

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031119\
 Data File : VF061883.D
 Acq On : 11 Mar 2019 11:06
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/12/2019 4:36:45 PM

Quant Time: Mar 12 05:18:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	286504	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	422803	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	346034	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	199927	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	116775	55.97	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	111.94%	
35) Dibromofluoromethane	4.10	113	148408	50.30	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	7.54	98	427581	48.75	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.41	95	172531	50.22	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	100.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	164004	46.626	ug/l	79
3) Chloromethane	1.09	50	170960	50.151	ug/l	92
4) Vinyl Chloride	1.13	62	163841	50.630	ug/l	96
5) Bromomethane	1.33	94	119838	54.339	ug/l	96
6) Chloroethane	1.39	64	82277	53.488	ug/l	98
7) Trichlorofluoromethane	1.48	101	217024	54.911	ug/l	96
8) Diethyl Ether	1.62	74	45089	50.168	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.82	101	139369	51.927	ug/l	95
10) Methyl Iodide	1.90	142	264342m	51.756	ug/l	
11) Tert butyl alcohol	2.56	59	30328	256.094	ug/l	98
12) 1,1-Dichloroethene	1.78	96	122433	49.966	ug/l	88
13) Acrolein	2.00	56	43175	287.722	ug/l	88
14) Allyl chloride	2.09	41	151944	56.288	ug/l	93
15) Acrylonitrile	2.94	53	89165	236.451	ug/l	98
16) Acetone	2.24	43	133194	304.756	ug/l	98
17) Carbon Disulfide	1.81	76	385822m	50.585	ug/l	
18) Methyl Acetate	2.34	43	53954m	62.729	ug/l	
19) Methyl tert-butyl Ether	2.42	73	210199	50.711	ug/l	98
20) Methylene Chloride	2.18	84	121213m	49.922	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	121402	52.643	ug/l	93
22) Diisopropyl ether	2.79	45	364013	51.840	ug/l	98
23) Vinyl Acetate	3.18	43	738281	235.353	ug/l	99
24) 1,1-Dichloroethane	2.87	63	210299	50.106	ug/l	99
25) 2-Butanone	4.33	43	221609	249.278	ug/l	94
26) 2,2-Dichloropropane	3.59	77	99836	53.285	ug/l	99
27) cis-1,2-Dichloroethene	3.47	96	163584	51.200	ug/l	96
28) Bromochloromethane	3.71	49	87356	47.748	ug/l #	97
29) Tetrahydrofuran	4.06	42	82772	215.890	ug/l	98
30) Chloroform	3.84	83	233916	48.794	ug/l	95
31) Cyclohexane	3.69	56	206891	47.063	ug/l	91
32) 1,1,1-Trichloroethane	4.09	97	166838	56.461	ug/l	97
36) 1,1-Dichloropropene	4.27	75	191617	47.978	ug/l	98
37) Ethyl Acetate	4.10	43	80075	47.767	ug/l #	97
38) Carbon Tetrachloride	3.98	117	148526	52.534	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	220546	46.752	ug/l	98
