

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061837.D
 Acq On : 5 Mar 2019 00:11
 Operator : VA/AP
 Sample : K1712-05
 Misc : 5.52g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-2-AB

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:48:31 AM

Quant Time: Mar 05 05:46:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	226750	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	347393	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	262647	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	100641	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	93289	56.10	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	112.20%	
35) Dibromofluoromethane	4.11	113	115196	44.65	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.30%	
50) Toluene-d8	7.54	98	279111	37.64	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	75.28%	
62) 4-Bromofluorobenzene	11.41	95	102998	34.32	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	68.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	259	0.099	ug/l #	53
3) Chloromethane	1.07	50	647	0.237	ug/l #	42
5) Bromomethane	1.31	94	201	0.115	ug/l #	3
6) Chloroethane	1.43	64	71	0.057	ug/l #	40
10) Methyl Iodide	1.96	142	63	0.015	ug/l #	39
12) 1,1-Dichloroethene	1.79	96	67	0.034	ug/l #	2
14) Allyl chloride	2.04	41	534	0.224	ug/l #	66
15) Acrylonitrile	2.95	53	85	0.249	ug/l #	58
16) Acetone	2.23	43	23027	64.545	ug/l	98
17) Carbon Disulfide	1.82	76	360	0.059	ug/l #	73
19) Methyl tert-butyl Ether	2.44	73	254	0.076	ug/l #	57
20) Methylene Chloride	2.25	84	26532m	12.311	ug/l	
21) trans-1,2-Dichloroethene	2.28	96	500	0.237	ug/l #	1
22) Diisopropyl ether	2.82	45	789	0.138	ug/l #	1
23) Vinyl Acetate	3.18	43	549	0.196	ug/l #	74
24) 1,1-Dichloroethane	2.83	63	446	0.129	ug/l #	86
26) 2,2-Dichloropropane	3.51	77	62	0.042	ug/l #	52
27) cis-1,2-Dichloroethene	3.37	96	63	0.023	ug/l	1
30) Chloroform	3.87	83	394	0.100	ug/l #	18
31) Cyclohexane	3.67	56	80	0.021	ug/l #	16
32) 1,1,1-Trichloroethane	4.21	97	492	0.191	ug/l	89
36) 1,1-Dichloropropene	4.34	75	269	0.078	ug/l #	37
37) Ethyl Acetate	4.16	43	299	0.187	ug/l #	30
38) Carbon Tetrachloride	4.08	117	265	0.112	ug/l #	82
39) Methylcyclohexane	5.45	83	2401	0.590	ug/l #	72
40) Benzene	4.63	78	968	0.108	ug/l #	52
41) Methacrylonitrile	4.78	41	138	0.169	ug/l #	25
42) 1,2-Dichloroethane	5.03	62	64	0.030	ug/l	67
43) Isopropyl Acetate	6.94	43	222	0.117	ug/l #	43
44) Trichloroethene	5.50	130	601	0.206	ug/l	90
45) 1,2-Dichloropropane	6.19	63	69	0.032	ug/l #	44
47) Bromodichloromethane	6.53	83	62	0.021	ug/l #	24
48) Methyl methacrylate	6.67	41	190	0.167	ug/l #	45
52) Toluene	7.62	92	2804	0.514	ug/l #	66

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) t-1,3-Dichloropropene	8.29	75	77	0.032	ug/l #	42
54) cis-1,3-Dichloropropene	7.33	75	89	0.027	ug/l #	36
55) 1,1,2-Trichloroethane	8.52	97	62	0.039	ug/l #	16
58) 2-Chloroethyl Vinyl ether	7.30	63	179	0.581	ug/l #	44
64) Tetrachloroethene	8.15	164	83	0.039	ug/l #	39
67) Ethyl Benzene	9.89	91	2802	0.316	ug/l #	76
68) m/p-Xylenes	10.13	106	3945	1.163	ug/l	80
69) o-Xylene	10.71	106	1516	0.419	ug/l	76
70) Styrene	10.79	104	262	0.051	ug/l #	32
73) Isopropylbenzene	11.12	105	234	0.033	ug/l #	48
74) N-amyl acetate	11.38	43	696	0.405	ug/l #	81
75) 1,1,2,2-Tetrachloroethane	11.67	83	472	0.368	ug/l #	1
76) 1,2,3-Trichloropropane	11.88	75	98	0.112	ug/l #	42
77) Bromobenzene	11.49	156	85	0.048	ug/l #	1
78) n-propylbenzene	11.59	91	583	0.071	ug/l #	54
79) 2-Chlorotoluene	11.72	91	383	0.083	ug/l #	44
80) 1,3,5-Trimethylbenzene	11.81	105	635	0.111	ug/l	83
81) trans-1,4-Dichloro-2-buten	11.88	75	98	0.234	ug/l #	21
82) 4-Chlorotoluene	11.90	91	376	0.079	ug/l #	37
83) tert-Butylbenzene	12.13	119	201	0.032	ug/l #	33
84) 1,2,4-Trimethylbenzene	12.21	105	1242	0.218	ug/l	74
85) sec-Butylbenzene	12.31	105	692	0.084	ug/l #	54
86) p-Isopropyltoluene	12.45	119	617	0.090	ug/l #	43
87) 1,3-Dichlorobenzene	12.49	146	220	0.064	ug/l #	26
88) 1,4-Dichlorobenzene	12.55	146	435	0.131	ug/l #	1
89) n-Butylbenzene	12.84	91	802	0.123	ug/l #	63
91) 1,2-Dichlorobenzene	12.95	146	356	0.108	ug/l #	66
93) 1,2,4-Trichlorobenzene	14.20	180	351	0.149	ug/l #	77
95) Naphthalene	14.46	128	1809	0.439	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.60	180	249	0.115	ug/l #	76

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

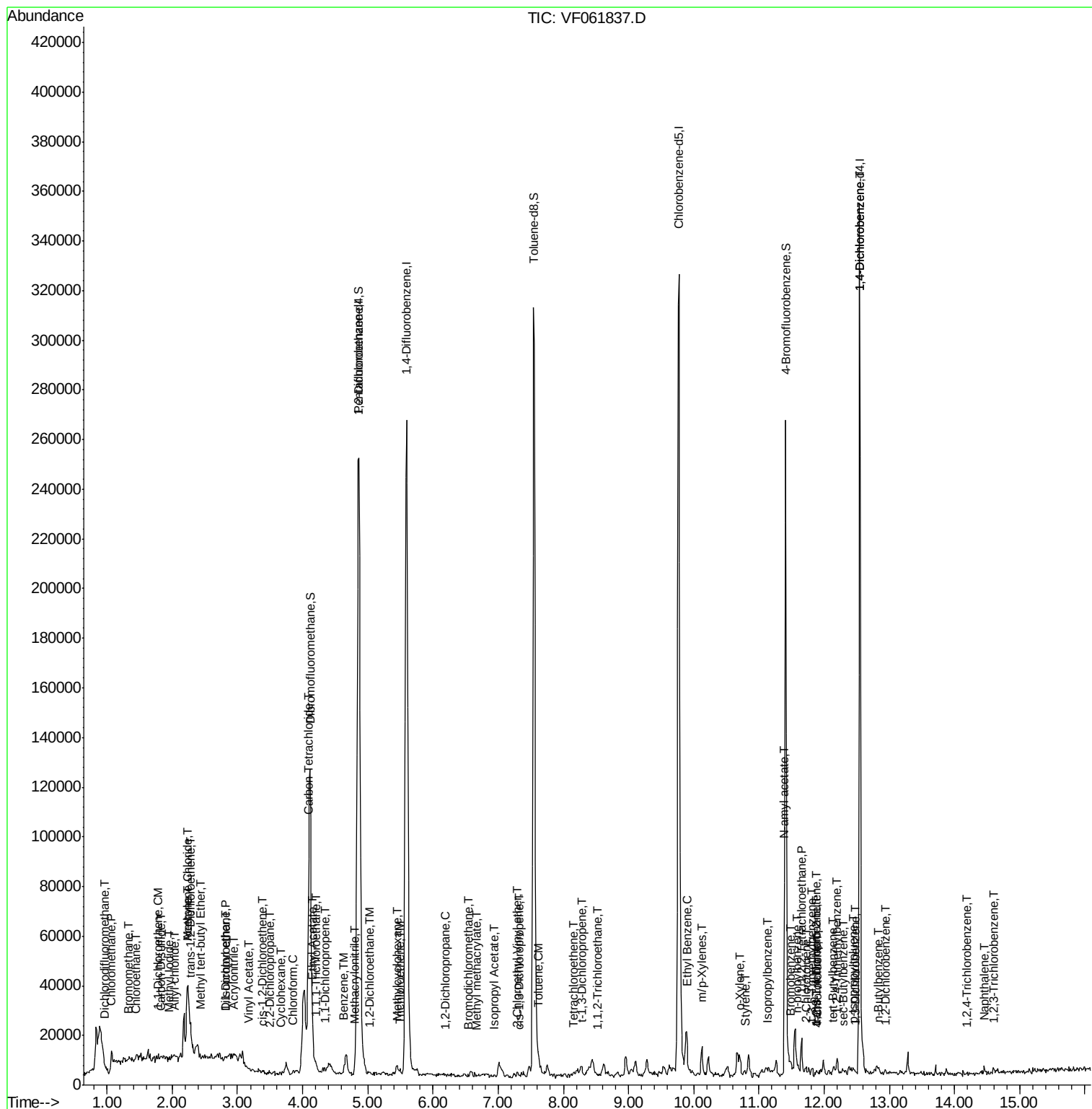
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF030419\
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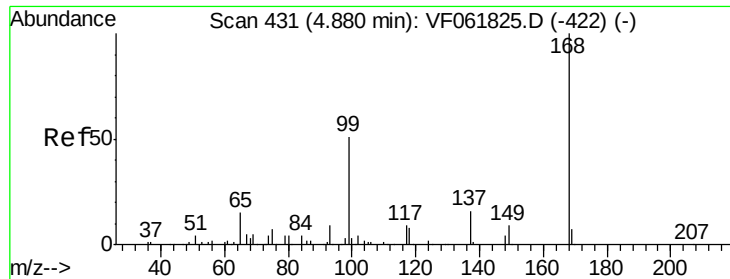
Instrument :
MSVOA_F
ClientSampled :
Z-4-2-AB

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#1

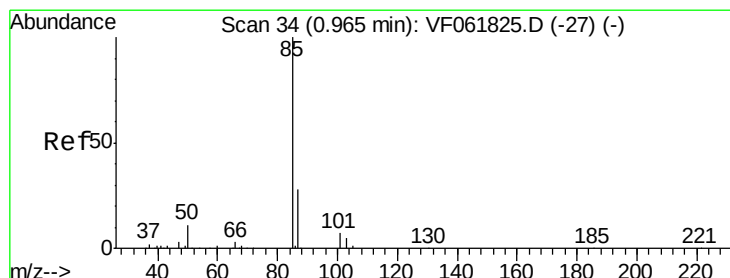
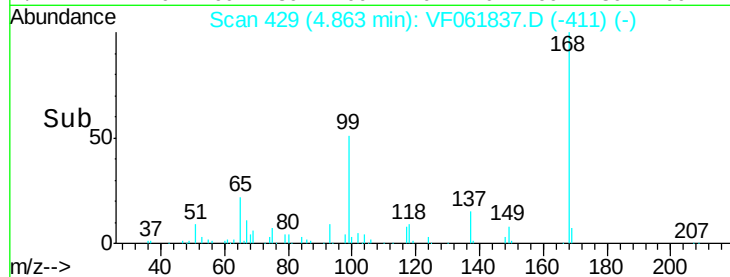
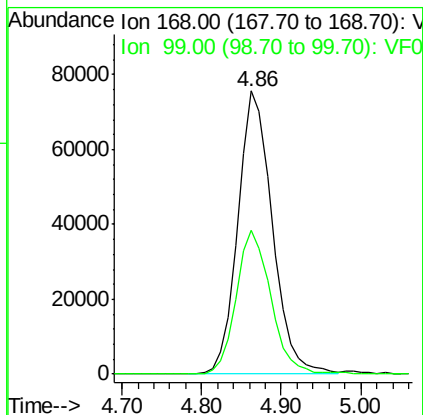
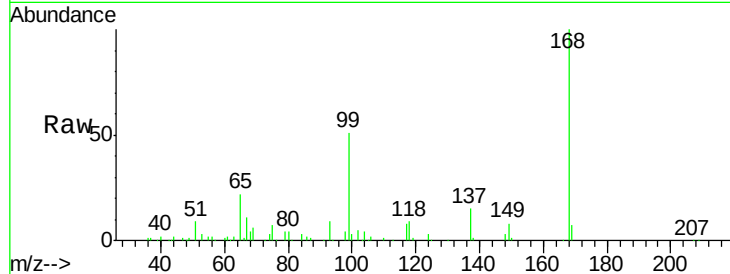
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.86 min Scan# 429
Delta R.T. -0.03 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
168	100		
99	50.9	34.9	52.3

Manual Integrations
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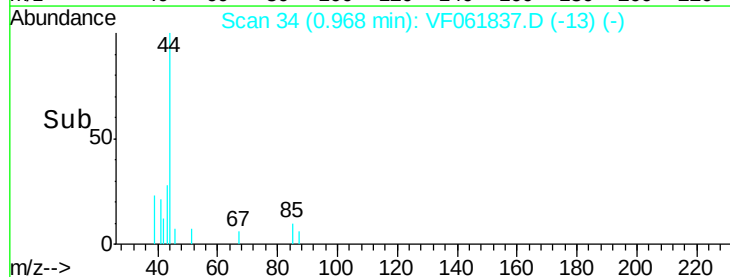
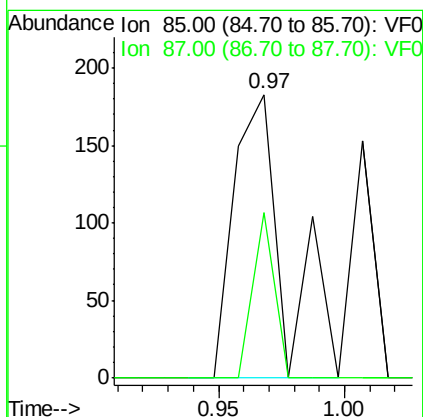
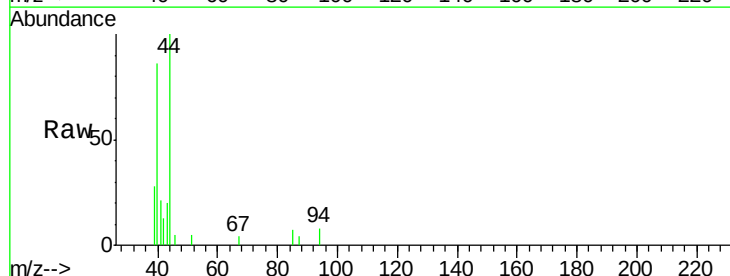
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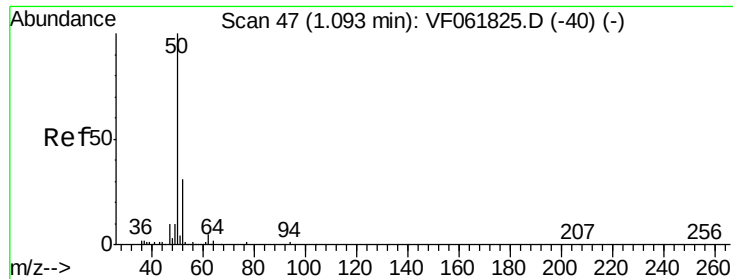


#2

Dichlorodifluoromethane
Concen: 0.099 ug/l
RT: 0.97 min Scan# 34
Delta R.T. 0.00 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
85	100		
87	58.5	16.1	48.2





#3

Chloromethane

Concen: 0.237 ug/l

RT: 1.07 min Scan# 44

Delta R.T. -0.04 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampled :

Z-4-2-AB

Tot Ion: 50 Resp: 647

Ion Ratio Lower Upper

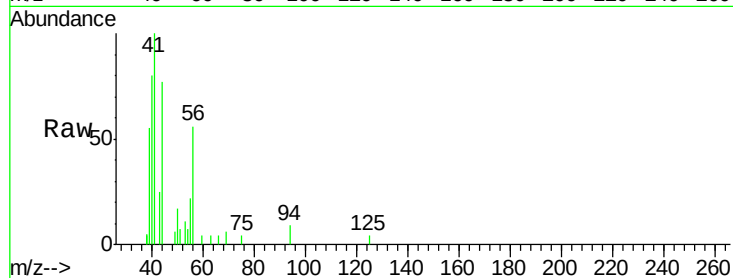
50 100

52 0.0 26.2 39.4#

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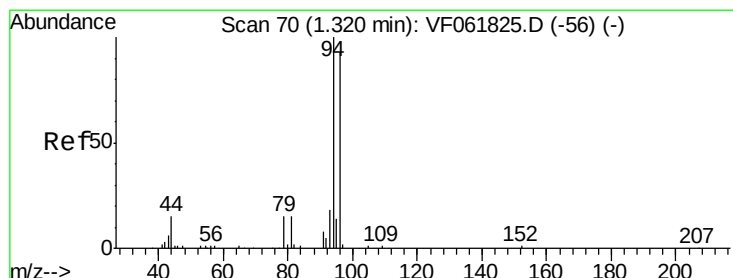
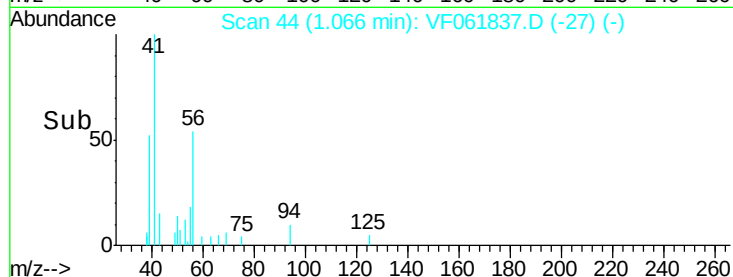
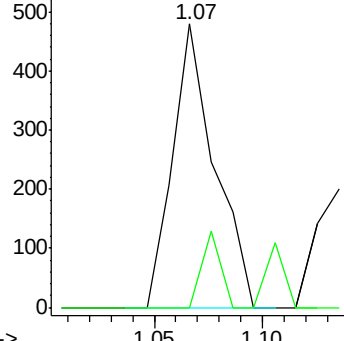
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#5

Bromomethane

Concen: 0.115 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061837.D

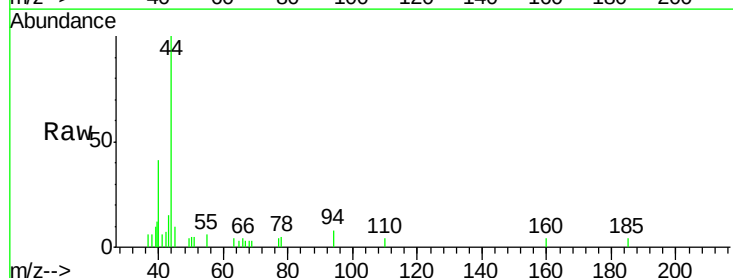
Acq: 5 Mar 2019 00:11

Tgt Ion: 94 Resp: 201

Ion Ratio Lower Upper

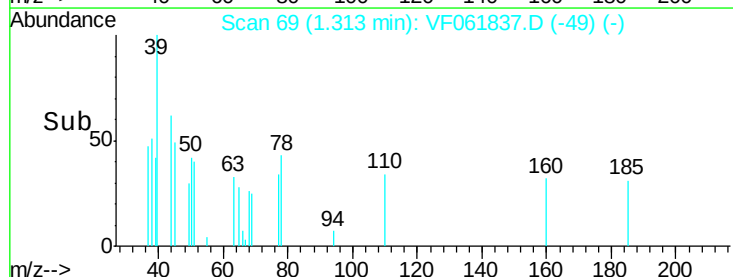
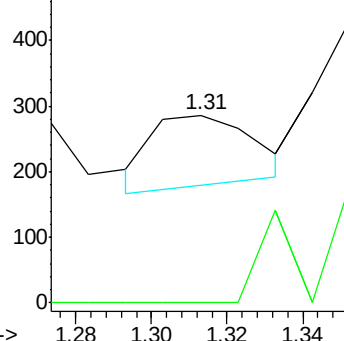
94 100

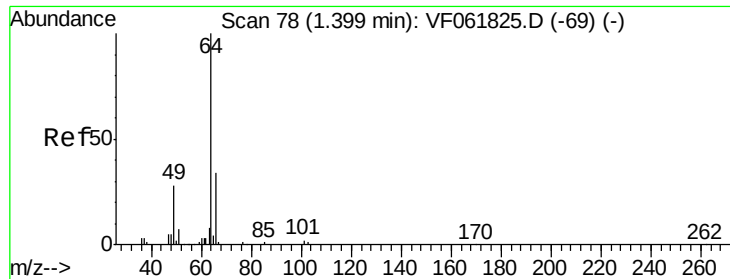
96 0.0 74.6 112.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#6

Chloroethane

Concen: 0.057 ug/l

RT: 1.43 min Scan# 81

Delta R.T. 0.03 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

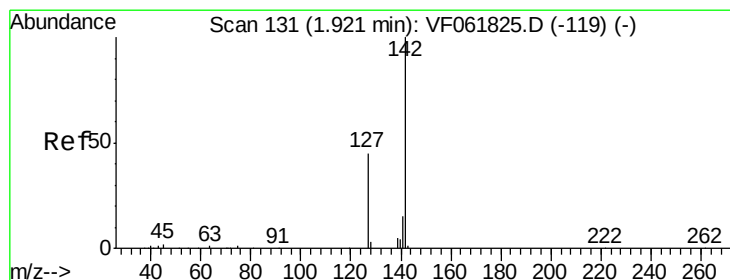
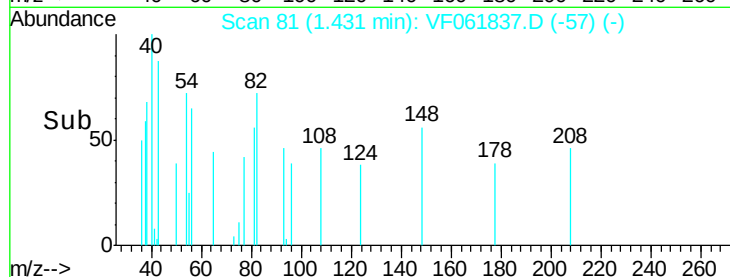
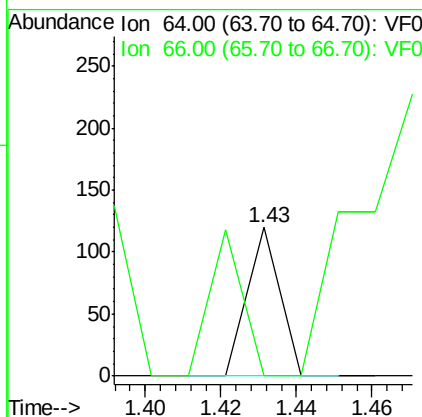
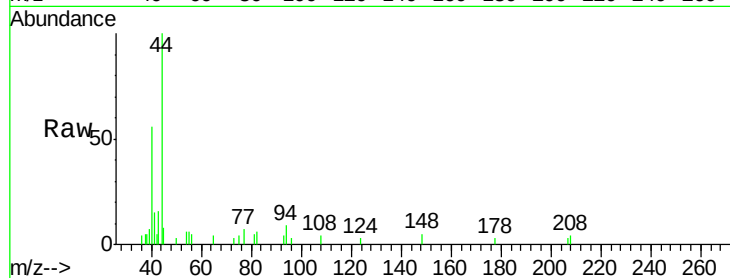
ClientSampleId :

Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
64	100		
66	0.0	27.9	41.9#

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#10

Methyl Iodide

Concen: 0.015 ug/l

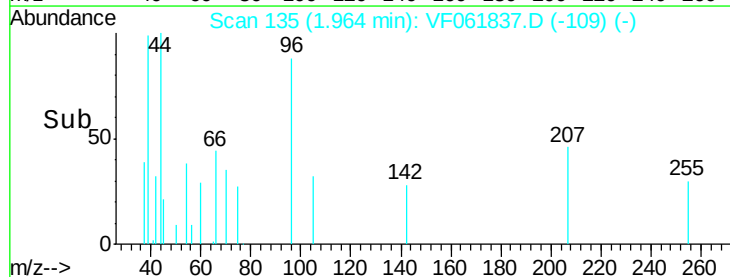
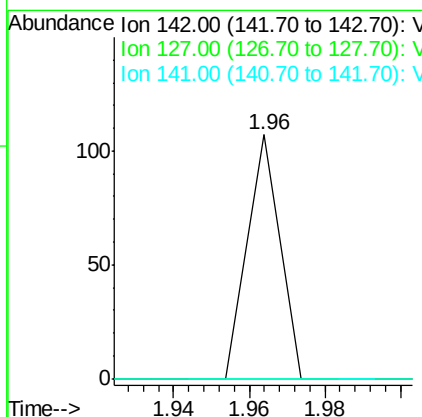
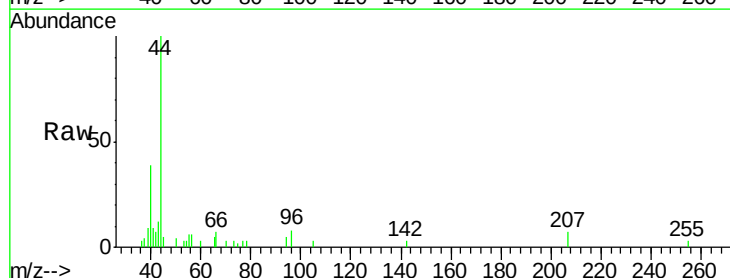
RT: 1.96 min Scan# 135

