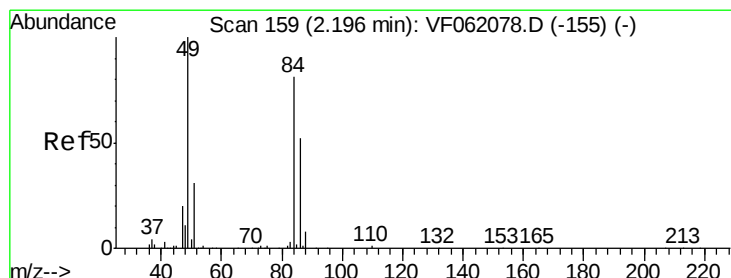
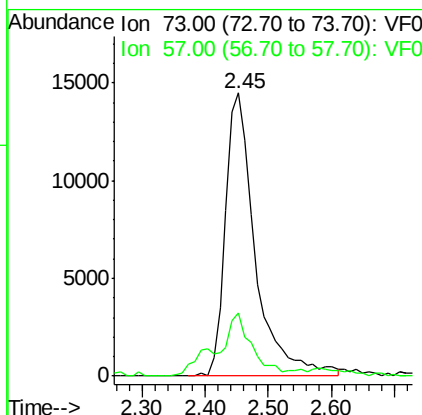
#19
Methyl tert-butyl Ether
Concen: 10.727 ug/l
RT: 2.45 min Scan# 185
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tot Ion: 73 Resp: 47434
Ion Ratio Lower Upper
73 100
57 22.2 15.1 22.7

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

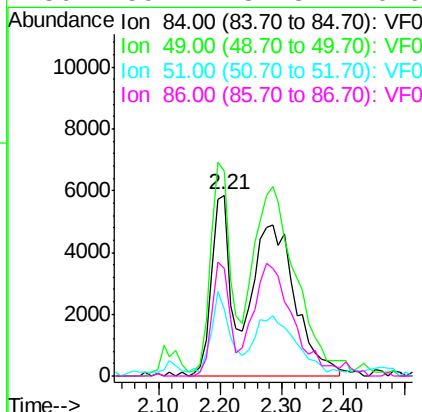
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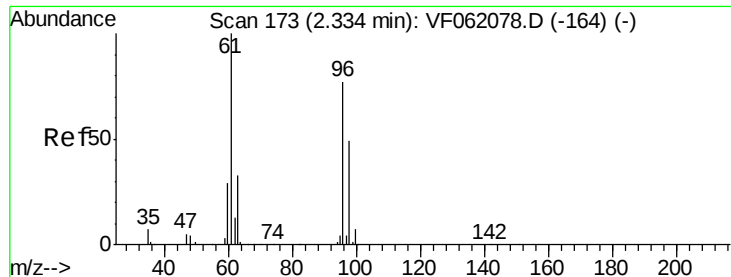
MMDadoda
3/27/2019 11:57:09 AM



#20
Methylene Chloride
Concen: 11.798 ug/l m
RT: 2.21 min Scan# 160
Delta R.T. 0.01 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion: 84 Resp: 35813
Ion Ratio Lower Upper
84 100
49 113.0 100.4 150.6
51 36.7 31.0 46.6
86 59.2 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 10.431 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

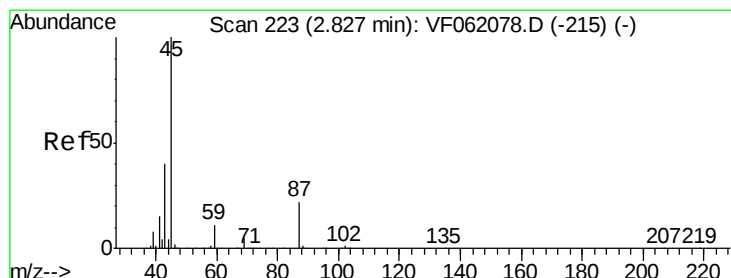
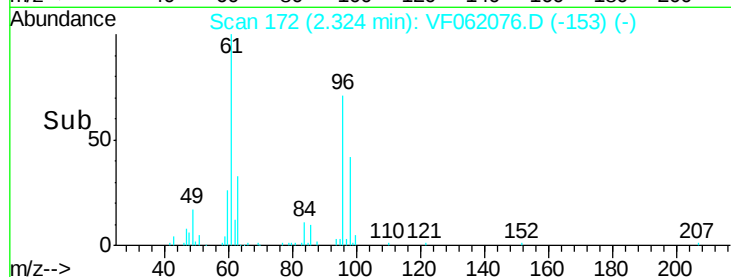
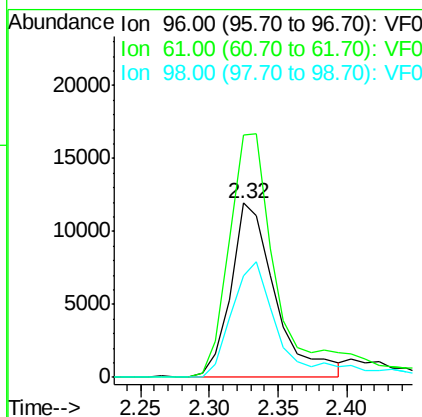
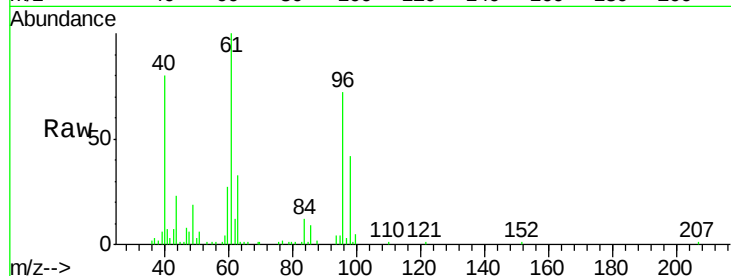
ClientSampleId :

VSTDIC010

Tot Ion:	96	Resp:	27122
Ion	Ratio	Lower	Upper
96	100		
61	139.2	104.5	156.7
98	58.2	51.2	76.8

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#22

Diisopropyl ether

Concen: 11.158 ug/l

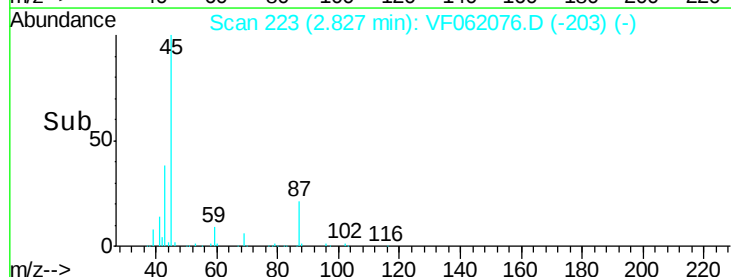
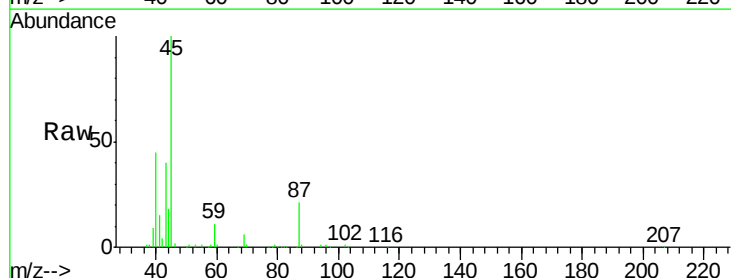
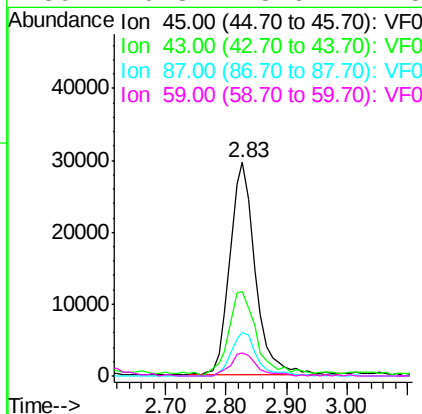
RT: 2.83 min Scan# 223

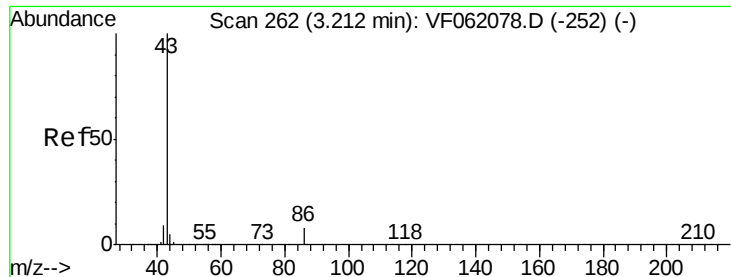
Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion:	45	Resp:	87382
Ion	Ratio	Lower	Upper
45	100		
43	39.6	32.5	48.7
87	20.7	17.4	26.2
59	10.8	8.6	12.8





#23

Vinyl Acetate

Concen: 48.709 ug/l

RT: 3.22 min Scan# 263

Delta R.T. 0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 156187

Ion Ratio Lower Upper

43 100

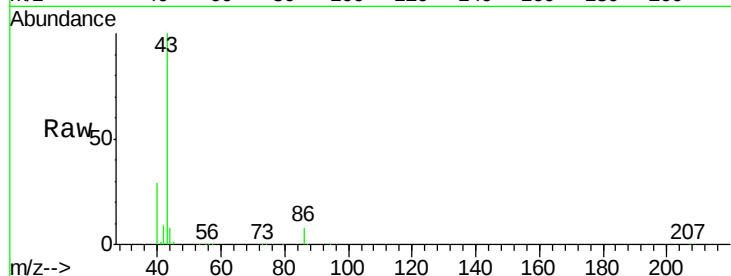
86 8.2 6.8 10.2

Manual Integrations

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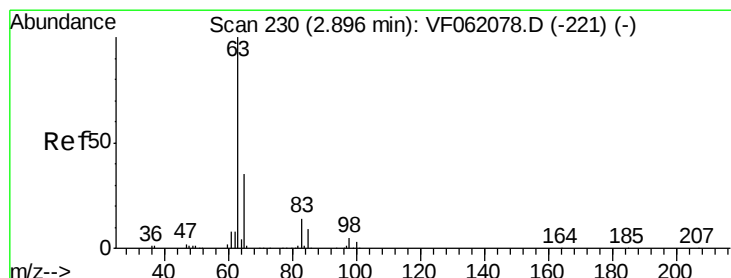
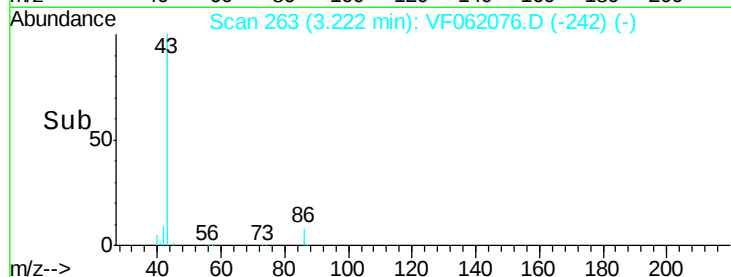
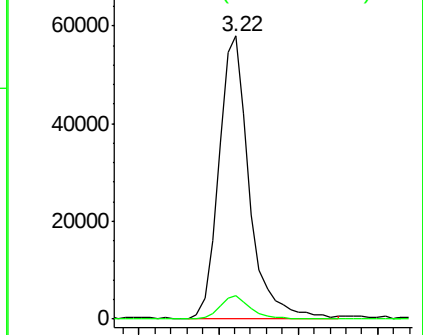
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 10.703 ug/l

RT: 2.90 min Scan# 230

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

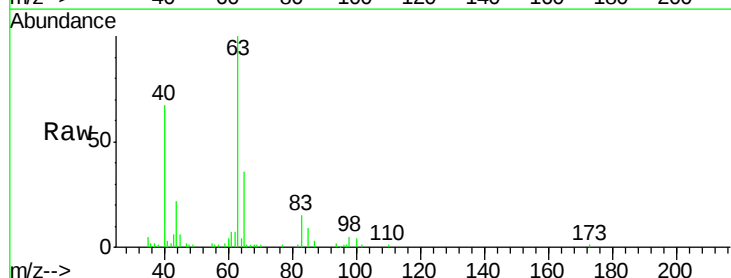
Tgt Ion: 63 Resp: 50266

Ion Ratio Lower Upper

63 100

98 5.0 2.7 8.1

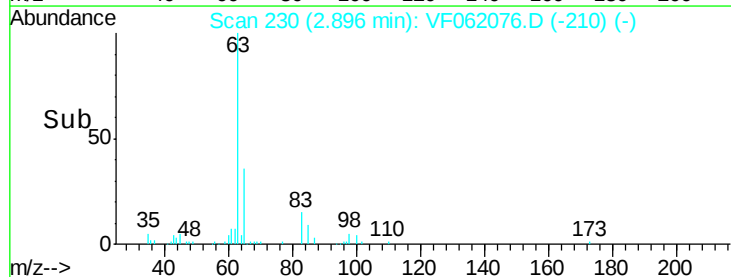
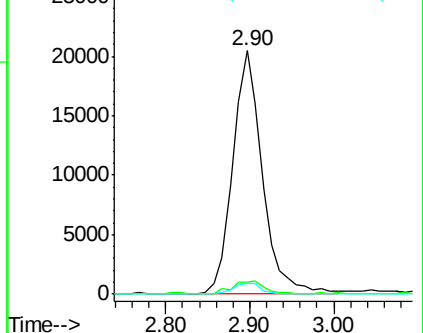
100 4.3 1.7 5.1

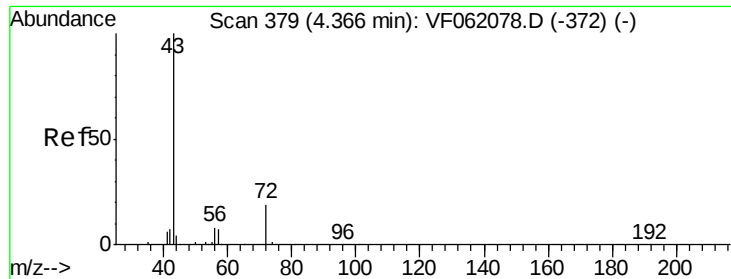


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 51.569 ug/l

RT: 4.38 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 48917

Ion Ratio Lower Upper

43 100

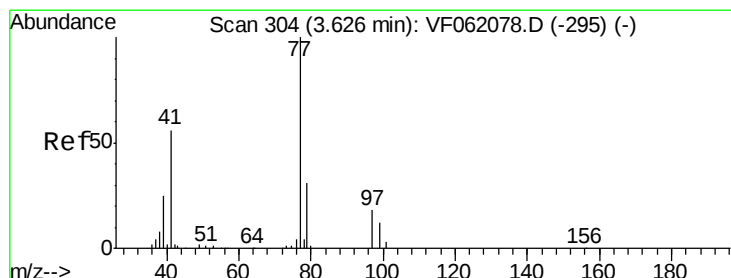
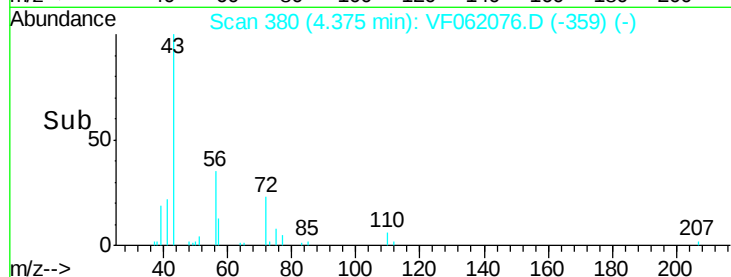
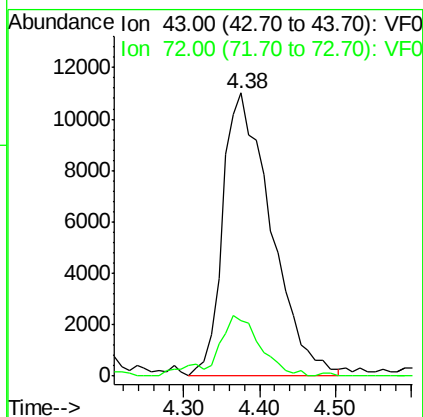
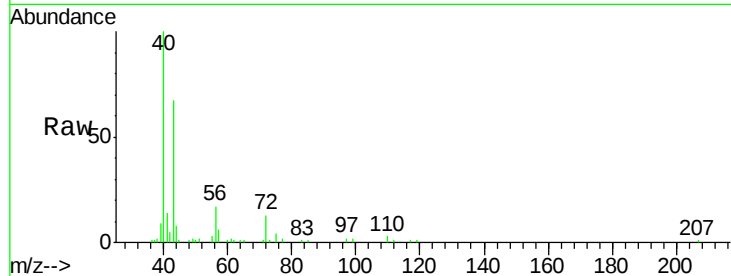
72 19.4 16.7 25.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 10.527 ug/l

RT: 3.63 min Scan# 304

Delta R.T. 0.00 min

Lab File: VF062076.D

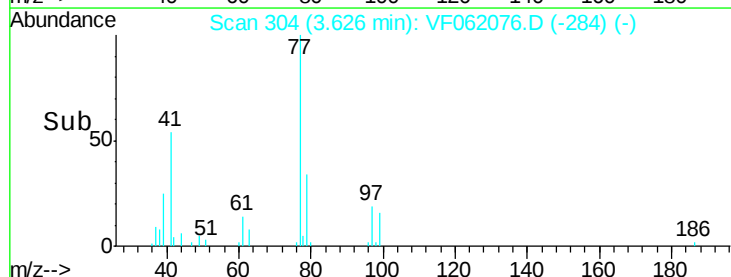
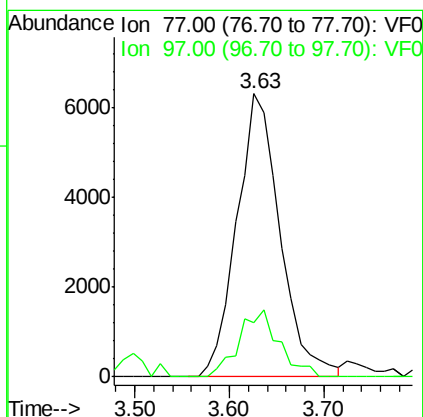
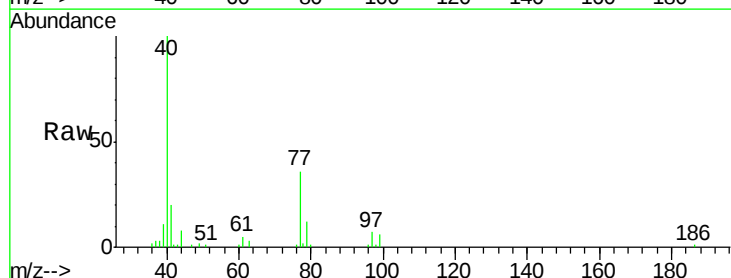
Acq: 22 Mar 2019 11:04

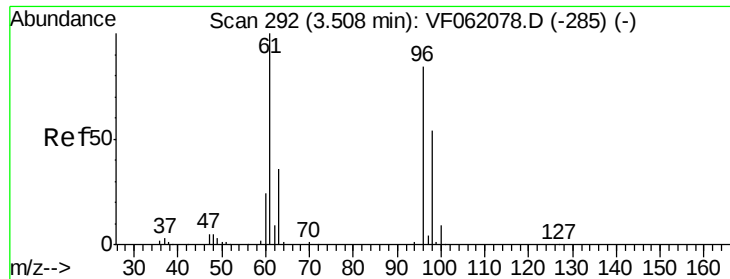
Tgt Ion: 77 Resp: 20045

Ion Ratio Lower Upper

77 100

97 19.2 10.3 30.9





#27

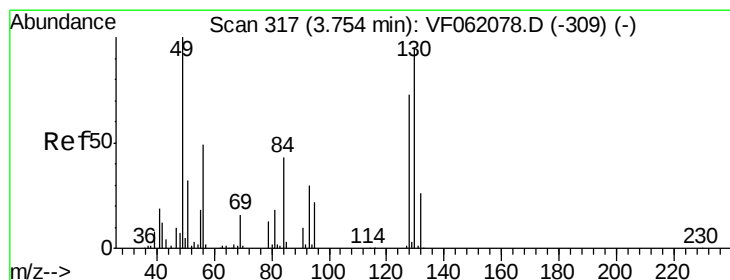
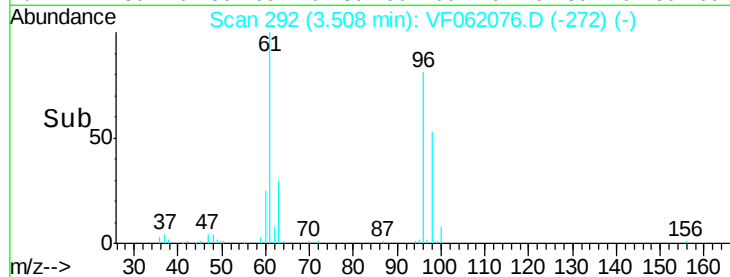
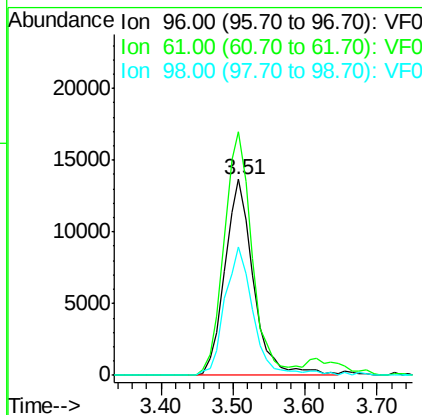
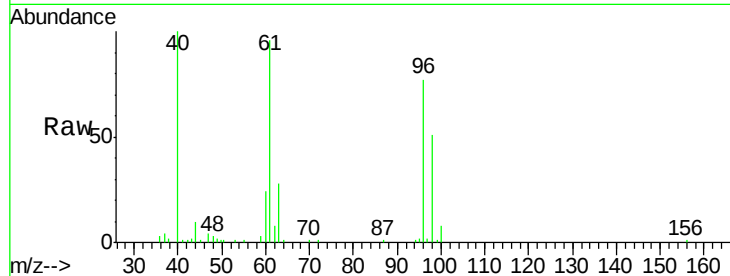
cis-1,2-Dichloroethene
Concen: 10.555 ug/l
RT: 3.51 min Scan# 292
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	124.1	0.0	239.0
98	65.6	0.0	128.2

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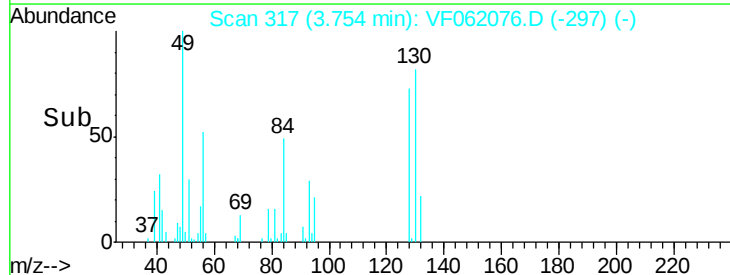
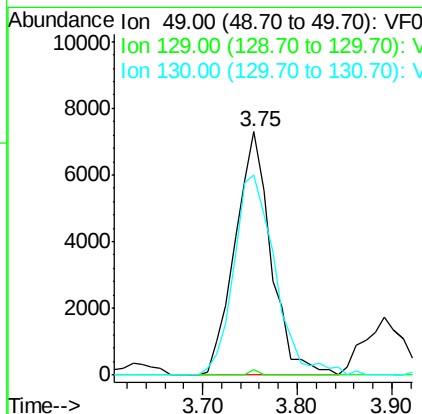
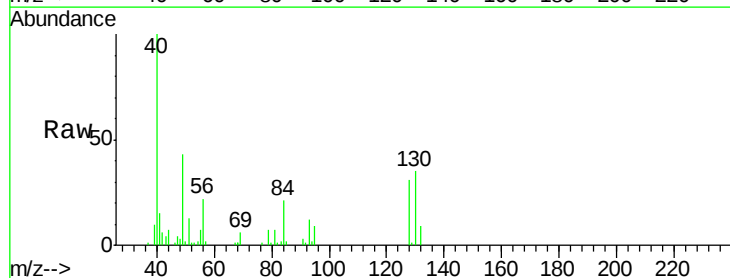
MMDadoda
3/27/2019 11:57:09 AM

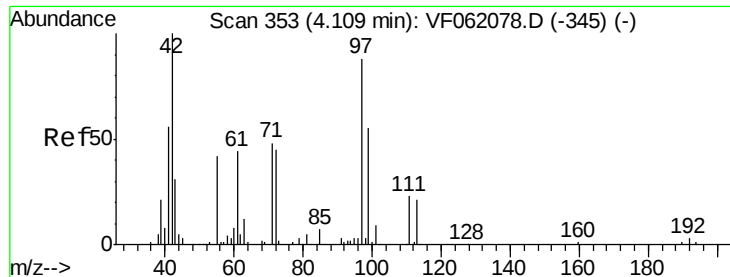


#28

Bromochloromethane
Concen: 10.030 ug/l
RT: 3.75 min Scan# 317
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	5.6
130	82.0	75.5	113.3