40) Benzene	4.62	78	491756	47.105	ug/l	99
41) Methacrylonitrile	4.74	41	42849	46.653	ug/l #	88
42) 1,2-Dichloroethane	4.93	62	128821	49.516	ug/l	96
43) Isopropyl Acetate	6.95	43	95985	46.451	ug/l #	94
44) Trichloroethene	5.49	130	154896	47.745	ug/l	99
45) 1,2-Dichloropropane	6.23	63	111768	45.024	ug/l	96
46) Dibromomethane	6.07	93	76256	48.809	ug/l	99
47) Bromodichloromethane	6.38	83	165966	48.084	ug/l	99
48) Methyl methacrylate	6.70	41	62270	47.616	ug/l #	94
49) 1,4-Dioxane	6.69	88	10319	863.162	ug/l #	76
51) 4-Methyl-2-Pentanone	8.25	43	347509	243.328	ug/l	96
52) Toluene	7.61	92	294934	47.757	ug/l	97
53) t-1,3-Dichloropropene	8.27	75	144871	50.848	ug/l	93
54) cis-1,3-Dichloropropene	7.29	75	188362	47.931	ug/l	98
55) 1,1,2-Trichloroethane	8.48	97	85654	48.137	ug/l	97
56) Ethyl methacrylate	8.61	69	97296	48.518	ug/l	97
57) 1,3-Dichloropropane	8.84	76	142012	48.802	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.28	63	77655	244.792	ug/l	95
59) 2-Hexanone	9.48	43	257031	249.474	ug/l	99
60) Dibromochloromethane	8.70	129	120866	47.659	ug/l	100
61) 1,2-Dibromoethane	8.98	107	95068	48.585	ug/l	97
64) Tetrachloroethene	8.14	164	136316	51.268	ug/l	97
65) Chlorobenzene	9.79	112	328852	49.466	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	138514	53.776	ug/l	96
67) Ethyl Benzene	9.89	91	568297	51.575	ug/l	98
68) m/p-Xylenes	10.12	106	431578	102.241	ug/l	94
69) o-Xylene	10.71	106	241907	53.220	ug/l	98
70) Styrene	10.78	104	326721	51.075	ug/l	99
71) Bromoform	10.77	173	70713	51.944	ug/l	94
73) Isopropylbenzene	11.12	105	692122	50.285	ug/l	99
74) N-amyl acetate	11.37	43	145983	46.071	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	111511	48.746	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	69427	44.467	ug/l	96
77) Bromobenzene	11.49	156	159598	48.181	ug/l	93
78) n-propylbenzene	11.58	91	729927	46.960	ug/l	99
79) 2-Chlorotoluene	11.71	91	412577	46.428	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	503614	45.573	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	36449m	51.054	ug/l	
82) 4-Chlorotoluene	11.89	91	435252	47.885	ug/l	98
83) tert-Butylbenzene	12.13	119	581791	49.581	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	531764	49.087	ug/l	98
85) sec-Butylbenzene	12.29	105	761305	49.856	ug/l	100
86) p-Isopropyltoluene	12.45	119	622732	47.977	ug/l	100
87) 1,3-Dichlorobenzene	12.47	146	296858	47.197	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	303631	50.043	ug/l	100
89) n-Butylbenzene	12.84	91	604226	48.710	ug/l	98
90) Hexachloroethane	12.92	117	158470	50.723	ug/l	72
91) 1,2-Dichlorobenzene	12.93	146	279680	46.932	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	17732	45.042	ug/l	90