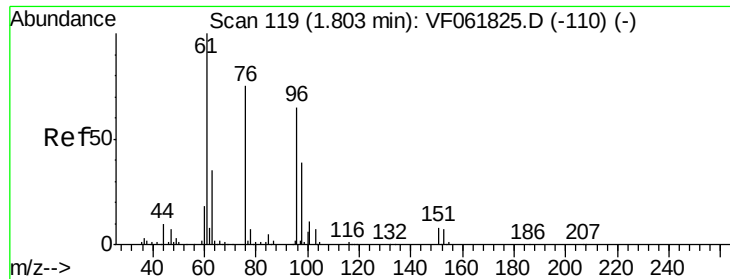
Delta R.T. 0.05 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
142	100		
127	0.0	36.6	55.0#
141	0.0	11.0	16.6#





#12

1,1-Dichloroethene

Concen: 0.034 ug/l

RT: 1.79 min Scan# 117

Delta R.T. -0.02 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

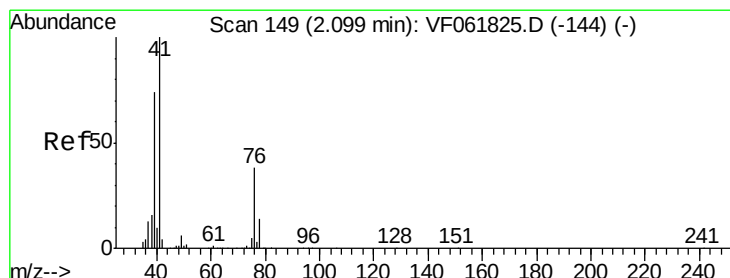
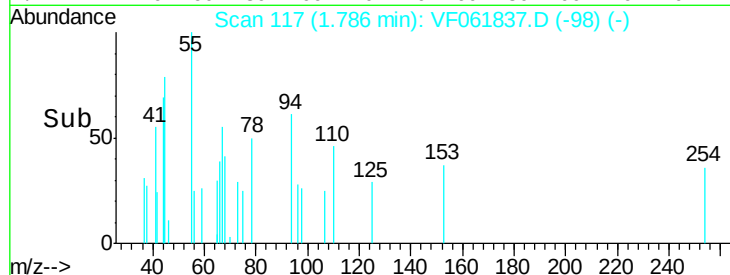
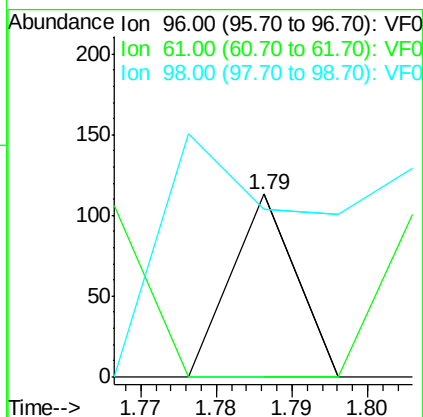
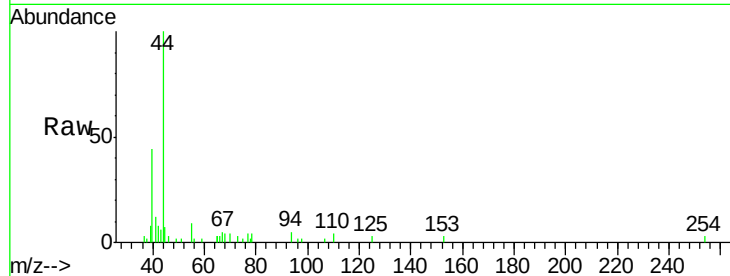
ClientSampleId :

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Tot Ion:	96	Resp:	67
Ion	Ratio	Lower	Upper
96	100		
61	0.0	122.6	184.0#
98	92.0	47.2	70.8#

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#14

Allyl chloride

Concen: 0.224 ug/l

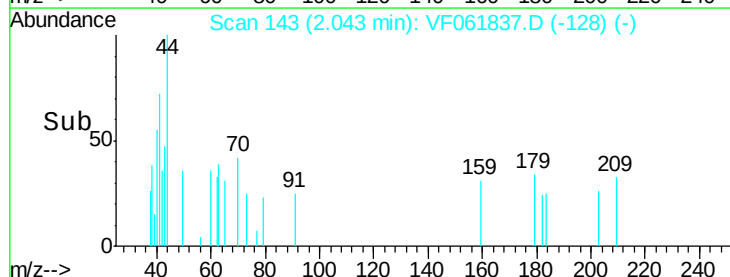
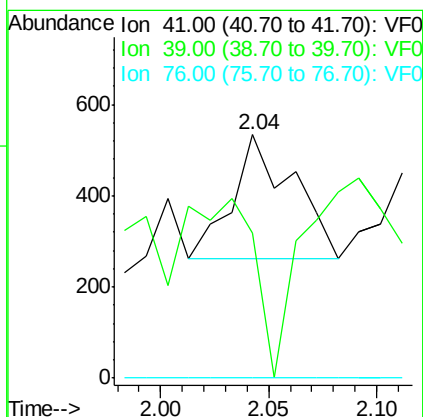
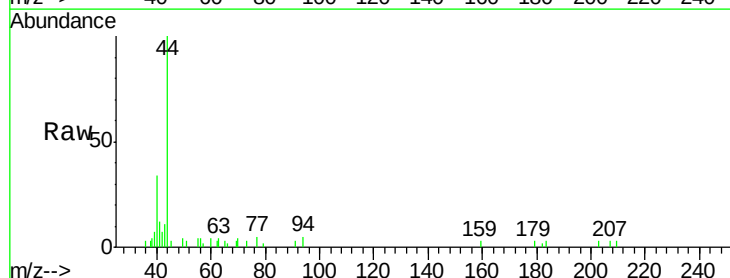
RT: 2.04 min Scan# 143

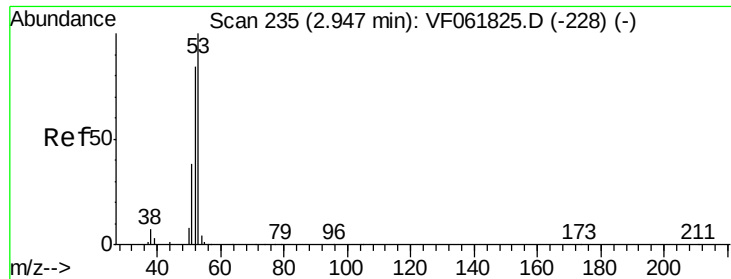
Delta R.T. -0.05 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Tgt Ion:	41	Resp:	534
Ion	Ratio	Lower	Upper
41	100		
39	59.6	61.6	92.4#
76	0.0	30.3	45.5#





#15

Acrylonitrile

Concen: 0.249 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

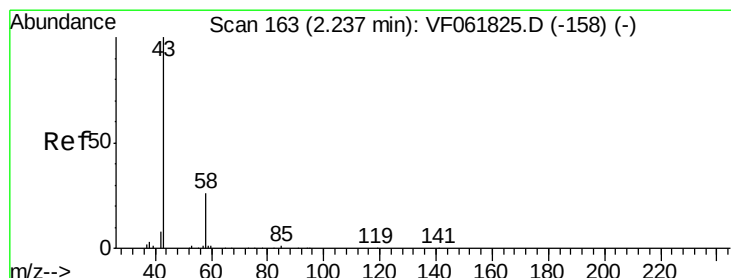
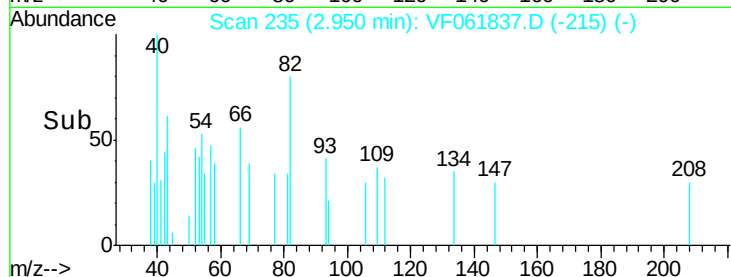
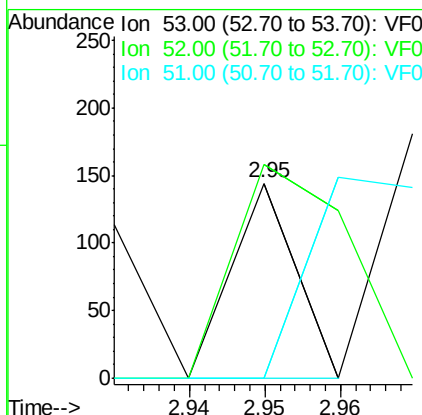
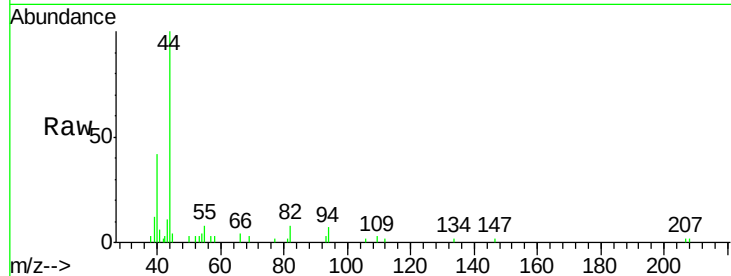
ClientSampled :

Z-4-2-AB

Tot Ion:	53	Resp:	85
Ion	Ratio	Lower	Upper
53	100		
52	109.7	64.6	97.0#
51	0.0	29.8	44.8#

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#16

Acetone

Concen: 64.545 ug/l

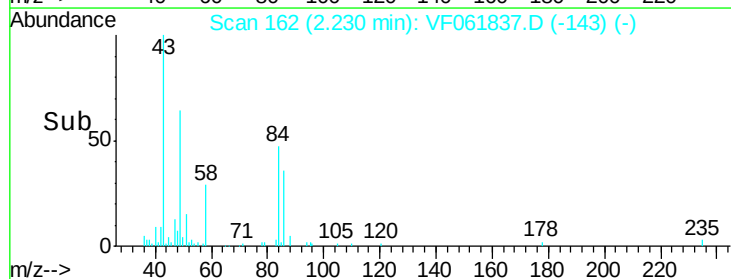
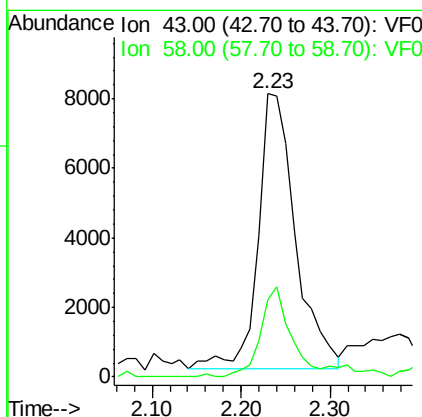
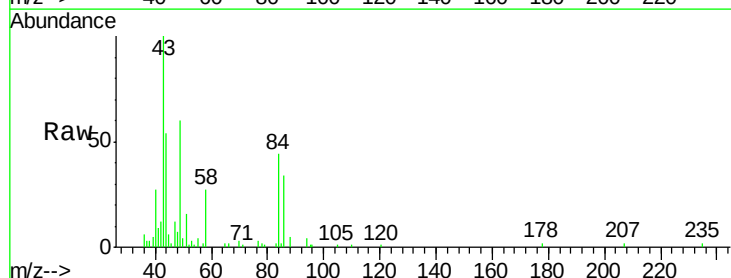
RT: 2.23 min Scan# 162

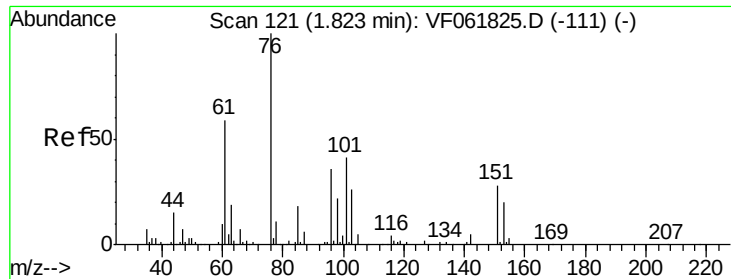
Delta R.T. -0.02 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Tgt Ion:	43	Resp:	23027
Ion	Ratio	Lower	Upper
43	100		
58	27.4	22.9	34.3





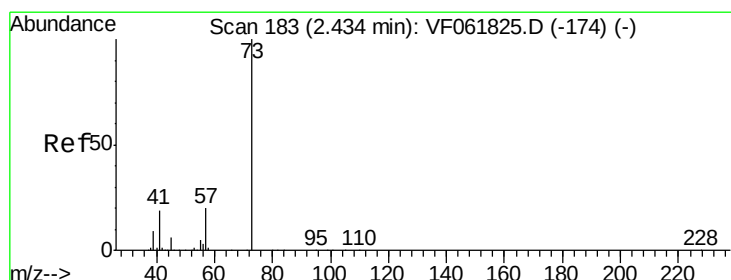
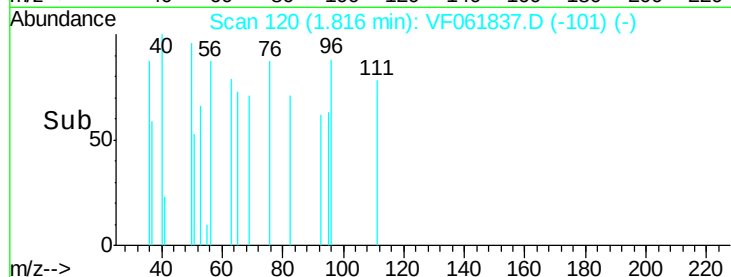
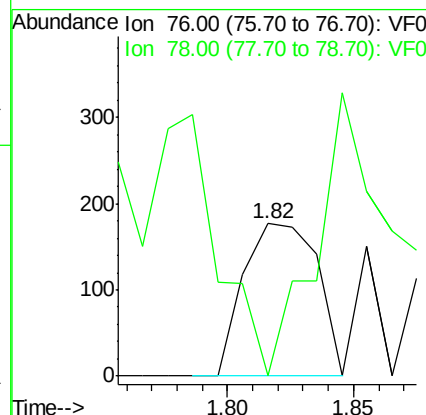
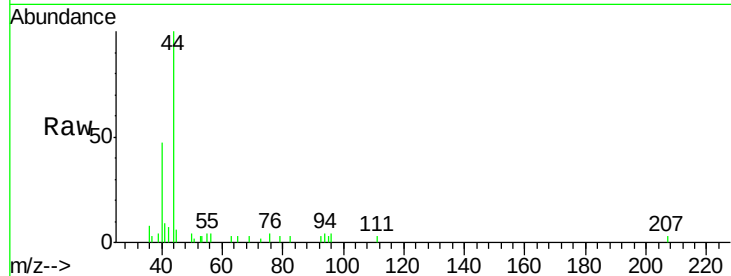
#17
Carbon Disulfide
Concen: 0.059 ug/l
RT: 1.82 min Scan# 120
Delta R.T. -0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampled :
Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.9	11.9#

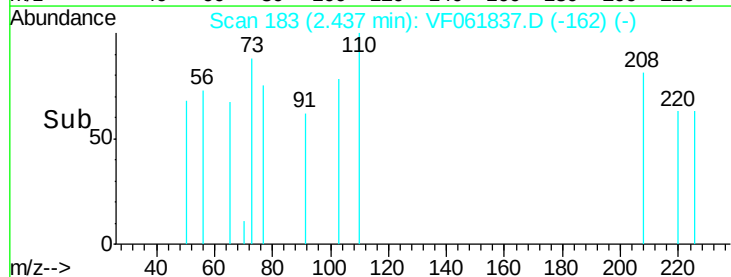
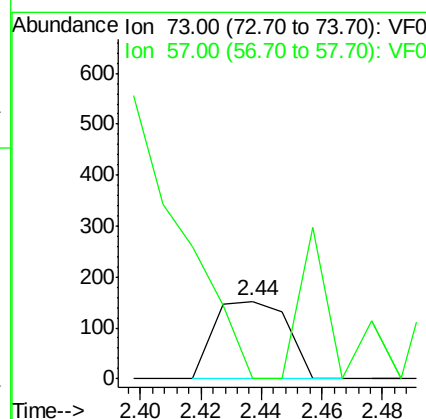
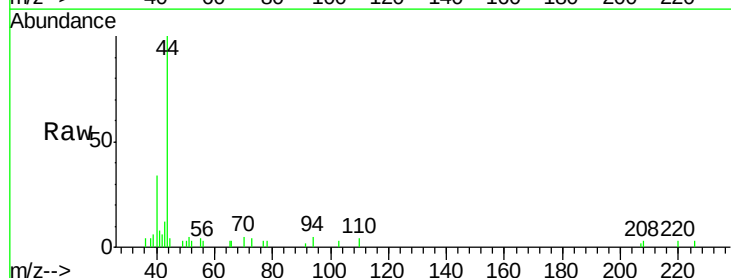
Manual Integrations
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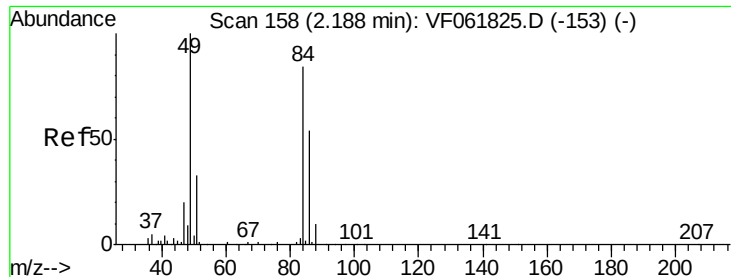
MMDadoda
3/5/2019 10:48:31 AM



#19
Methyl tert-butyl Ether
Concen: 0.076 ug/l
RT: 2.44 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
73	100		
57	0.0	15.8	23.8#





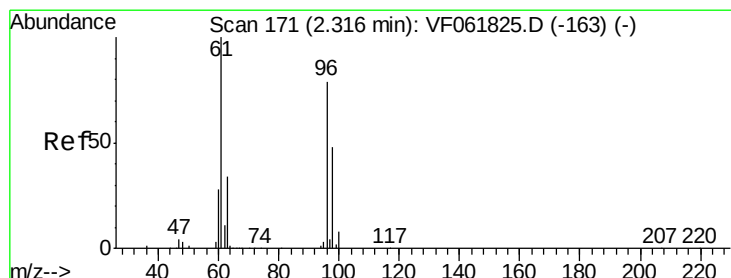
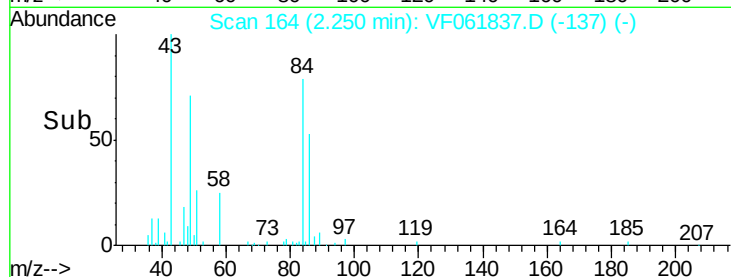
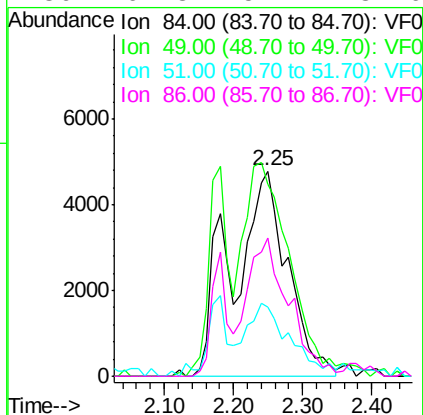
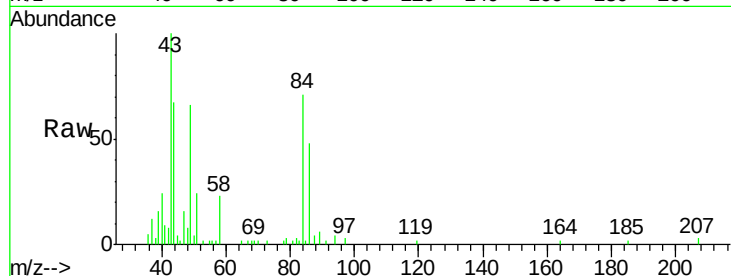
#20
Methylene Chloride
Concen: 12.311 ug/l m
RT: 2.25 min Scan# 164
Delta R.T. 0.06 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
84	100		
49	93.3	101.8	152.8#
51	33.5	31.1	46.7
86	67.3	54.4	81.6

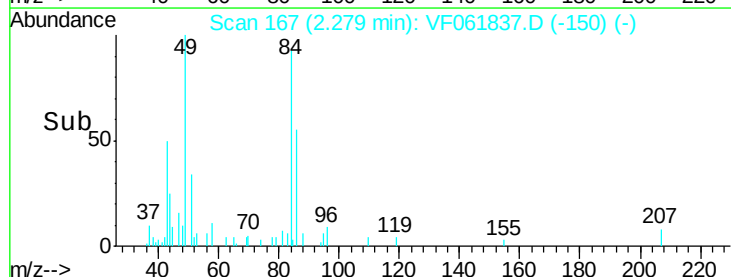
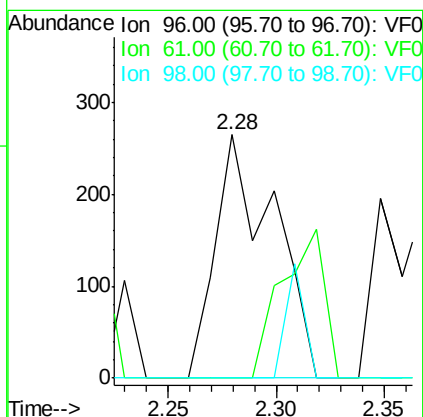
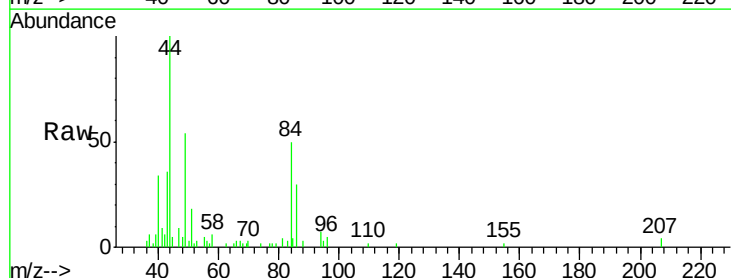
Manual Integrations
APPROVED

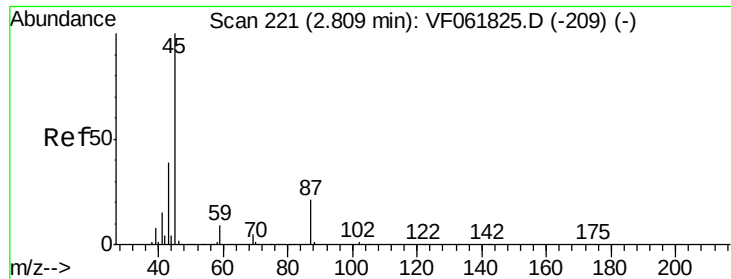
MMDadoda
3/5/2019 10:48:31 AM



#21
trans-1,2-Dichloroethene
Concen: 0.237 ug/l
RT: 2.28 min Scan# 167
Delta R.T. -0.04 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	0.0	108.2	162.4#
98	0.0	52.2	78.2#





#22

Diisopropyl ether

Concen: 0.138 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

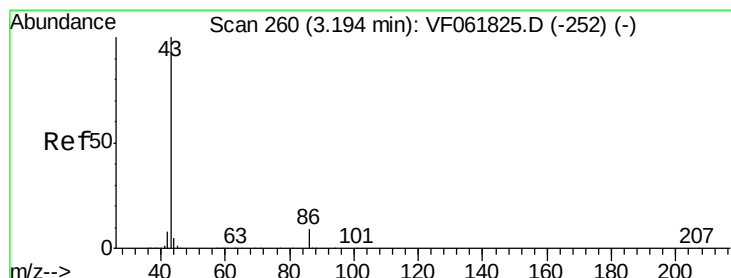
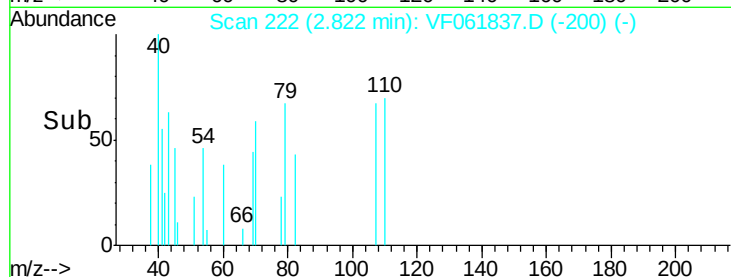
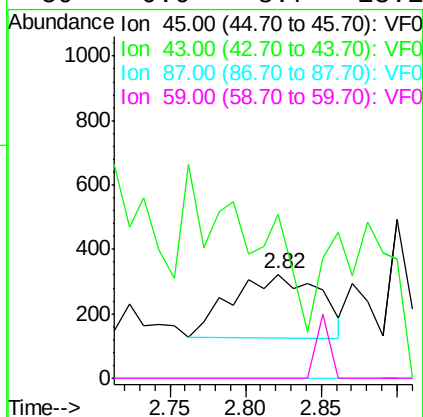
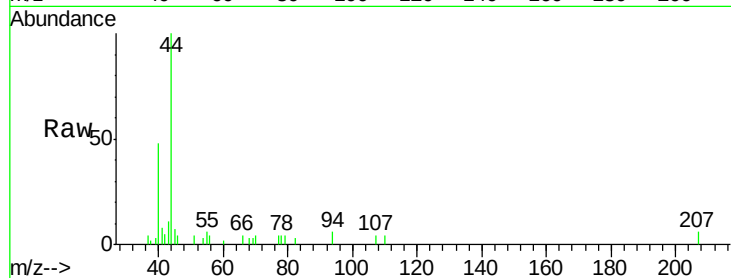
ClientSampleId :