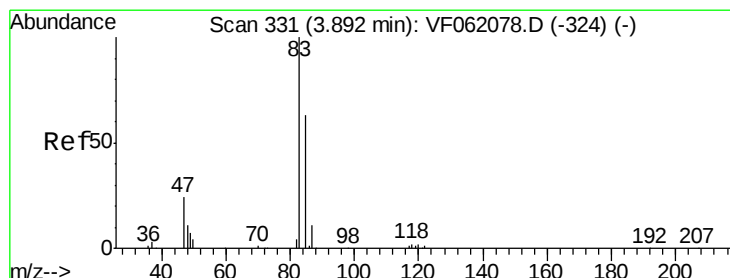
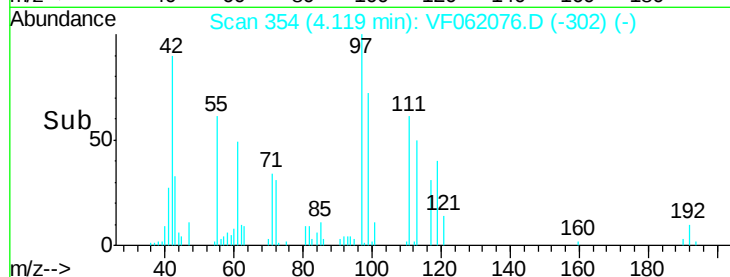
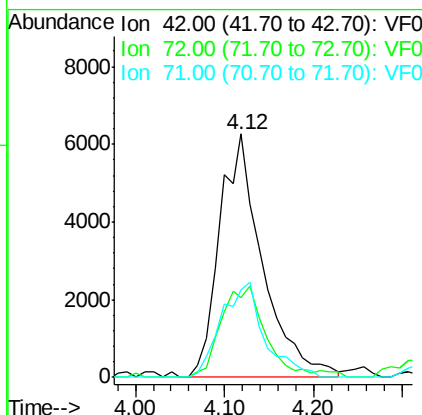
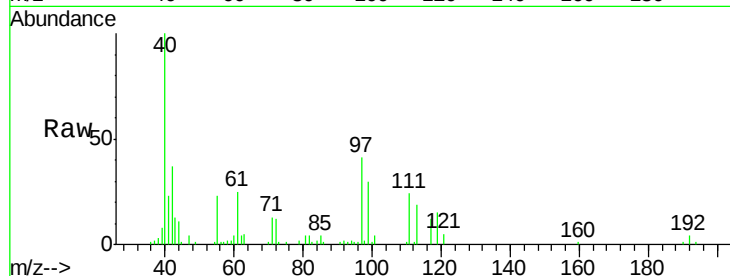
#29
Tetrahydrofuran
Concen: 51.302 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.5	33.3	49.9
71	39.0	35.0	52.4

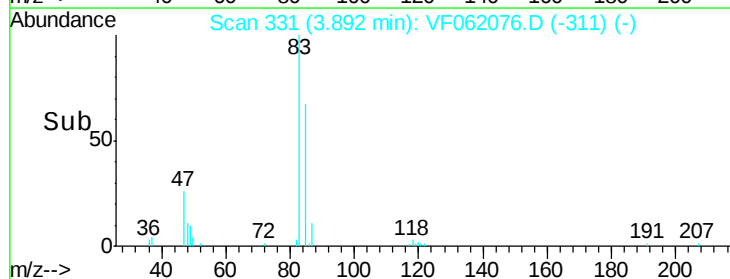
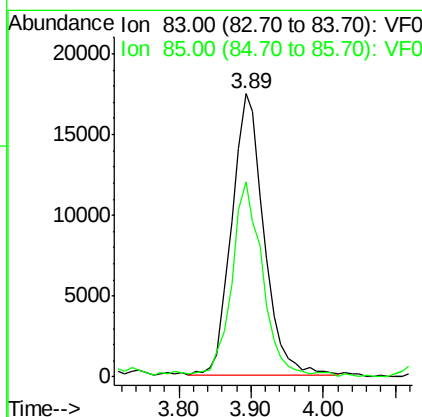
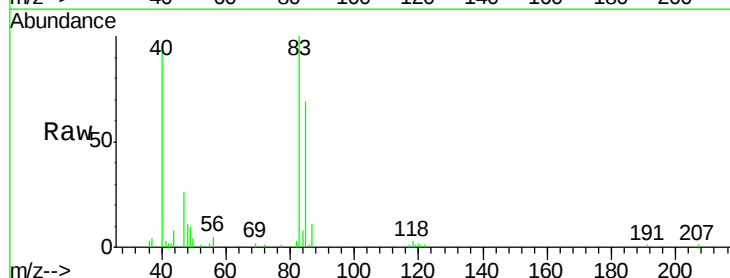
Manual Integrations
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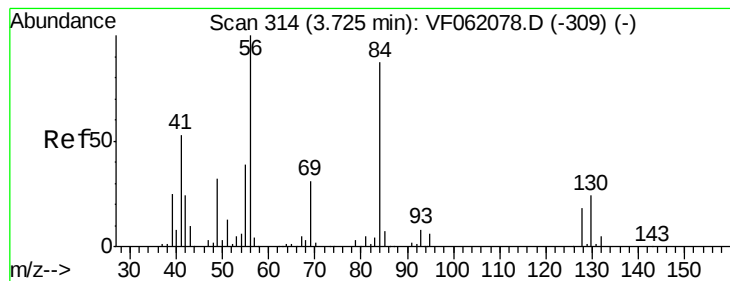
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#30
Chloroform
Concen: 10.884 ug/l
RT: 3.89 min Scan# 331
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.0	51.5	77.3





#31

Cyclohexane

Concen: 11.339 ug/l m

RT: 3.71 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 56 Resp: 52263

Ion Ratio Lower Upper

56 100

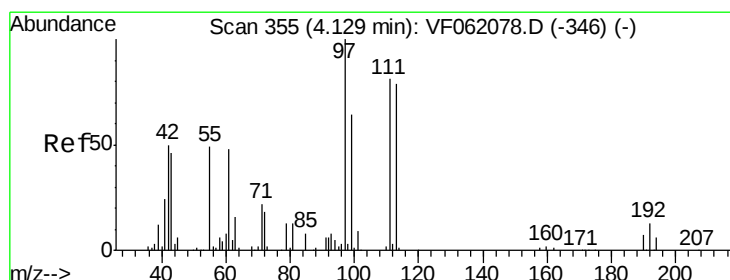
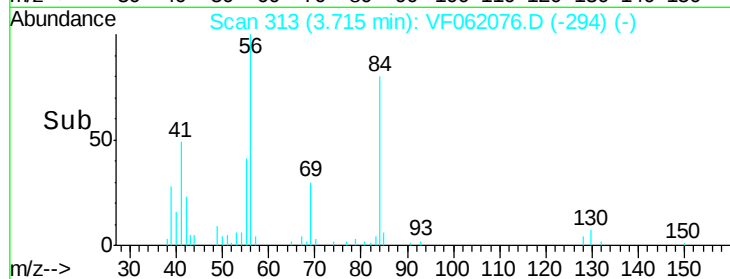
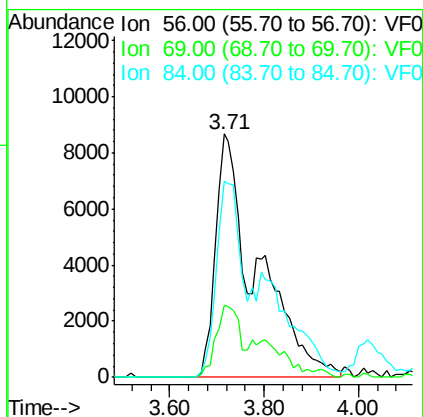
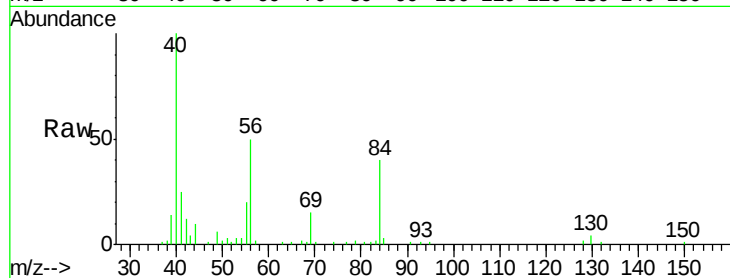
69 29.5 25.9 38.9

84 80.4 71.1 106.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 9.719 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

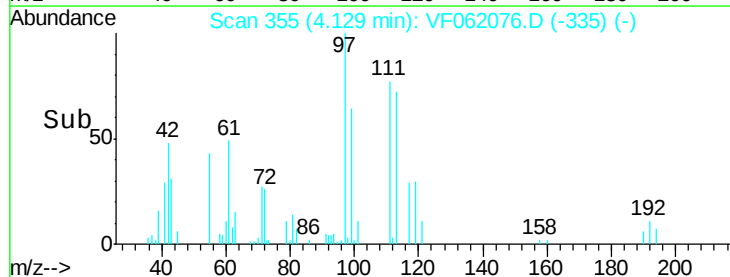
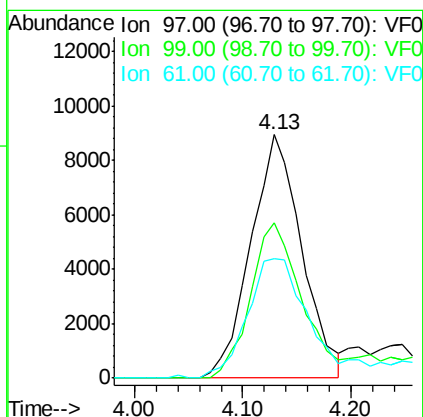
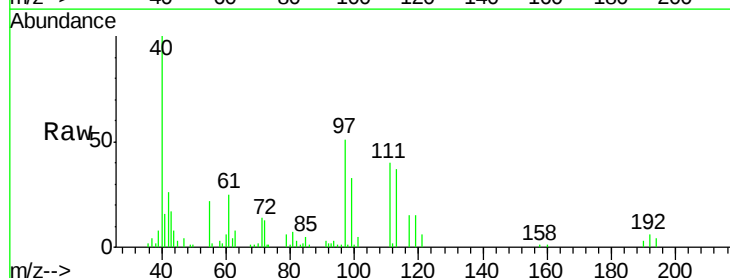
Tgt Ion: 97 Resp: 29344

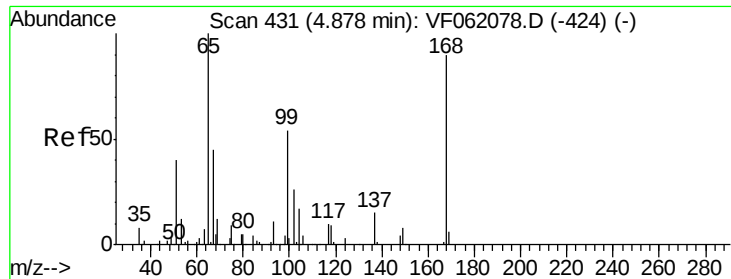
Ion Ratio Lower Upper

97 100

99 63.7 51.3 76.9

61 49.3 39.0 58.6





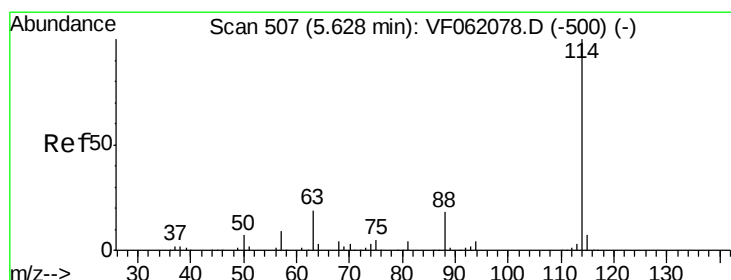
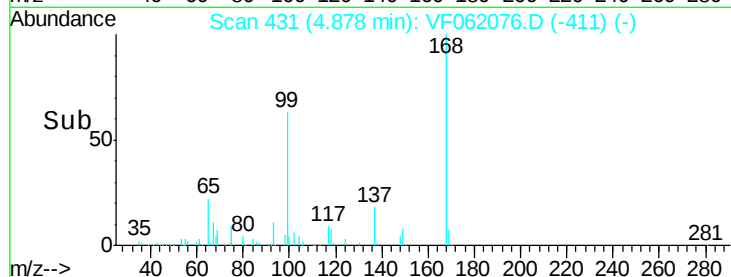
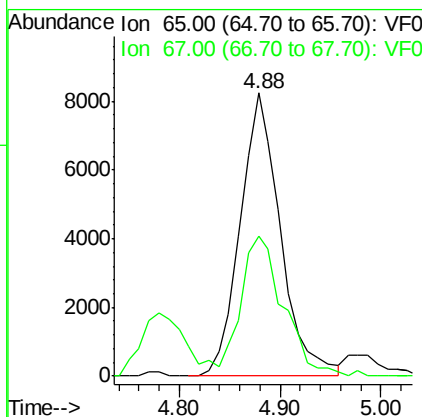
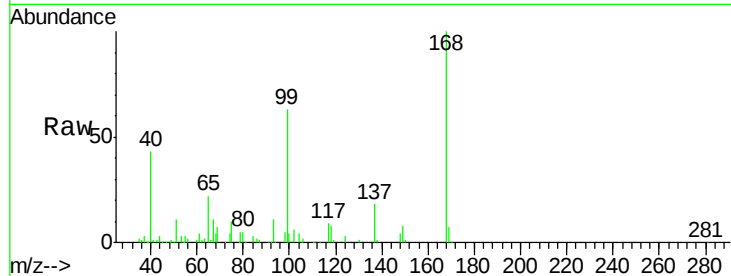
#33
 1,2-Dichloroethane-d4
 Concen: 10.604 ug/l
 RT: 4.88 min Scan# 431
 Delta R.T. -0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	106.2

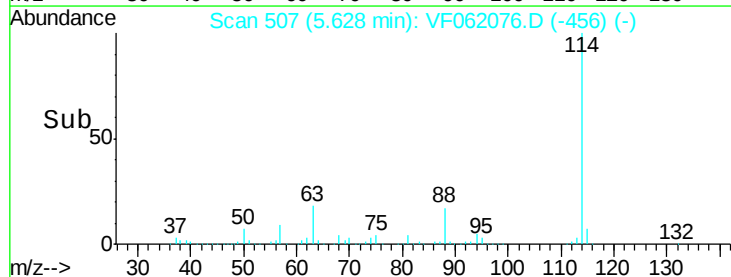
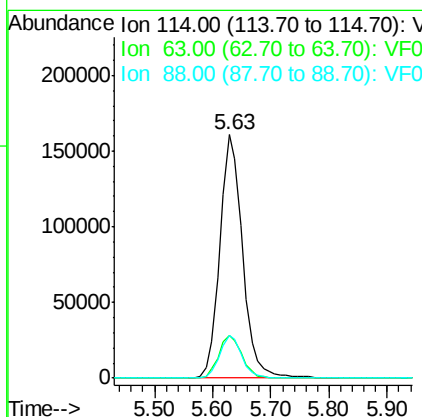
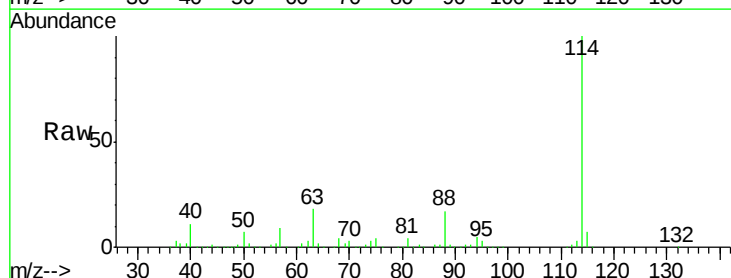
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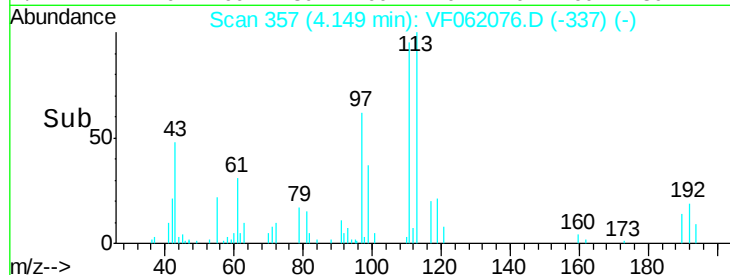
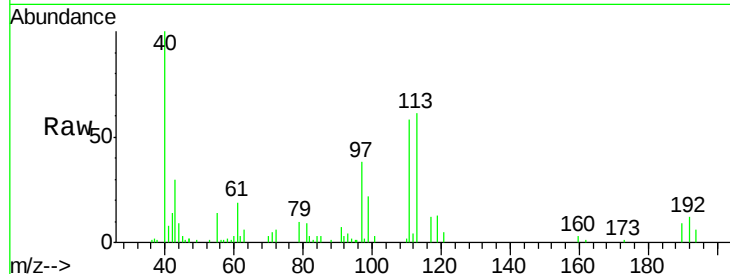
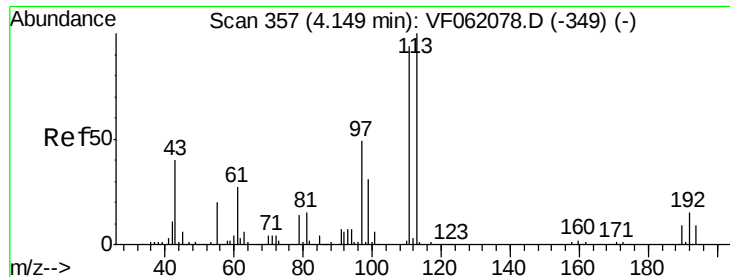
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	37.8
88	17.3	0.0	36.4





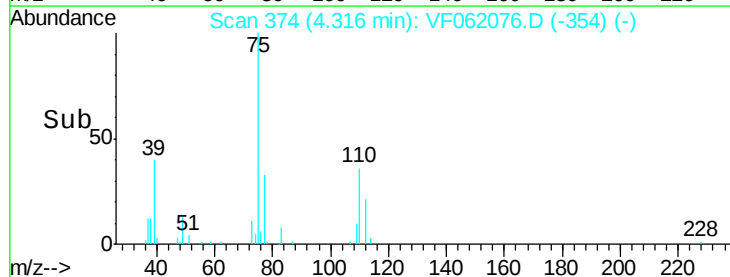
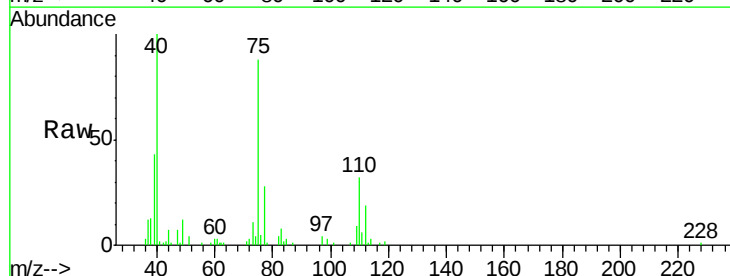
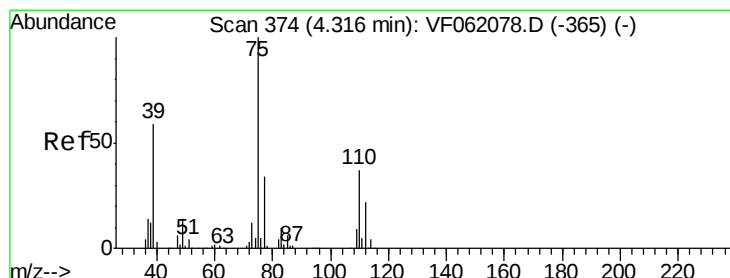
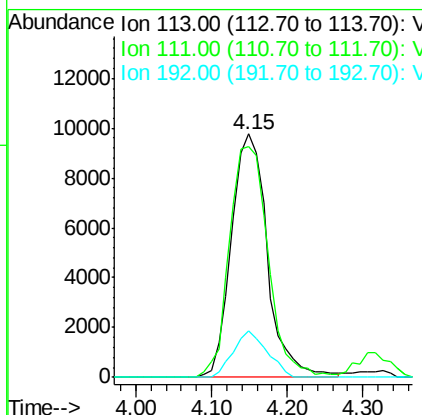
#35
Dibromofluoromethane
Concen: 10.923 ug/l
RT: 4.15 min Scan# 357
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tot Ion	Ratio	Resp	Lower	Upper
113	100	32234		
111	94.6	75.4	113.0	
192	18.9	12.3	18.5#	

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

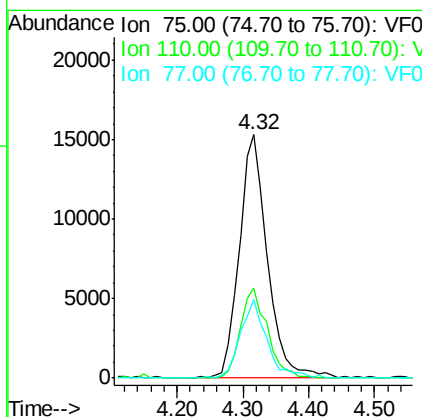
Manual Integrations
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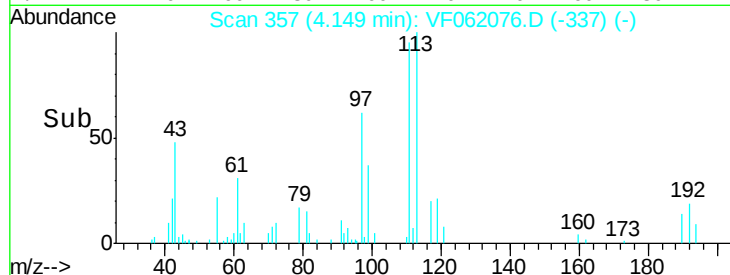
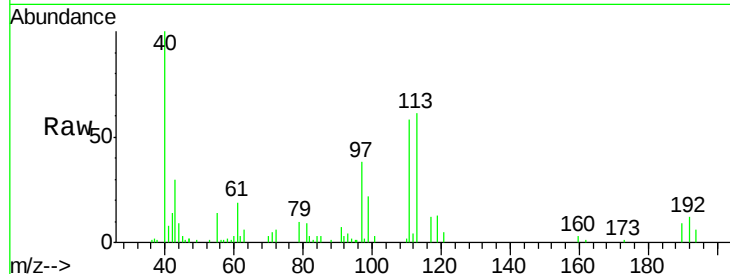
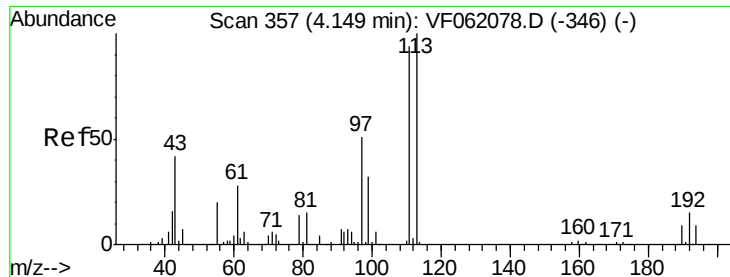
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#36
1,1-Dichloropropene
Concen: 11.037 ug/l
RT: 4.32 min Scan# 374
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	45861		
110	36.9	18.5	55.5	
77	32.3	27.4	41.0	





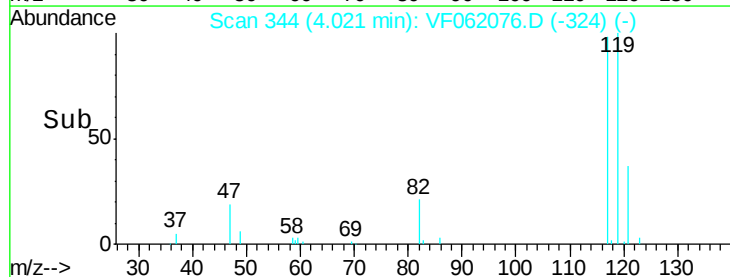
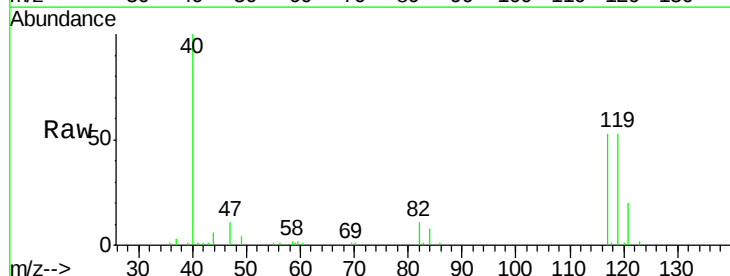
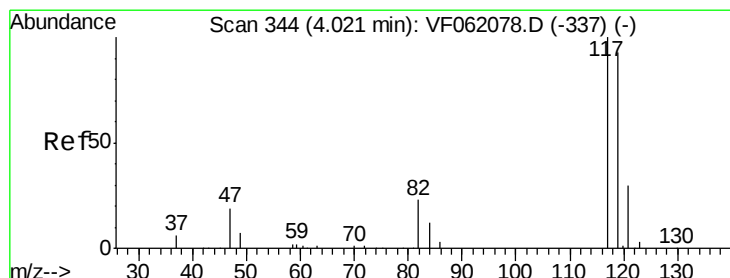
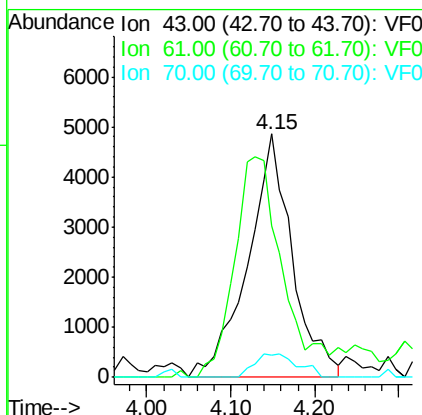
#37
Ethyl Acetate
Concen: 9.845 ug/l
RT: 4.15 min Scan# 357
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tot Ion	43	Ratio	100	Resp:	17878
Ion	43	100		Lower	Upper
	61	62.0		53.6	80.4
	70	9.2		9.0	13.6

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

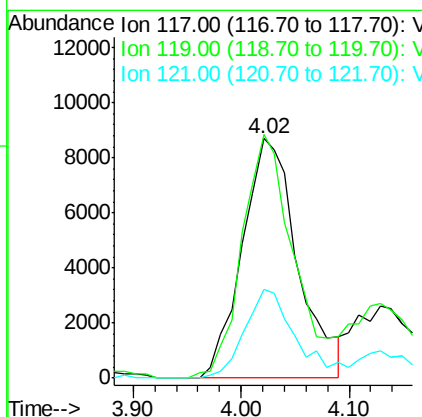
Manual Integrations
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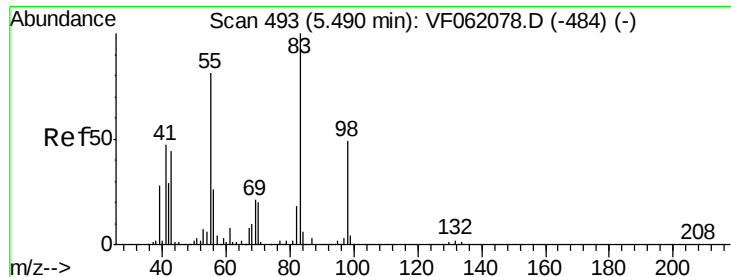
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3/27/2019 11:57:09 AM