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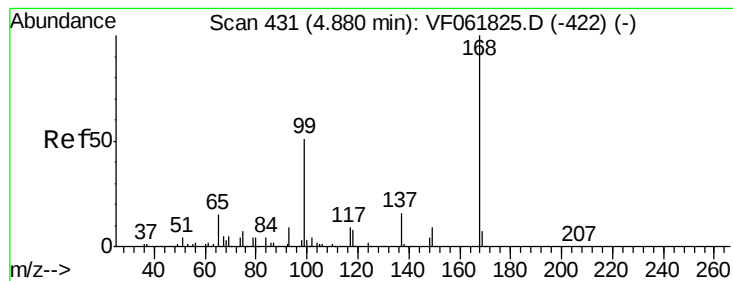
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	205281	49.136	ug/l	98
94) Hexachlorobutadiene	14.19	225	134018	46.338	ug/l	98
95) Naphthalene	14.45	128	370965	49.854	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	191543	49.656	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 286504

Ion Ratio Lower Upper

168 100

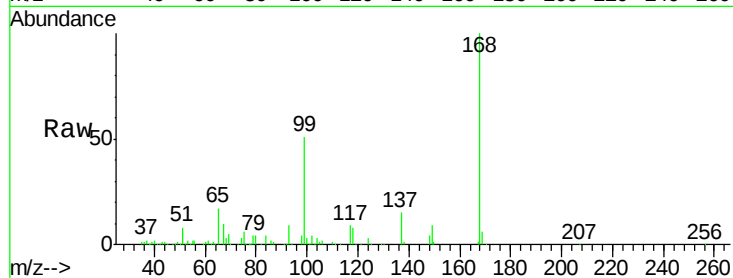
99 51.3 40.8 61.2

Manual Integrations

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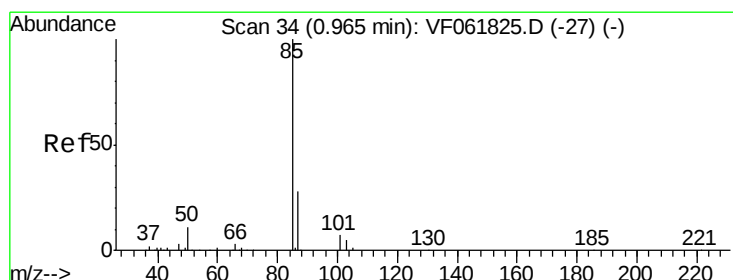
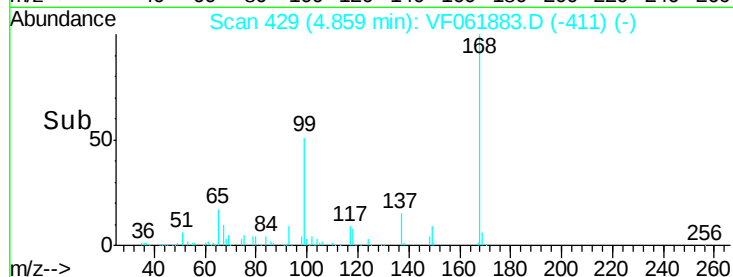
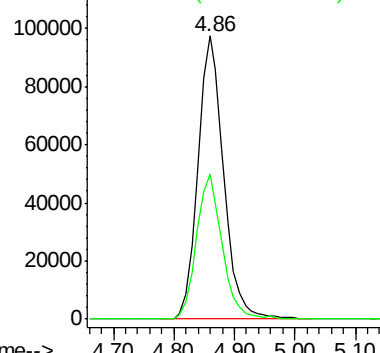
MMDadoda

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 46.626 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061883.D

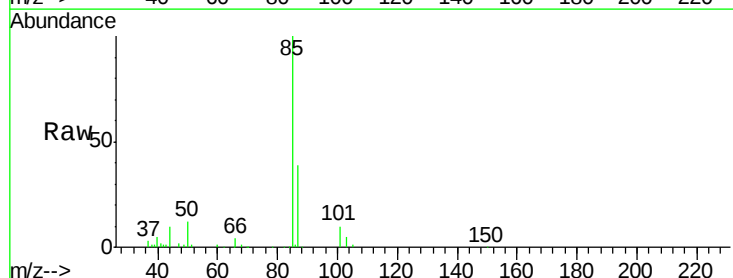
Acq: 11 Mar 2019 11:06

Tgt Ion: 85 Resp: 164004

Ion Ratio Lower Upper

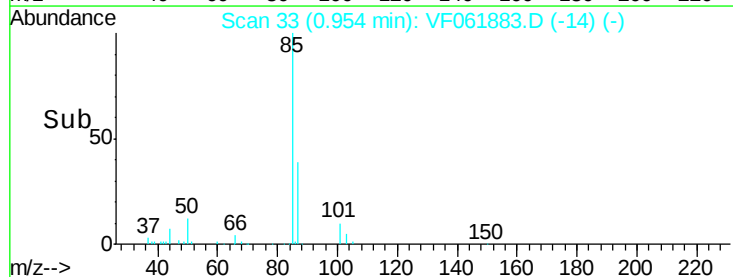
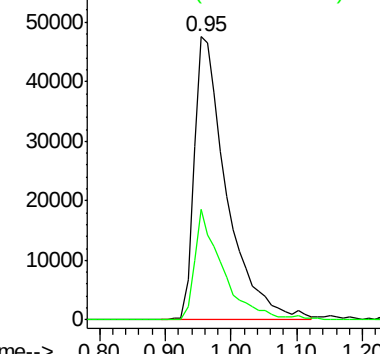
85 100