Z-4-2-AB

Tot Ion:	45	Resp:	789
Ion	Ratio	Lower	Upper
45	100		
43	157.0	31.4	47.2#
87	0.0	16.3	24.5#
59	0.0	8.7	13.1#

Manual Integrations
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#23

Vinyl Acetate

Concen: 0.196 ug/l

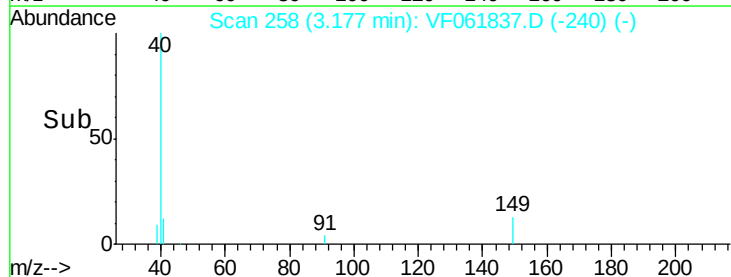
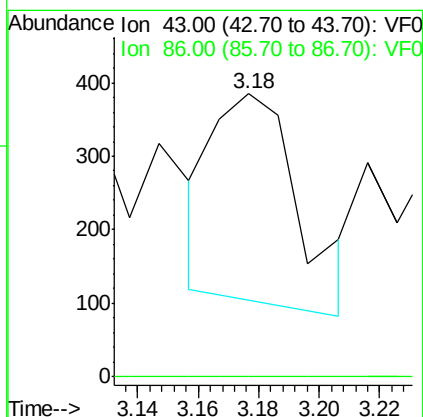
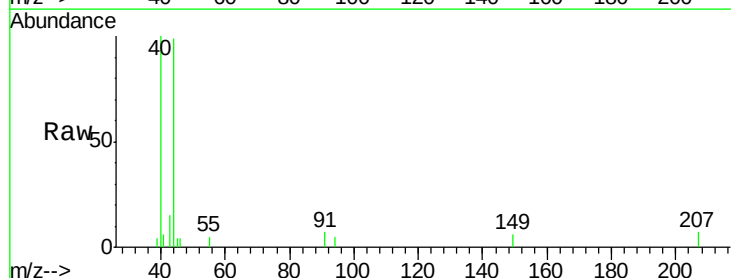
RT: 3.18 min Scan# 258

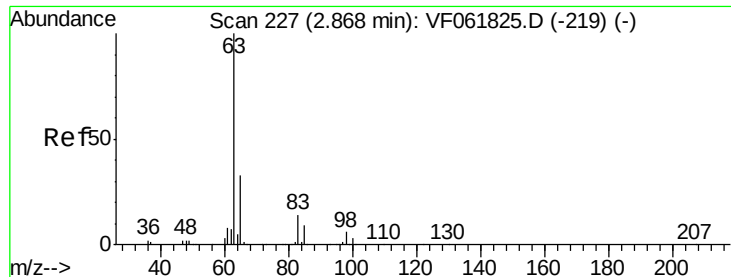
Delta R.T. -0.03 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Tgt Ion:	43	Resp:	549
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.5	11.3#





#24

1,1-Dichloroethane

Concen: 0.129 ug/l

RT: 2.83 min Scan# 223

Delta R.T. -0.04 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

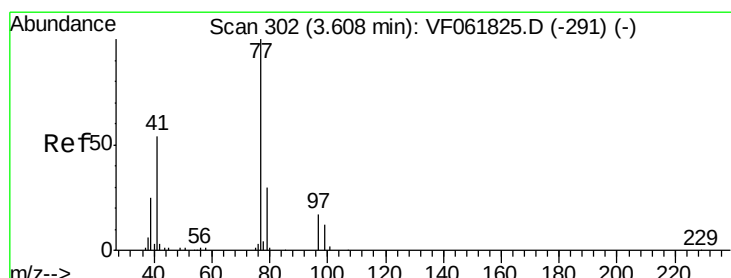
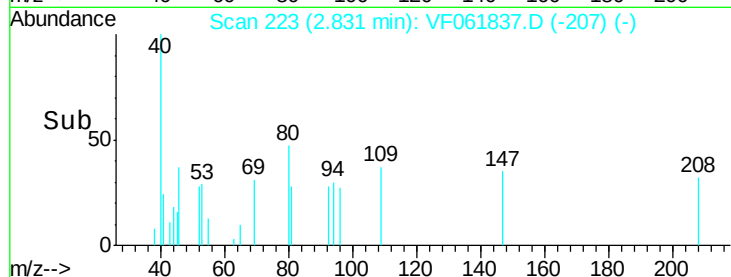
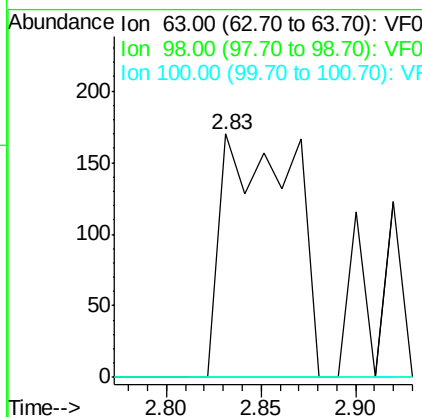
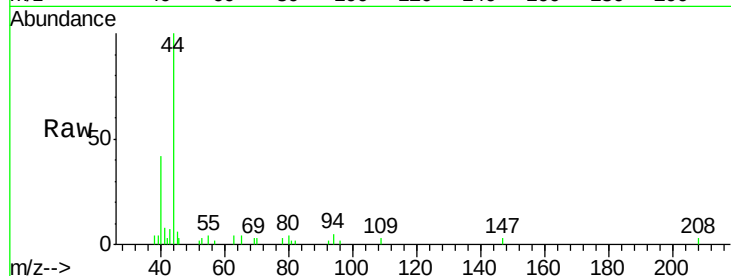
ClientSampleId :

Z-4-2-AB

Tot Ion:	63	Resp:	446
Ion Ratio	Lower	Upper	
63	100		
98	0.0	2.8	8.3#
100	0.0	1.8	5.4#

Manual Integrations
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3/5/2019 10:48:31 AM



#26

2,2-Dichloropropane

Concen: 0.042 ug/l

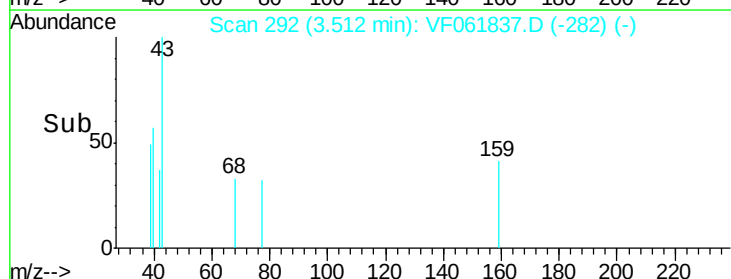
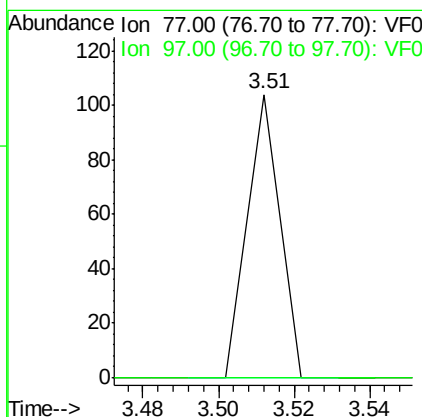
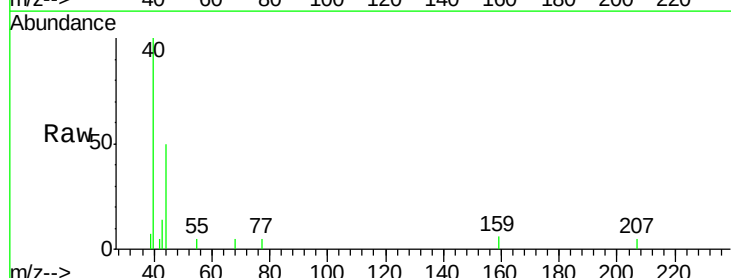
RT: 3.51 min Scan# 292

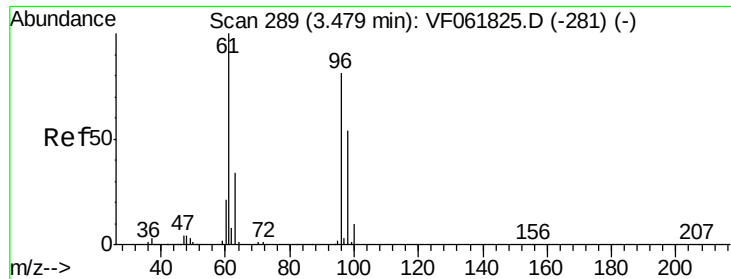
Delta R.T. -0.10 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Tgt Ion:	77	Resp:	62
Ion Ratio	Lower	Upper	
77	100		
97	0.0	11.7	35.0#





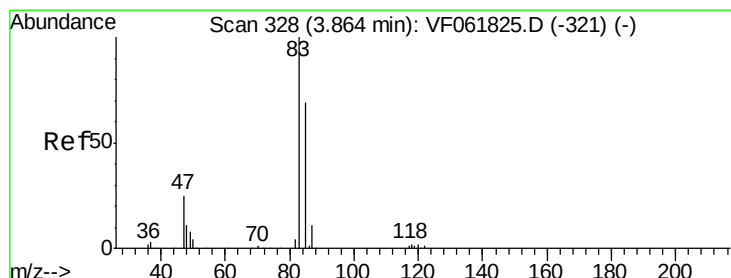
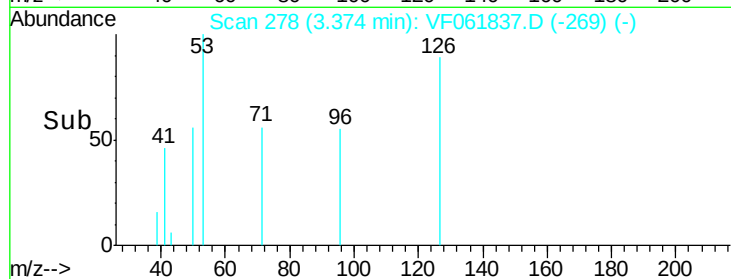
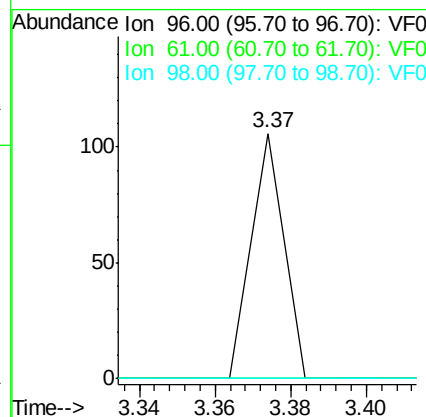
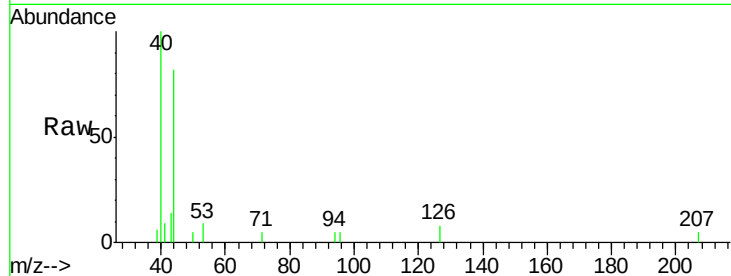
#27
 cis-1,2-Dichloroethene
 Concen: 0.023 ug/l
 RT: 3.37 min Scan# 278
 Delta R.T. -0.11 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-2-AB

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

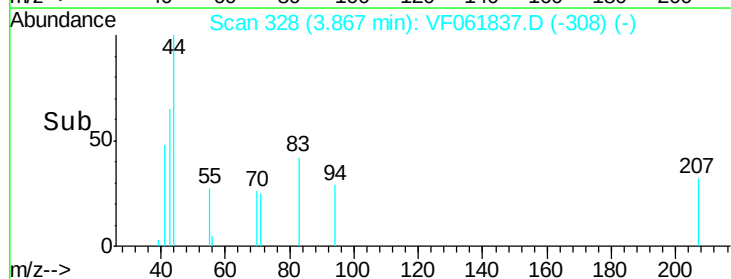
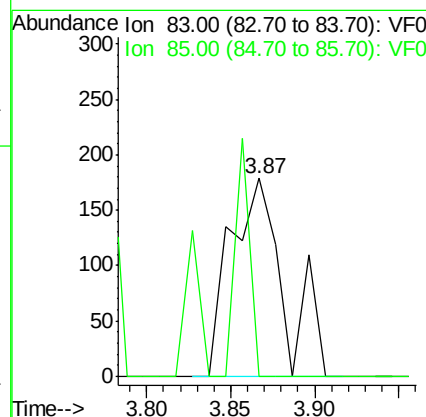
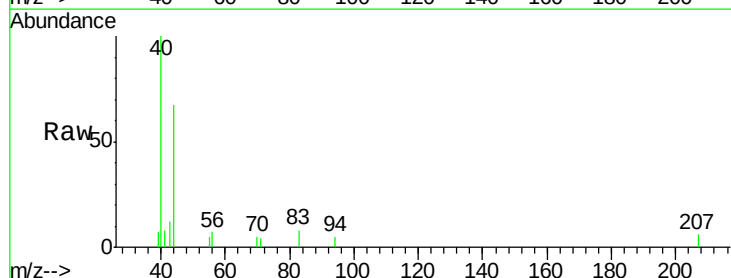
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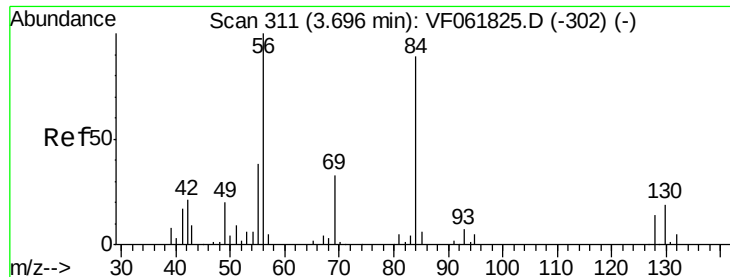
MMDadoda
 3/5/2019 10:48:31 AM



#30
 Chloroform
 Concen: 0.100 ug/l
 RT: 3.87 min Scan# 328
 Delta R.T. -0.01 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
83	100		
85	0.0	51.1	76.7#





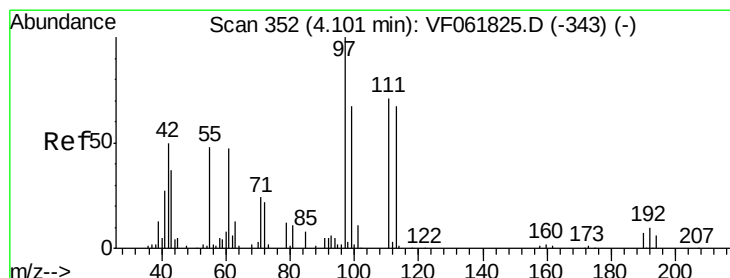
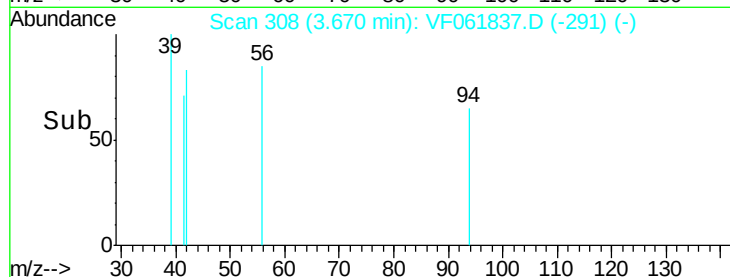
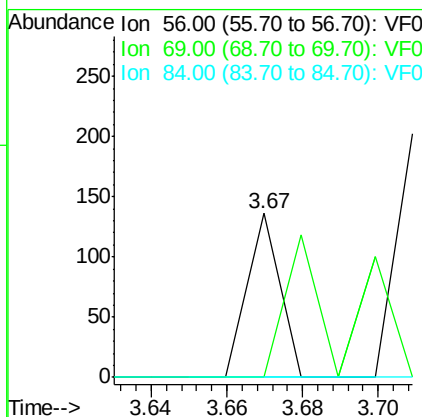
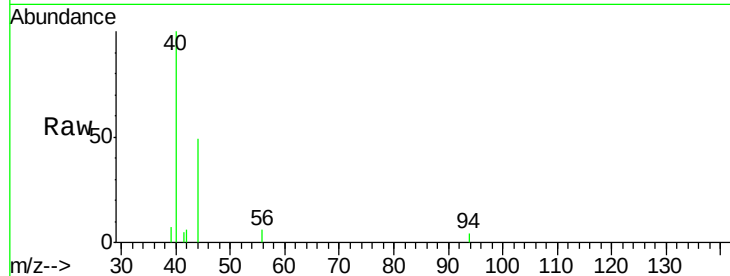
#31
Cyclohexane
Concen: 0.021 ug/l
RT: 3.67 min Scan# 308
Delta R.T. -0.04 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampled :
Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
56	100		
69	0.0	23.8	35.8#
84	0.0	68.6	103.0#

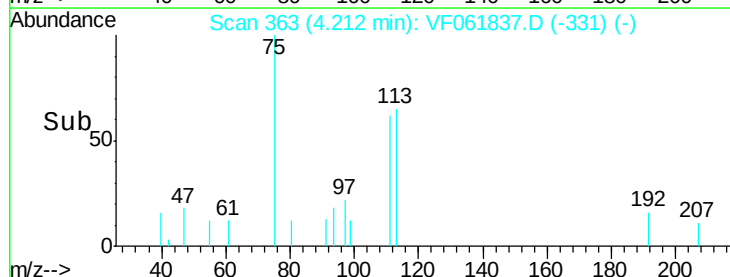
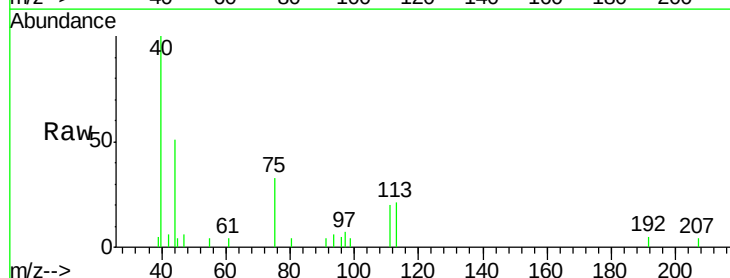
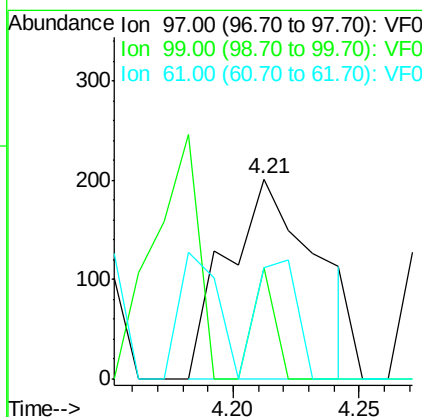
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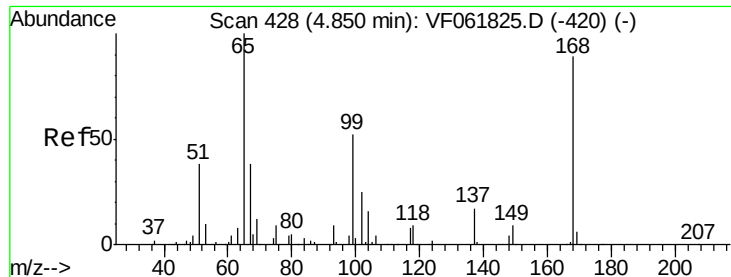
MMDadoda
3/5/2019 10:48:31 AM



#32
1,1,1-Trichloroethane
Concen: 0.191 ug/l
RT: 4.21 min Scan# 363
Delta R.T. 0.11 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
97	100		
99	55.7	52.2	78.2
61	55.7	39.2	58.8





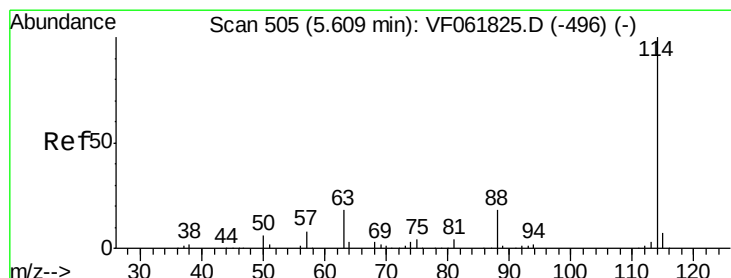
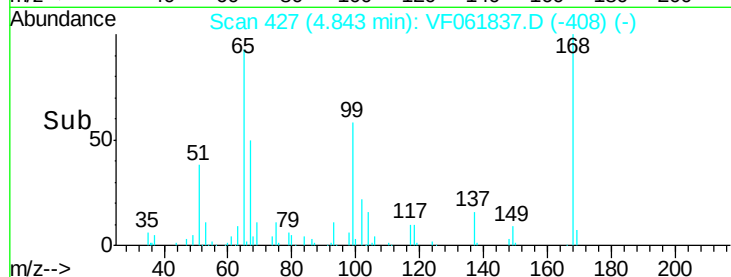
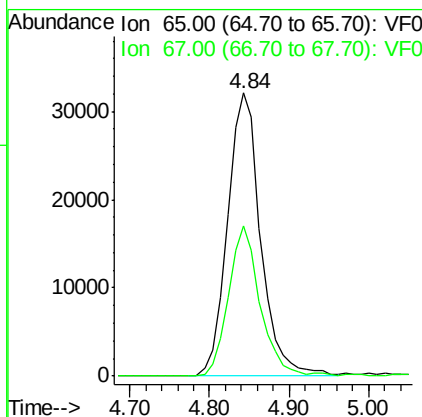
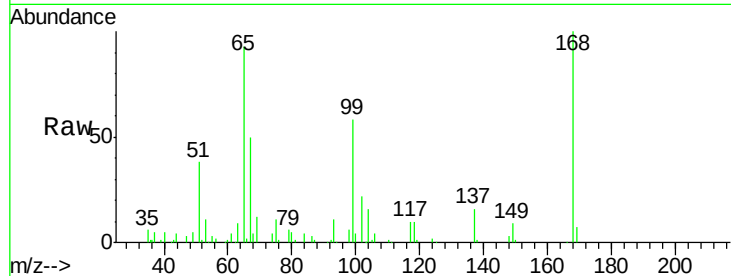
#33
 1,2-Dichloroethane-d4
 Concen: 56.104 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.02 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-2-AB

Tot Ion	Ratio	Resp	Lower	Upper
65	100	93289		
67	53.1	0.0	104.0	

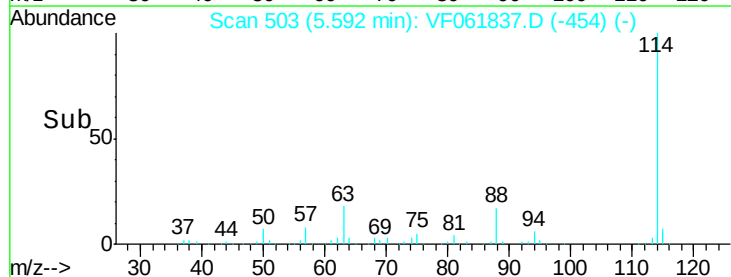
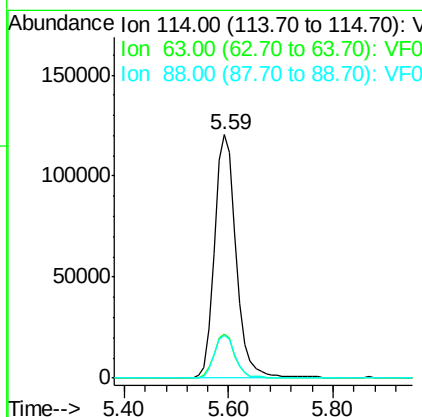
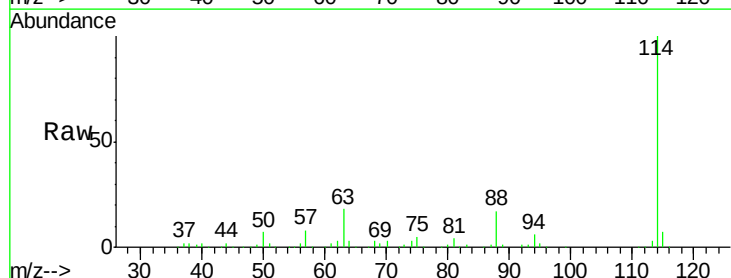
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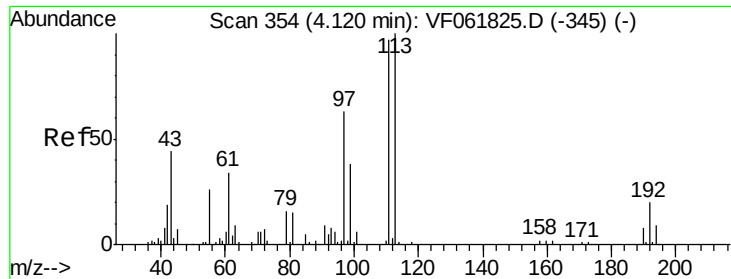
MMDadoda
 3/5/2019 10:48:31 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.02 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	347393		
63	18.2	0.0	36.6	
88	17.5	0.0	34.4	