#38
Carbon Tetrachloride
Concen: 11.021 ug/l
RT: 4.02 min Scan# 344
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	117	Ratio	100	Resp:	31212
Ion	117	100		Lower	Upper
	119	101.6		74.7	112.1
	121	37.1		23.6	35.4





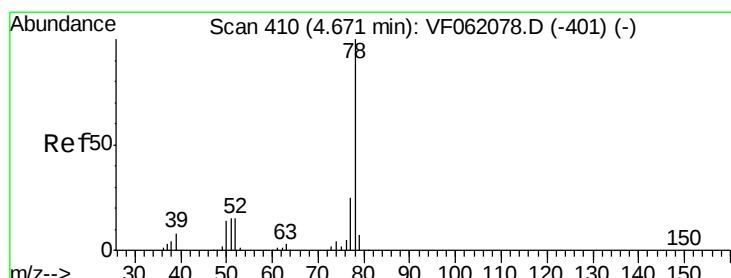
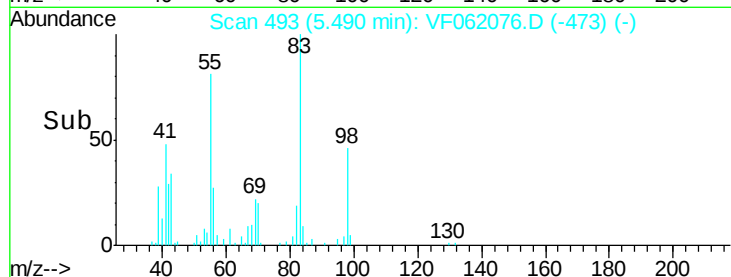
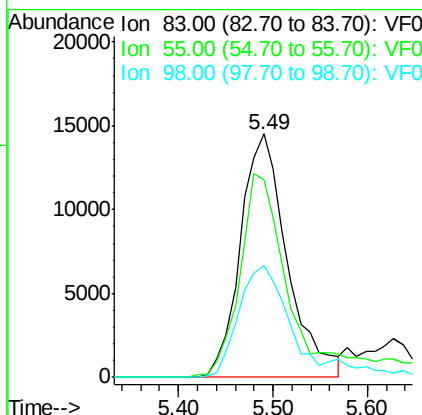
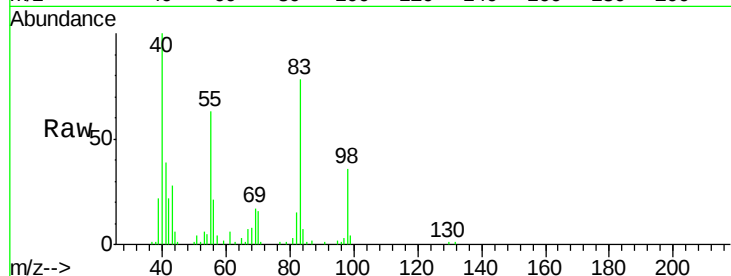
#39
Methvlcvclohexane
Concen: 10.322 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.3	64.5	96.7
98	45.9	39.1	58.7

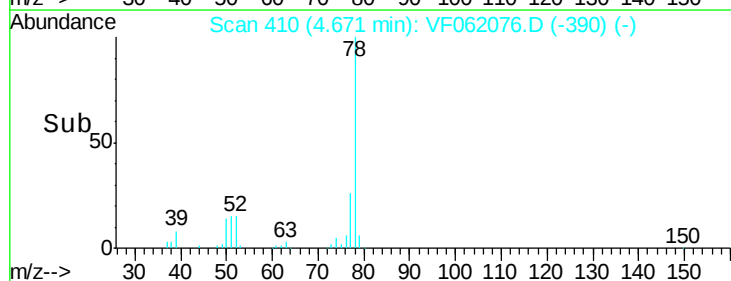
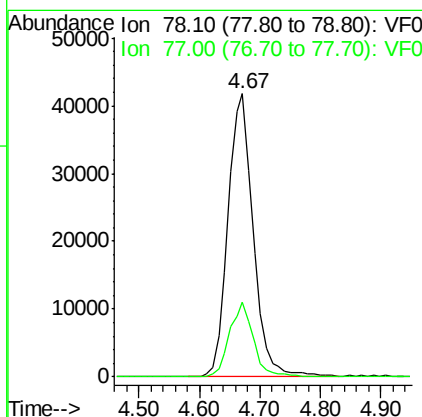
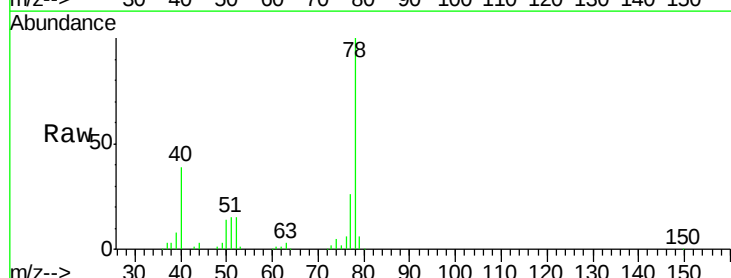
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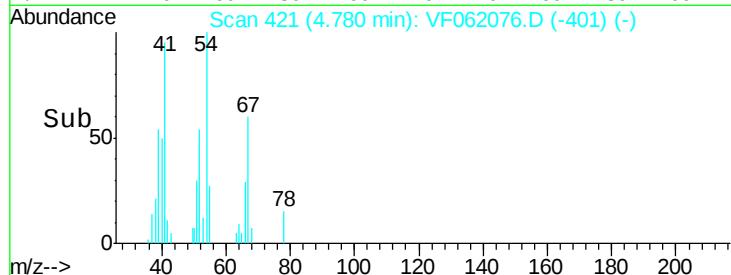
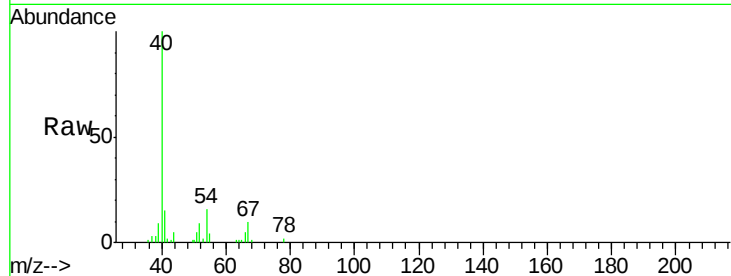
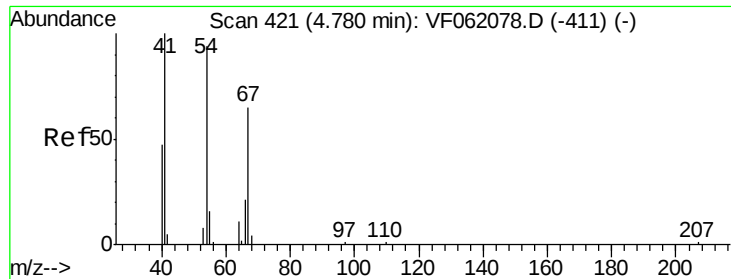
MMDadoda
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#40
Benzene
Concen: 10.899 ug/l
RT: 4.67 min Scan# 410
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.3	19.8	29.6





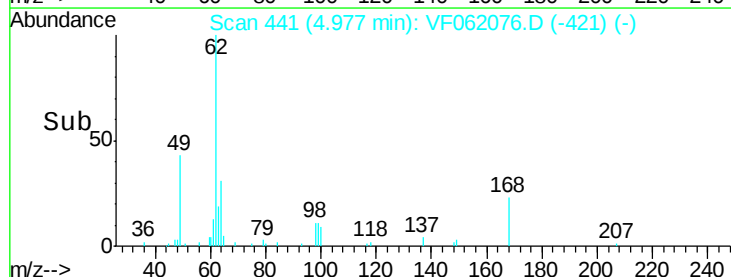
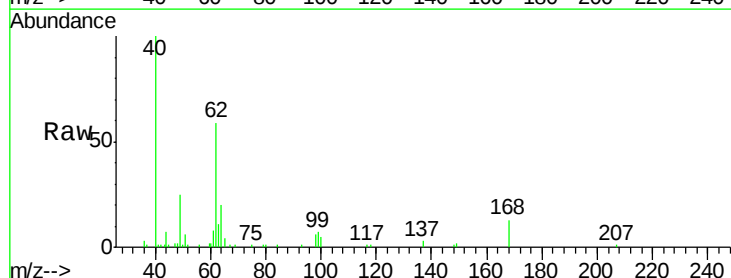
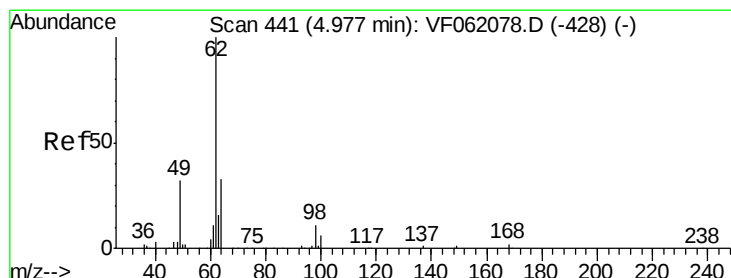
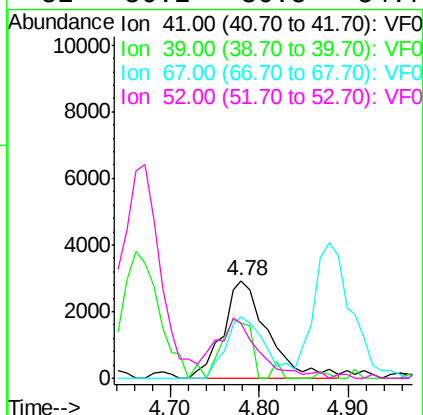
#41
Methacrylonitrile
Concen: 10.668 ug/l
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tot Ion	Ratio	Lower	Upper
41	100		
39	56.2	43.5	65.3
67	63.2	51.6	77.4
52	56.2	36.5	54.7#

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

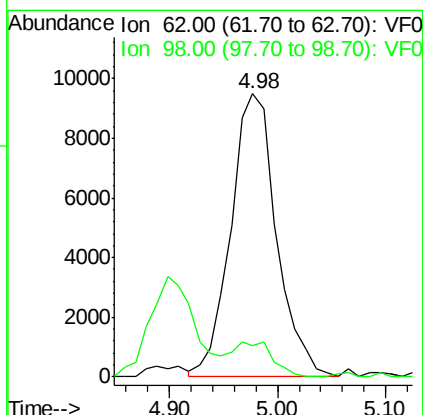
Manual Integrations
APPROVED

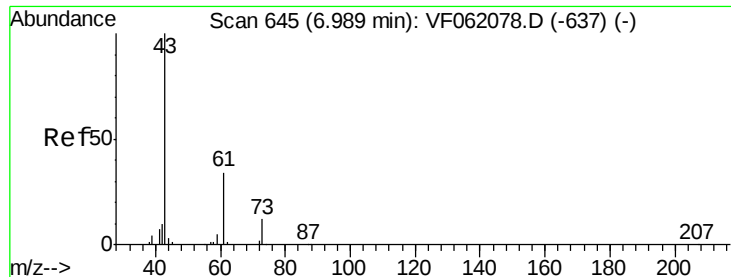
MMDadoda
3/27/2019 11:57:09 AM



#42
1,2-Dichloroethane
Concen: 10.629 ug/l
RT: 4.98 min Scan# 441
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	23.2





#43

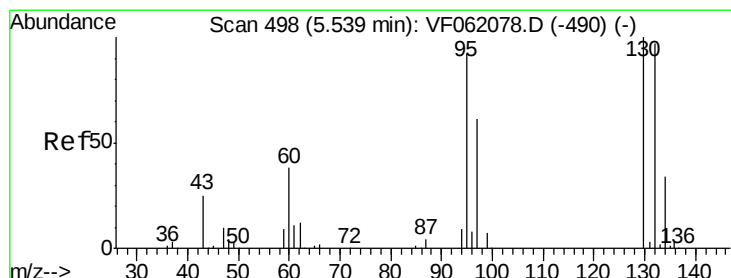
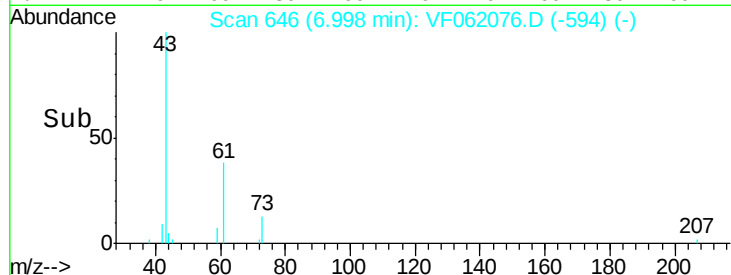
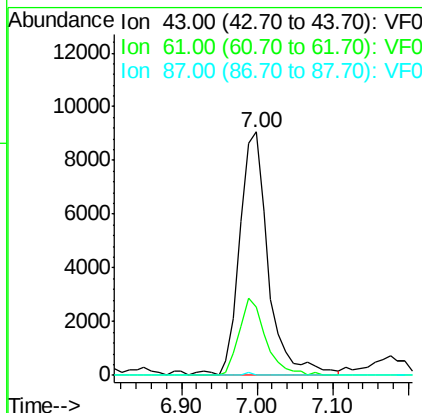
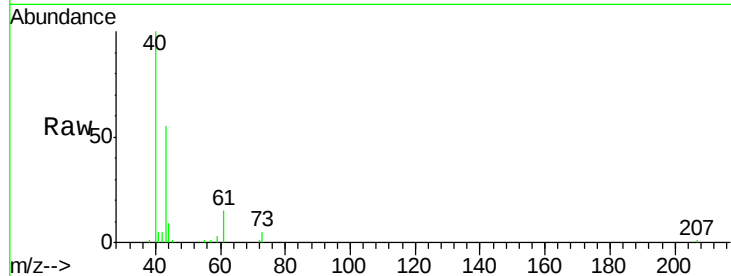
Isopropyl Acetate
 Concen: 10.794 ug/l
 RT: 7.00 min Scan# 646
 Delta R.T. 0.01 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.8	27.0	40.4
87	0.0	0.4	0.6

Manual Integrations
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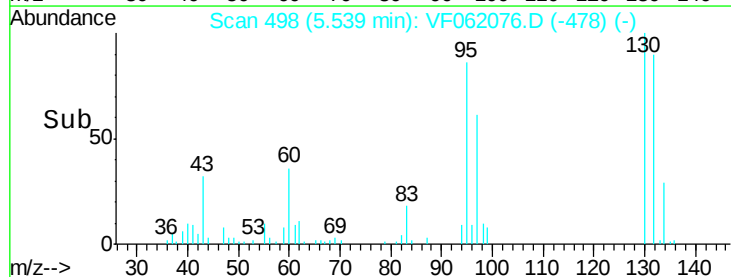
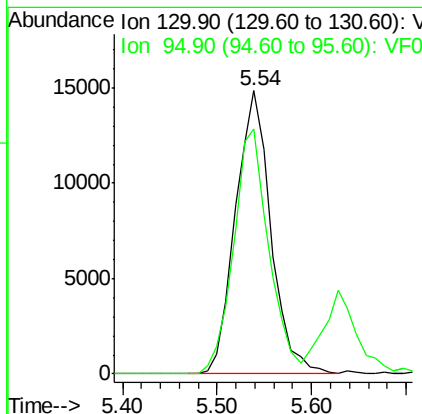
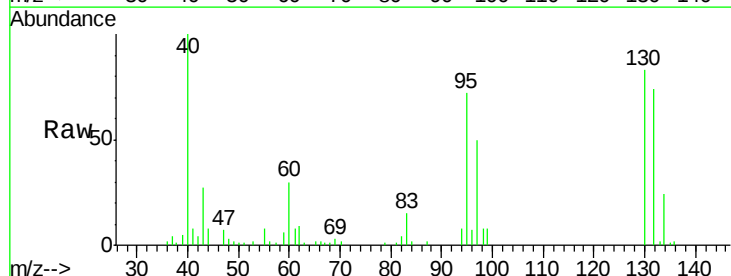
MMDadoda
 3/27/2019 11:57:09 AM

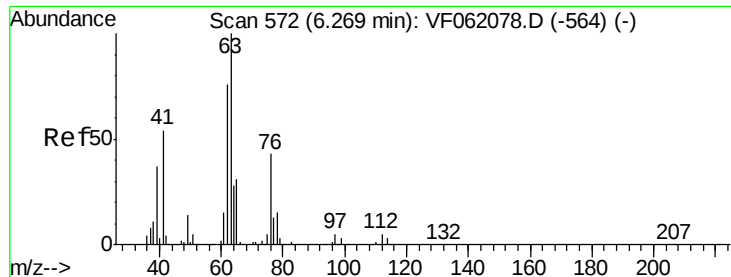


#44

Trichloroethene
 Concen: 11.272 ug/l
 RT: 5.54 min Scan# 498
 Delta R.T. 0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	86.5	0.0	183.4





#45

1,2-Dichloropropane

Concen: 10.486 ug/l

RT: 6.27 min Scan# 572

Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 63 Resp: 27859

Ion Ratio Lower Upper

63 100

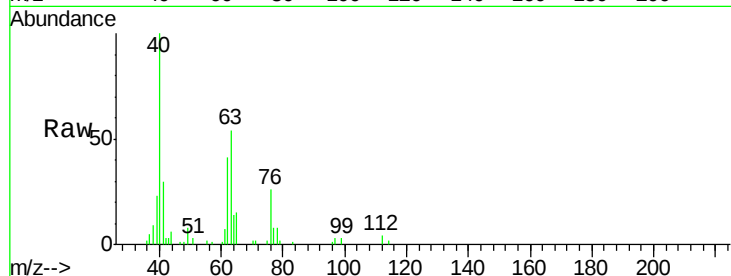
65 28.2 24.9 37.3

Manual Integrations

APPROVED

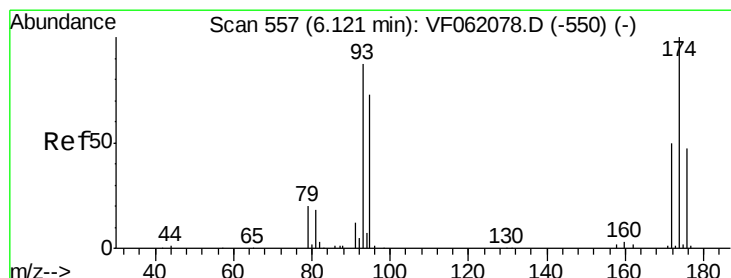
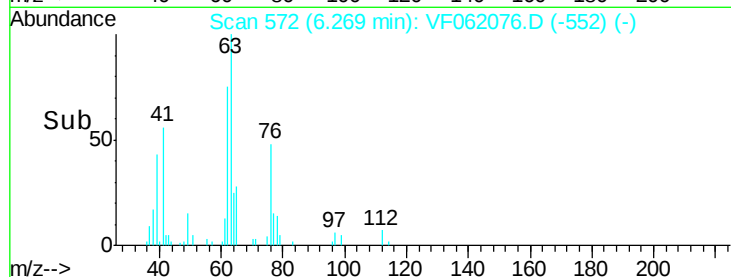
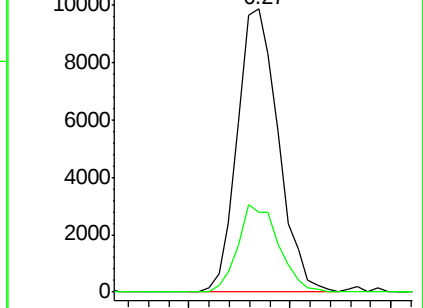
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 10.136 ug/l

RT: 6.12 min Scan# 557

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

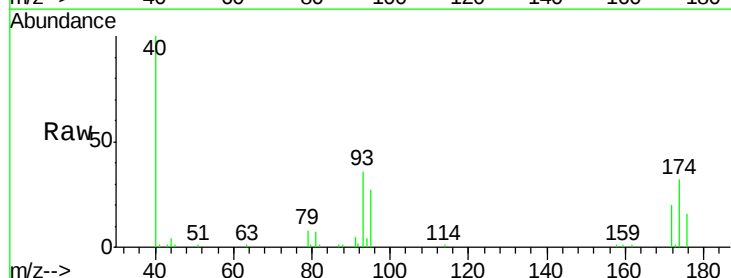
Tgt Ion: 93 Resp: 16465

Ion Ratio Lower Upper

93 100

95 74.5 67.4 101.2

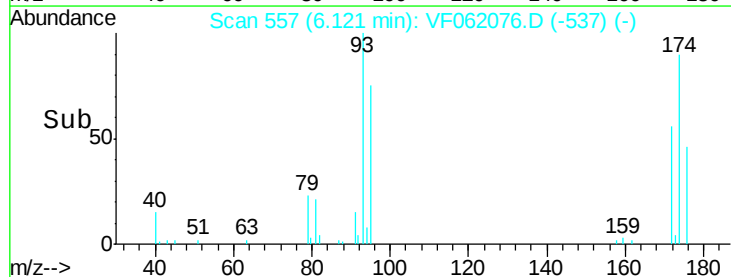
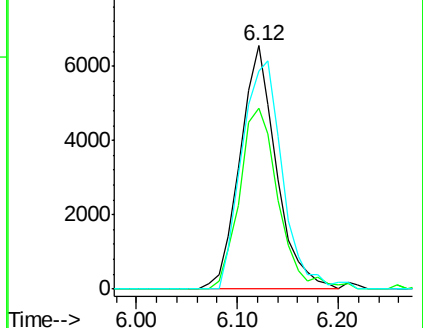
174 89.6 92.0 138.0#

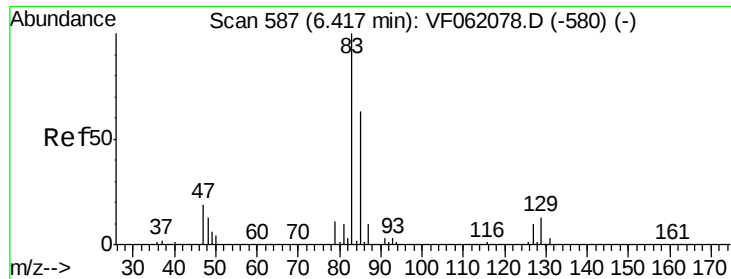


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 10.648 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

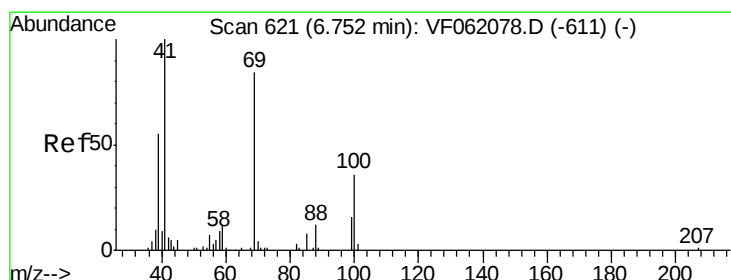
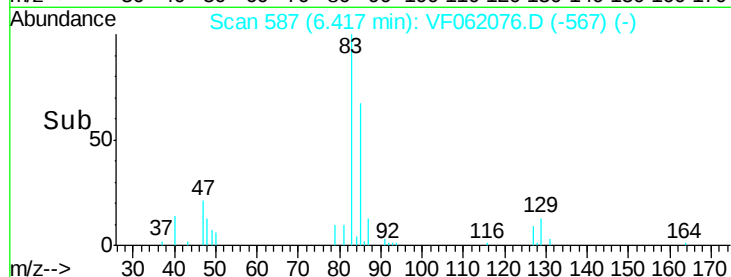
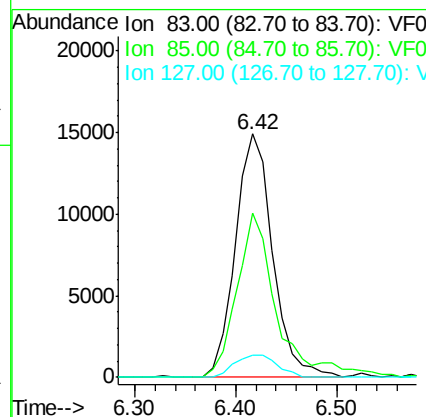
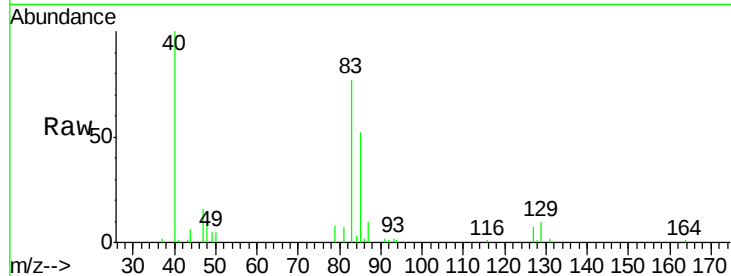
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	38313
Ion	Ratio	Lower	Upper
83	100		
85	67.4	50.7	76.1
127	8.9	7.8	11.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 9.924 ug/l

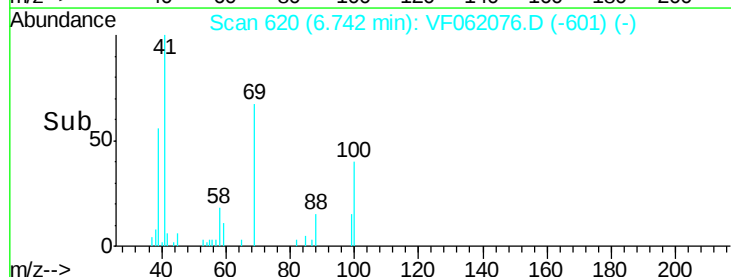
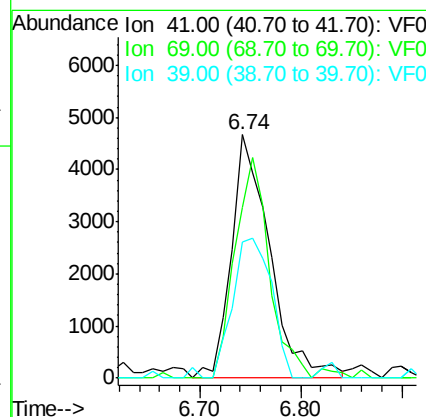
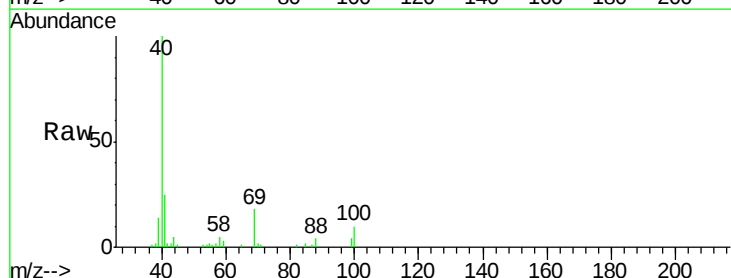
RT: 6.74 min Scan# 620