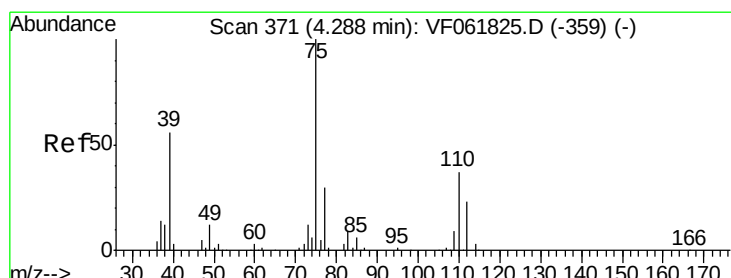
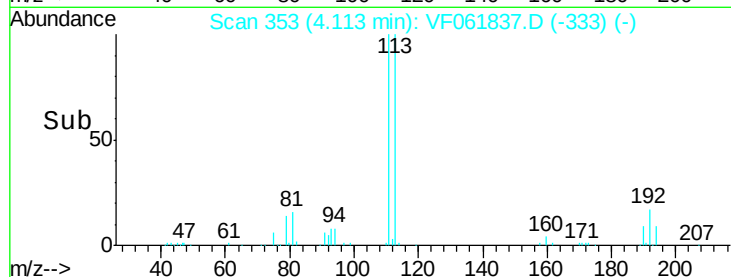
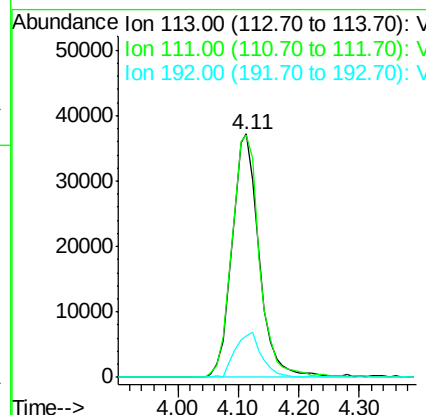
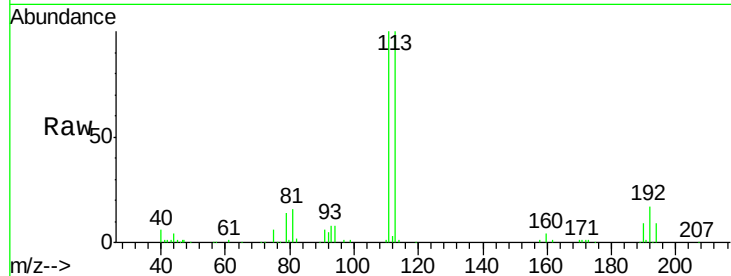
#35
 Dibromofluoromethane
 Concen: 44.654 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.01 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-2-AB

Tot Ion	Ion	Ratio	Resp	Lower	Upper
113	100		115196		
111	99.6	78.8	118.2		
192	17.2	13.4	20.0		

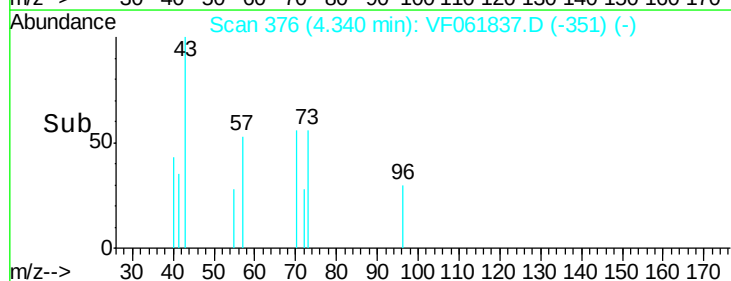
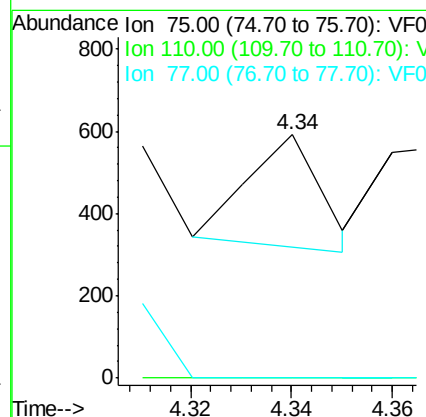
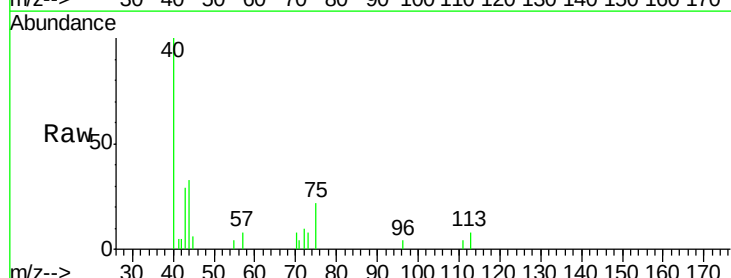
Manual Integrations
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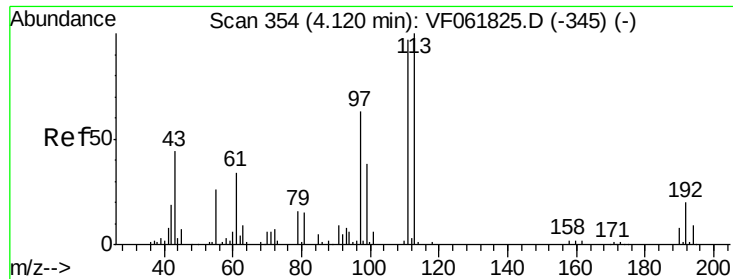
MMDadoda
 3/5/2019 10:48:31 AM



#36
 1,1-Dichloropropene
 Concen: 0.078 ug/l
 RT: 4.34 min Scan# 376
 Delta R.T. 0.04 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
75	100		269		
110	0.0	20.5	61.6#		
77	0.0	27.0	40.4#		





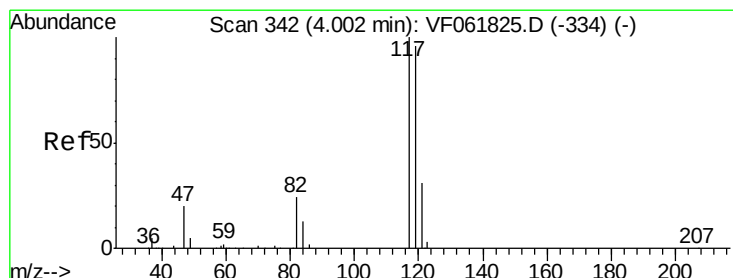
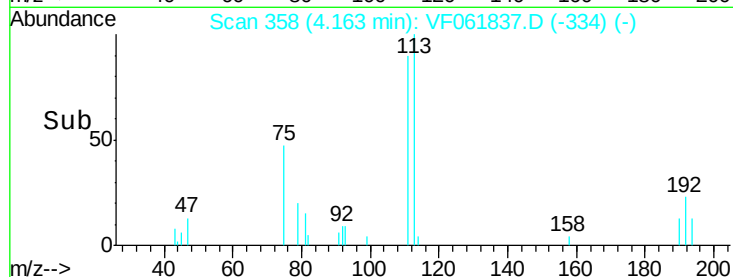
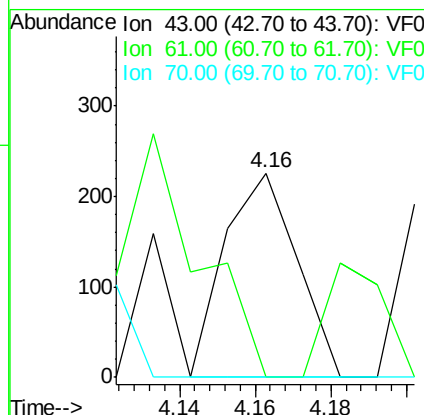
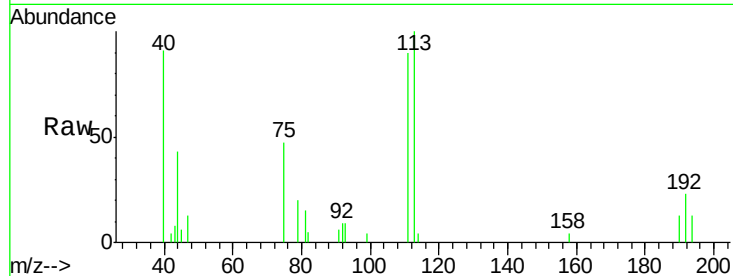
#37
Ethyl Acetate
Concen: 0.187 ug/l
RT: 4.16 min Scan# 358
Delta R.T. 0.03 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion	43	Ratio	Lower	Upper
43	100			
61	0.0	45.7	68.5#	
70	0.0	8.5	12.7#	

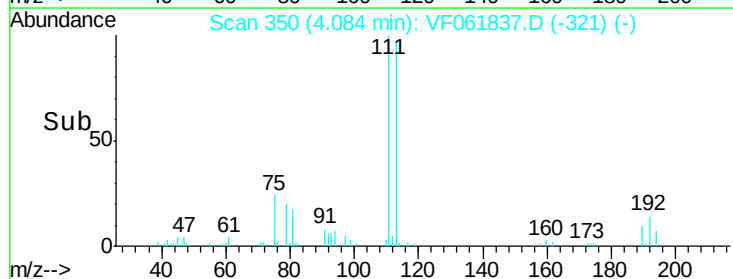
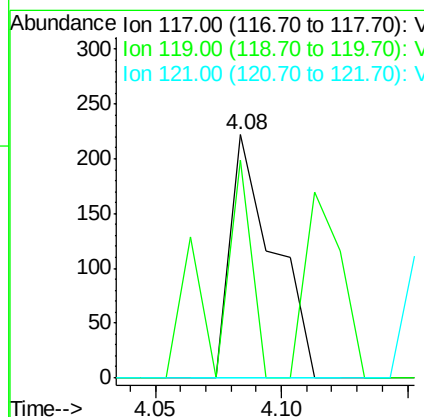
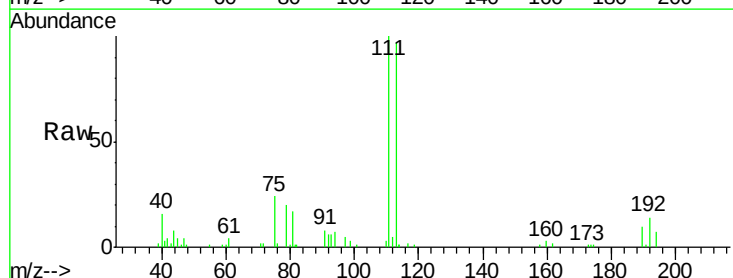
Manual Integrations
APPROVED

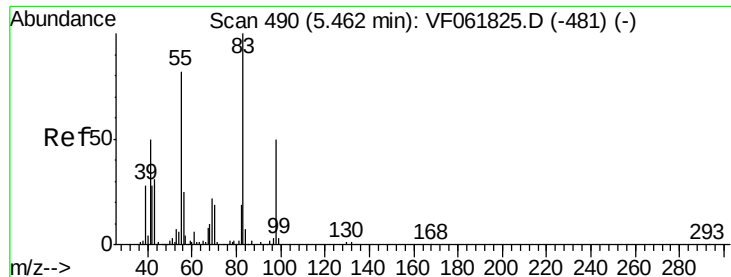
MMDadoda
3/5/2019 10:48:31 AM



#38
Carbon Tetrachloride
Concen: 0.112 ug/l
RT: 4.08 min Scan# 350
Delta R.T. 0.08 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	117	Ratio	Lower	Upper
117	100			
119	89.6	75.6	113.4	
121	0.0	25.2	37.8#	





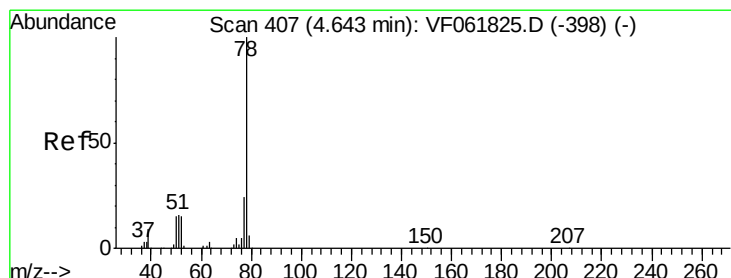
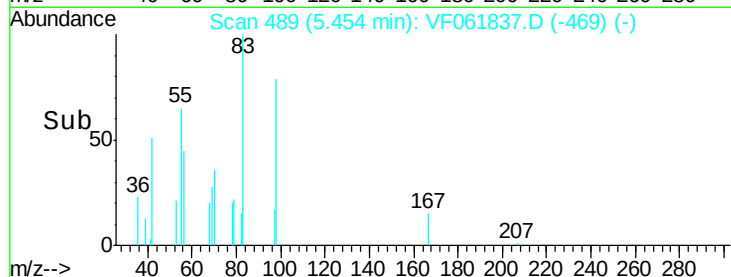
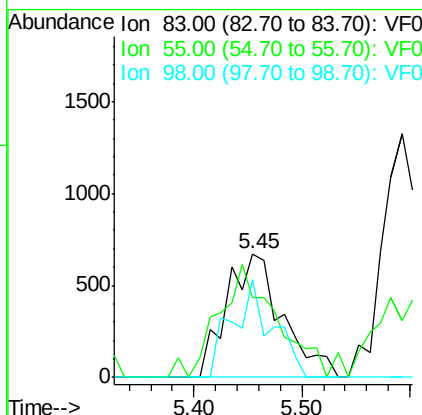
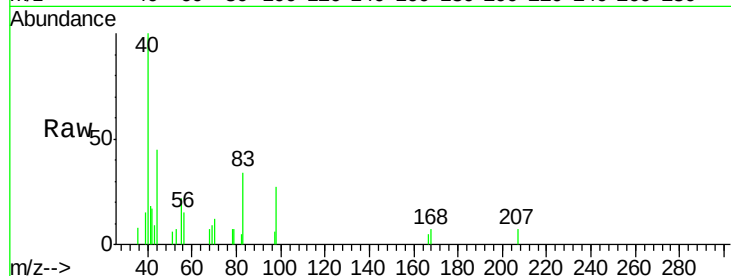
#39
Methylvlcyclohexane
Concen: 0.590 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
83	100		
55	64.7	66.6	99.8#
98	78.9	40.4	60.6#

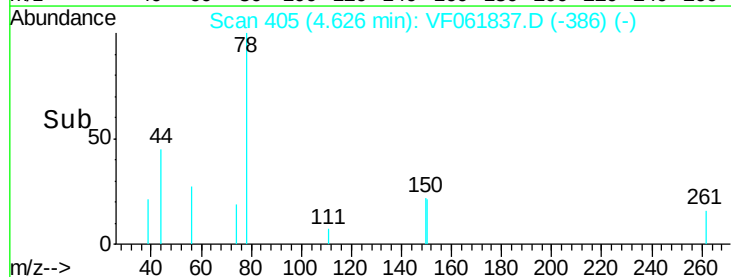
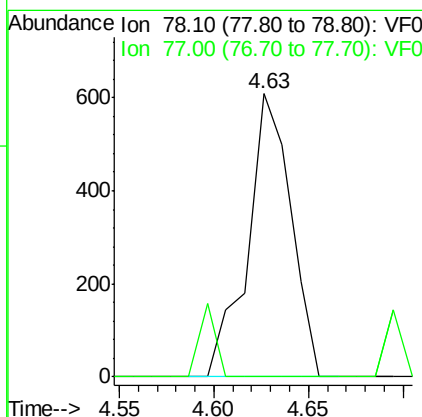
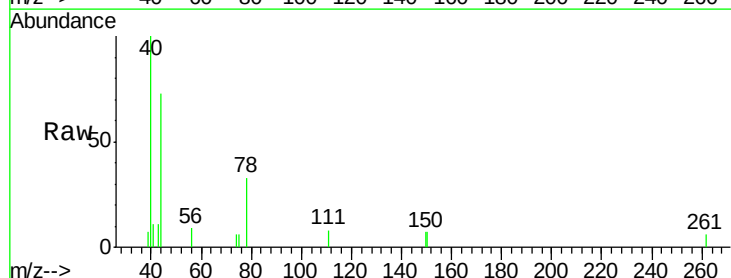
Manual Integrations
APPROVED

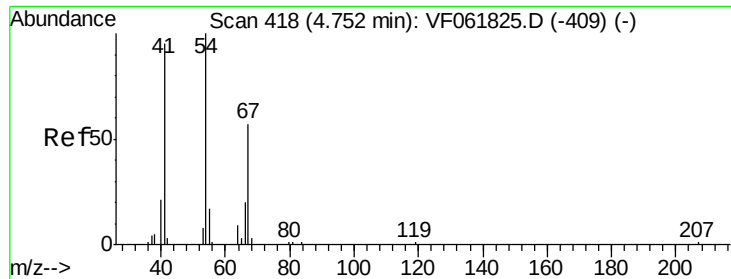
MMDadoda
3/5/2019 10:48:31 AM



#40
Benzene
Concen: 0.108 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
78	100		
77	0.0	19.0	28.6#





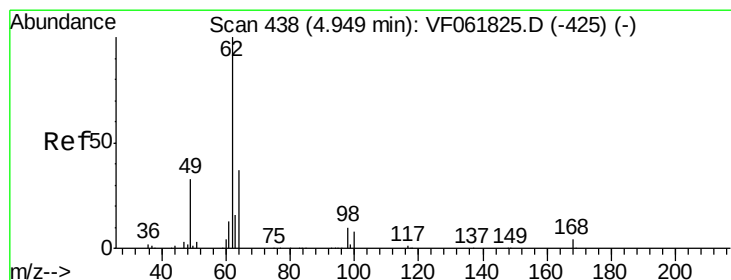
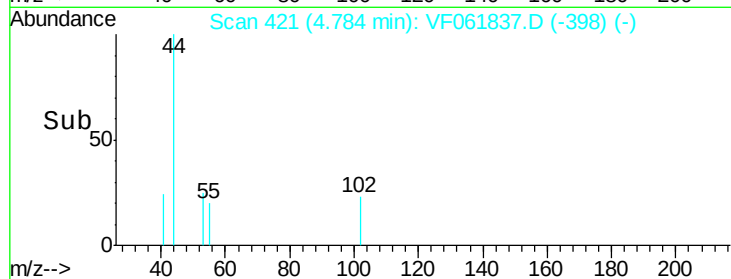
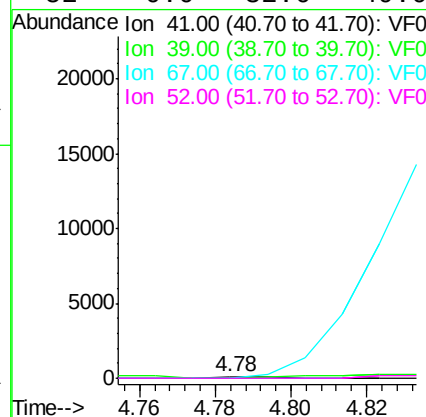
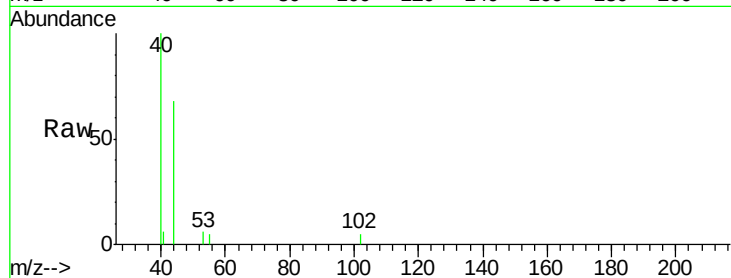
#41
Methacrylonitrile
Concen: 0.169 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	0.0	45.3	67.9#		
67	0.0	49.3	73.9#		
52	0.0	32.6	49.0#		

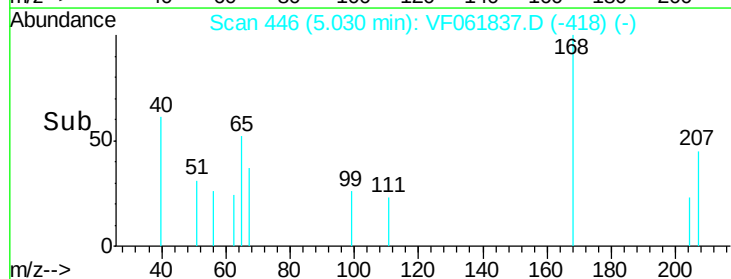
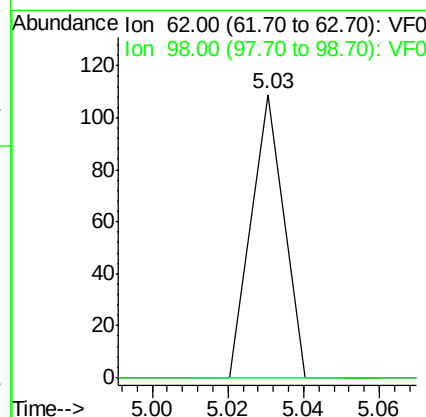
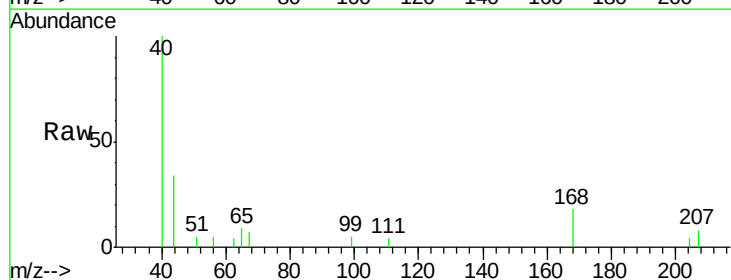
Manual Integrations
APPROVED

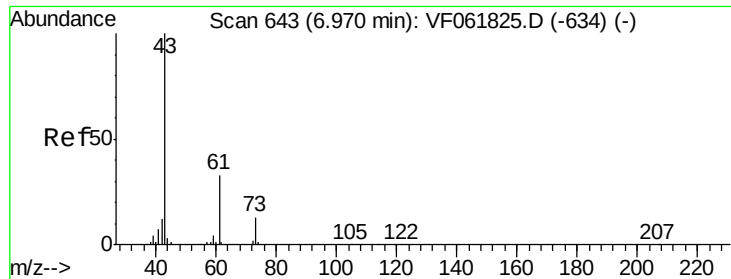
MMDadoda
3/5/2019 10:48:31 AM



#42
1,2-Dichloroethane
Concen: 0.030 ug/l
RT: 5.03 min Scan# 446
Delta R.T. 0.07 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

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





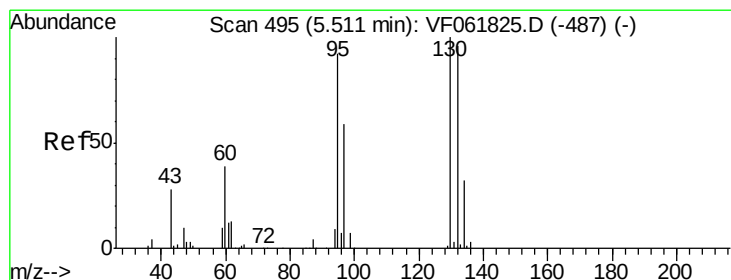
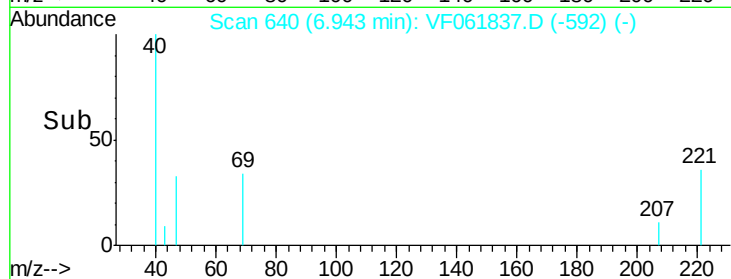
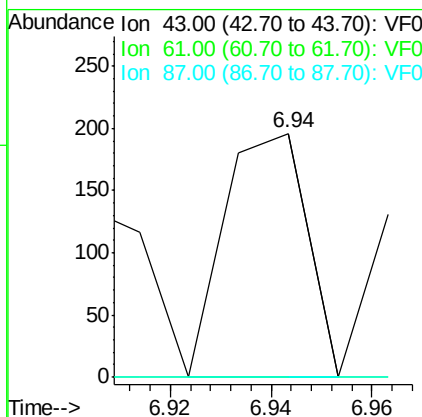
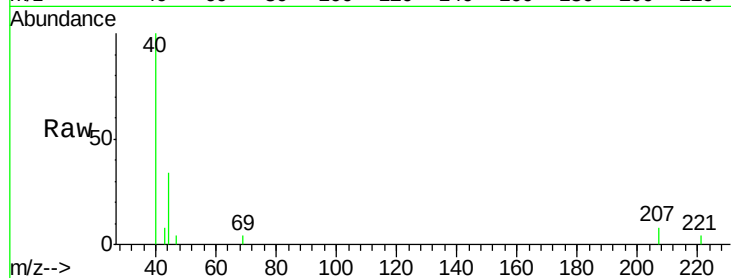
#43
Isopropyl Acetate
Concen: 0.117 ug/l
RT: 6.94 min Scan# 640
Delta R.T. -0.03 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion:	43	Resp:	222
Ion	Ratio	Lower	Upper
43	100		
61	0.0	25.8	38.6#
87	0.0	0.4	0.6#

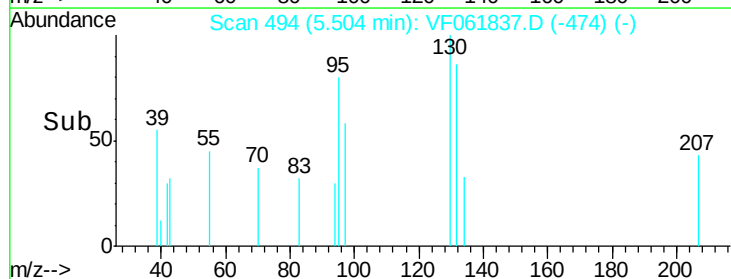
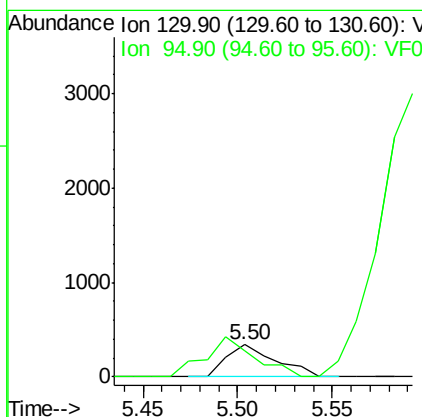
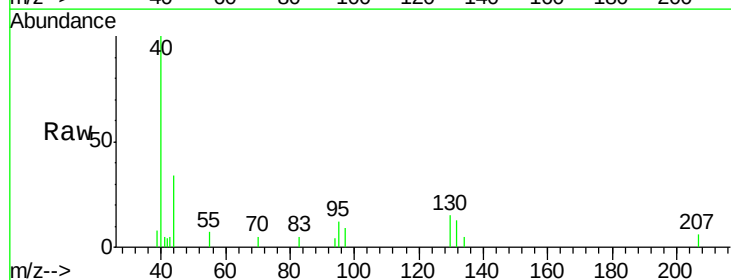
Manual Integrations
APPROVED

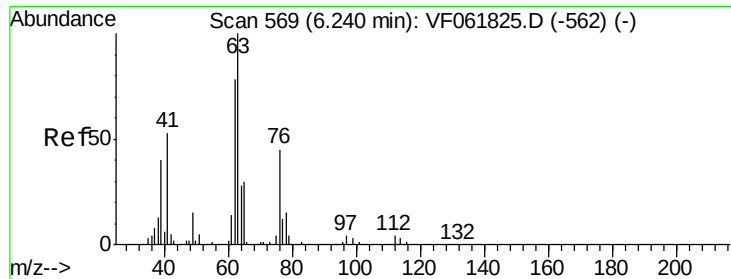
MMDadoda
3/5/2019 10:48:31 AM



#44
Trichloroethene
Concen: 0.206 ug/l
RT: 5.50 min Scan# 494
Delta R.T. -0.01 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion:	130	Resp:	601
Ion	Ratio	Lower	Upper
130	100		
95	80.1	0.0	179.4





#45

1,2-Dichloropropane

Concen: 0.032 ug/l

RT: 6.19 min Scan# 564

Delta R.T. -0.05 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampled :

Z-4-2-AB

Tot Ion: 63 Resp: 69

Ion Ratio Lower Upper

63 100

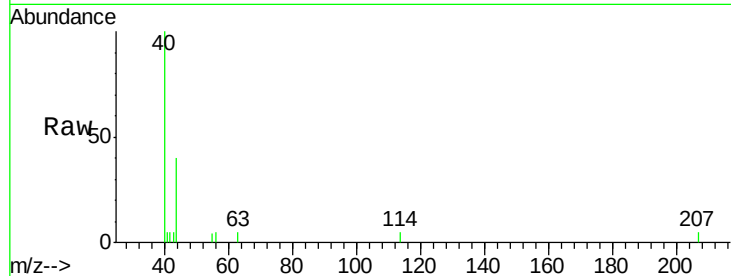
65 0.0 24.9 37.3#

Manual Integrations

APPROVED

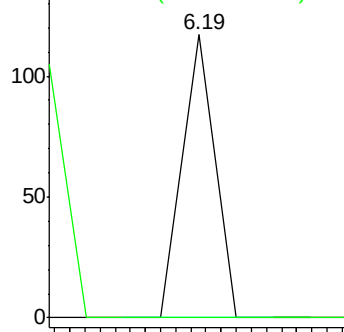
MMDadoda

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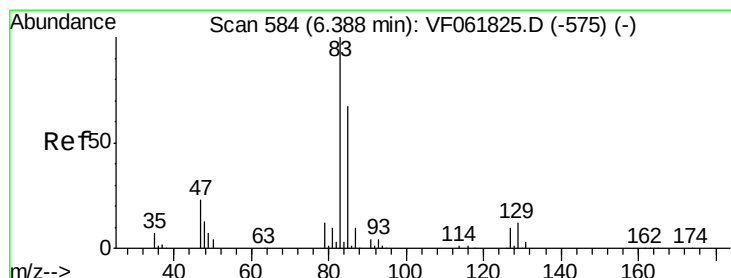
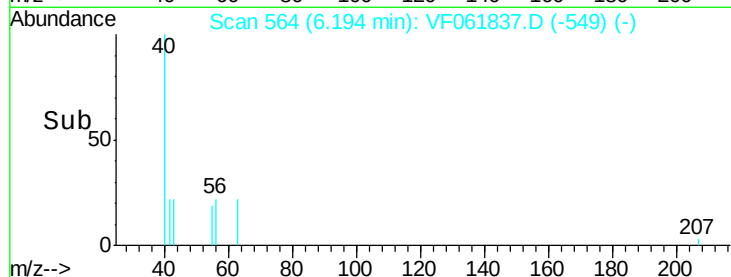


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



Time-->



#47

Bromodichloromethane

Concen: 0.021 ug/l

RT: 6.53 min Scan# 598

Delta R.T. 0.13 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

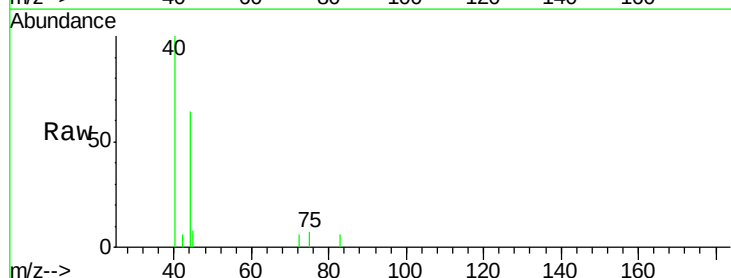
Tgt Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

85 0.0 53.4 80.2#

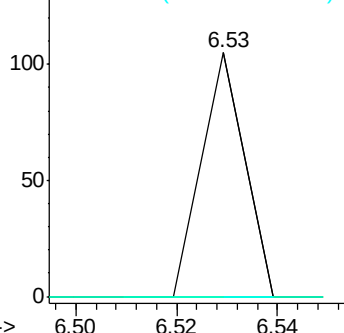
127 0.0 7.5 11.3#



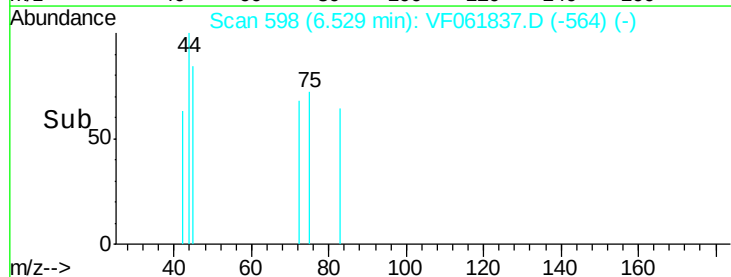
Abundance Ion 83.00 (82.70 to 83.70): VF0

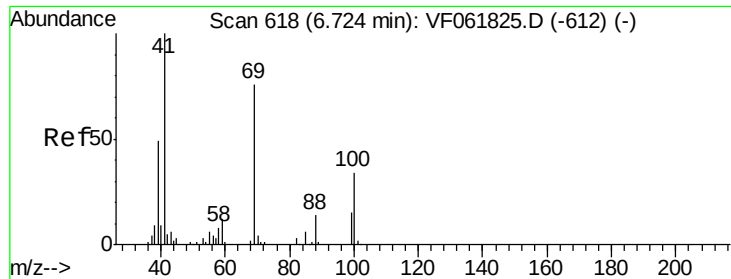
Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



Time-->





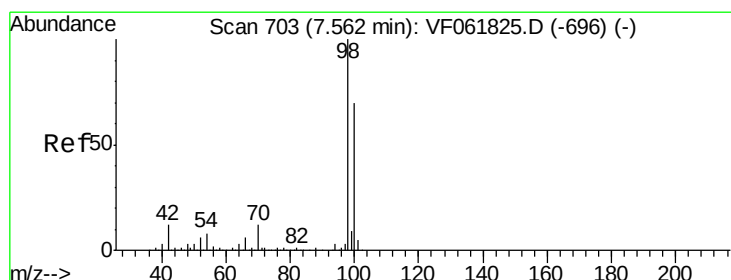
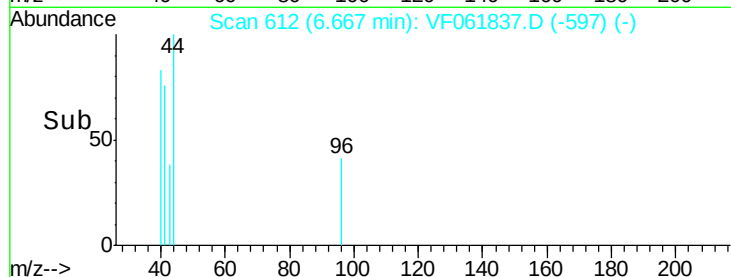
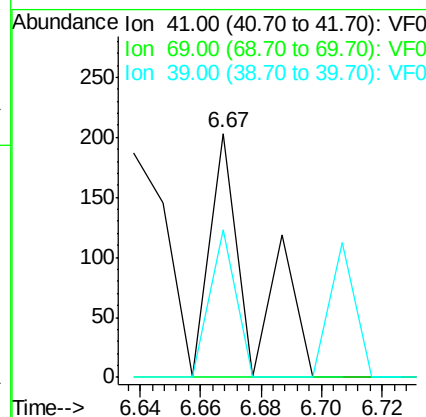
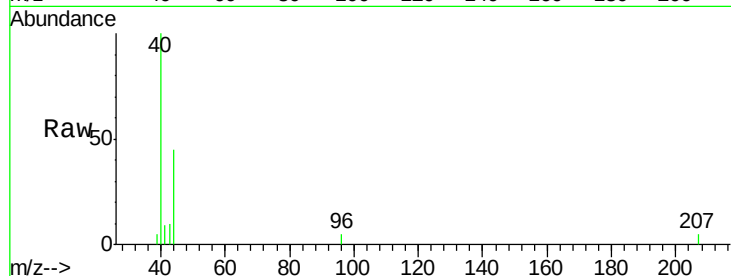
#48
Methyl methacrylate
Concen: 0.167 ug/l
RT: 6.67 min Scan# 612
Delta R.T. -0.05 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampled :
Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	60.4	90.6#
39	60.6	43.7	65.5

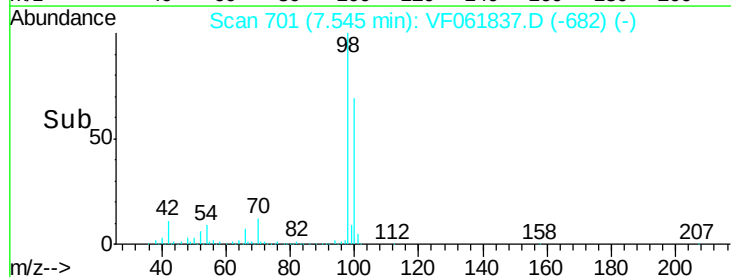
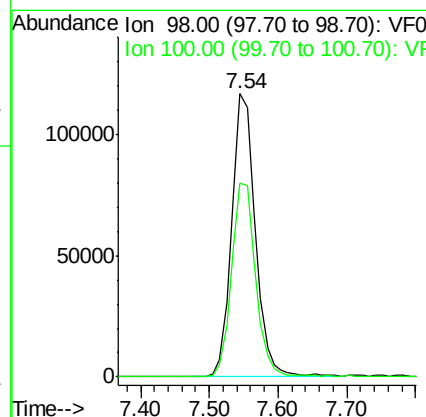
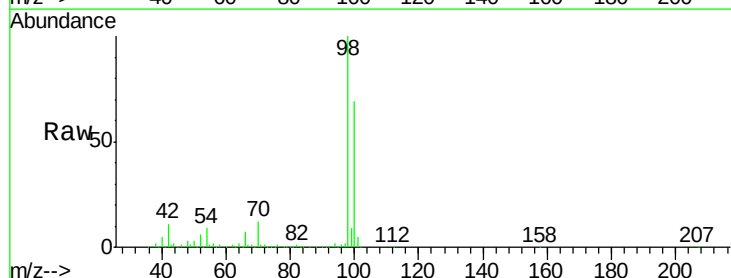
Manual Integrations
APPROVED

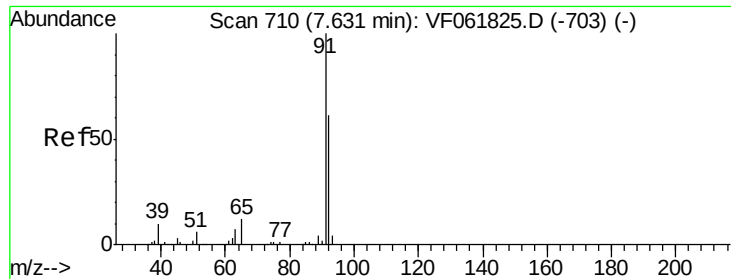
MMDadoda
3/5/2019 10:48:31 AM



#50
Toluene-d8
Concen: 37.636 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
98	100		
100	68.5	55.4	83.2





#52

Toluene

Concen: 0.514 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampleId :

Z-4-2-AB

Tot Ion: 92 Resp: 2804

Ion Ratio Lower Upper

92 100

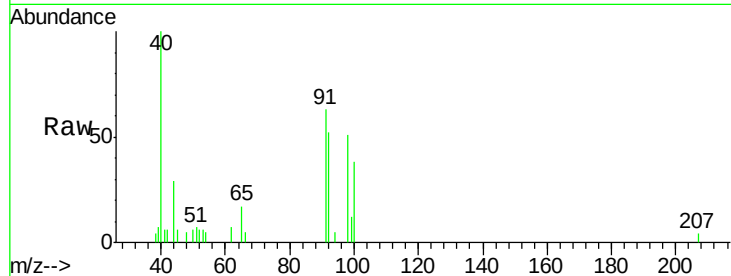
91 121.3 133.9 200.9#

Manual Integrations

APPROVED

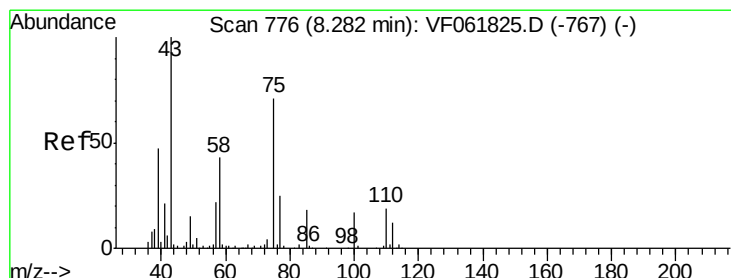
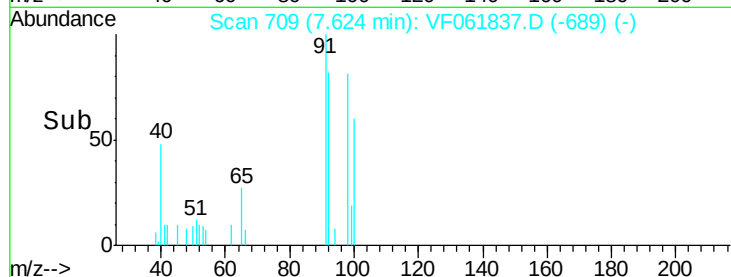
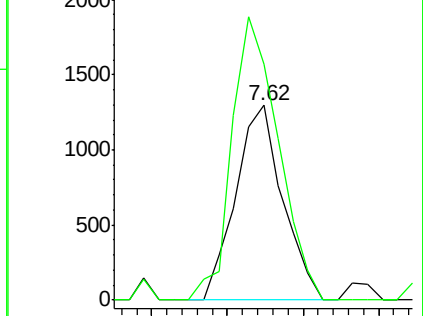
MMDadoda

3/5/2019 10:48:31 AM



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 0.032 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.00 min

Lab File: VF061837.D

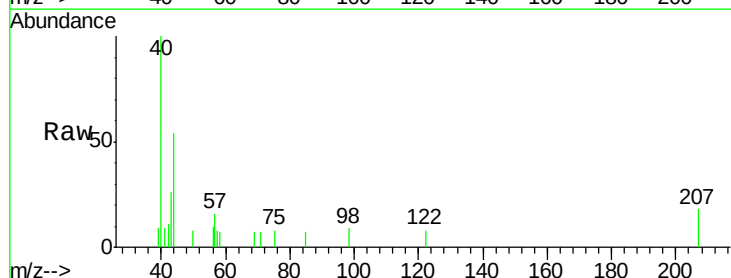
Acq: 5 Mar 2019 00:11

Tgt Ion: 75 Resp: 77

Ion Ratio Lower Upper

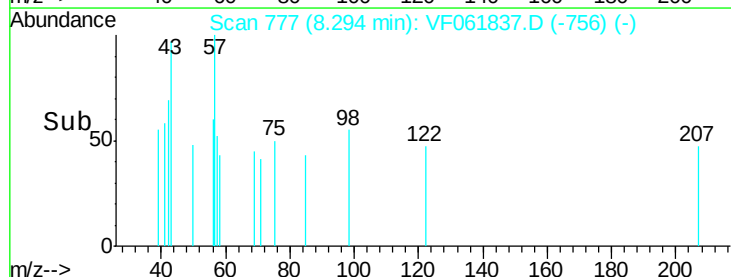
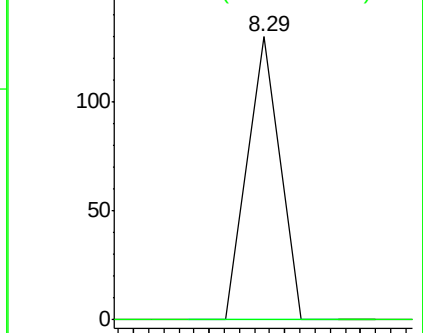
75 100

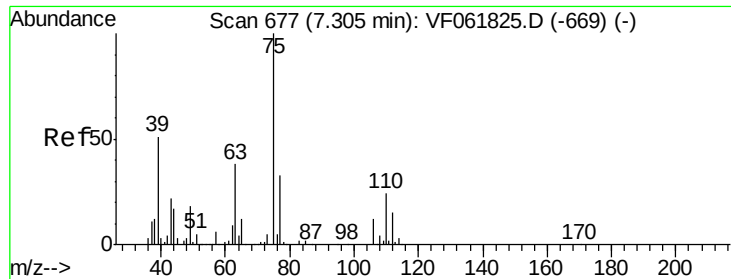
77 0.0 26.2 39.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 0.027 ug/l

RT: 7.33 min Scan# 679

Delta R.T. 0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

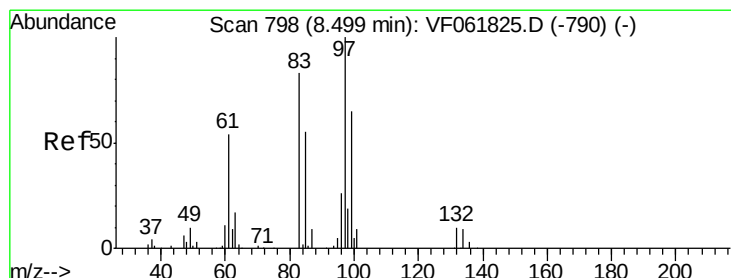
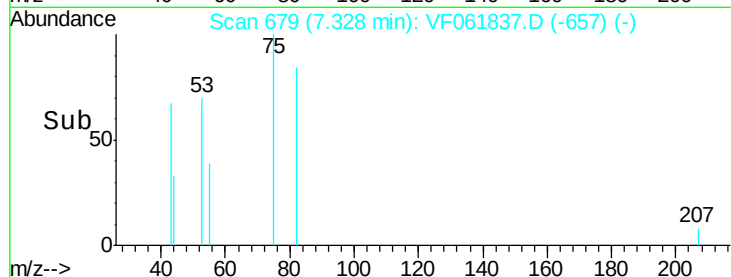
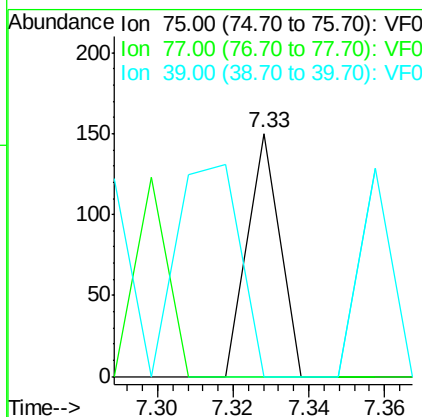
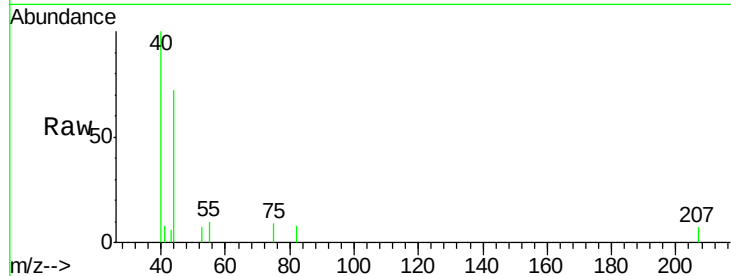
ClientSampleId :

Z-4-2-AB

Tot Ion:	75	Resp:	89
Ion Ratio	Lower	Upper	
75	100		
77	0.0	26.4	39.6#
39	0.0	36.0	54.0#

Manual Integrations
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#55

1,1,2-Trichloroethane

Concen: 0.039 ug/l

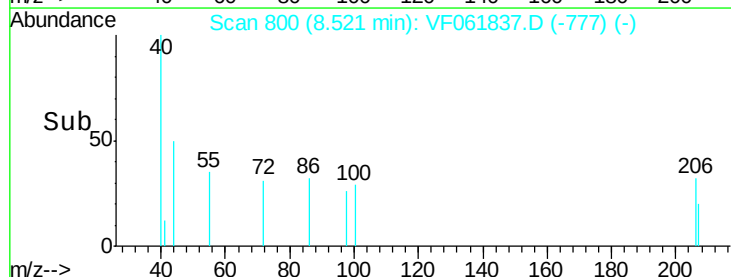
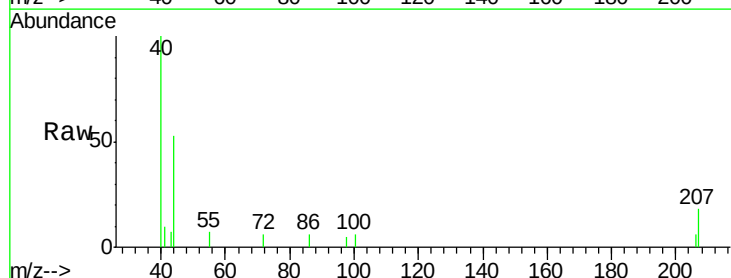
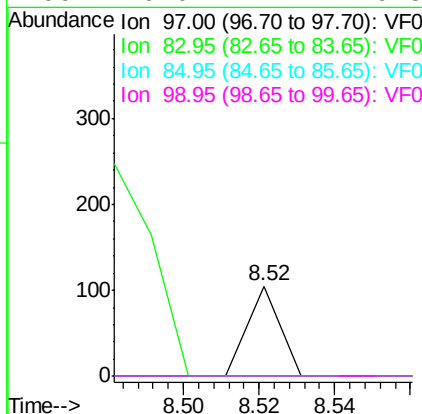
RT: 8.52 min Scan# 800

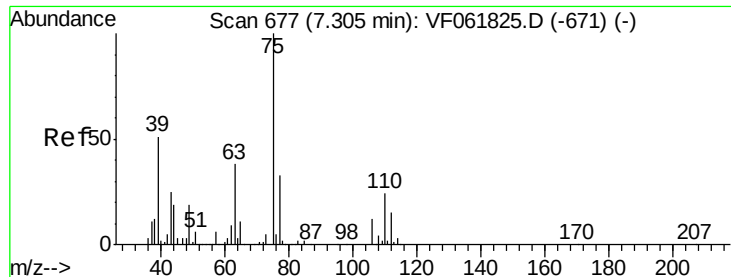
Delta R.T. 0.02 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Tgt Ion:	97	Resp:	62
Ion Ratio	Lower	Upper	
97	100		
83	0.0	69.2	103.8#
85	0.0	43.0	64.4#
99	0.0	47.2	70.8#





#58

2-Chloroethyl Vinyl ether

Concen: 0.581 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampleId :