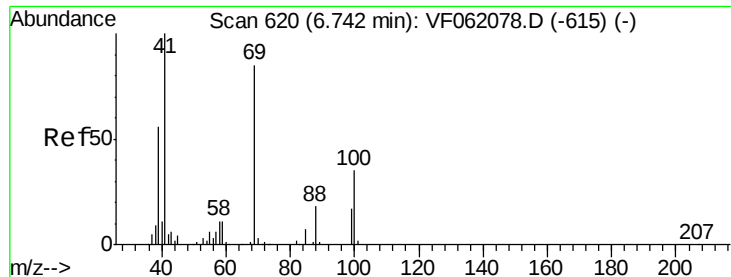
Delta R.T. -0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion:	41	Resp:	12426
Ion	Ratio	Lower	Upper
41	100		
69	70.0	66.6	100.0
39	56.1	43.6	65.4





#49

1,4-Dioxane

Concen: 181.125 ug/l

RT: 6.74 min Scan# 620

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

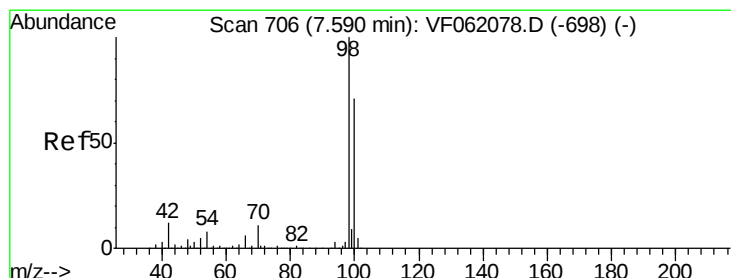
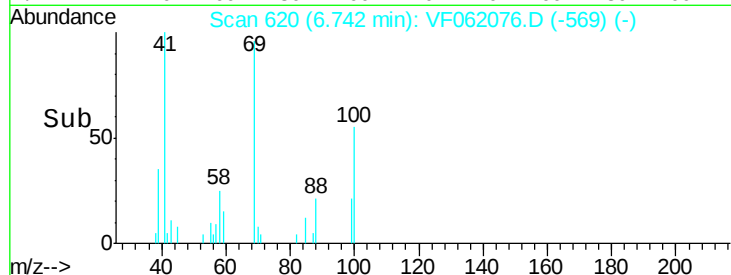
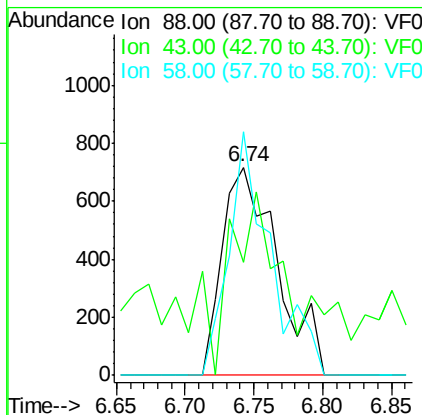
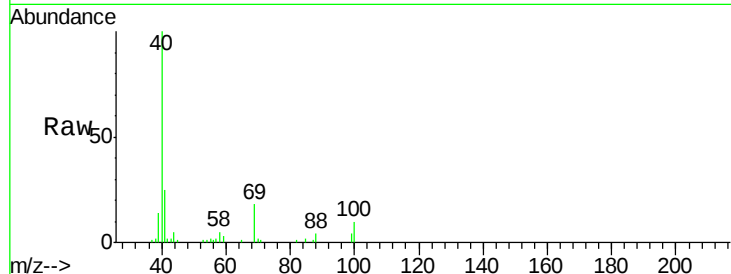
ClientSampleId :

VSTDIC010

Tot Ion:	88	Resp:	1990
Ion	Ratio	Lower	Upper
88	100		
43	54.0	35.0	52.4#
58	116.9	49.9	74.9#

Manual Integrations
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#50

Toluene-d8

Concen: 10.842 ug/l

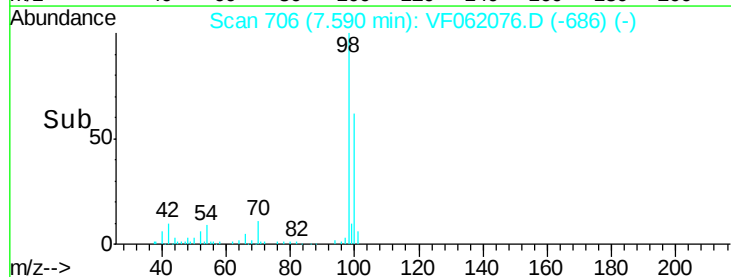
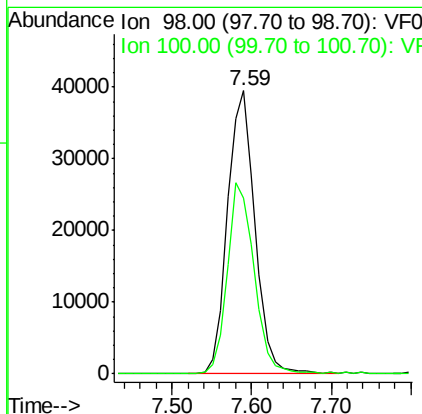
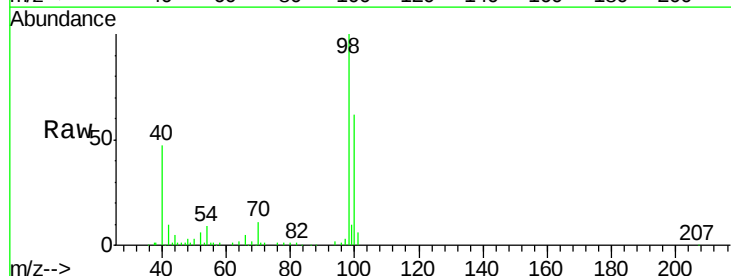
RT: 7.59 min Scan# 706

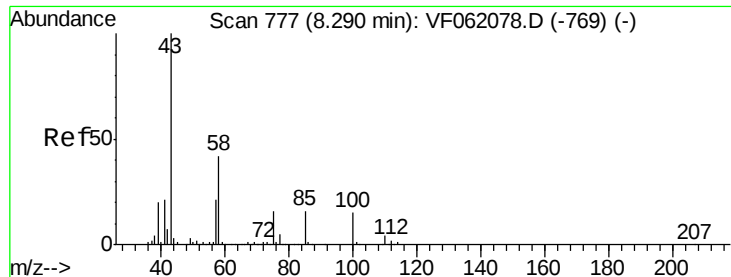
Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion:	98	Resp:	95503
Ion	Ratio	Lower	Upper
98	100		
100	61.9	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 55.030 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 80999

Ion Ratio Lower Upper

43 100

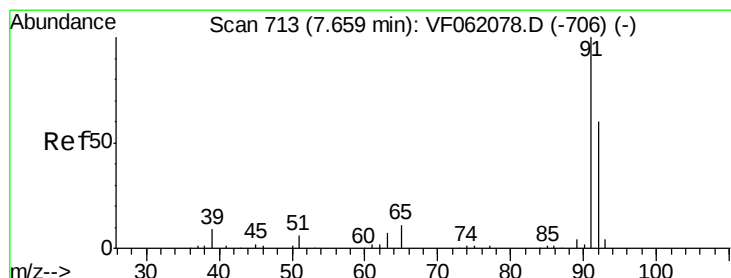
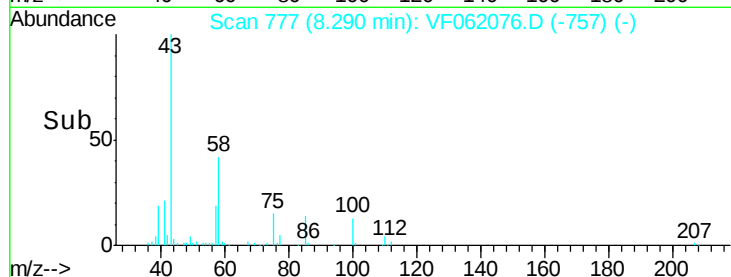
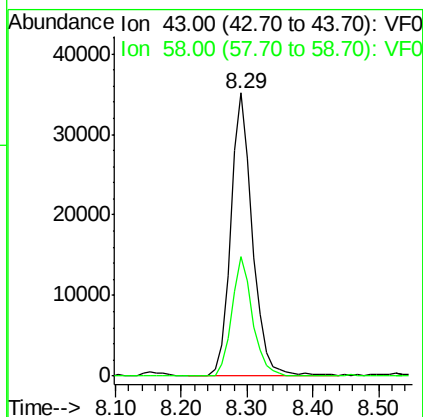
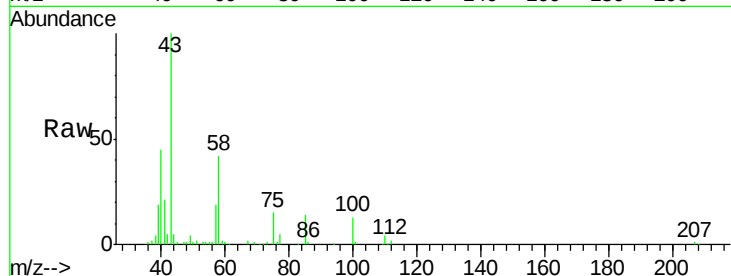
58 42.3 33.8 50.8

Manual Integrations

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#52

Toluene

Concen: 10.947 ug/l

RT: 7.66 min Scan# 713

Delta R.T. 0.00 min

Lab File: VF062076.D

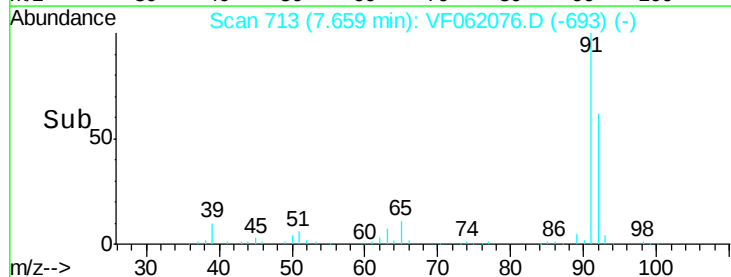
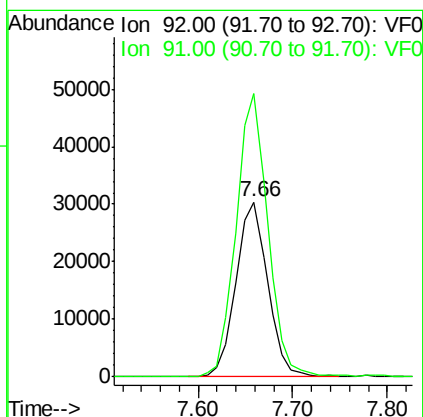
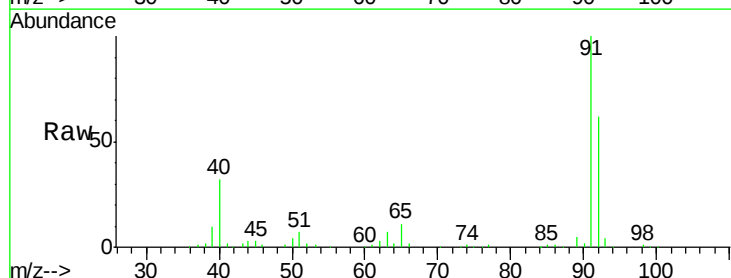
Acq: 22 Mar 2019 11:04

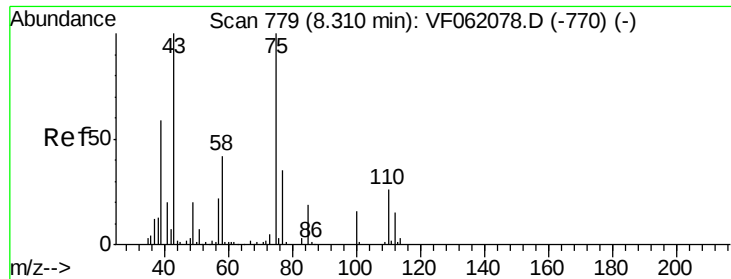
Tgt Ion: 92 Resp: 70624

Ion Ratio Lower Upper

92 100

91 161.9 134.1 201.1





#53

t-1,3-Dichloropropene

Concen: 10.522 ug/l

RT: 8.31 min Scan# 779

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tot Ion: 75 Resp: 29720

Ion Ratio Lower Upper

75 100

77 30.3 28.0 42.0

Instrument :

MSVOA_F

ClientSampleId :

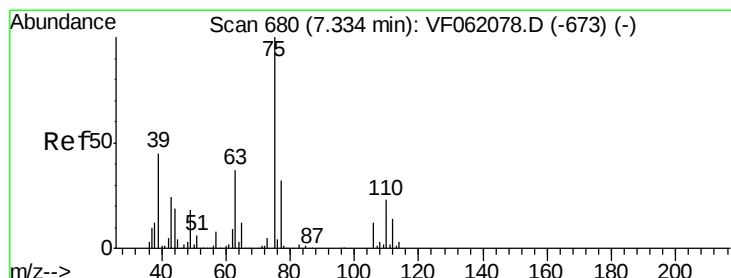
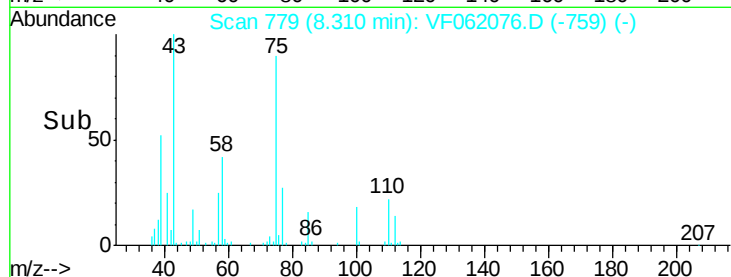
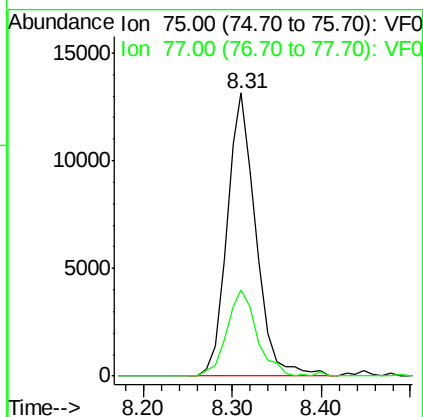
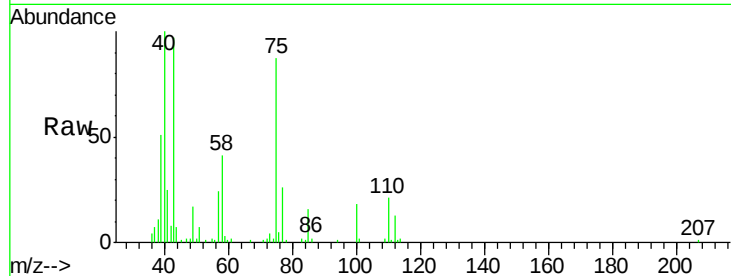
VSTDIC010

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 10.899 ug/l

RT: 7.33 min Scan# 680

Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

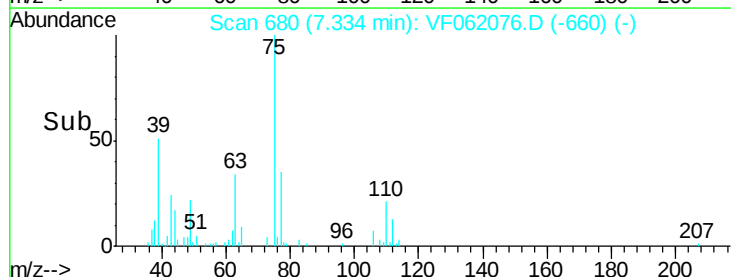
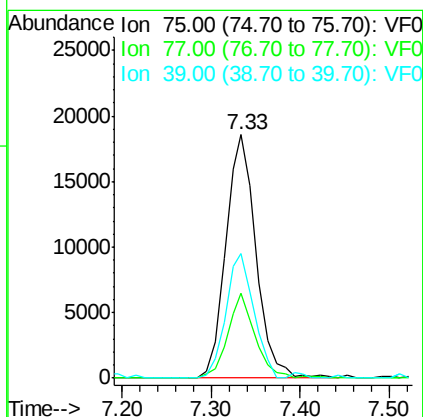
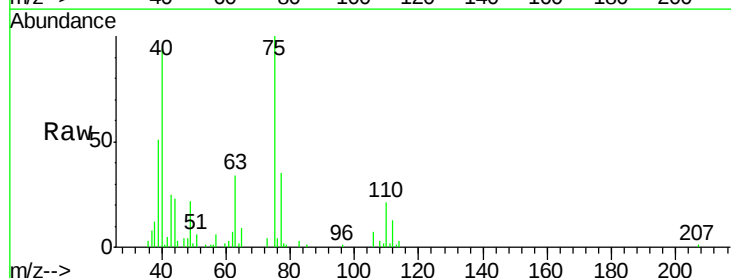
Tgt Ion: 75 Resp: 44047

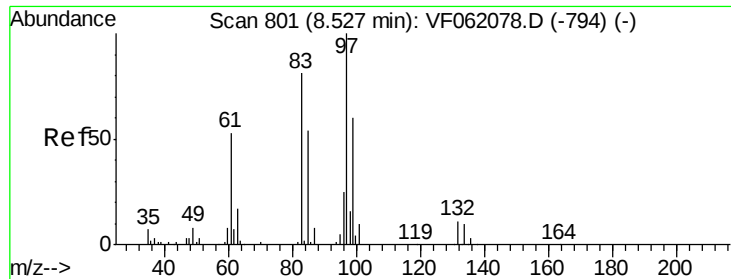
Ion Ratio Lower Upper

75 100

77 34.8 25.8 38.6

39 51.2 35.9 53.9





#55

1,1,2-Trichloroethane

Concen: 10.439 ug/l

RT: 8.52 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

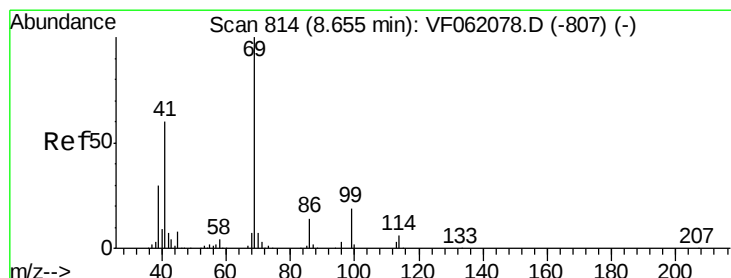
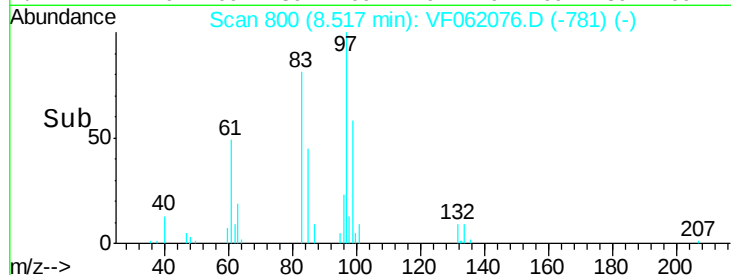
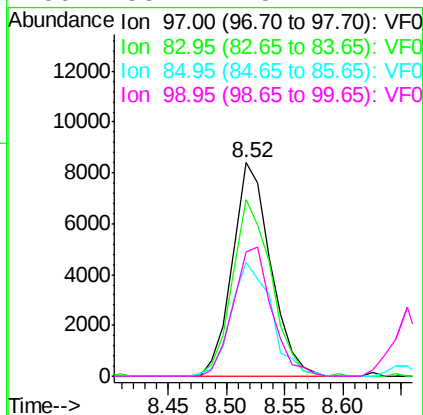
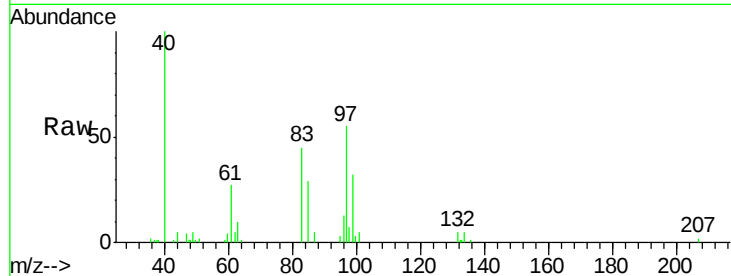
ClientSampleId :

VSTDIC010

Tot Ion:	97	Resp:	19130
Ion	Ratio	Lower	Upper
97	100		
83	83.0	64.6	97.0
85	53.2	43.6	65.4
99	58.2	48.2	72.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 10.355 ug/l

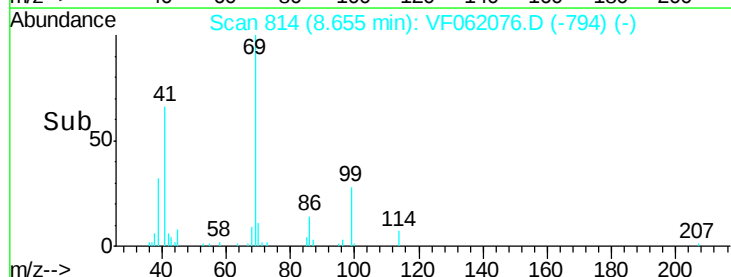
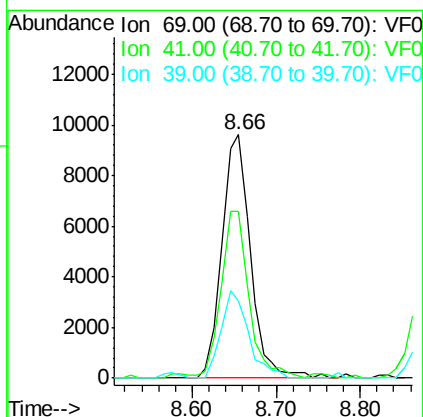
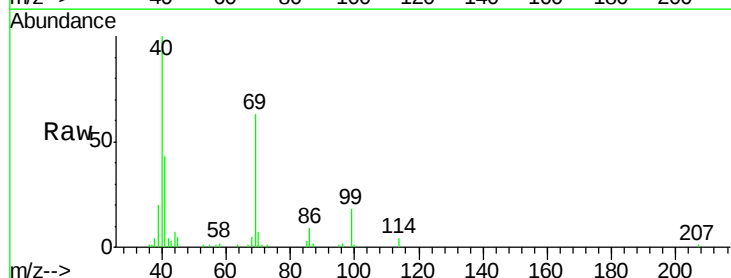
RT: 8.66 min Scan# 814

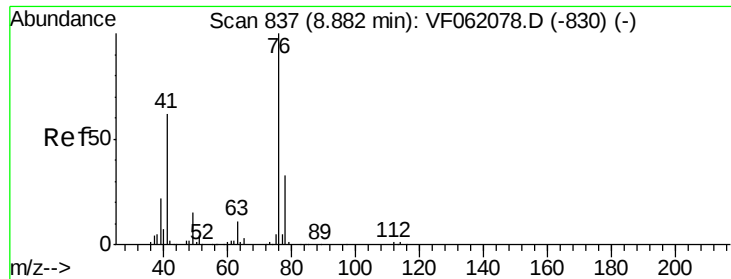
Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion:	69	Resp:	22631
Ion	Ratio	Lower	Upper
69	100		
41	68.6	48.2	72.2
39	31.9	24.0	36.0





#57

1,3-Dichloropropane

Concen: 10.320 ug/l

RT: 8.89 min Scan# 838

Delta R.T. 0.01 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 76 Resp: 31389

Ion Ratio Lower Upper

76 100

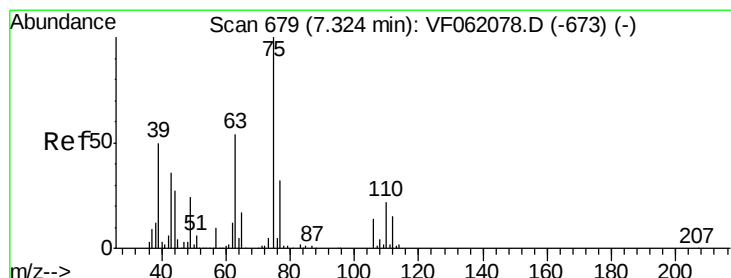
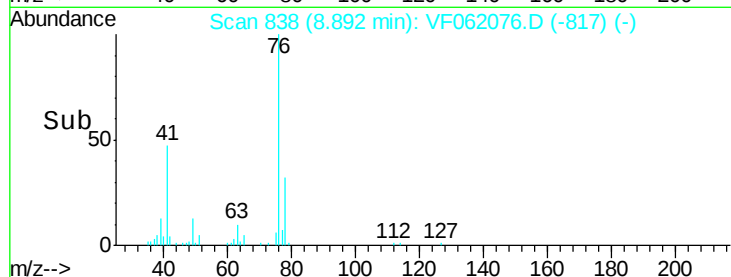
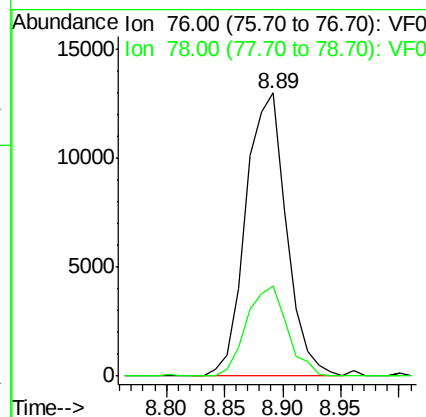
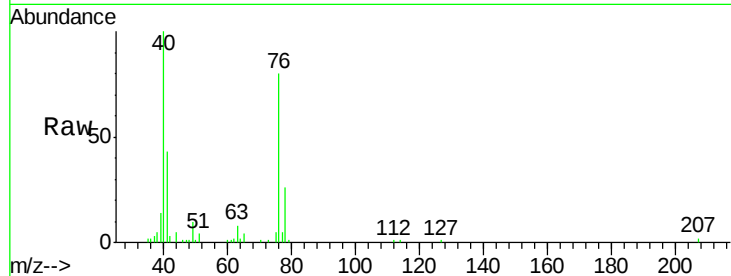
78 32.0 26.6 39.8