Z-4-2-AB

Tot Ion: 63 Resp: 179

Ion Ratio Lower Upper

63 100

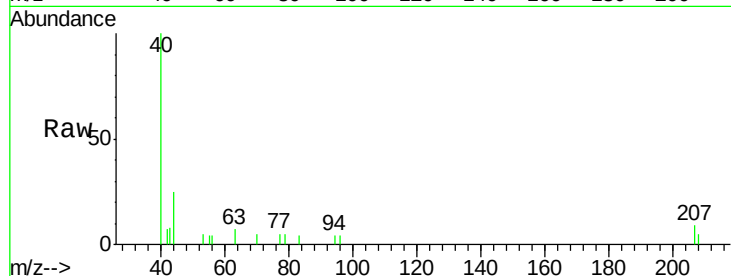
106 0.0 24.6 36.8#

Manual Integrations

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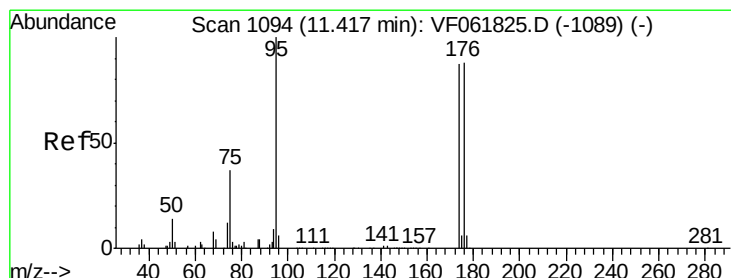
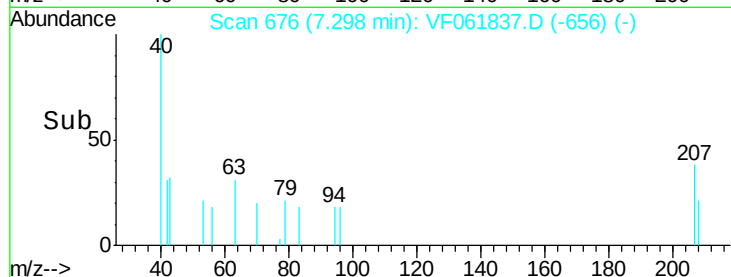
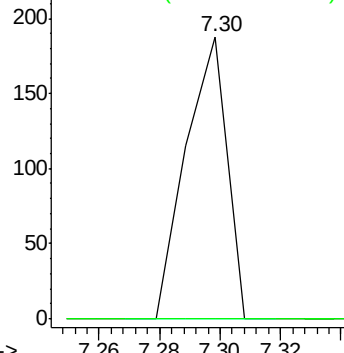
MMDadoda

3/5/2019 10:48:31 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#62

4-Bromofluorobenzene

Concen: 34.325 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

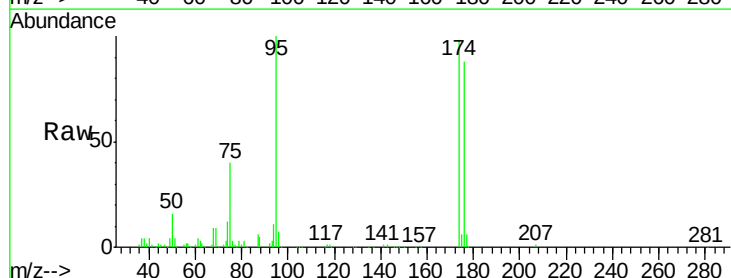
Tgt Ion: 95 Resp: 102998

Ion Ratio Lower Upper

95 100

174 97.5 0.0 165.8

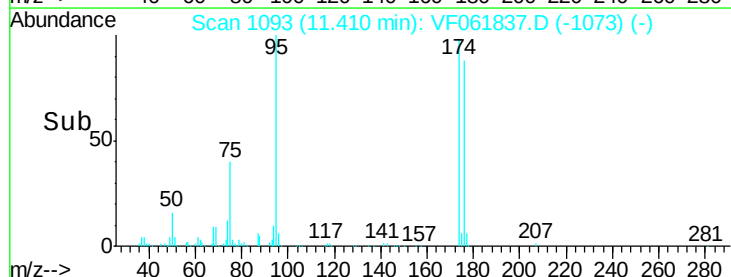
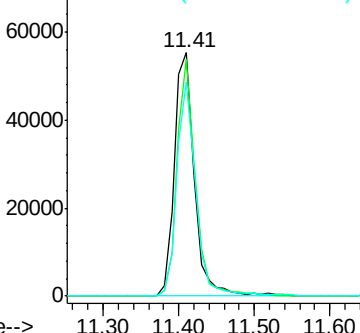
176 87.9 0.0 167.0

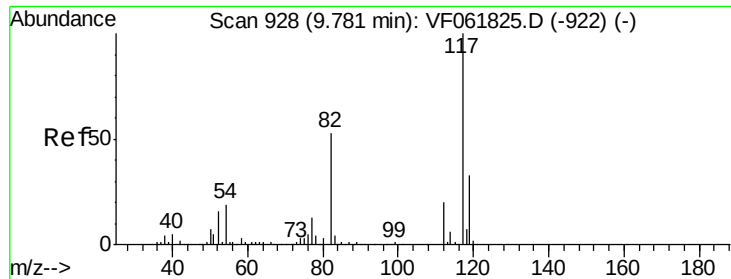


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





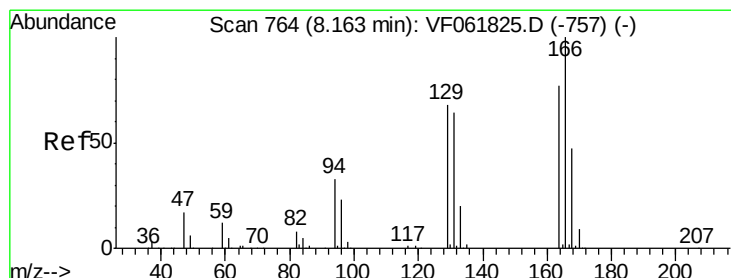
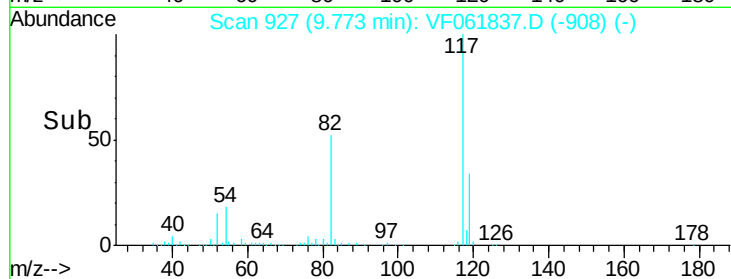
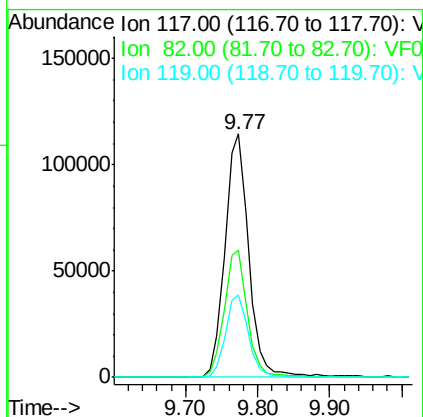
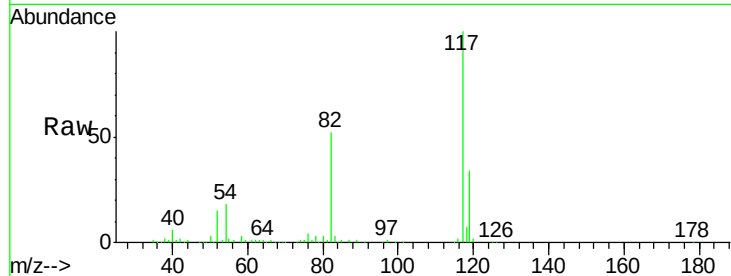
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion	Ratio	Resp	Lower	Upper
117	100	262647		
82	52.0		39.3	58.9
119	33.6		26.6	40.0

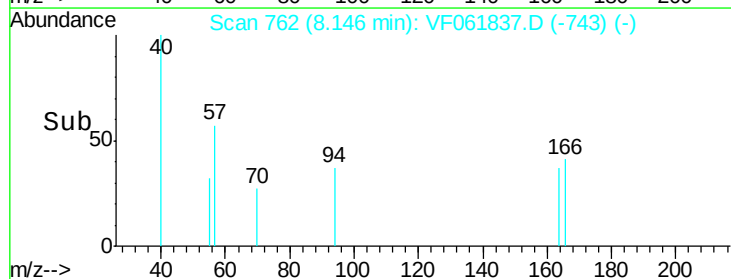
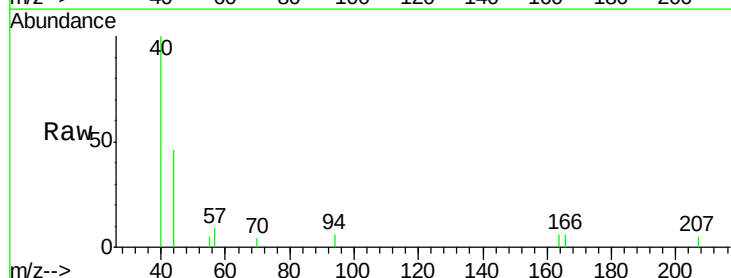
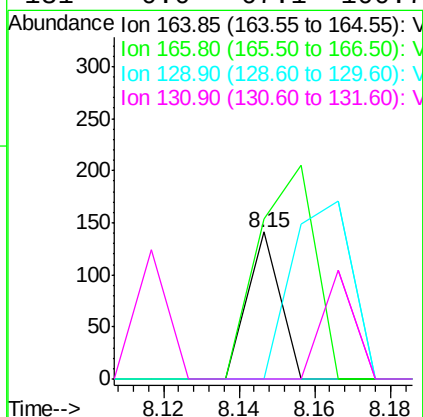
Manual Integrations
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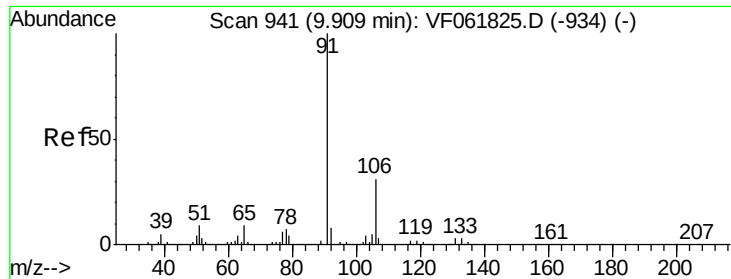
MMDadoda
3/5/2019 10:48:31 AM



#64
Tetrachloroethene
Concen: 0.039 ug/l
RT: 8.15 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	83		
166	109.2		103.9	155.9
129	0.0		71.3	106.9#
131	0.0		67.1	100.7#





#67

Ethyl Benzene

Concen: 0.316 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampleId :

Z-4-2-AB

Tot Ion: 91 Resp: 2802

Ion Ratio Lower Upper

91 100

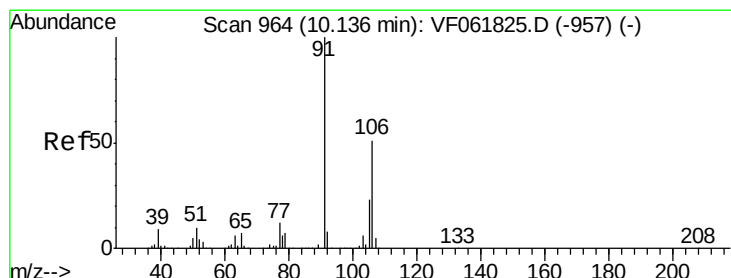
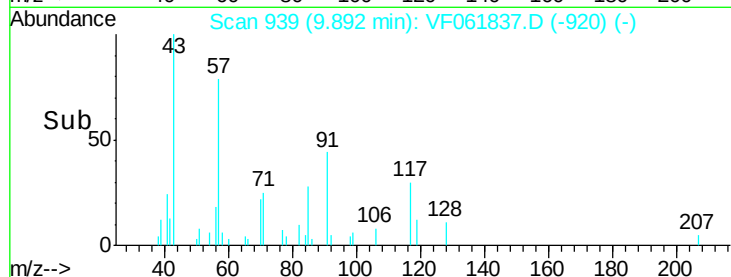
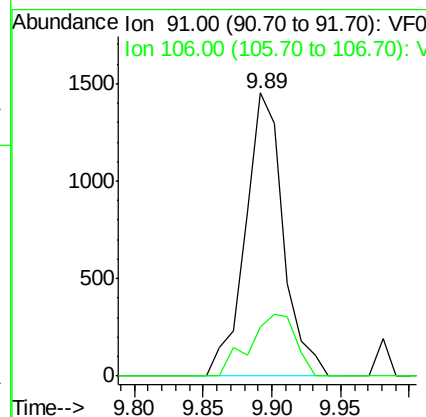
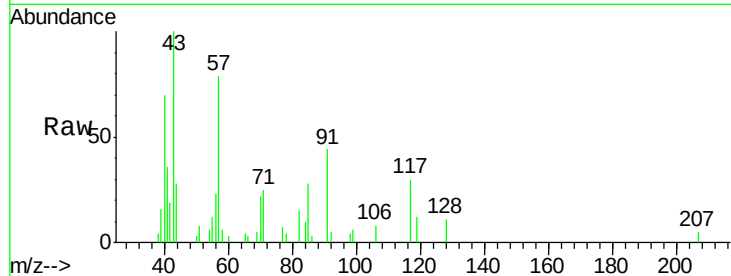
106 17.1 24.1 36.1#

Manual Integrations

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#68

m/p-Xylenes

Concen: 1.163 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.02 min

Lab File: VF061837.D

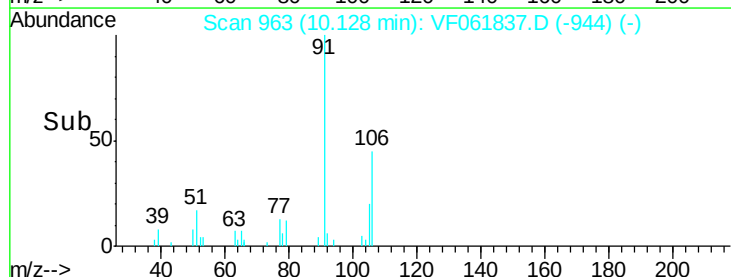
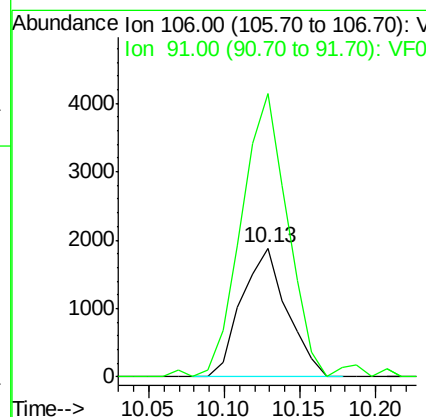
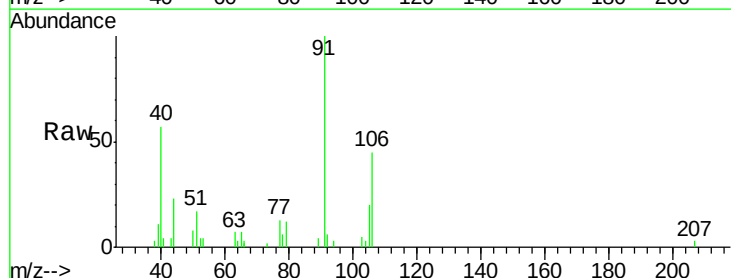
Acq: 5 Mar 2019 00:11

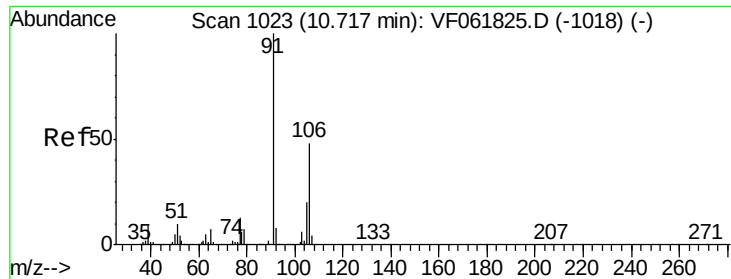
Tgt Ion: 106 Resp: 3945

Ion Ratio Lower Upper

106 100

91 220.2 153.0 229.6





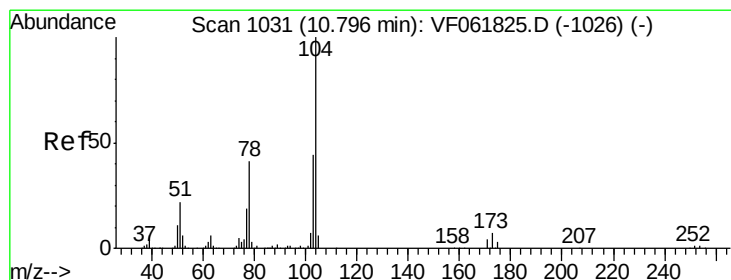
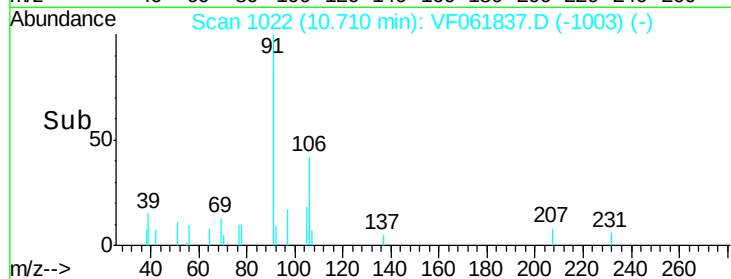
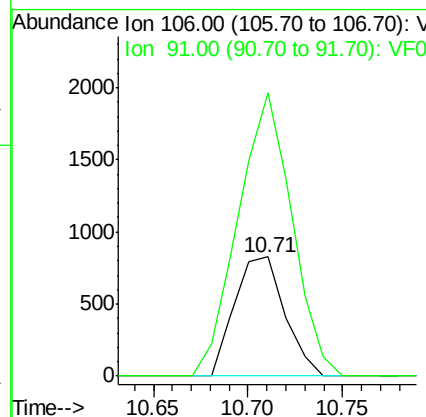
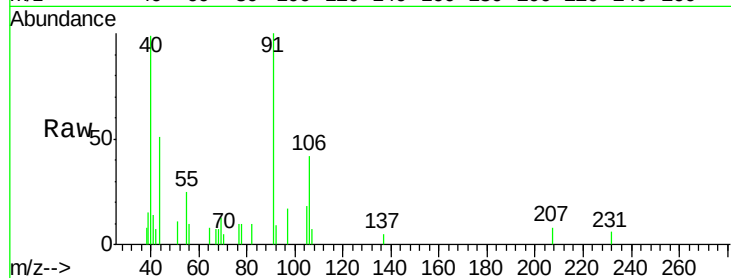
#69
o-Xylene
Concen: 0.419 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampled :
Z-4-2-AB

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	237.1	100.1	300.1

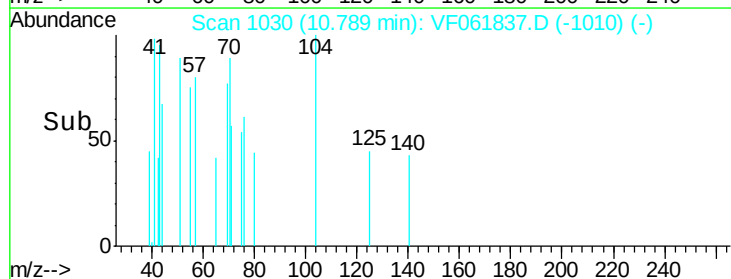
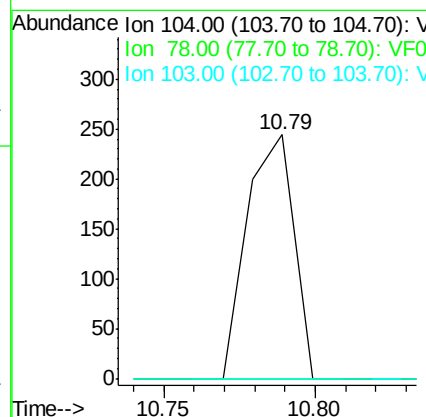
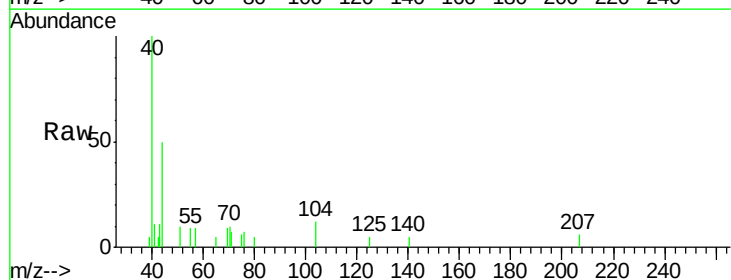
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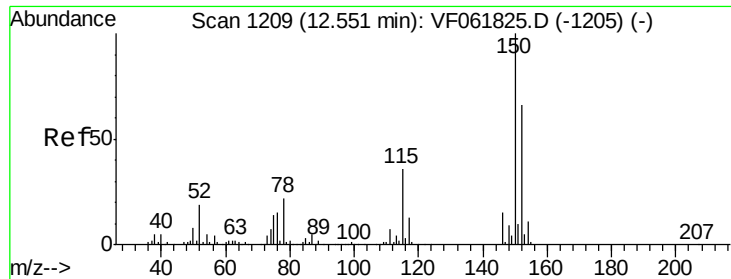
MMDadoda
3/5/2019 10:48:31 AM



#70
Styrene
Concen: 0.051 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	0.0	33.2	49.8#
103	103	0.0	37.2	55.8#





#72

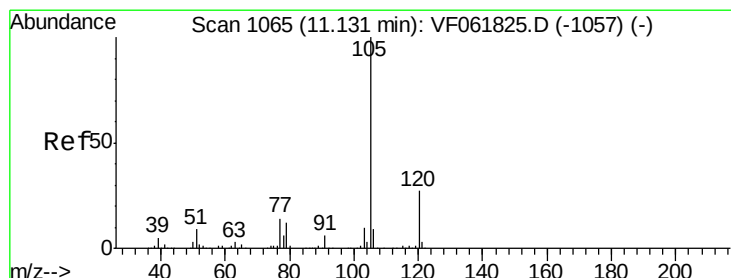
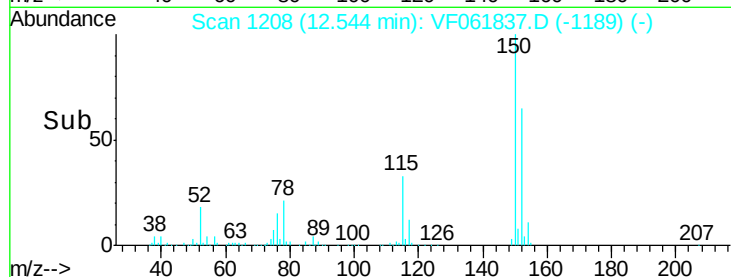
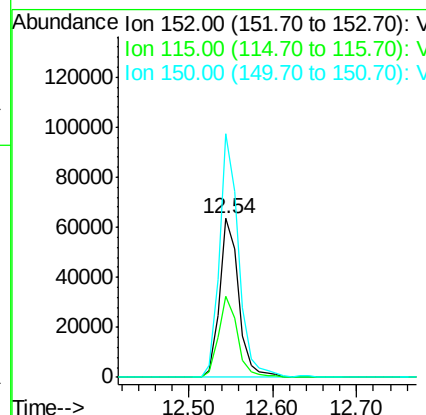
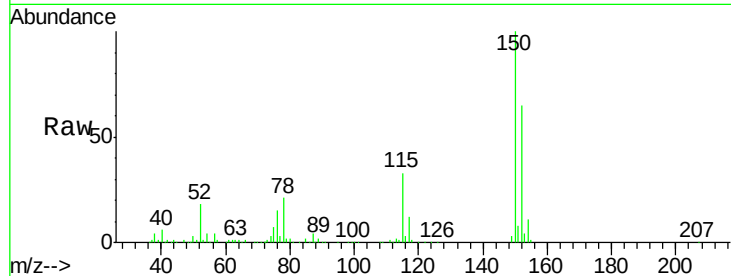
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
152	100		
115	51.3	24.3	72.8
150	153.5	0.0	312.0

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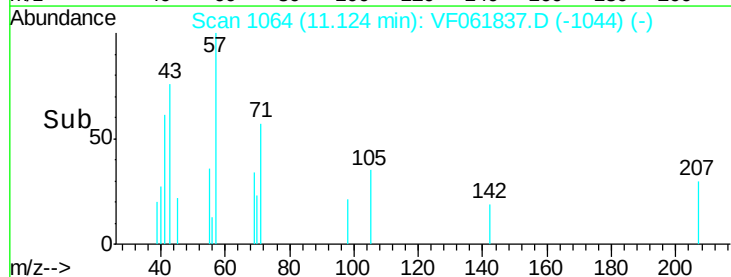
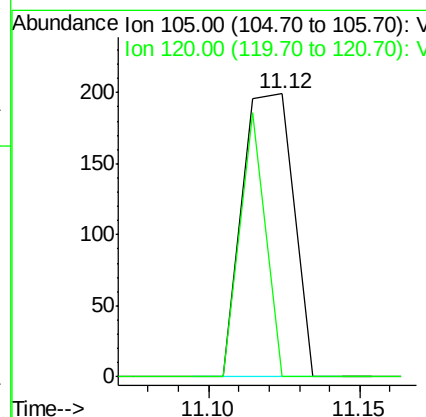
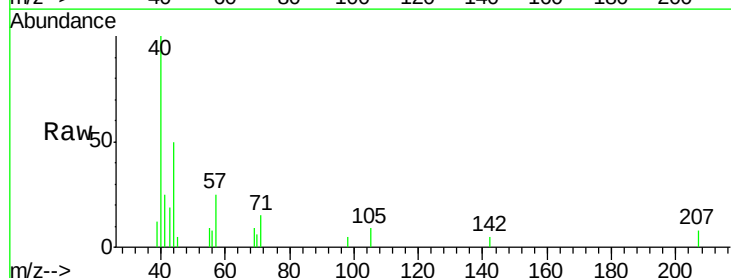
MMDadoda
3/5/2019 10:48:31 AM

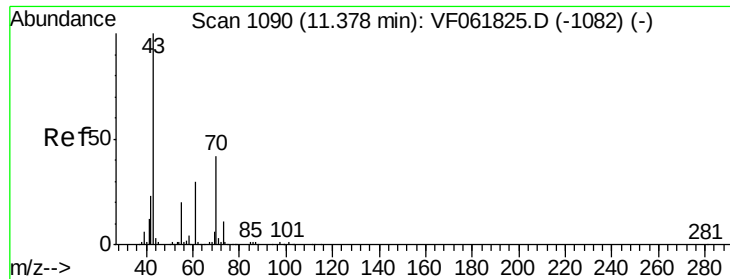


#73

Isopropylbenzene
Concen: 0.033 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	13.4	40.1#