Manual Integrations

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3/27/2019 11:57:09 AM



#58

2-Chloroethyl Vinyl ether

Concen: 47.292 ug/l

RT: 7.32 min Scan# 679

Delta R.T. 0.00 min

Lab File: VF062076.D

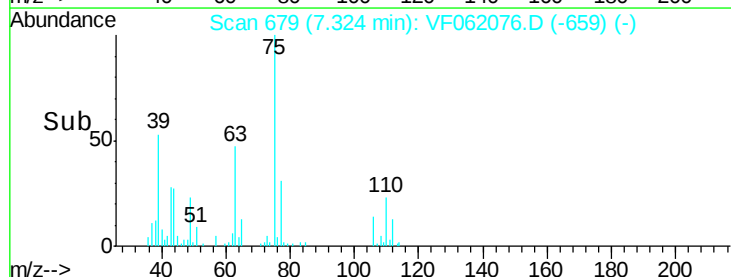
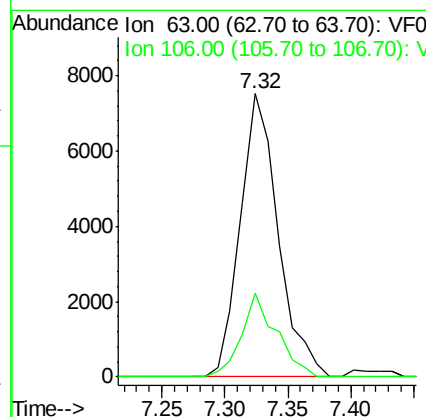
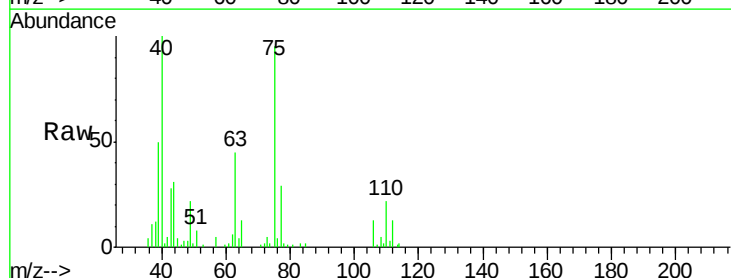
Acq: 22 Mar 2019 11:04

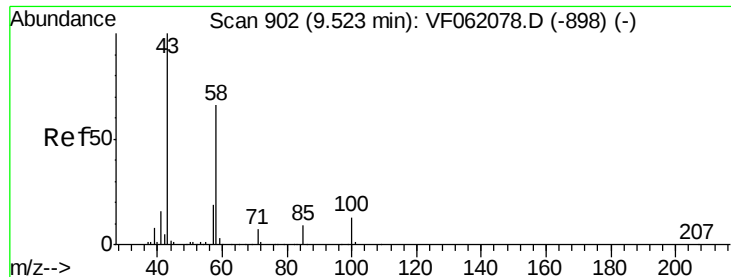
Tgt Ion: 63 Resp: 15684

Ion Ratio Lower Upper

63 100

106 29.5 21.5 32.3





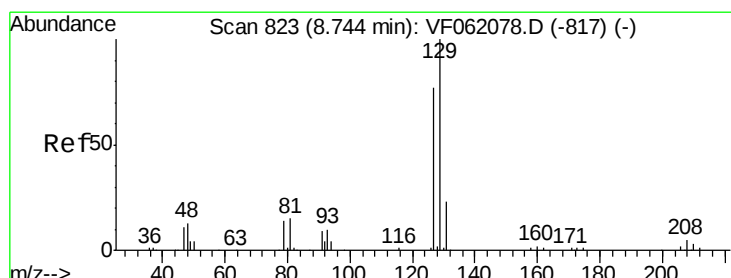
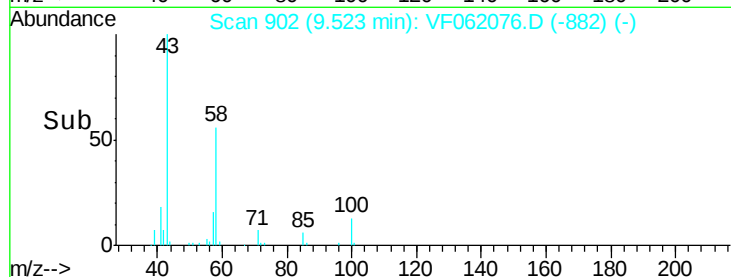
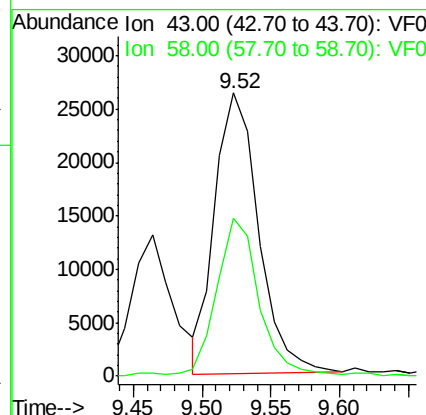
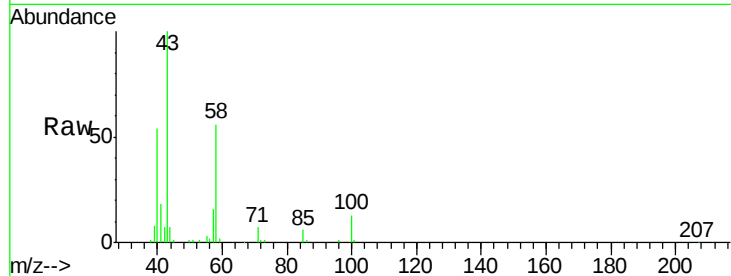
#59
2-Hexanone
Concen: 53.868 ug/l
RT: 9.52 min Scan# 902
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 43 Resp: 58111
Ion Ratio Lower Upper
43 100
58 55.8 28.8 86.4

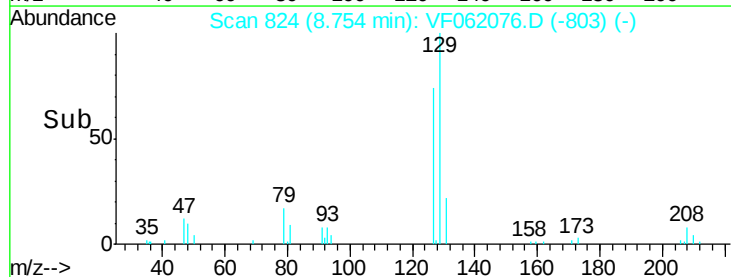
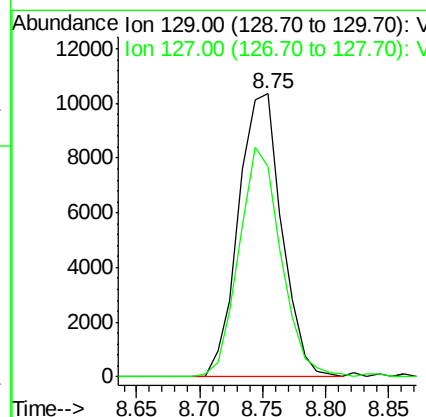
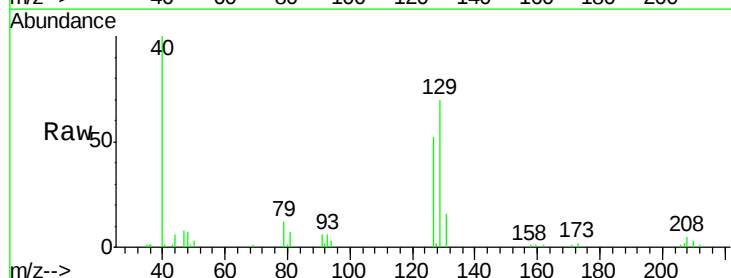
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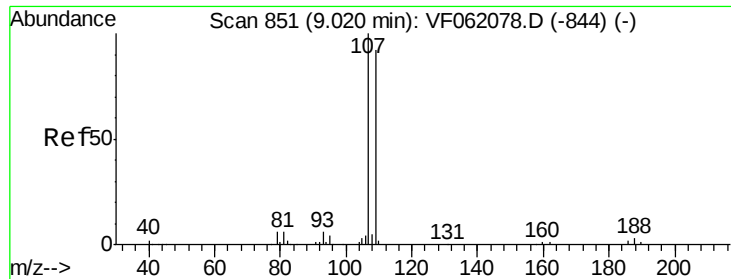
MMDadoda
3/27/2019 11:57:09 AM



#60
Dibromochloromethane
Concen: 9.669 ug/l
RT: 8.75 min Scan# 824
Delta R.T. 0.01 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion: 129 Resp: 24632
Ion Ratio Lower Upper
129 100
127 76.4 38.7 116.1





#61

1,2-Dibromoethane

Concen: 10.107 ug/l

RT: 9.02 min Scan# 851

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:107 Resp: 19760

Ion Ratio Lower Upper

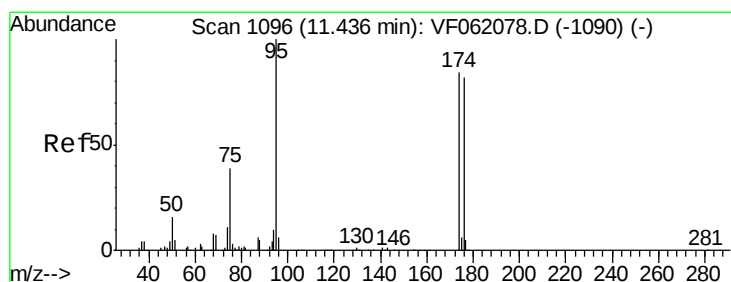
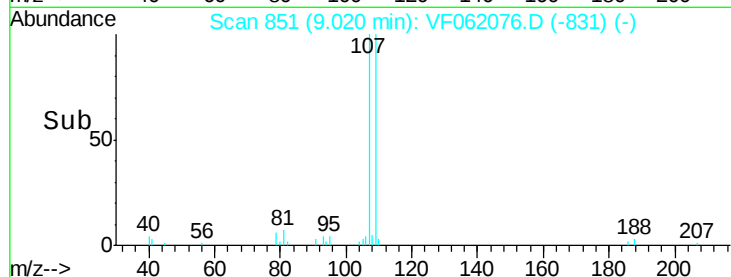
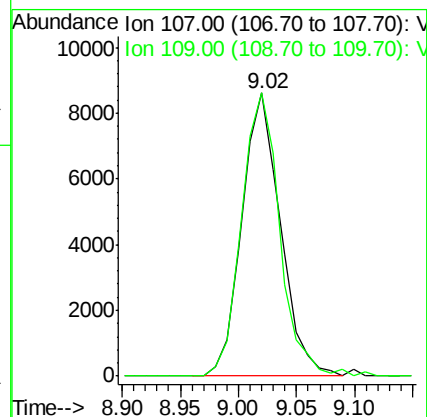
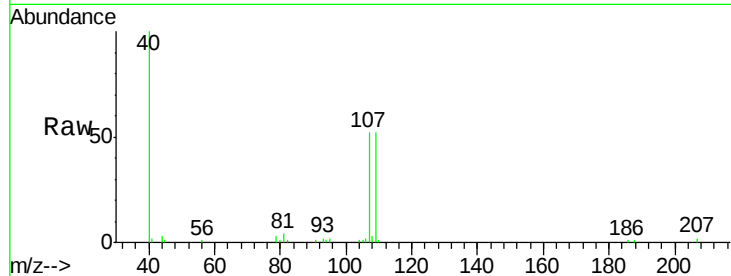
107 100

109 100.1 73.4 110.0

Manual Integrations
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3/27/2019 11:57:09 AM



#62

4-Bromofluorobenzene

Concen: 10.761 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

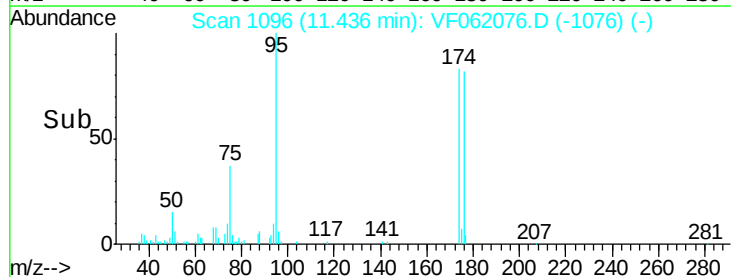
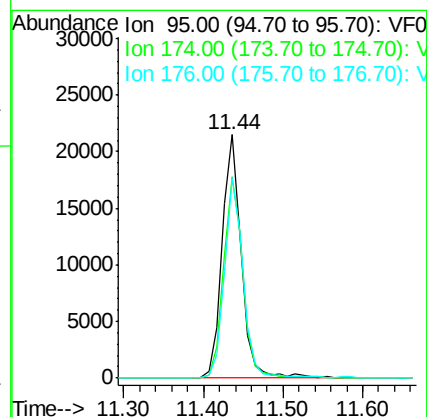
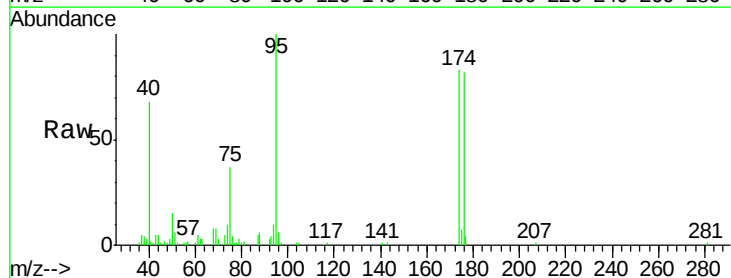
Tgt Ion: 95 Resp: 36594

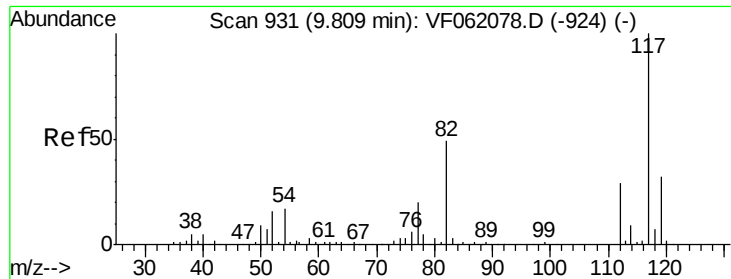
Ion Ratio Lower Upper

95 100

174 82.6 0.0 168.2

176 82.3 0.0 164.2





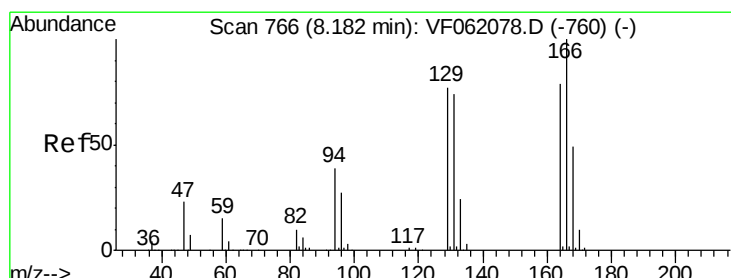
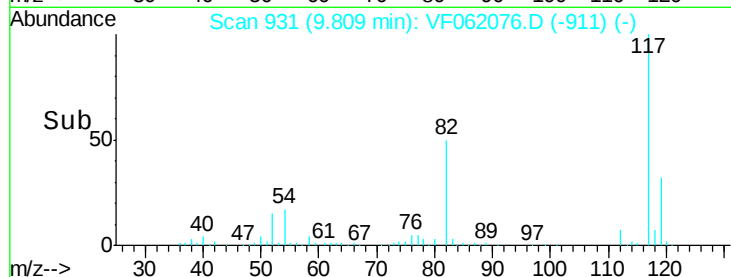
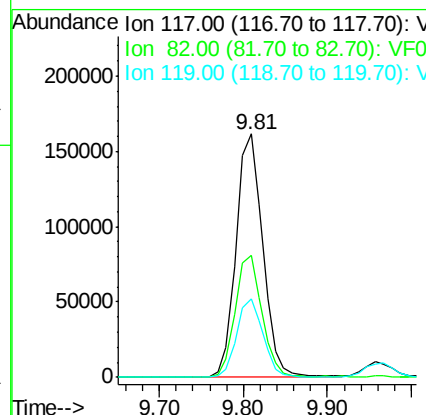
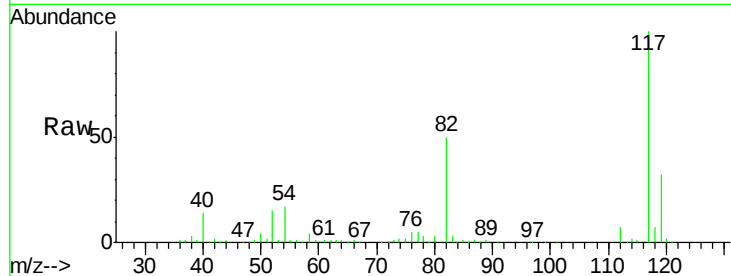
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.1	39.2	58.8
119	32.4	25.4	38.2

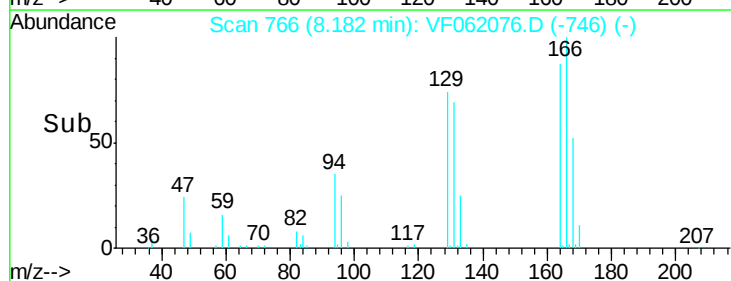
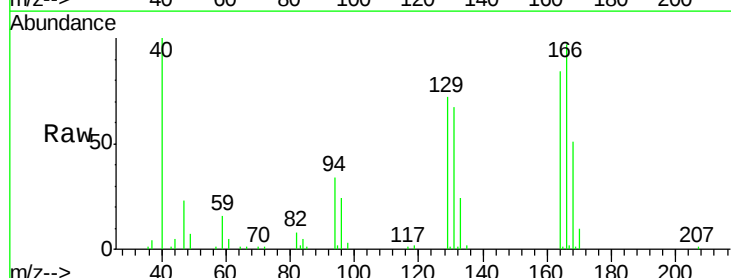
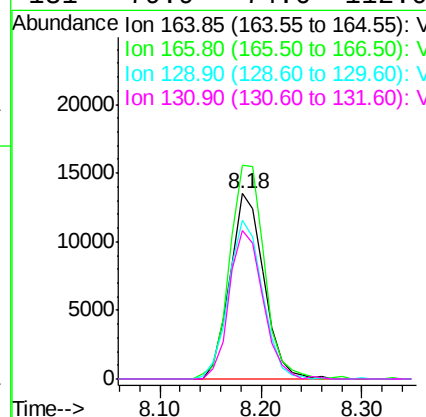
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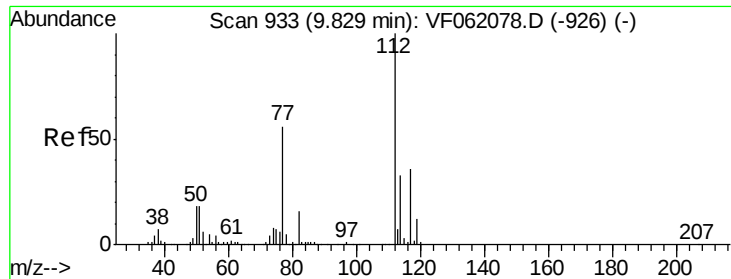
MMDadoda
3/27/2019 11:57:09 AM



#64
Tetrachloroethene
Concen: 11.450 ug/l
RT: 8.18 min Scan# 766
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.3	100.9	151.3
129	85.8	77.9	116.9
131	79.9	74.6	112.0





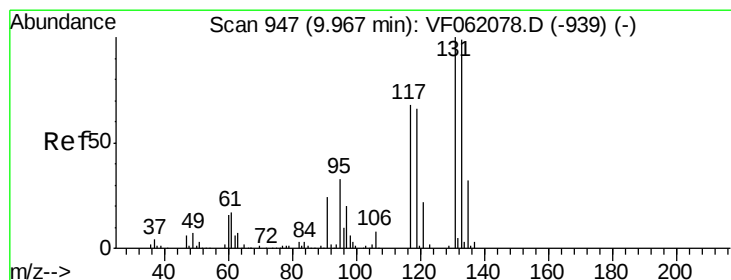
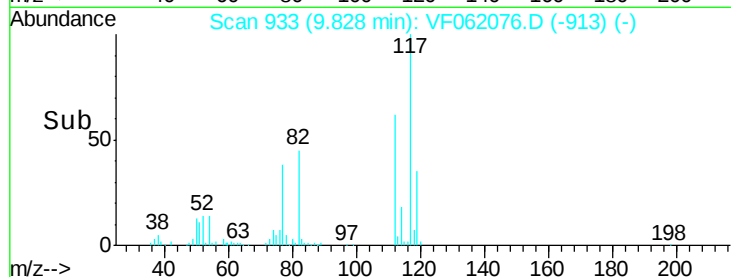
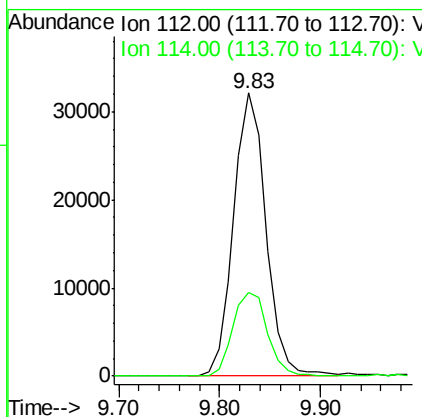
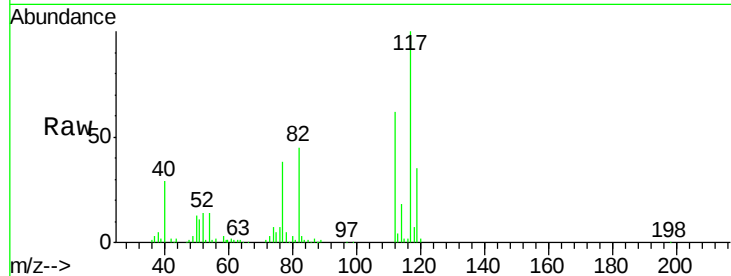
#65
Chlorobenzene
Concen: 10.718 ug/l
RT: 9.83 min Scan# 933
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion:112 Resp: 71984
Ion Ratio Lower Upper
112 100
114 29.7 26.0 39.0

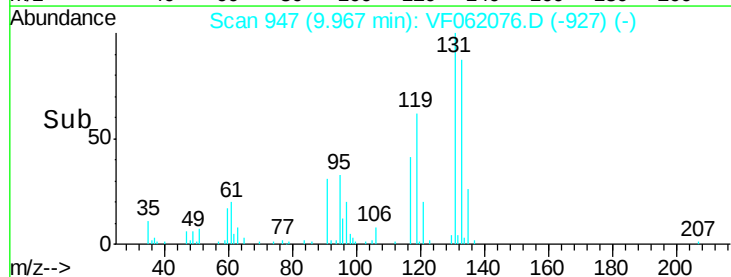
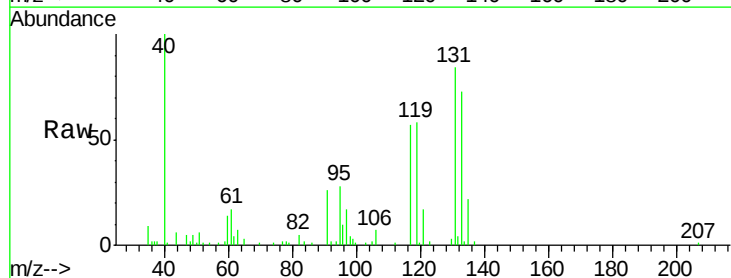
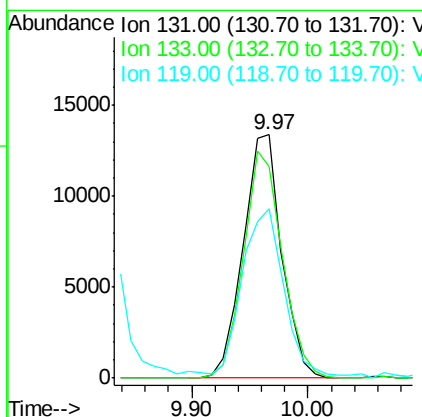
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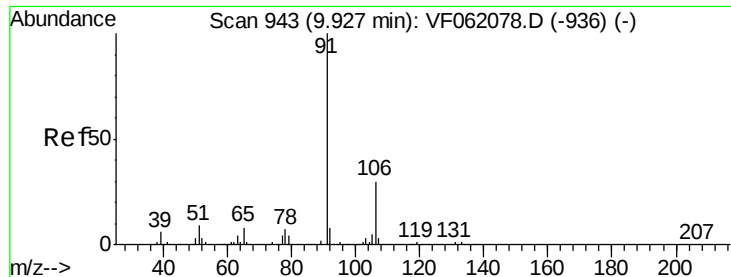
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 11.378 ug/l
RT: 9.97 min Scan# 947
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion:131 Resp: 30697
Ion Ratio Lower Upper
131 100
133 87.1 49.3 147.8
119 69.6 33.5 100.4