#74

N-amvl acetate

Concen: 0.405 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

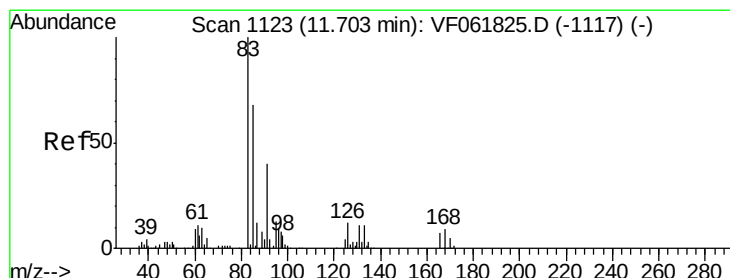
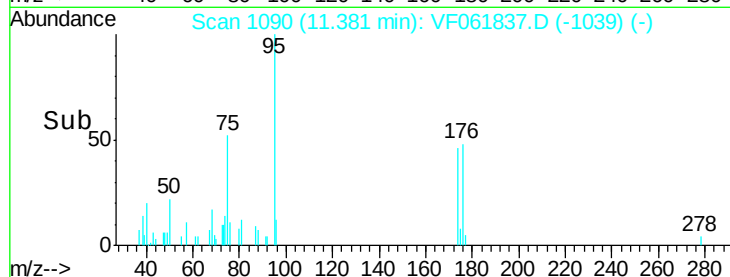
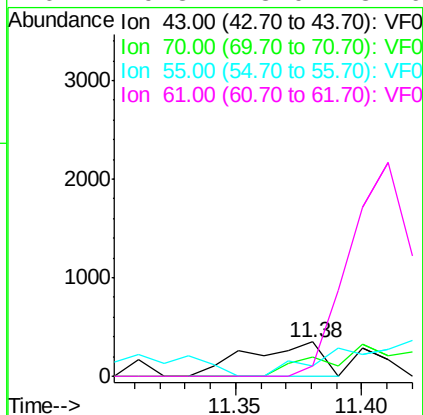
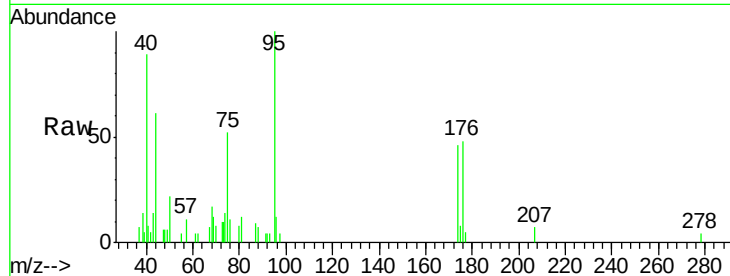
ClientSampleId :

Z-4-2-AB

Tot Ion:	43	Resp:	696
Ion	Ratio	Lower	Upper
43	100		
70	58.0	31.5	47.3#
55	31.9	16.7	25.1#
61	29.3	23.0	34.6

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#75

1,1,2,2-Tetrachloroethane

Concen: 0.368 ug/l

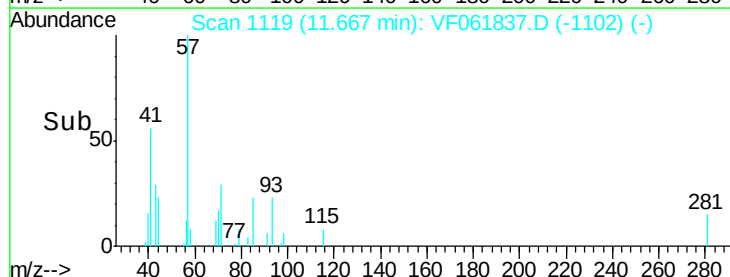
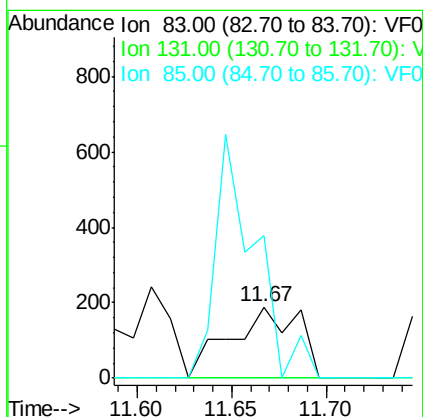
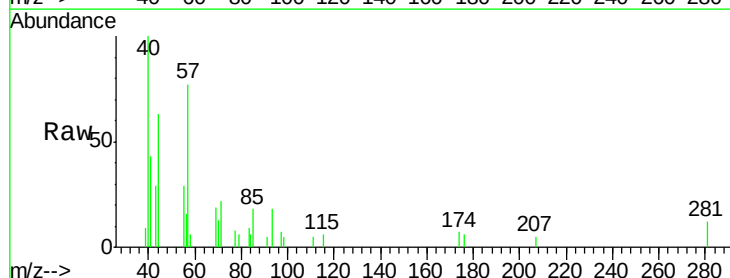
RT: 11.67 min Scan# 1119

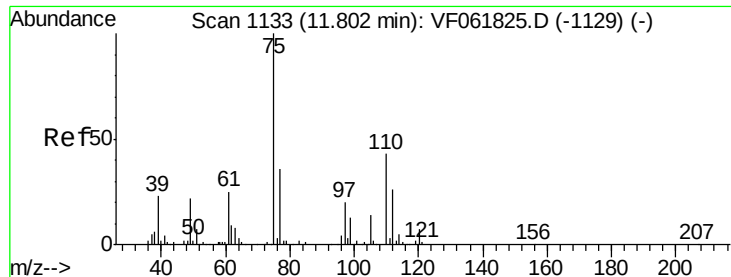
Delta R.T. -0.04 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Tgt Ion:	83	Resp:	472
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.4	13.2#
85	201.1	31.5	94.5#





#76

1,2,3-Trichloropropane

Concen: 0.112 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.08 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampleId :

Z-4-2-AB

Tot Ion: 75 Resp: 98

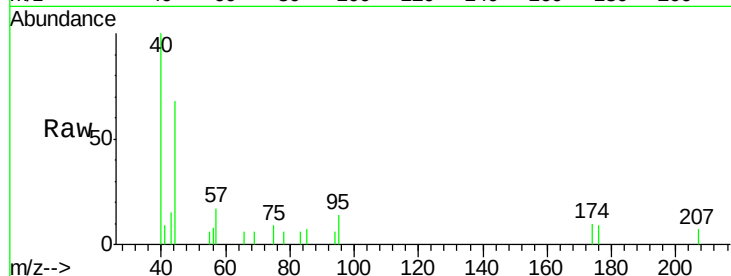
Ion Ratio Lower Upper

75 100

77 0.0 16.6 49.7#

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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

11.88

150

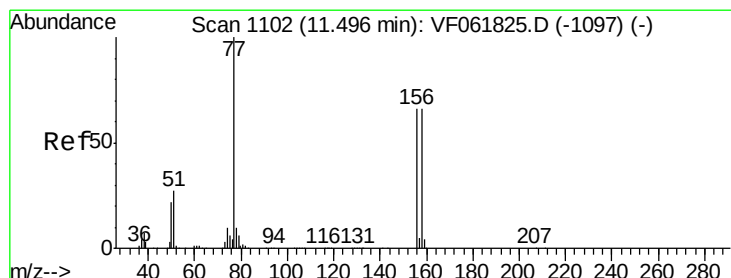
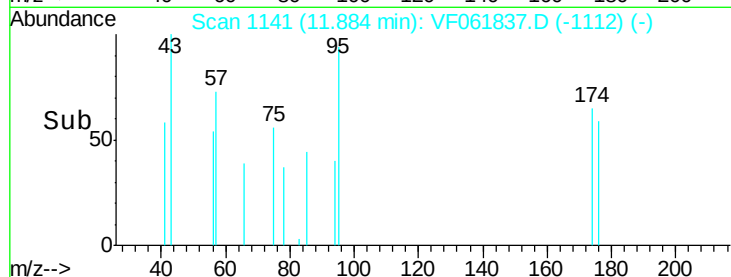
100

50

0

11.86 11.88 11.90

Time-->



#77

Bromobenzene

Concen: 0.048 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

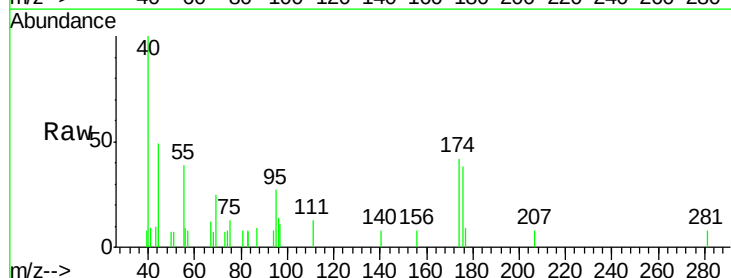
Tgt Ion: 156 Resp: 85

Ion Ratio Lower Upper

156 100

77 0.0 64.3 192.7#

158 0.0 50.9 152.7#



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V

250

200

150

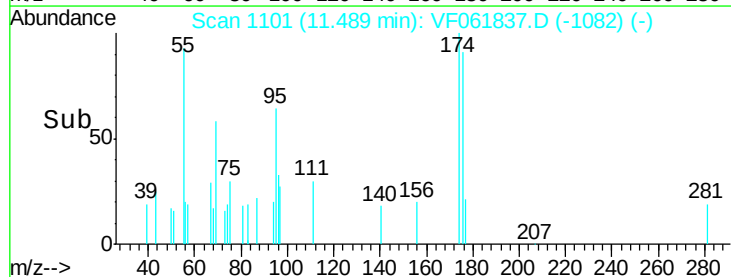
100

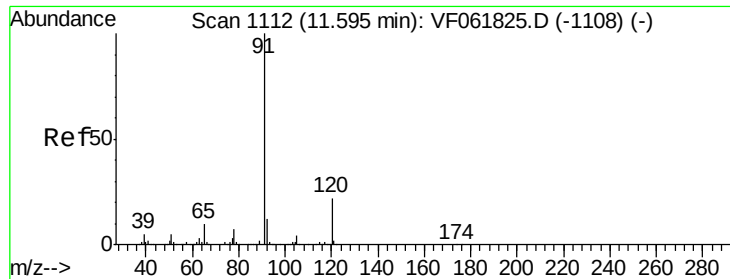
50

0

11.46 11.48 11.50 11.52

Time-->





#78

n-propylbenzene

Concen: 0.071 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampled :

Z-4-2-AB

Tot Ion: 91 Resp: 583

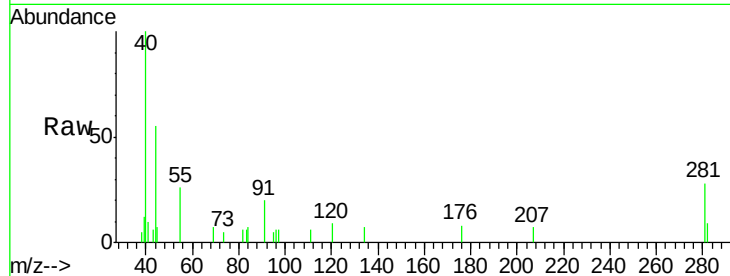
Ion Ratio Lower Upper

91 100

120 47.0 12.1 36.3#

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.59

400

300

200

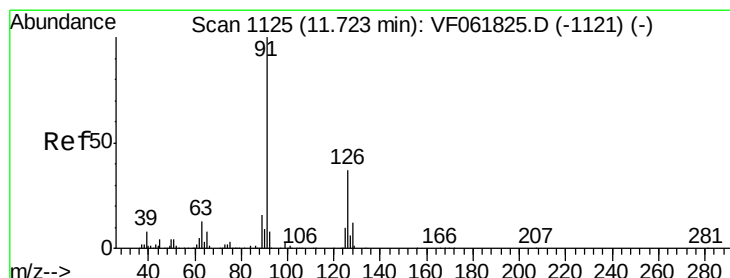
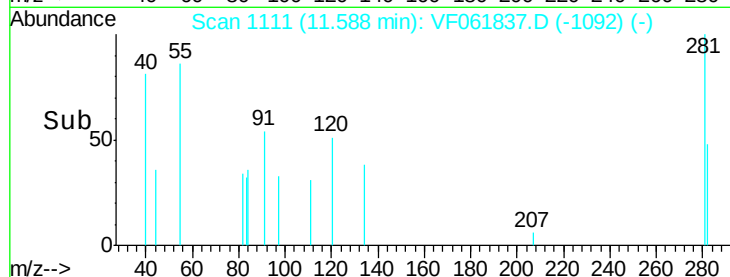
100

0

11.55

11.60

Time-->



#79

2-Chlorotoluene

Concen: 0.083 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.02 min

Lab File: VF061837.D

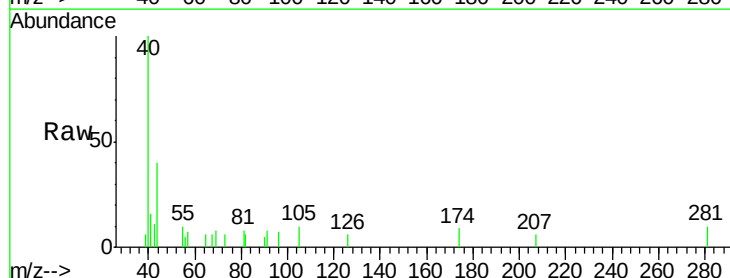
Acq: 5 Mar 2019 00:11

Tgt Ion: 91 Resp: 383

Ion Ratio Lower Upper

91 100

126 74.3 19.8 59.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

250

200

150

100

50

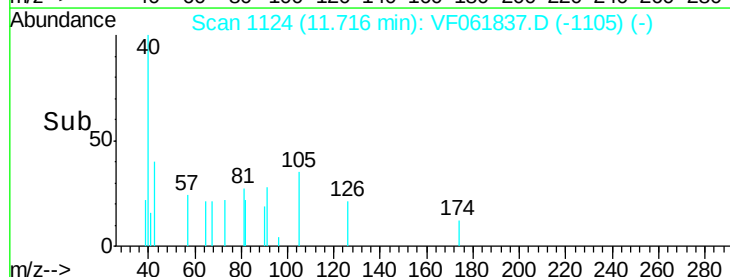
0

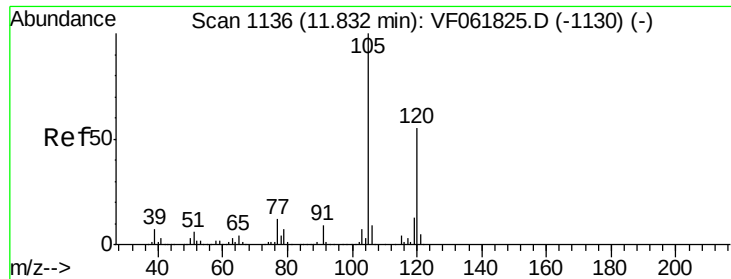
11.65

11.70

11.75

Time-->





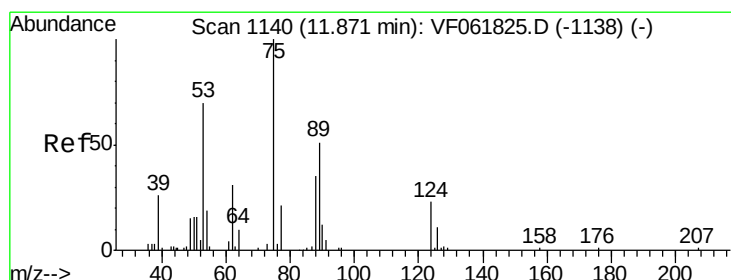
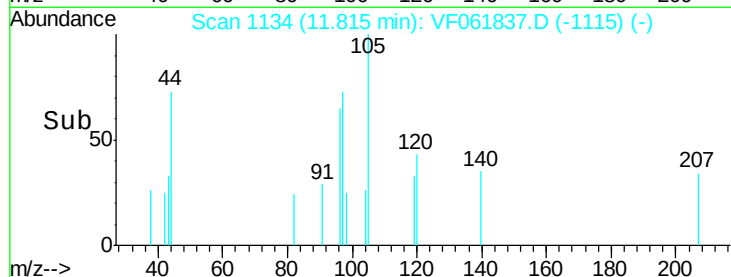
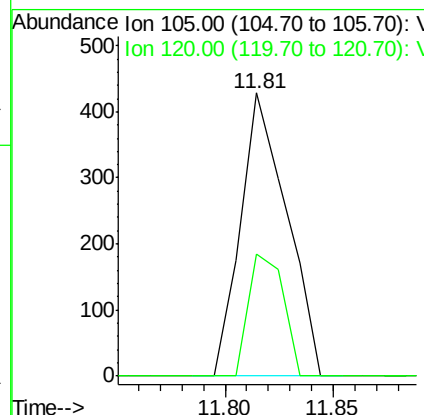
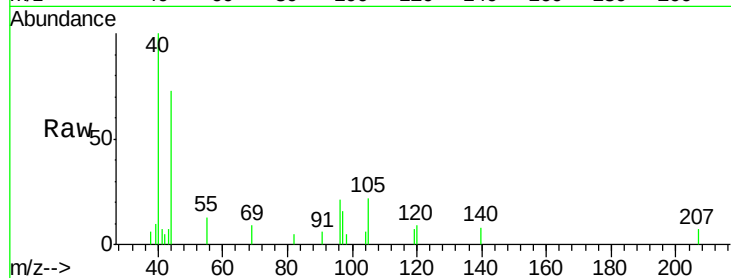
#80
 1,3,5-Trimethylbenzene
 Concen: 0.111 ug/l
 RT: 11.81 min Scan# 1134
 Delta R.T. -0.02 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.0	27.9	83.6

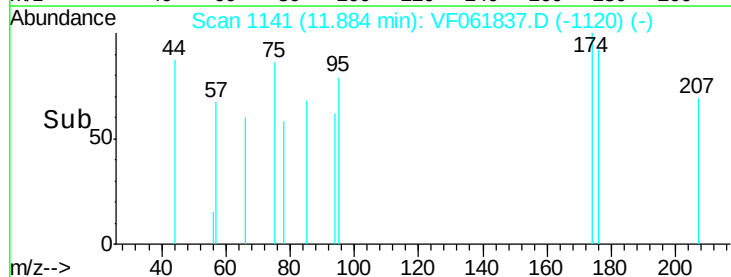
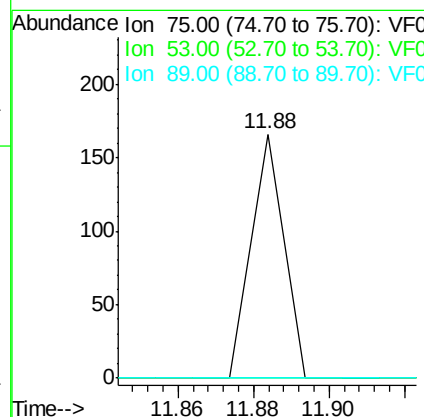
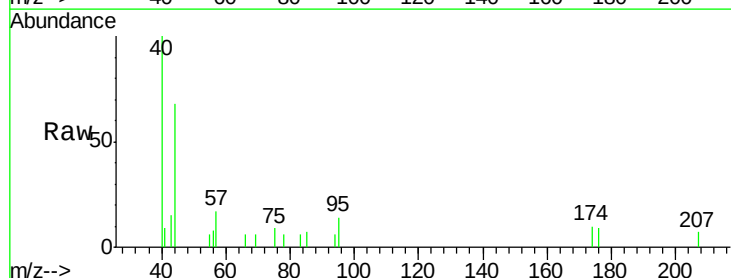
Manual Integrations
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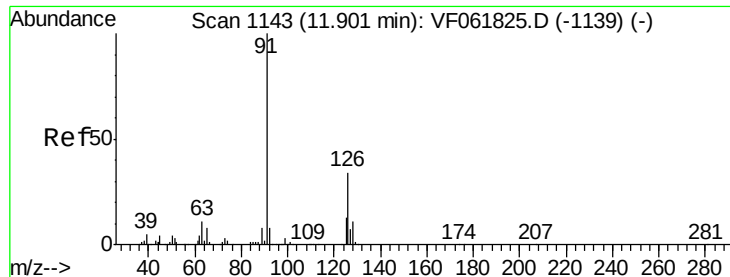
MMDadoda
 3/5/2019 10:48:31 AM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 0.234 ug/l
 RT: 11.88 min Scan# 1141
 Delta R.T. 0.00 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	53.7	80.5#
89	0.0	41.6	62.4#





#82

4-Chlorotoluene

Concen: 0.079 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampleId :

Z-4-2-AB

Tot Ion: 91 Resp: 376

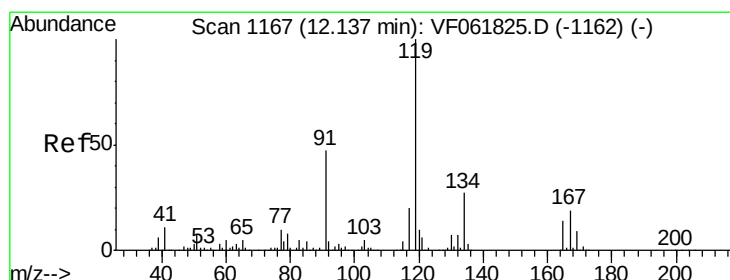
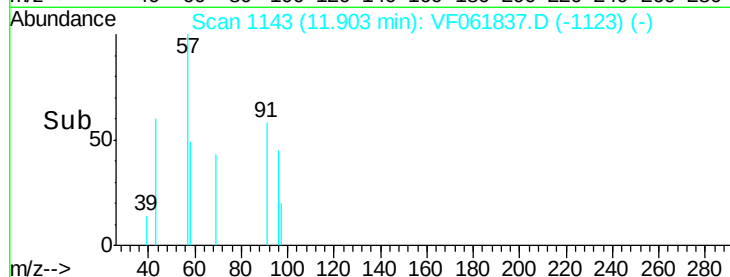
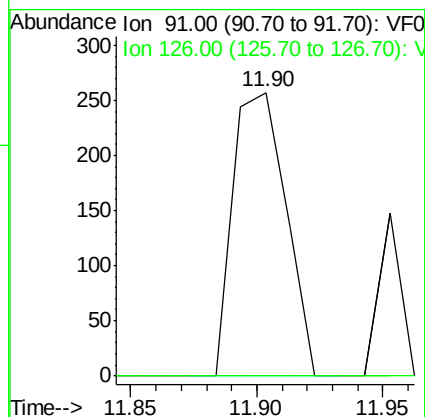
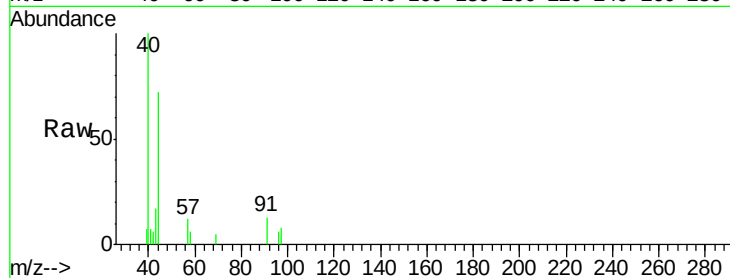
Ion Ratio Lower Upper

91 100

126 0.0 19.1 57.1#

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#83

tert-Butylbenzene

Concen: 0.032 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

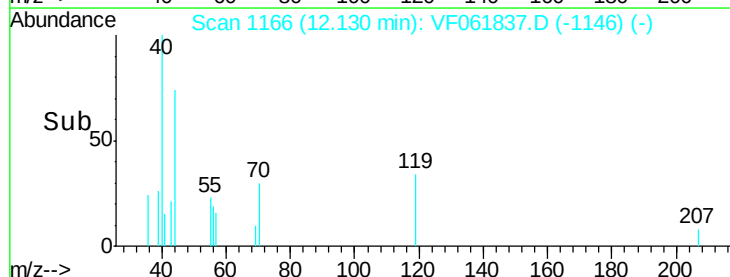
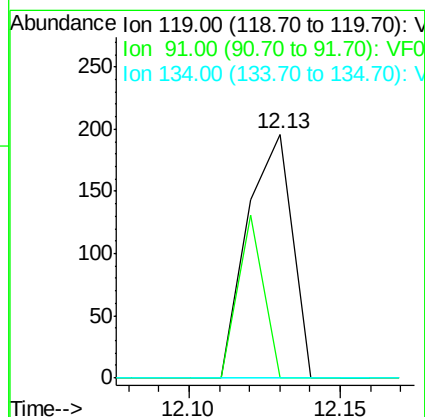
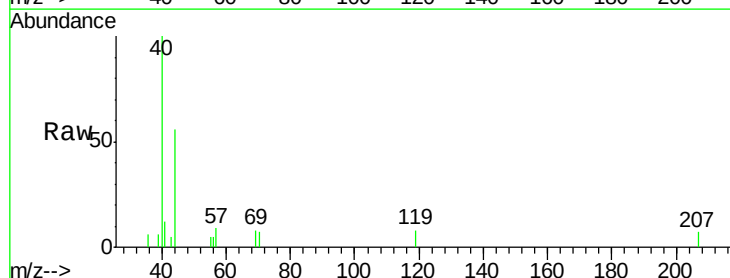
Tgt Ion: 119 Resp: 201