#67

Ethyl Benzene

Concen: 11.118 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 129861

Ion Ratio Lower Upper

91 100

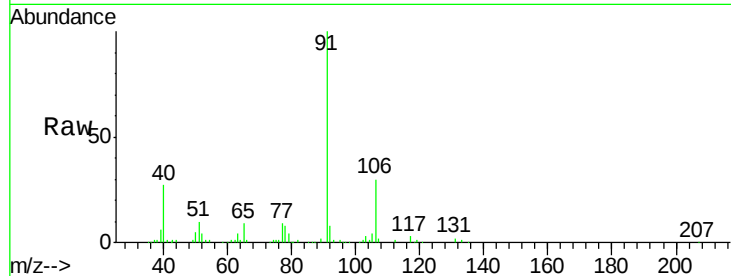
106 30.1 24.0 36.0

Manual Integrations

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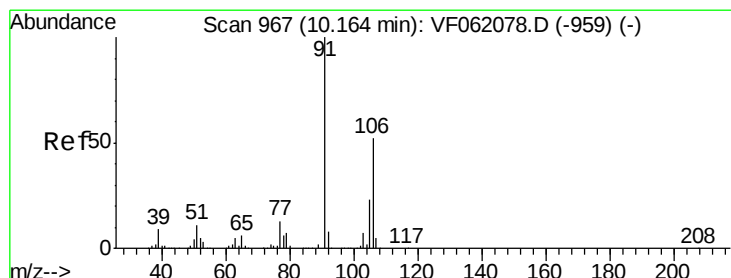
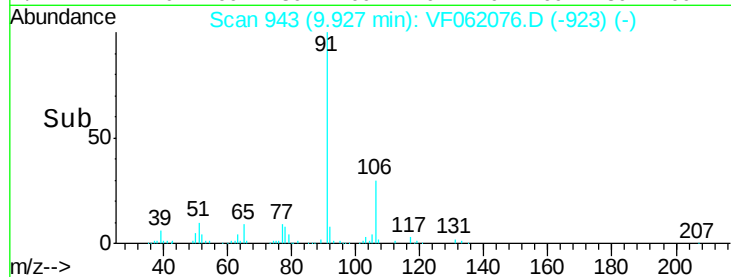
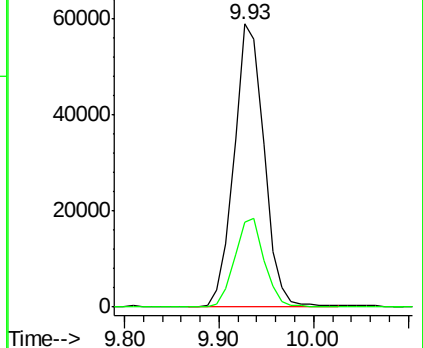
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 22.080 ug/l

RT: 10.16 min Scan# 967

Delta R.T. -0.00 min

Lab File: VF062076.D

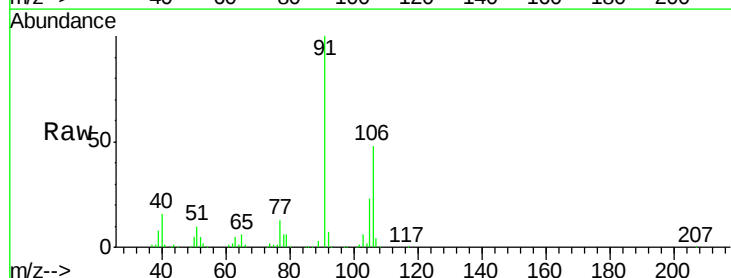
Acq: 22 Mar 2019 11:04

Tgt Ion: 106 Resp: 96394

Ion Ratio Lower Upper

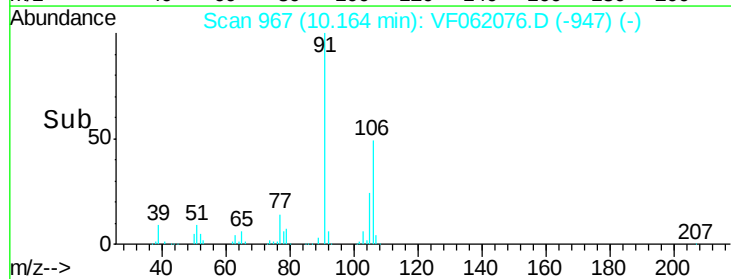
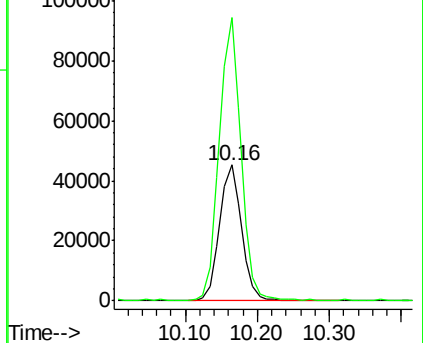
106 100

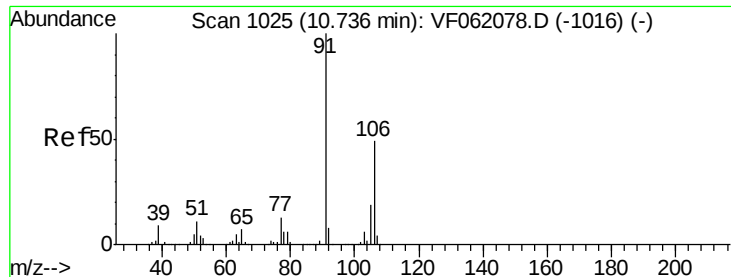
91 208.2 154.4 231.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





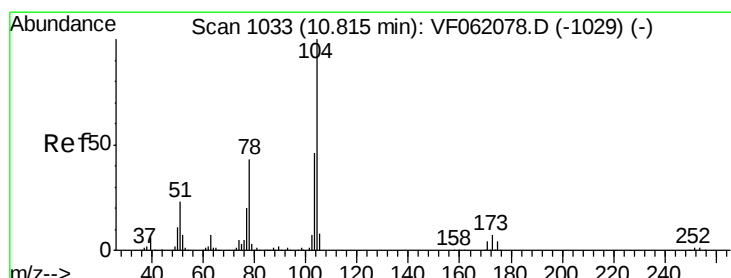
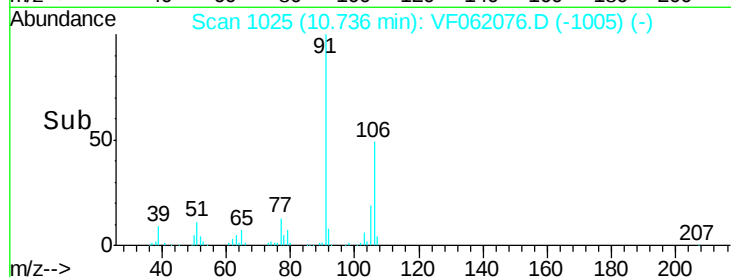
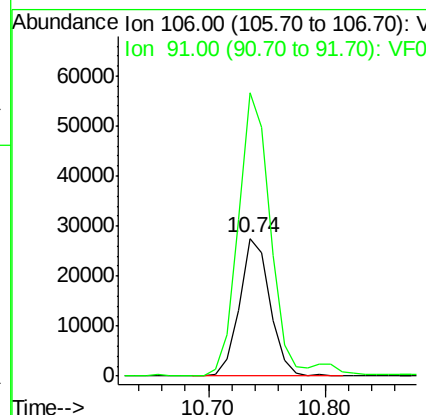
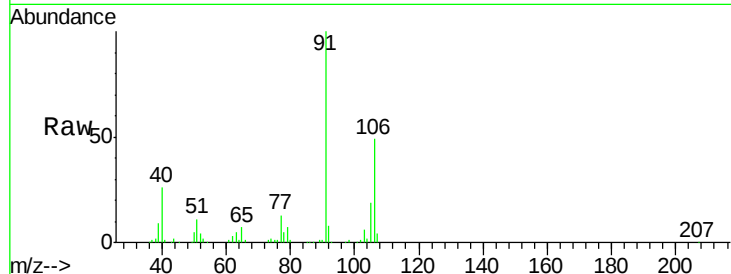
#69
o-Xylene
Concen: 10.968 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion:106 Resp: 50152
Ion Ratio Lower Upper
106 100
91 205.2 102.6 307.8

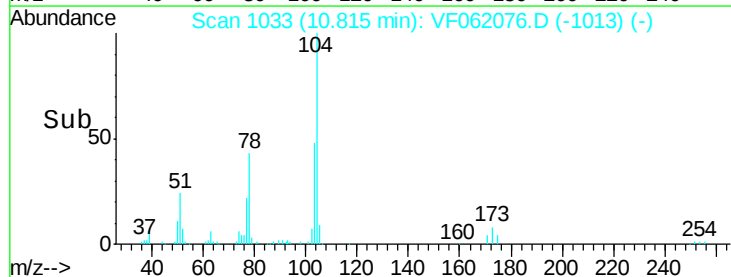
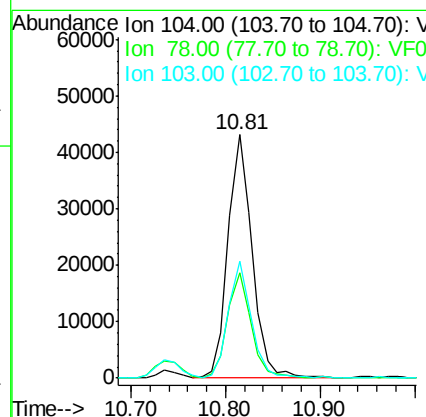
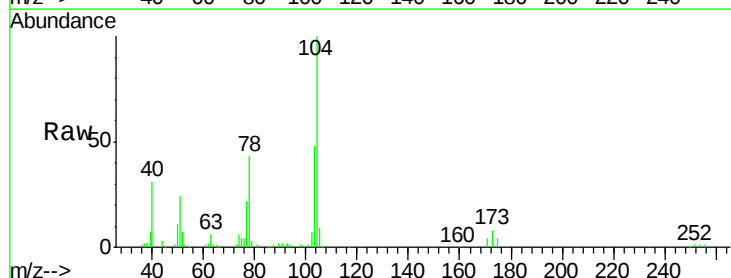
Manual Integrations
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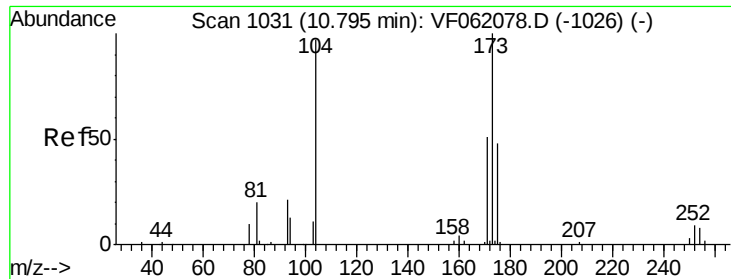
MMDadoda
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#70
Styrene
Concen: 10.966 ug/l
RT: 10.81 min Scan# 1033
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion:104 Resp: 75967
Ion Ratio Lower Upper
104 100
78 43.4 34.3 51.5
103 47.9 36.9 55.3





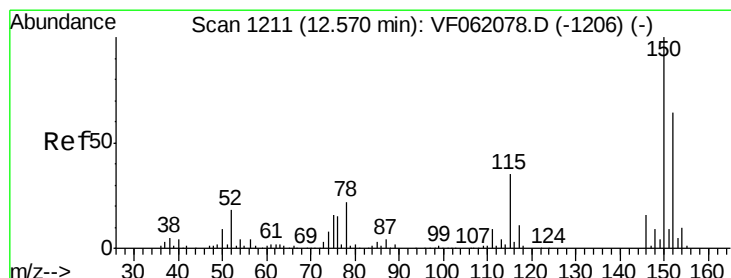
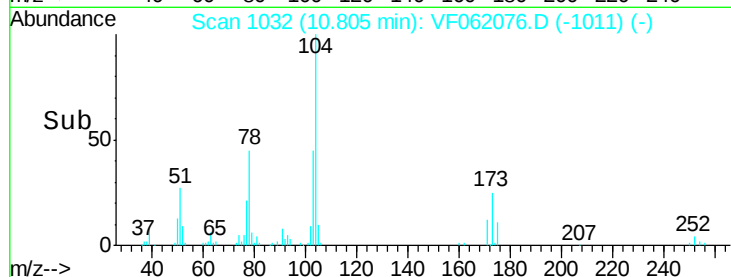
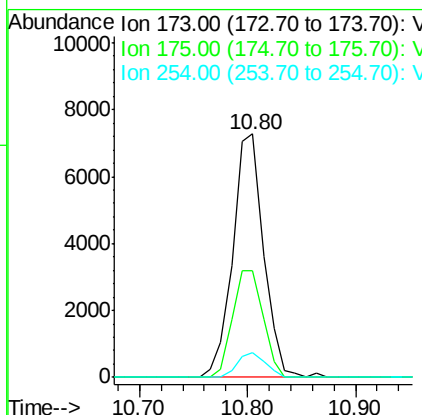
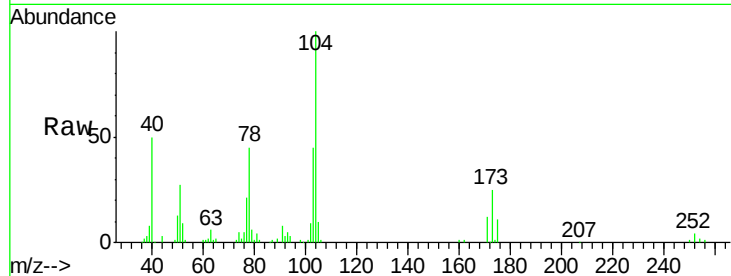
#71
Bromoform
Concen: 10.494 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	43.6	24.1	72.4
254	9.9	6.2	9.4

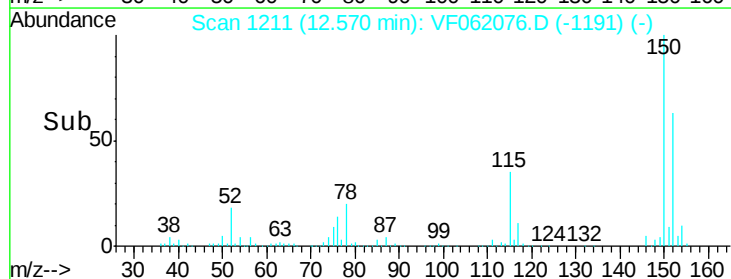
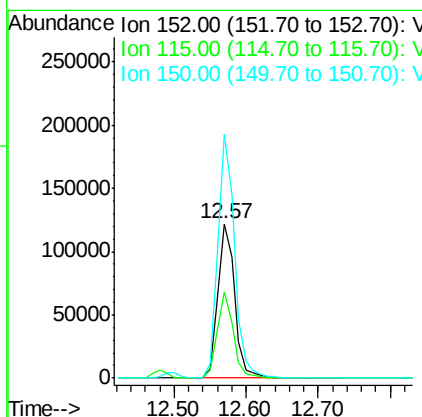
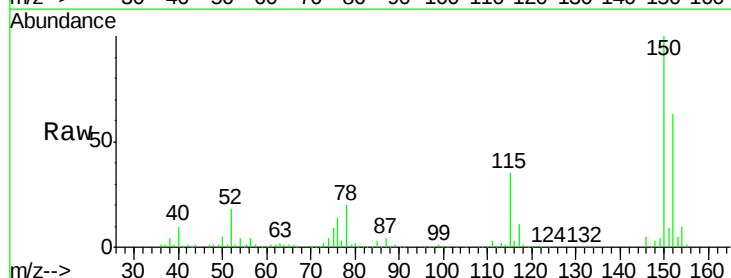
Manual Integrations
APPROVED

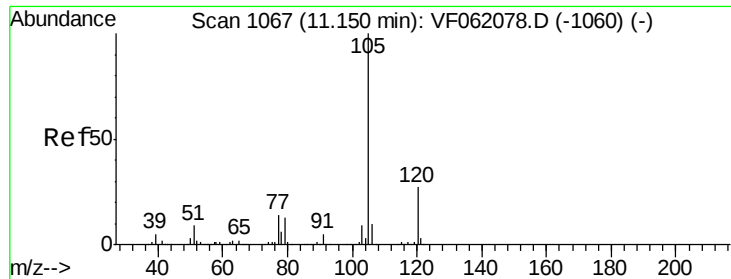
MMDadoda
3/27/2019 11:57:09 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	27.7	83.1
150	157.7	0.0	313.2





#73

Isopropylbenzene

Concen: 10.817 ug/l

RT: 11.15 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 147722

Ion Ratio Lower Upper

105 100

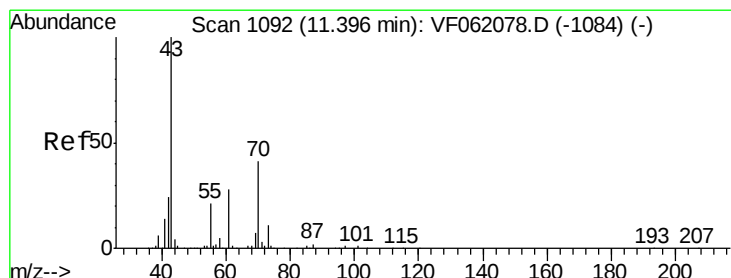
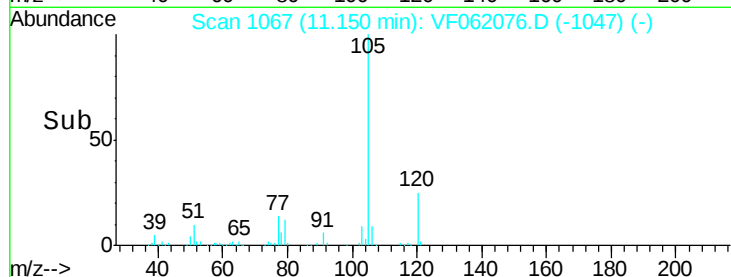
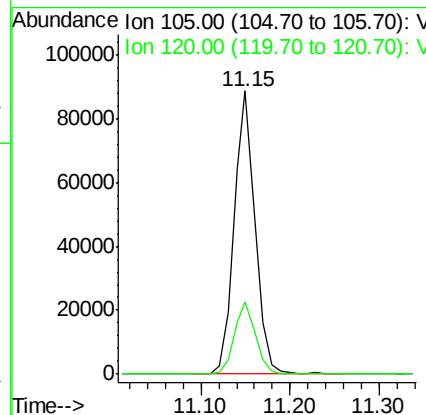
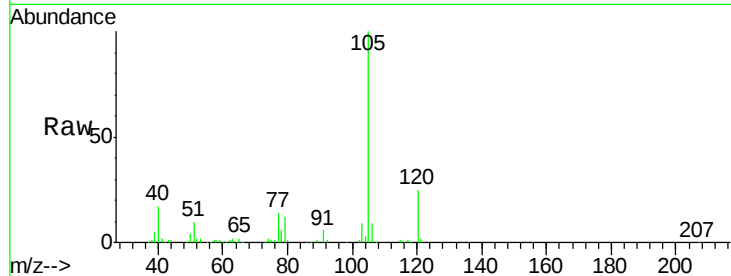
120 25.4 13.8 41.3

Manual Integrations

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MMDadoda

3/27/2019 11:57:09 AM



#74

N-ethyl acetate

Concen: 10.636 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion: 43 Resp: 34610

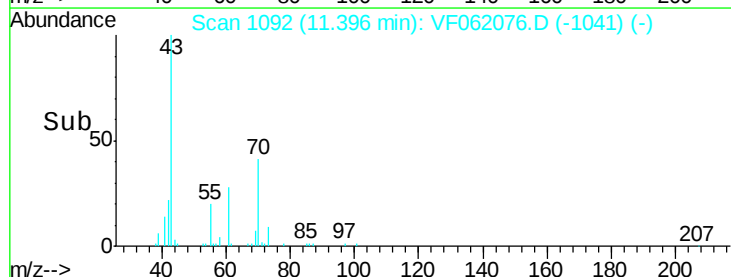
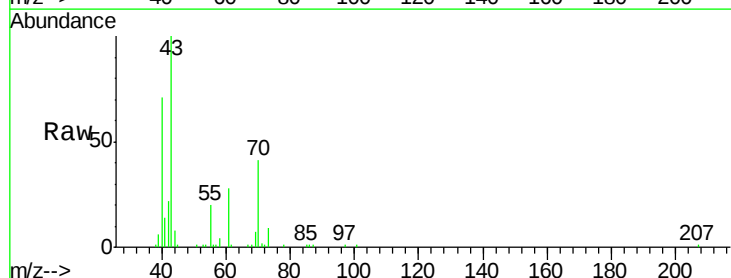
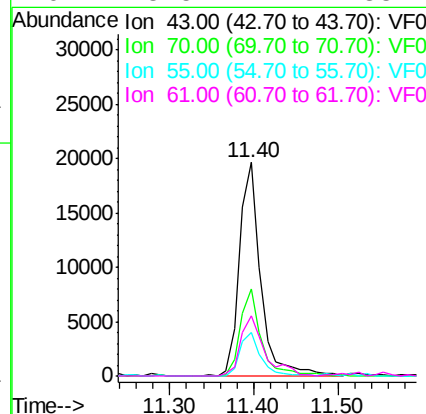
Ion Ratio Lower Upper

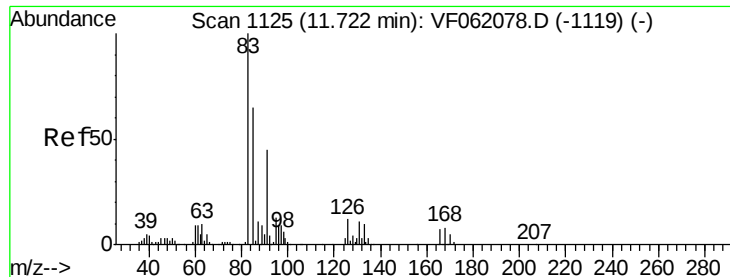
43 100

70 41.0 32.9 49.3

55 20.2 17.1 25.7

61 28.5 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 10.226 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

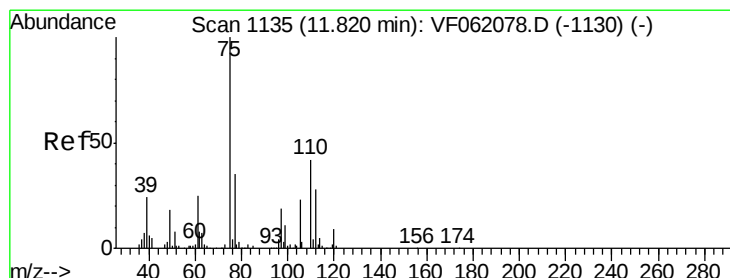
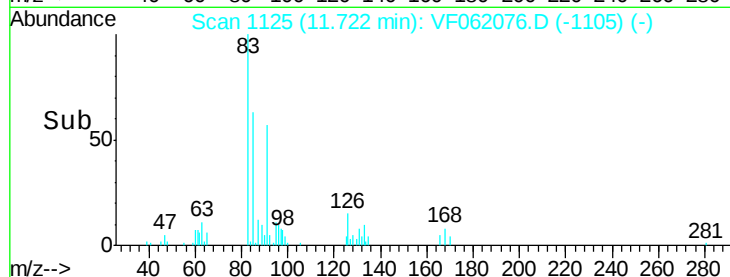
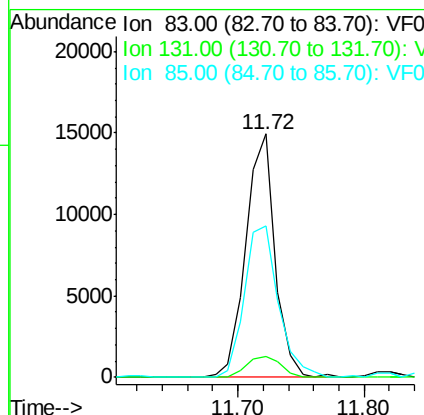
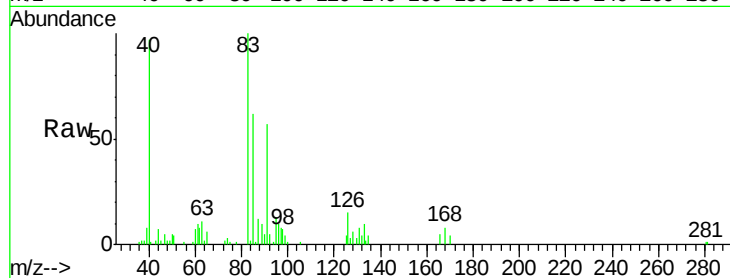
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	23978
Ion Ratio	Lower	Upper	
83	100		
131	8.5	5.3	15.8
85	62.4	32.6	98.0

Manual Integrations
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3/27/2019 11:57:09 AM



#76

1,2,3-Trichloropropane

Concen: 10.789 ug/l

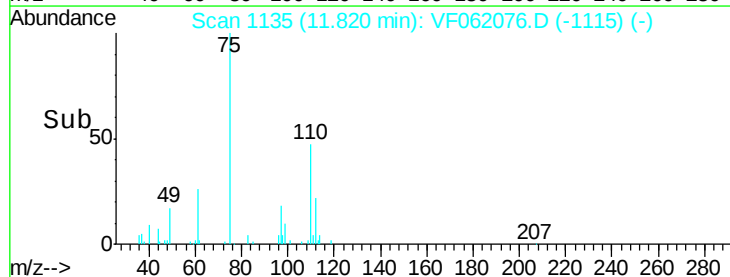
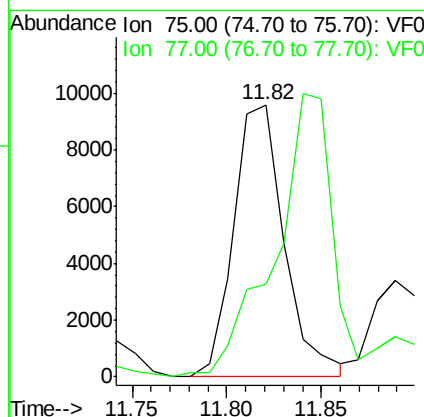
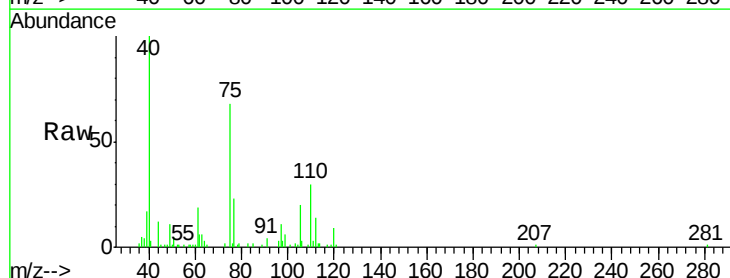
RT: 11.82 min Scan# 1135

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion:	75	Resp:	17804
Ion Ratio	Lower	Upper	
75	100		
77	33.9	17.8	53.3





#77

Bromobenzene

Concen: 10.944 ug/l

RT: 11.52 min Scan# 1105

Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

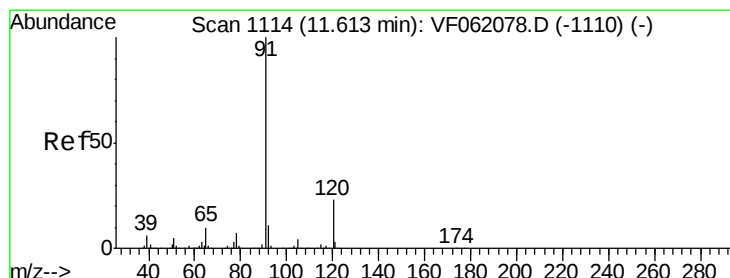
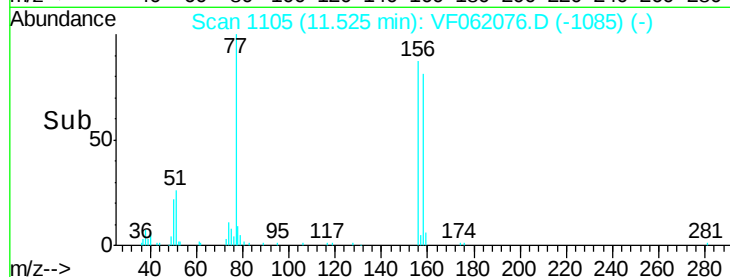
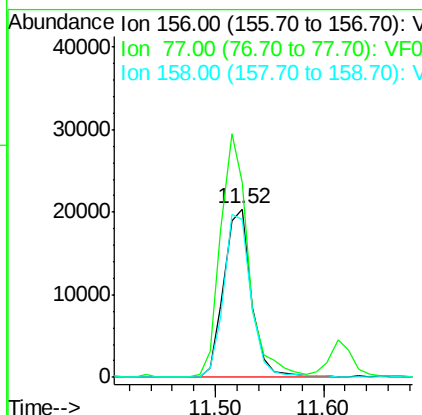
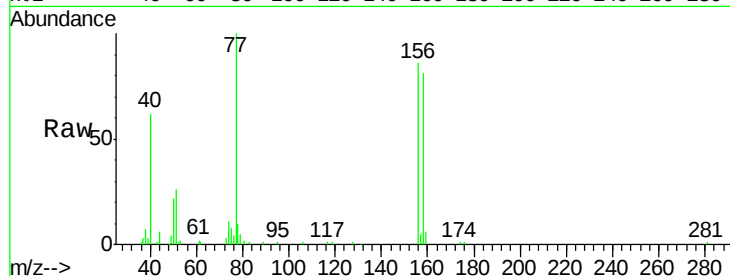
ClientSampleId :

VSTDIC010

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		36515		
77	116.0	61.3	183.9		
158	93.7	48.6	145.9		

Manual Integrations
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3/27/2019 11:57:09 AM



#78

n-propylbenzene

Concen: 11.335 ug/l

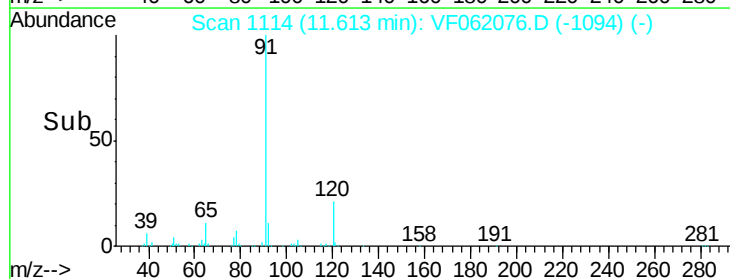
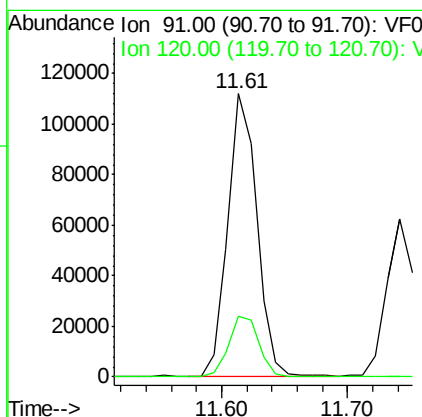
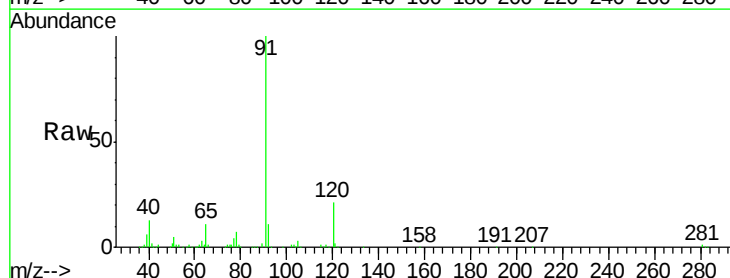
RT: 11.61 min Scan# 1114

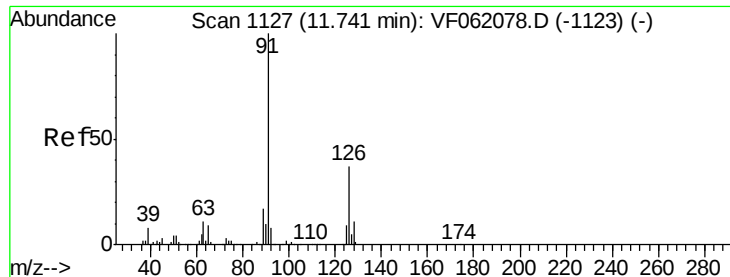
Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		179738		
120	21.4	11.3	33.8		





#79

2-Chlorotoluene

Concen: 10.959 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 96590

Ion Ratio Lower Upper

91 100

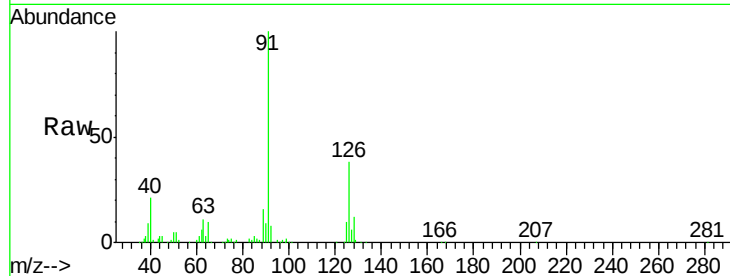
126 38.1 18.3 54.8

Manual Integrations

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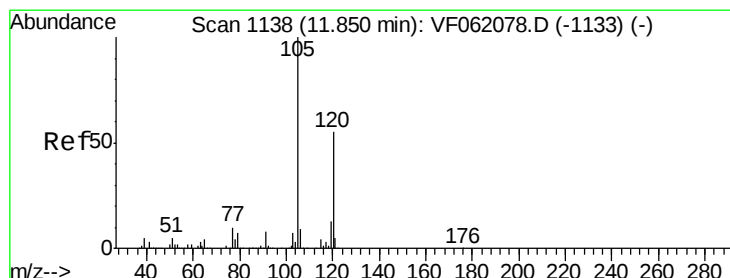
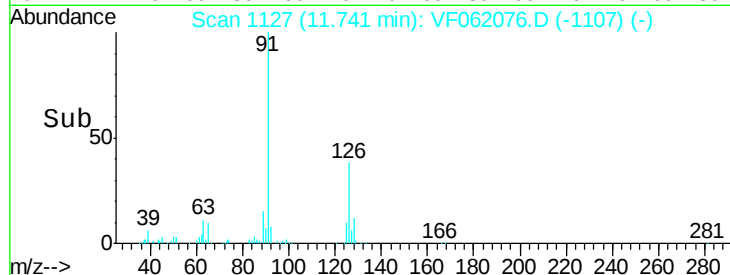
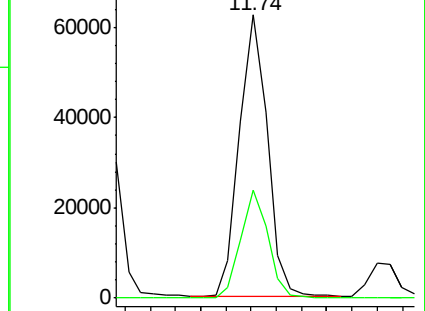
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 11.049 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VF062076.D

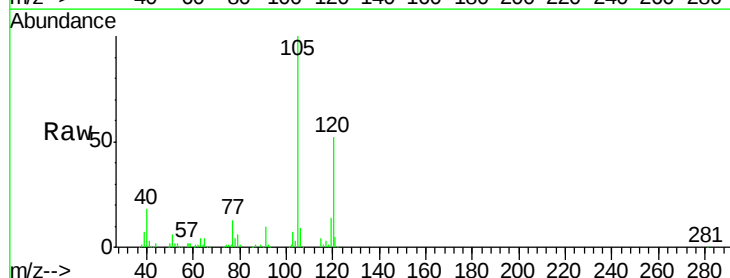
Acq: 22 Mar 2019 11:04

Tgt Ion:105 Resp: 124116

Ion Ratio Lower Upper

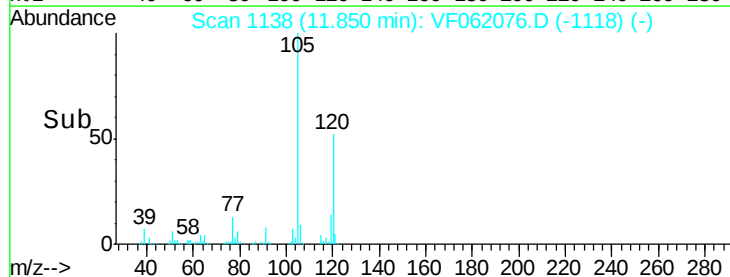
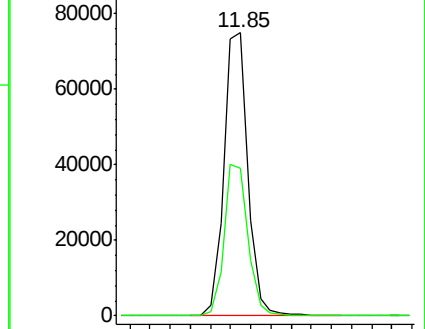
105 100

120 52.1 27.8 83.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 7.592 ug/l m

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

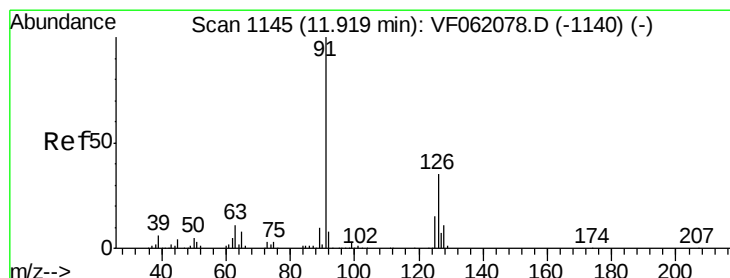
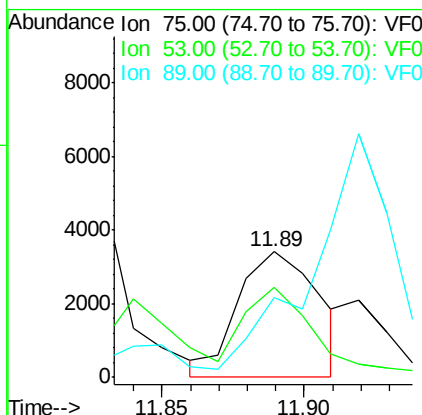
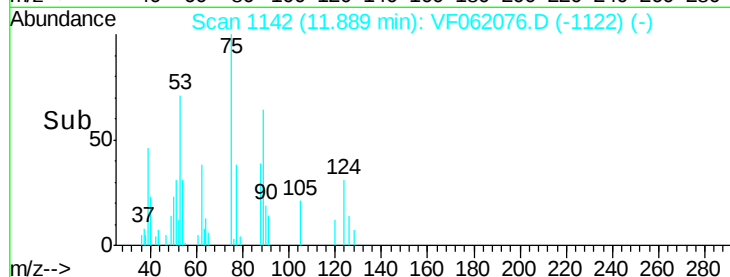
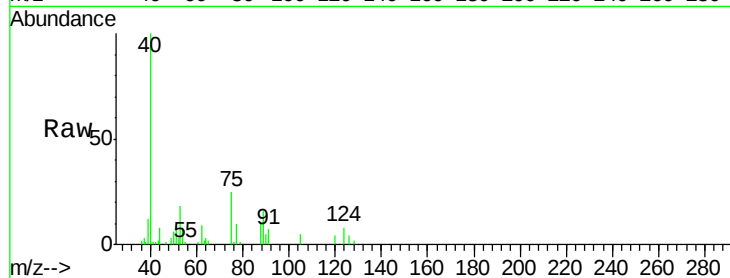
ClientSampleId :

VSTDIC010

Tot Ion:	75	Resp:	6757
Ion	Ratio	Lower	Upper
75	100		
53	71.1	49.4	74.0
89	63.8	40.6	60.8#

Manual Integrations
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#82

4-Chlorotoluene

Concen: 11.372 ug/l

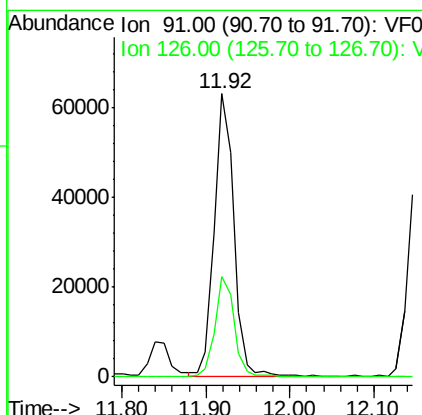
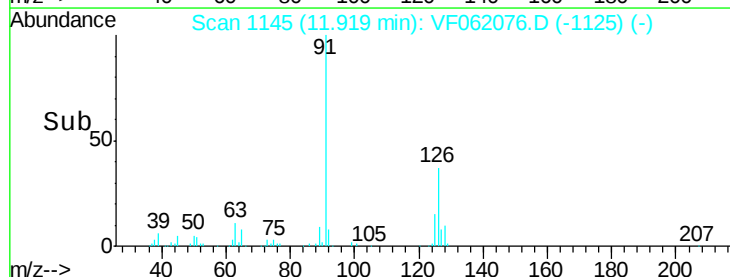
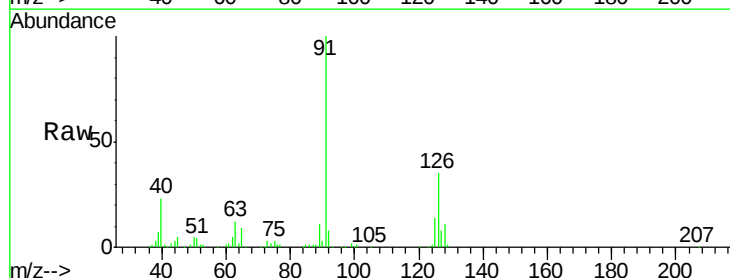
RT: 11.92 min Scan# 1145

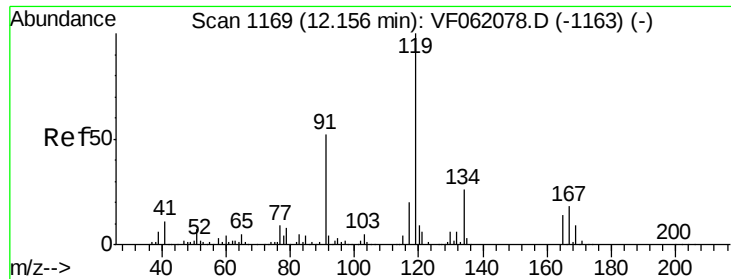
Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Tgt Ion:	91	Resp:	102769
Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.2	51.6





#83

tert-Butylbenzene

Concen: 10.888 ug/l

RT: 12.16 min Scan# 1169

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

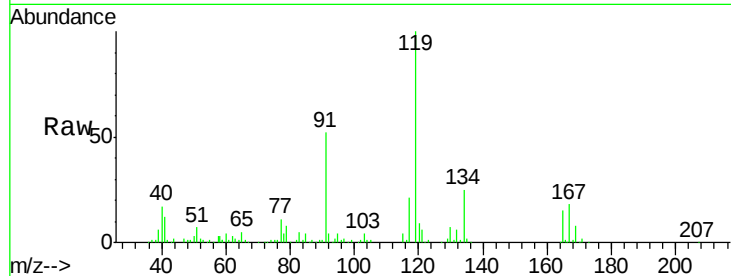
ClientSampleId :

VSTDIC010

Tot Ion:	119	Resp:	128026
Ion Ratio	Lower	Upper	
119	100		
91	52.1	26.1	78.2
134	24.6	12.8	38.4

Manual Integrations
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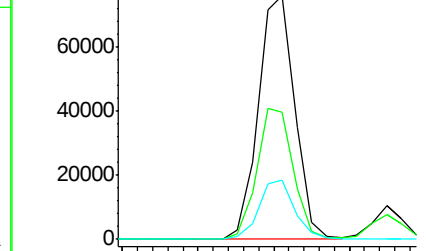
MMDadoda
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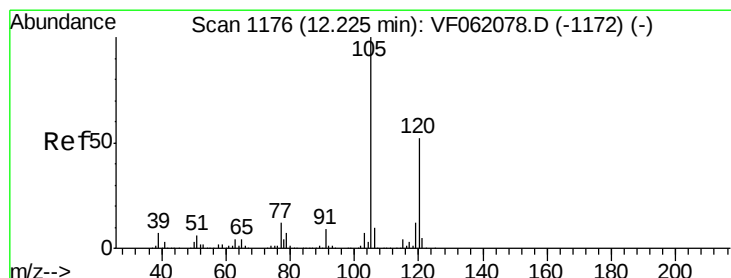
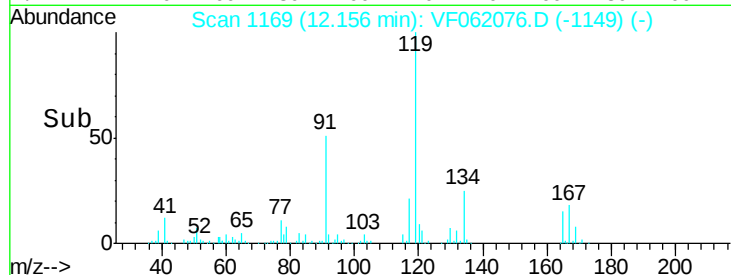
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



Time--> 12.05 12.10 12.15 12.20



#84

1,2,4-Trimethylbenzene

Concen: 11.369 ug/l

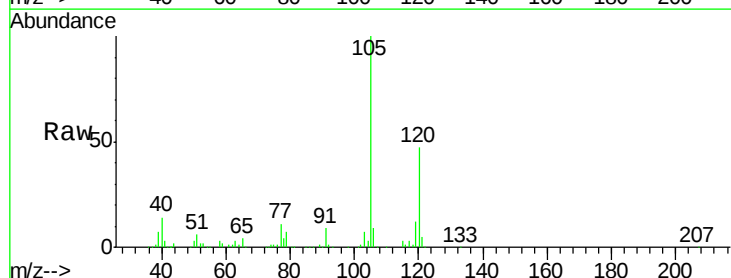
RT: 12.22 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VF062076.D

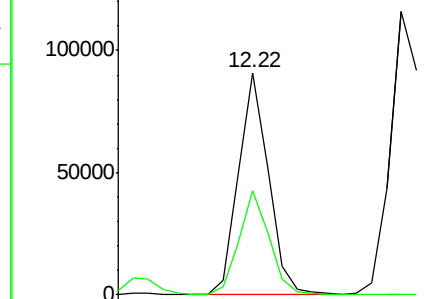
Acq: 22 Mar 2019 11:04

Tgt Ion:	105	Resp:	125193
Ion Ratio	Lower	Upper	
105	100		
120	47.1	26.1	78.2

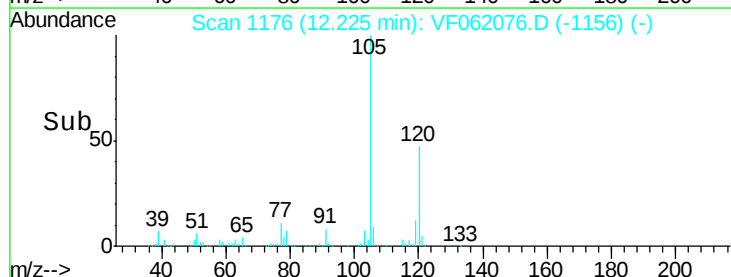


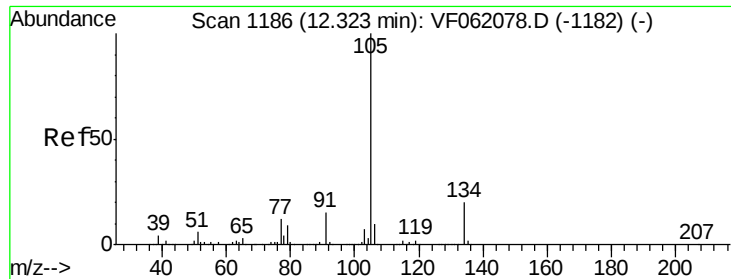
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time--> 12.15 12.20 12.25 12.30





#85

sec-Butylbenzene

Concen: 11.289 ug/l

RT: 12.32 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 171727

Ion Ratio Lower Upper

105 100

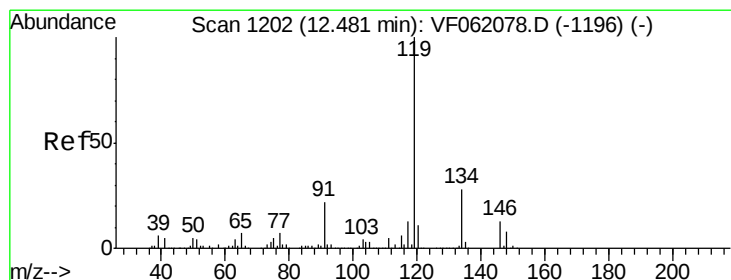
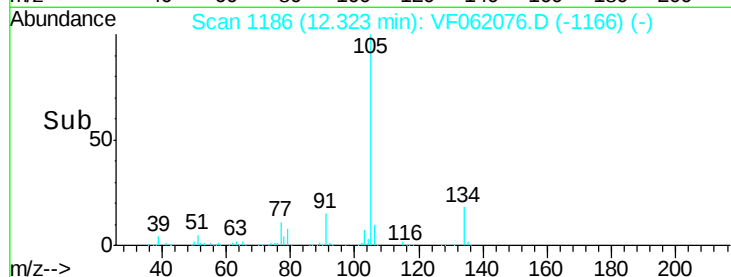
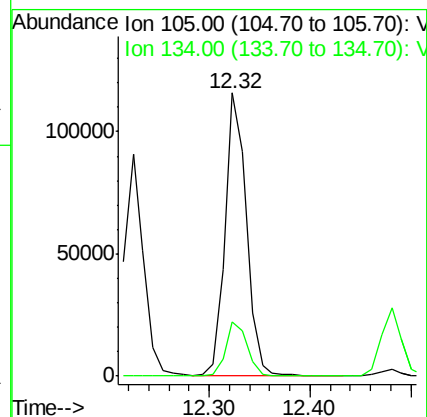
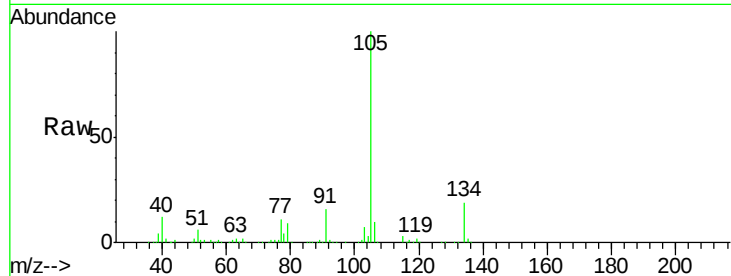
134 19.1 10.2 30.4

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 11.196 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF062076.D

Acq: 22 Mar 2019 11:04

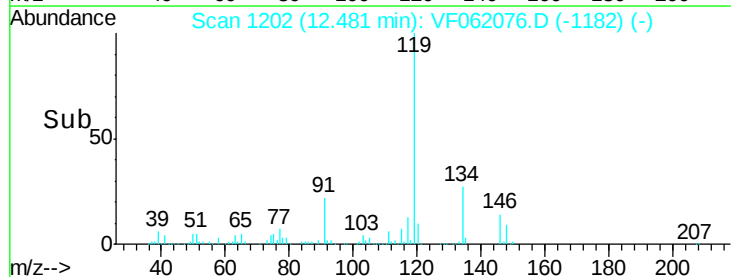
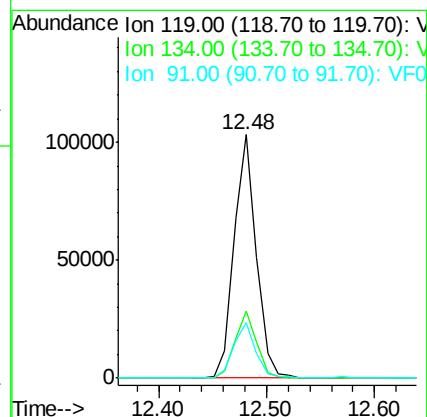
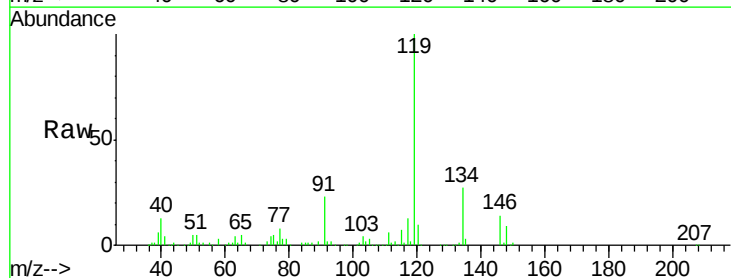
Tgt Ion:119 Resp: 147556