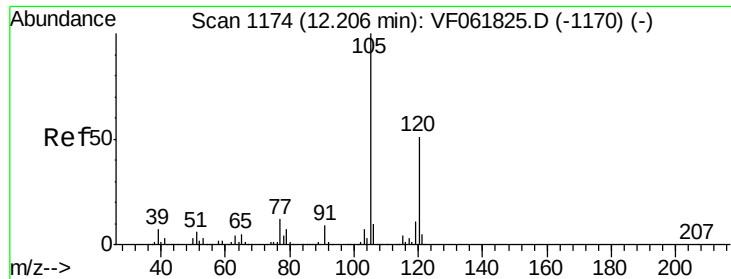
Ion Ratio Lower Upper

119 100

91 0.0 26.3 78.8#

134 0.0 12.9 38.7#





#84

1,2,4-Trimethylbenzene

Concen: 0.218 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VF061837.D

Acq: 5 Mar 2019 00:11

Instrument :

MSVOA_F

ClientSampled :

Z-4-2-AB

Tot Ion:105 Resp: 1242

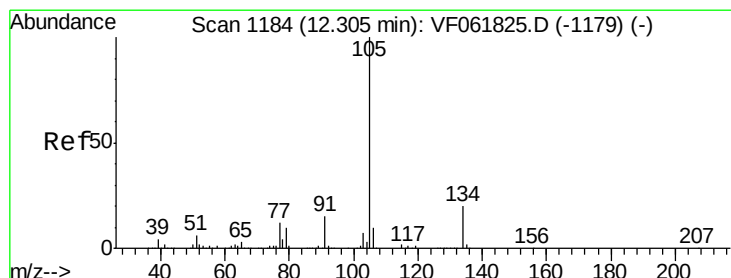
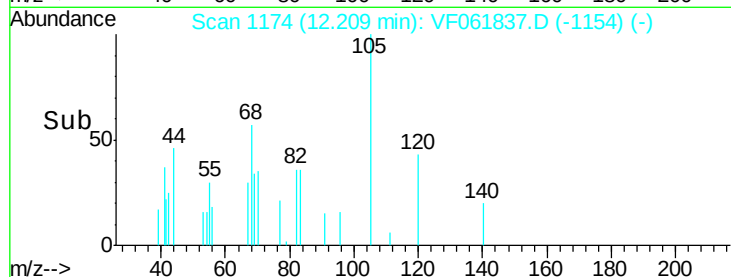
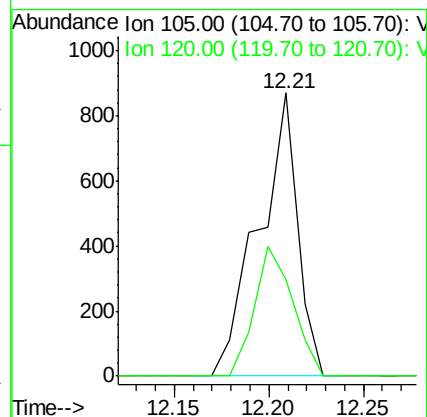
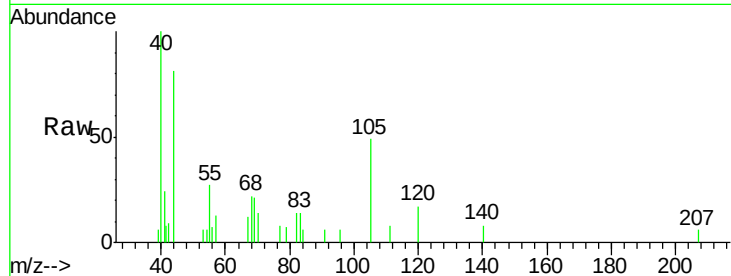
Ion Ratio Lower Upper

105 100

120 33.9 26.1 78.3

Manual Integrations
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#85

sec-Butylbenzene

Concen: 0.084 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF061837.D

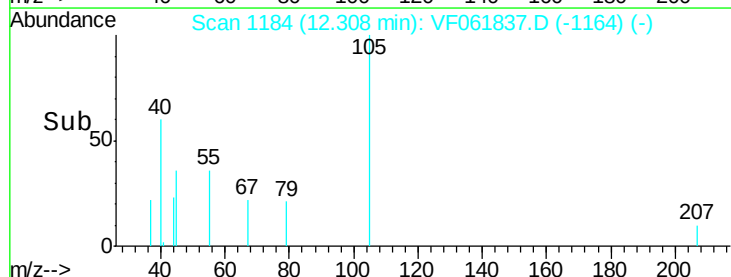
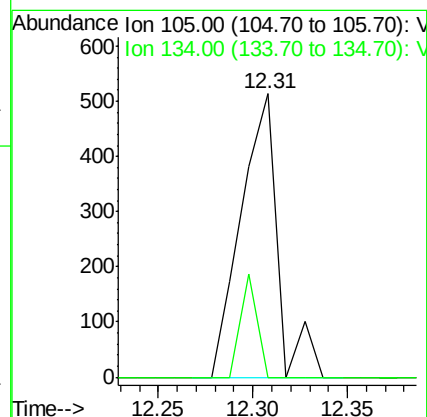
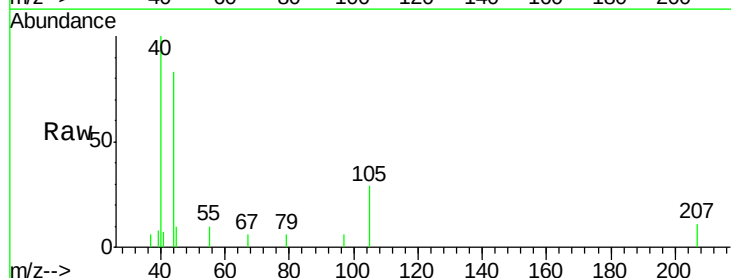
Acq: 5 Mar 2019 00:11

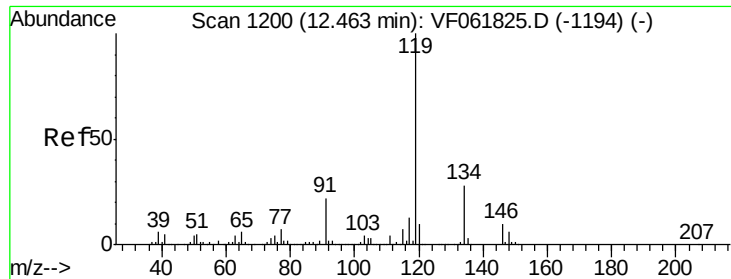
Tgt Ion:105 Resp: 692

Ion Ratio Lower Upper

105 100

134 0.0 10.8 32.4#





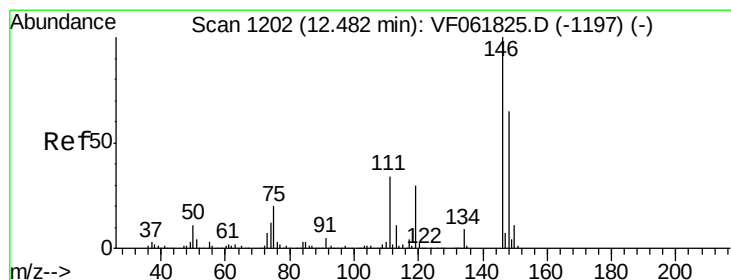
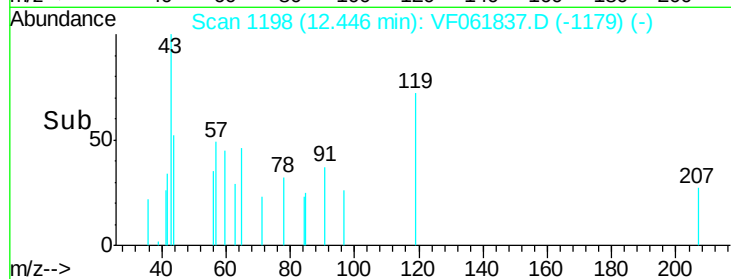
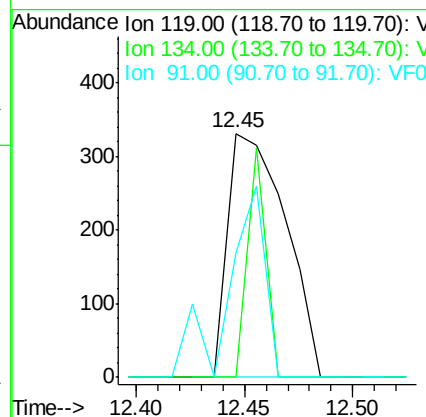
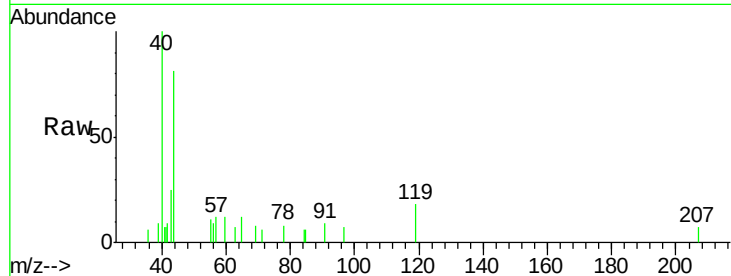
#86
 p-Isopropyltoluene
 Concen: 0.090 ug/l
 RT: 12.45 min Scan# 1198
 Delta R.T. -0.02 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.7	41.1#
91	51.4	10.8	32.4#

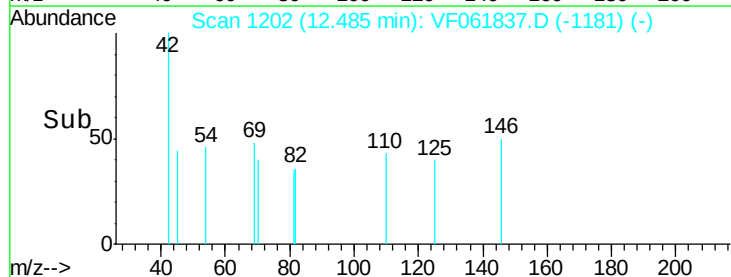
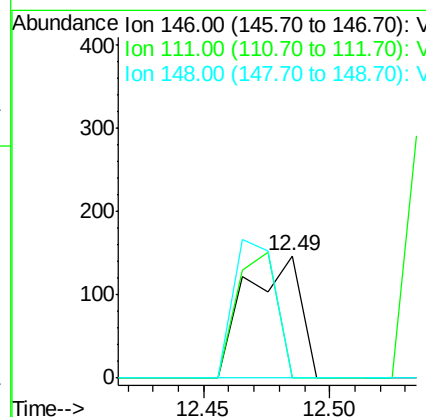
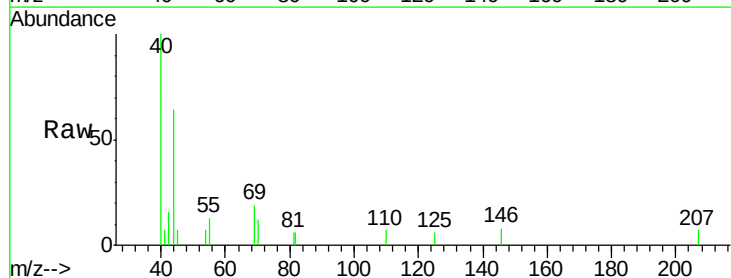
Manual Integrations
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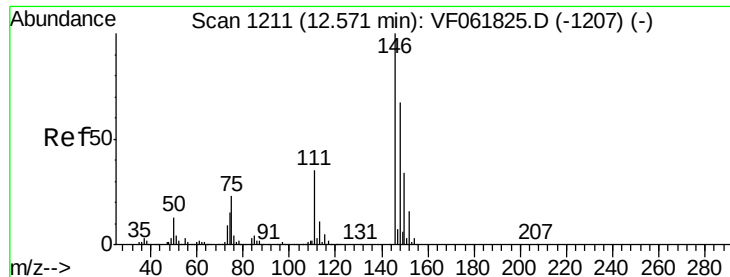
MMDadoda
 3/5/2019 10:48:31 AM



#87
 1,3-Dichlorobenzene
 Concen: 0.064 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	17.5	52.6#
148	0.0	31.4	94.3#





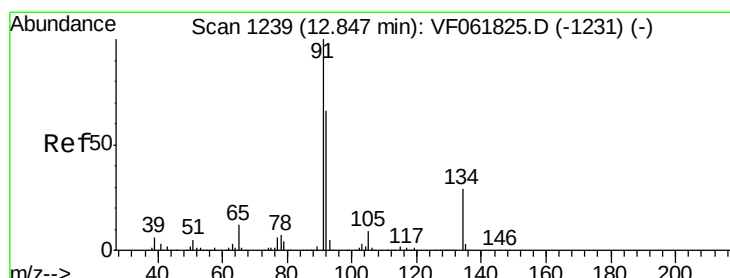
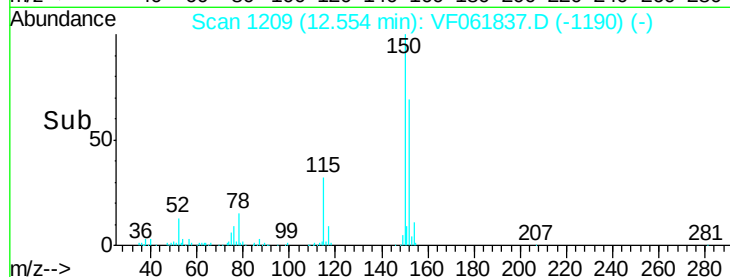
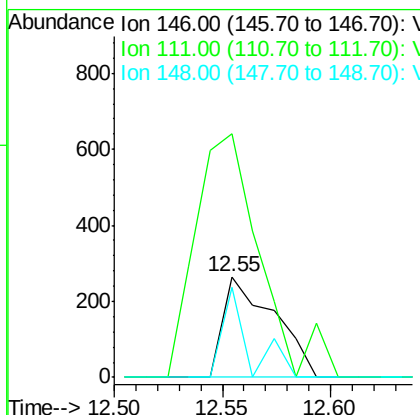
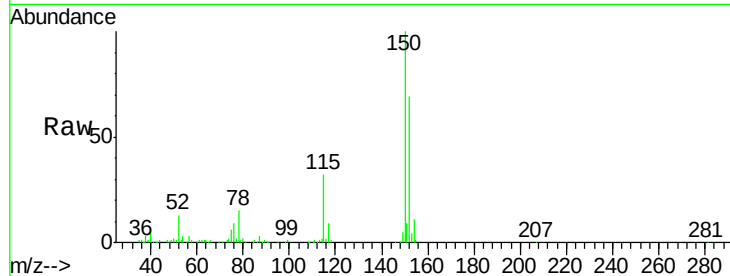
#88
 1,4-Dichlorobenzene
 Concen: 0.131 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Instrument :
 MSVOA_F
 ClientSampleId :
 Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
146	100		
111	241.9	18.4	55.4#
148	89.1	32.2	96.6

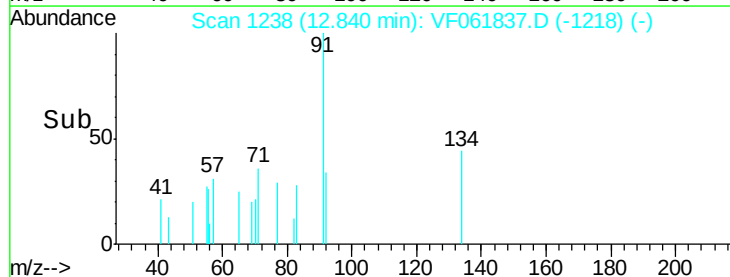
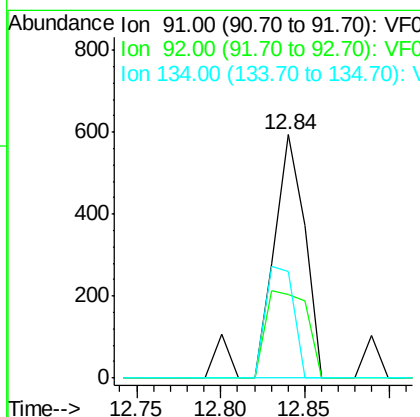
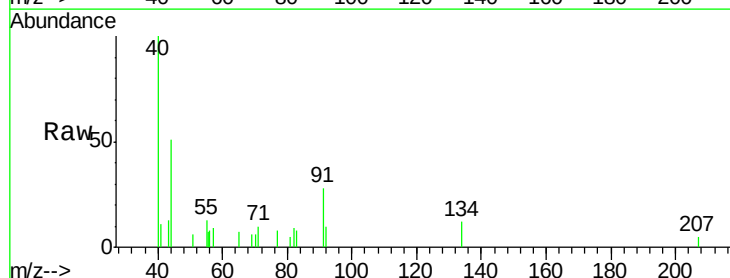
Manual Integrations
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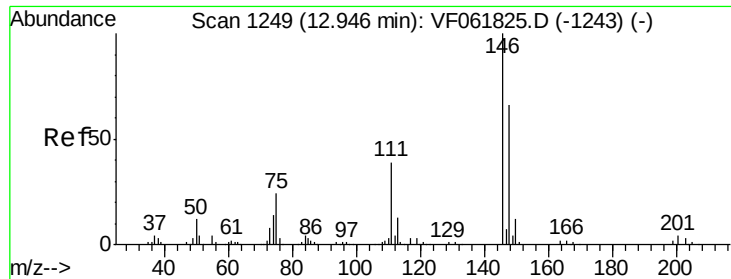
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#89
 n-Butylbenzene
 Concen: 0.123 ug/l
 RT: 12.84 min Scan# 1238
 Delta R.T. -0.01 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	34.3	31.4	94.3
134	43.6	12.3	36.9#





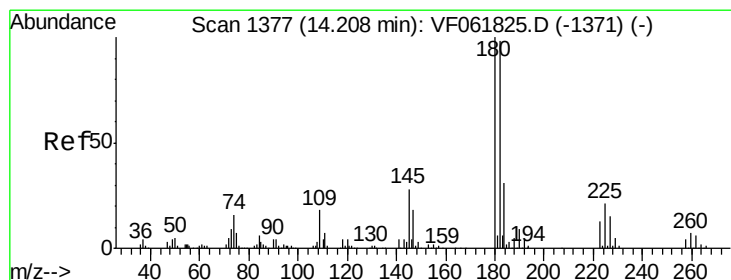
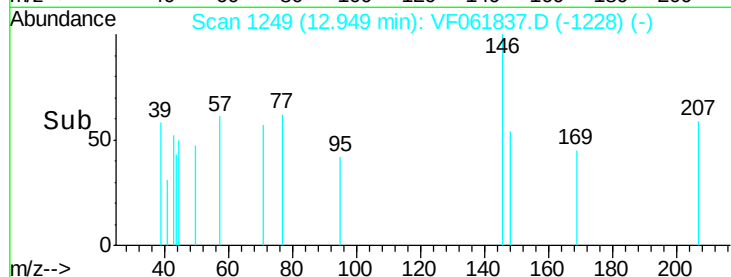
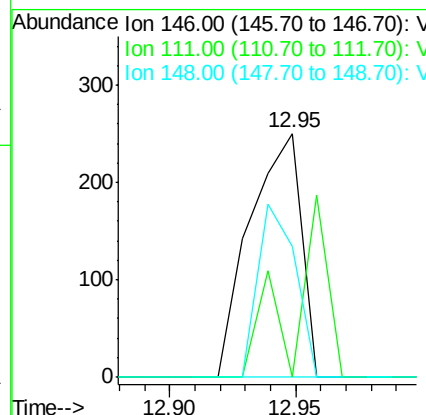
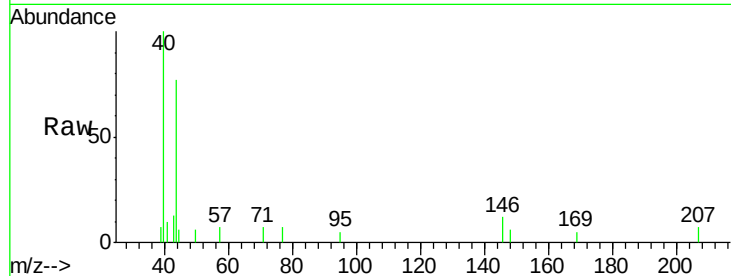
#91
 1,2-Dichlorobenzene
 Concen: 0.108 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Instrument :
 MSVOA_F
 ClientSampled :
 Z-4-2-AB

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.2	60.5#
148	53.6	32.3	96.9

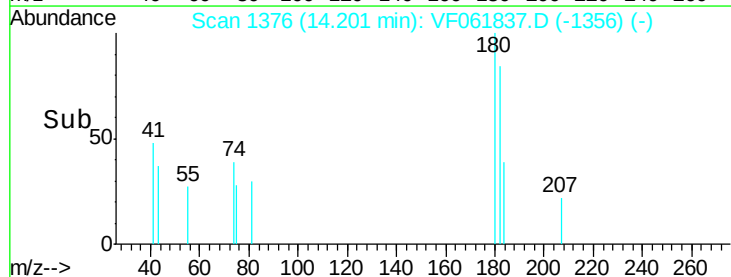
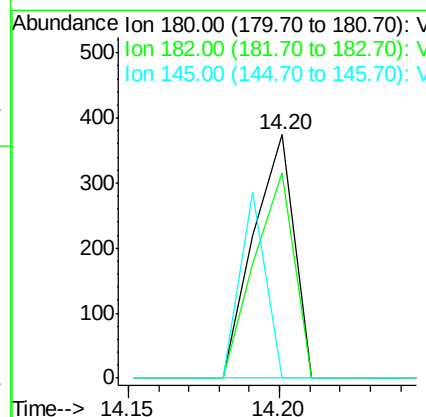
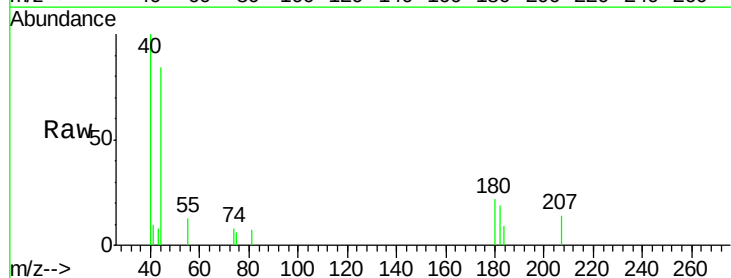
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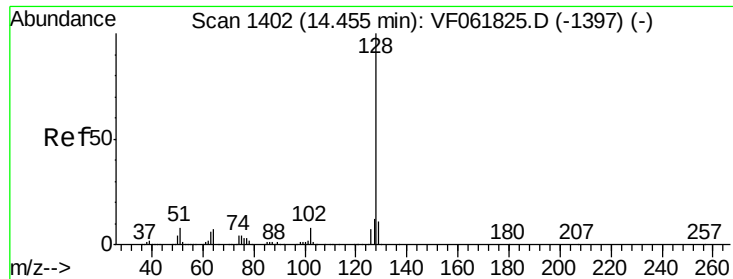
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#93
 1,2,4-Trichlorobenzene
 Concen: 0.149 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061837.D
 Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	84.5	48.6	145.9
145	0.0	15.3	45.9#





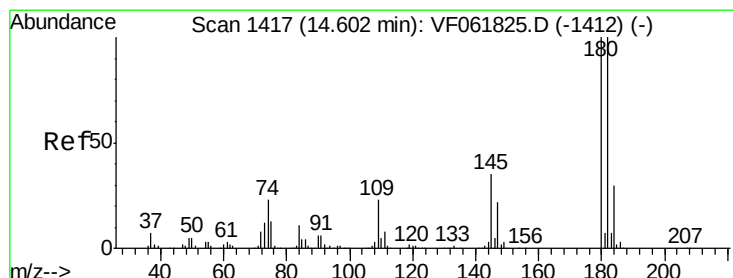
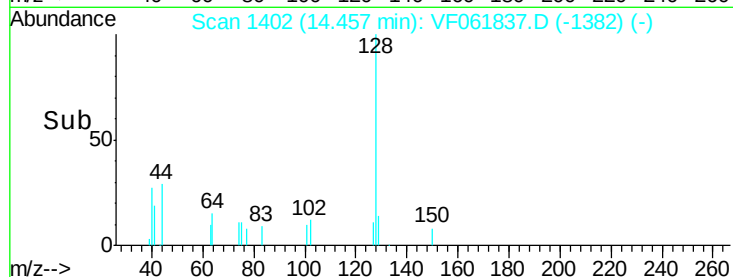
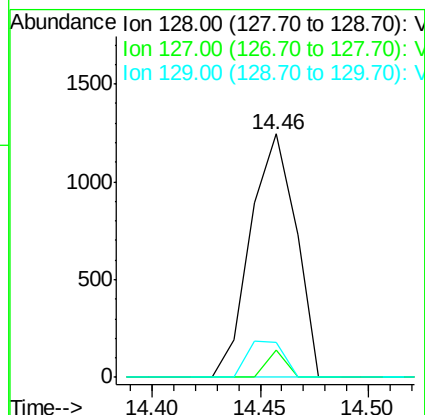
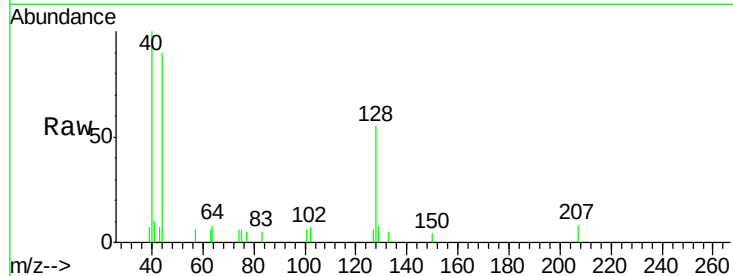
#95
Naphthalene
Concen: 0.439 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Instrument :
MSVOA_F
ClientSampleId :
Z-4-2-AB

Tot Ion	Ratio	Resp	Lower	Upper
128	100	1809		
127	11.4		9.8	14.6
129	14.2		9.4	14.2#

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 0.115 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061837.D
Acq: 5 Mar 2019 00:11

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	249		
182	120.2		49.0	147.2
145	47.5		15.4	46.1#