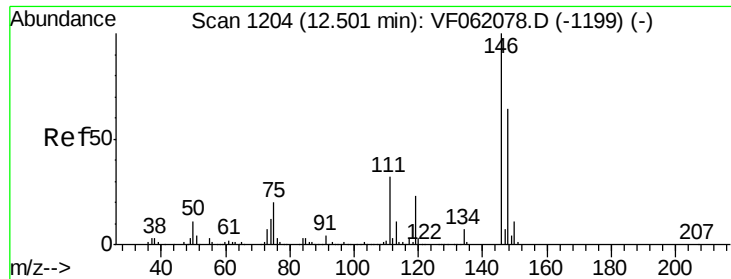
Ion Ratio Lower Upper

119 100

134 27.3 14.0 42.0

91 22.5 10.8 32.4





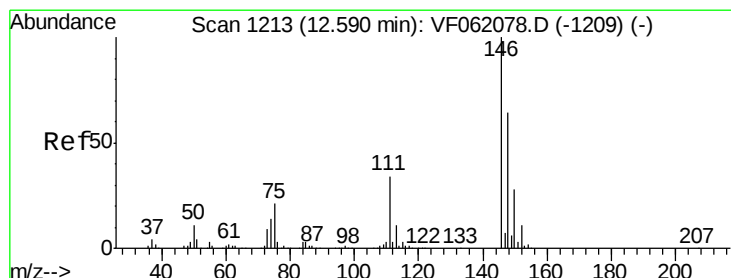
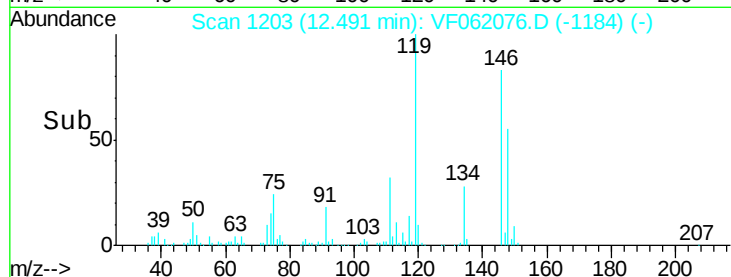
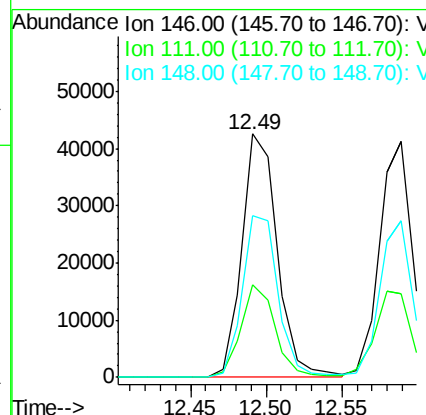
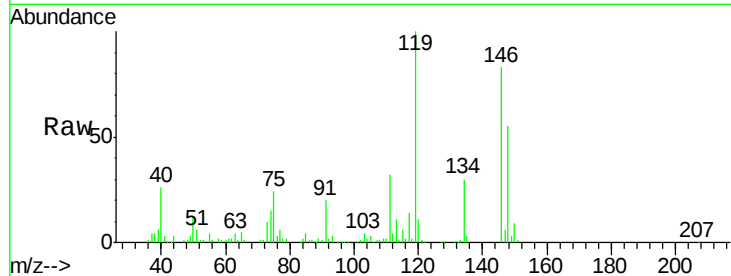
#87
 1,3-Dichlorobenzene
 Concen: 11.136 ug/l
 RT: 12.49 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	16.1	48.3
148	66.6	31.9	95.7

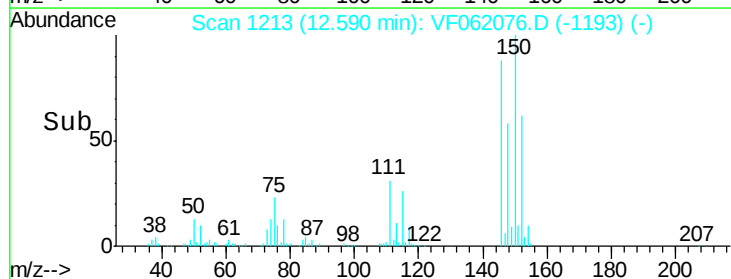
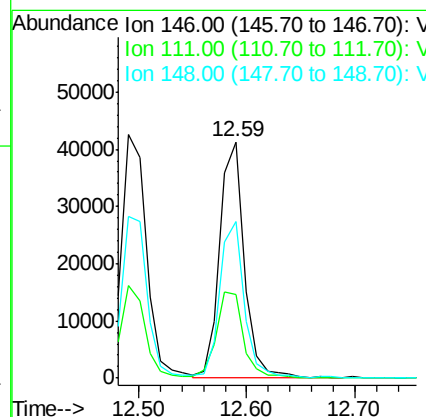
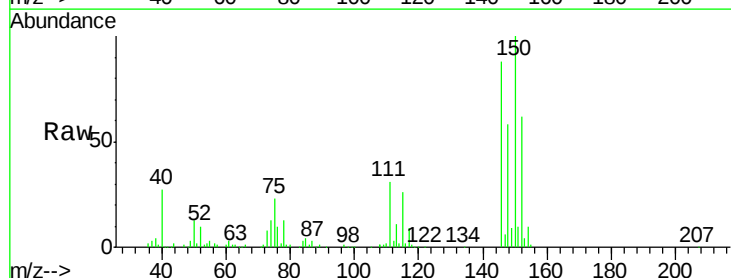
Manual Integrations
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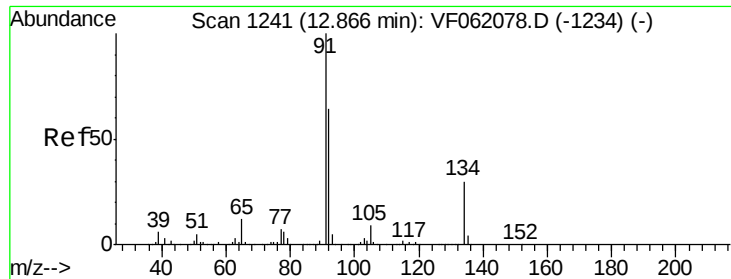
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#88
 1,4-Dichlorobenzene
 Concen: 10.779 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. 0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.2	16.9	50.6
148	66.2	31.9	95.7





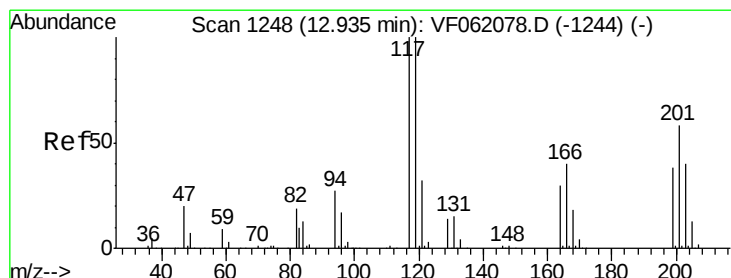
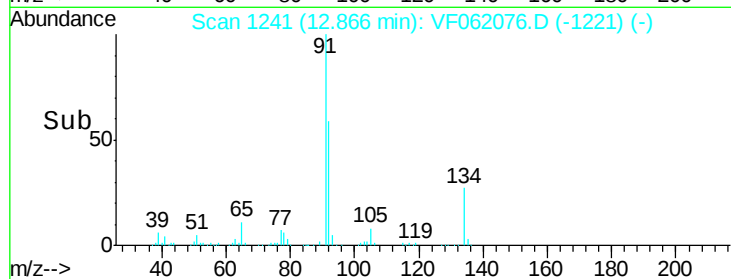
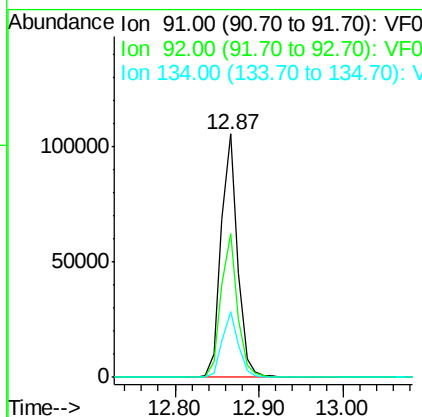
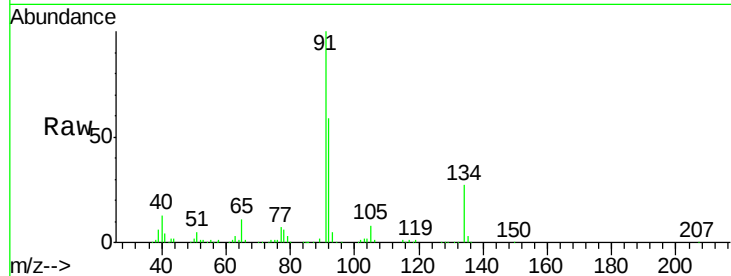
#89
n-Butylbenzene
Concen: 11.453 ug/l
RT: 12.87 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
91	100	144006		
92	59.1		31.9	95.5
134	26.8		14.9	44.9

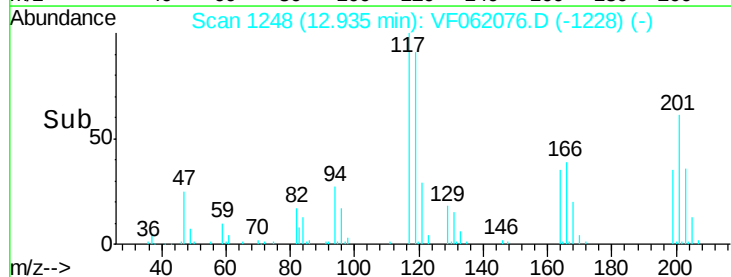
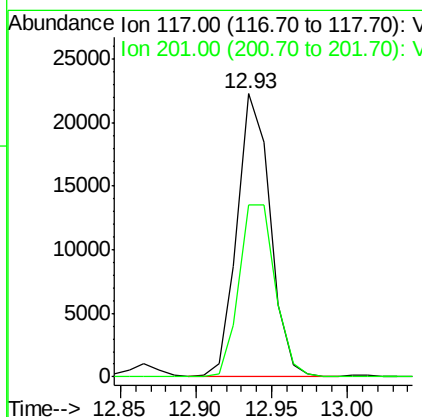
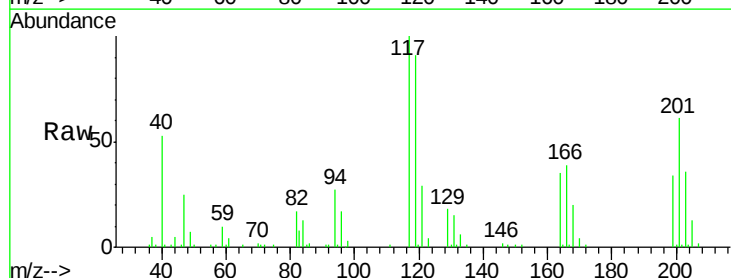
Manual Integrations
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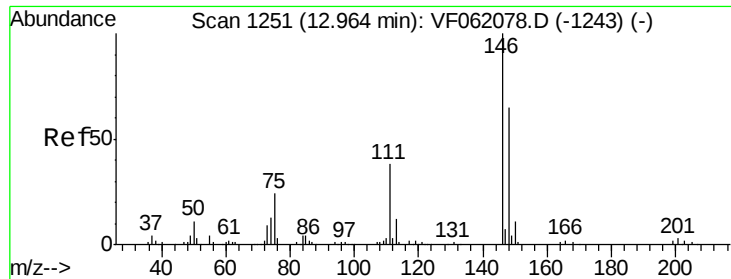
MMDadoda
3/27/2019 11:57:09 AM



#90
Hexachloroethane
Concen: 10.819 ug/l
RT: 12.93 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	33951		
201	60.8		28.7	86.1





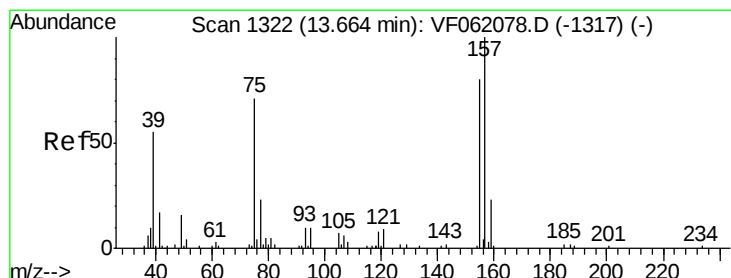
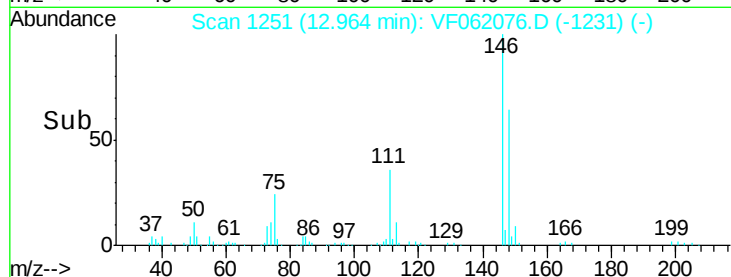
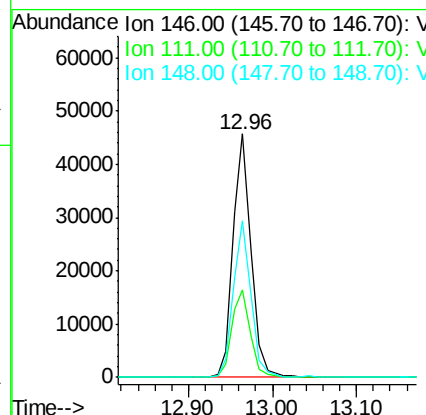
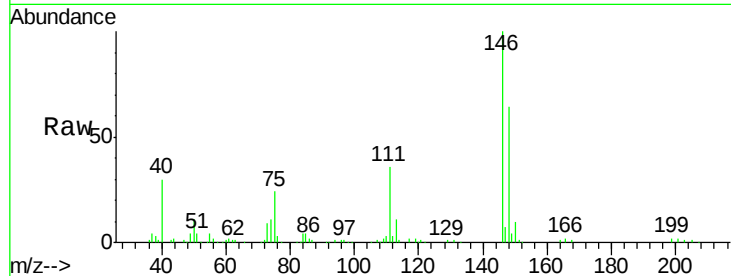
#91
 1,2-Dichlorobenzene
 Concen: 11.657 ug/l
 RT: 12.96 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.0	19.1	57.3
148	64.2	32.8	98.3

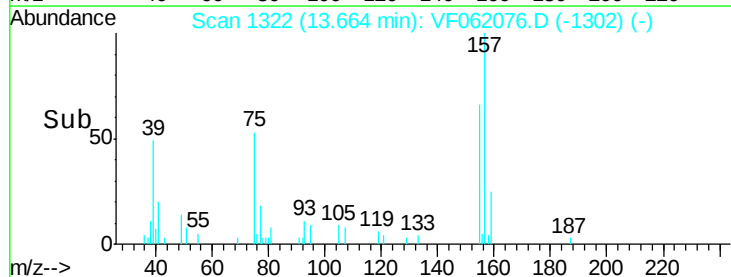
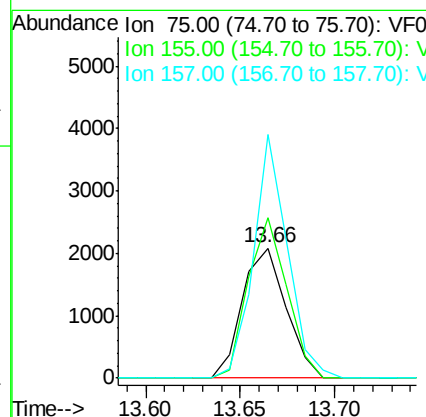
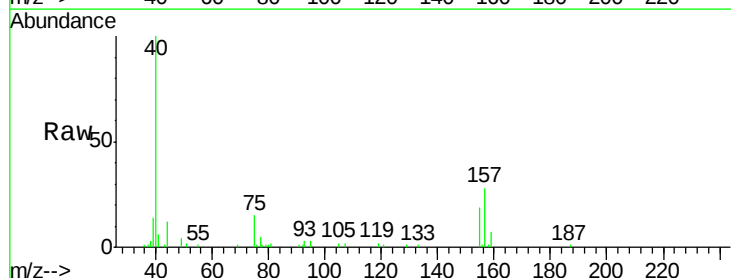
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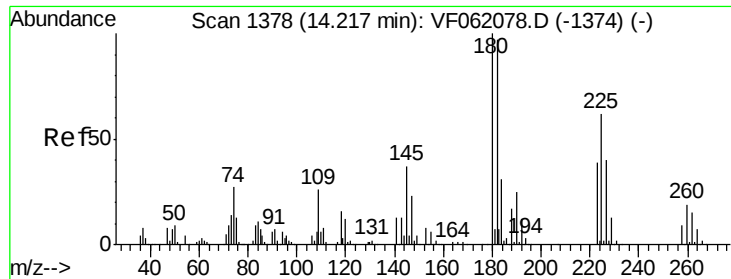
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.364 ug/l
 RT: 13.66 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	123.2	56.1	168.4
157	187.3	70.4	211.2





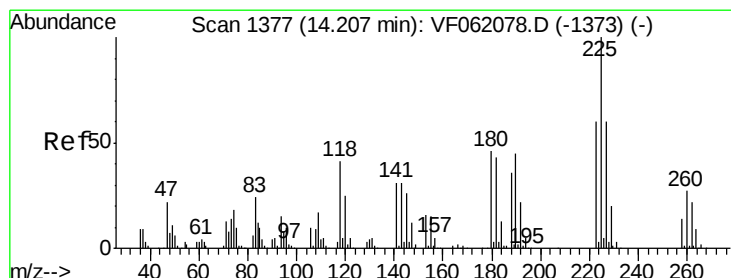
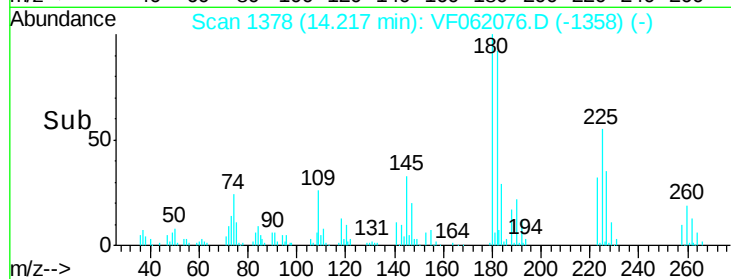
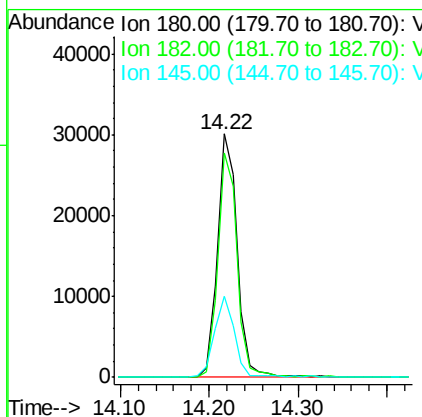
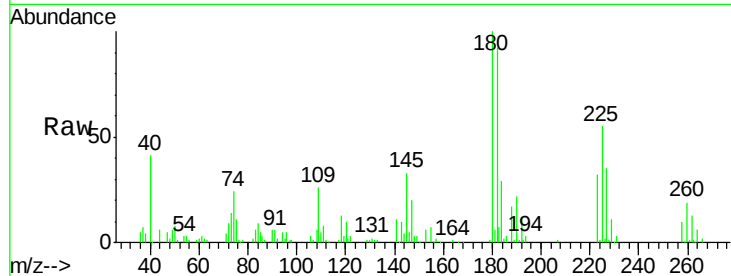
#93
 1,2,4-Trichlorobenzene
 Concen: 11.585 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.0	48.7	146.1
145	33.3	18.3	54.8

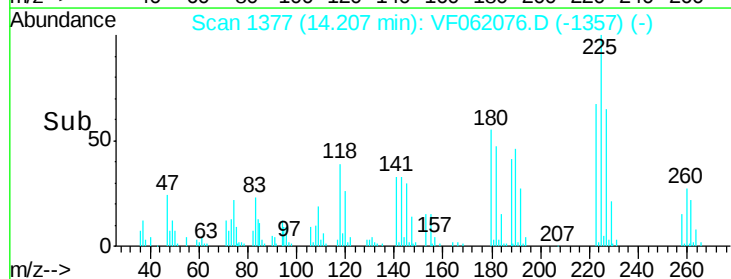
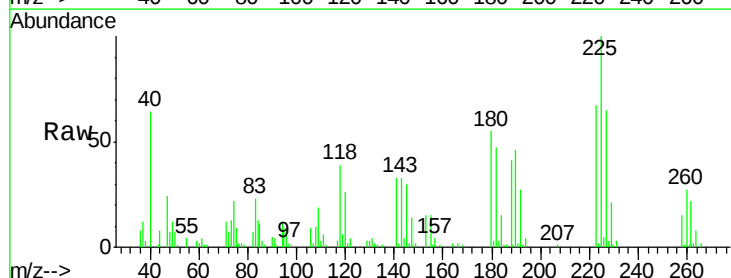
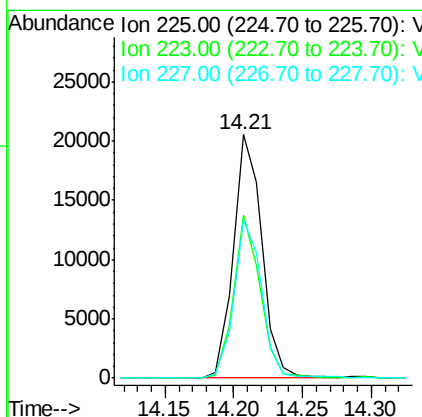
Manual Integrations
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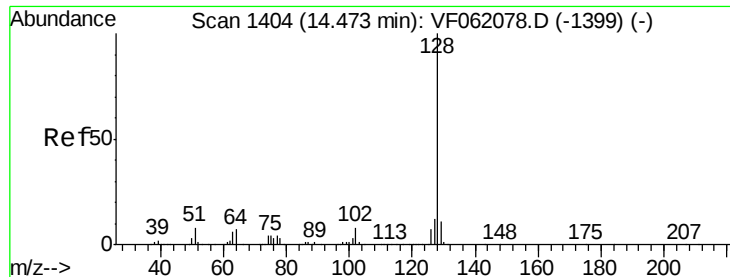
MMDadoda
 3/27/2019 11:57:09 AM



#94
 Hexachlorobutadiene
 Concen: 10.992 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF062076.D
 Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.8	30.0	90.0
227	64.6	30.2	90.6





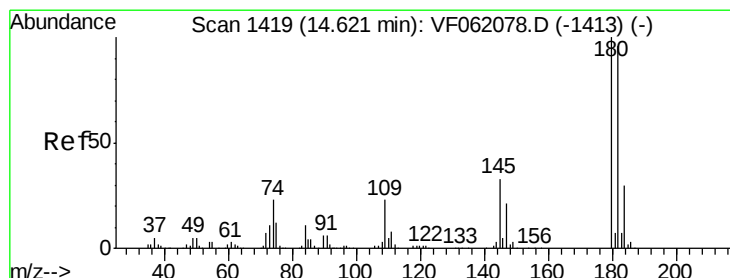
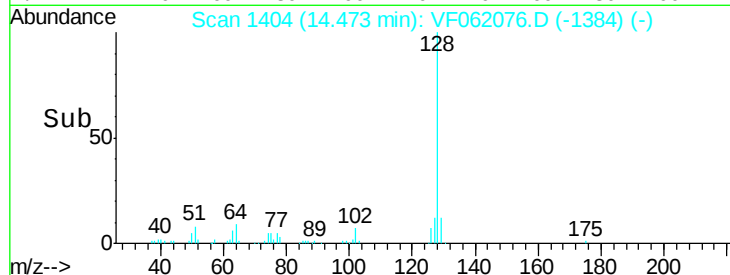
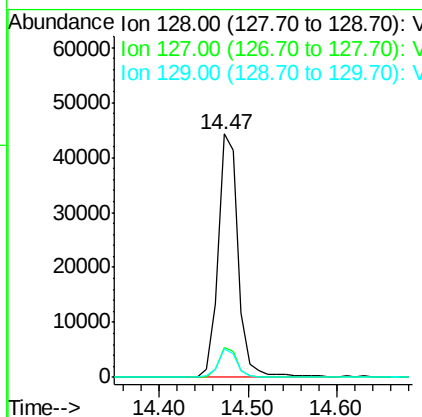
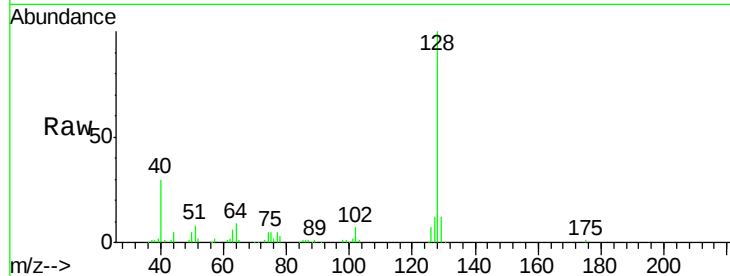
#95
Naphthalene
Concen: 9.886 ug/l
RT: 14.47 min Scan# 1404
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.0	9.5	14.3
129	11.7	8.7	13.1

Manual Integrations
APPROVED

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3/27/2019 11:57:09 AM



#96
1,2,3-Trichlorobenzene
Concen: 10.555 ug/l
RT: 14.62 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF062076.D
Acq: 22 Mar 2019 11:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.9	143.7
145	31.1	16.6	49.7