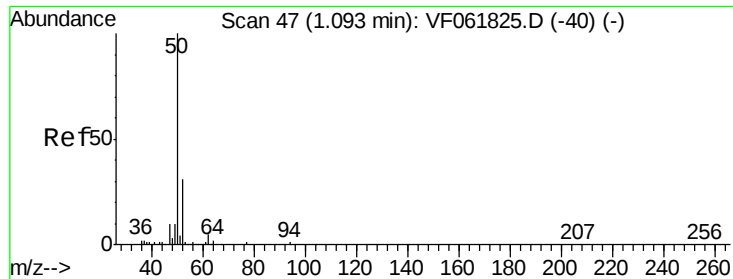
87 39.0 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 50.151 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 170960

Ion Ratio Lower Upper

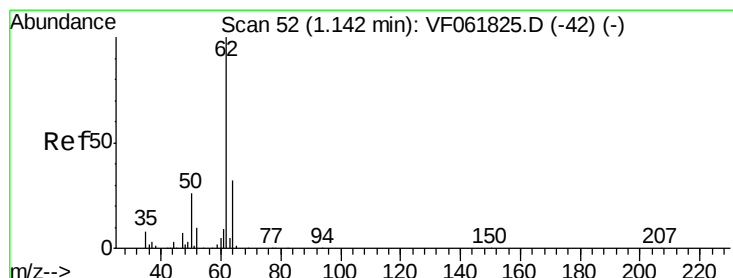
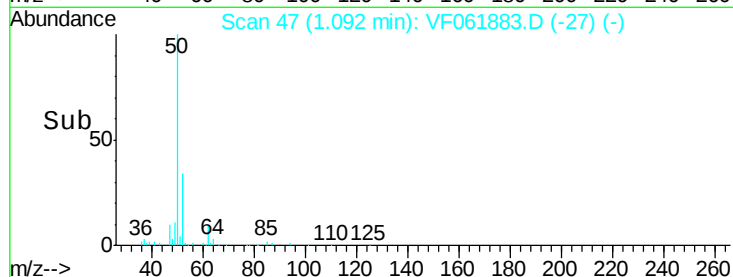
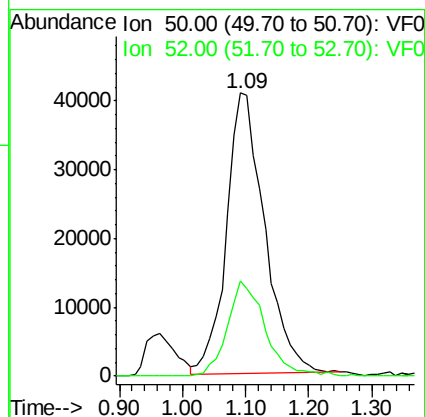
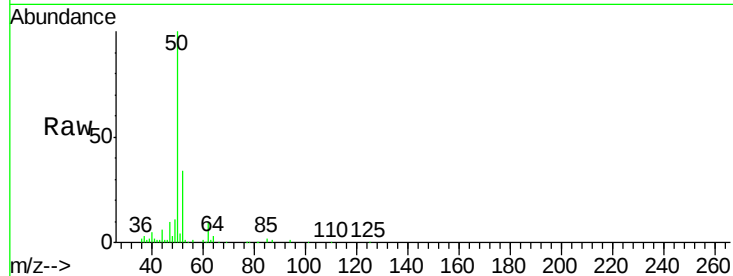
50 100

52 33.9 23.8 35.8

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#4

Vinyl Chloride

Concen: 50.630 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061883.D

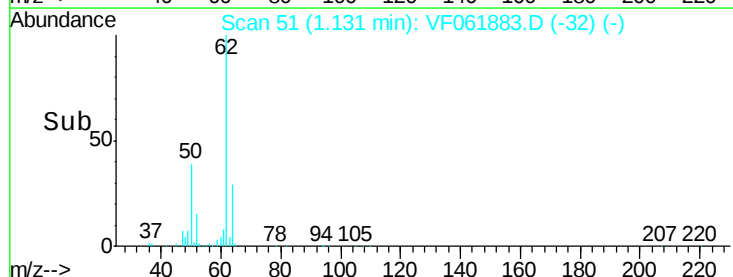
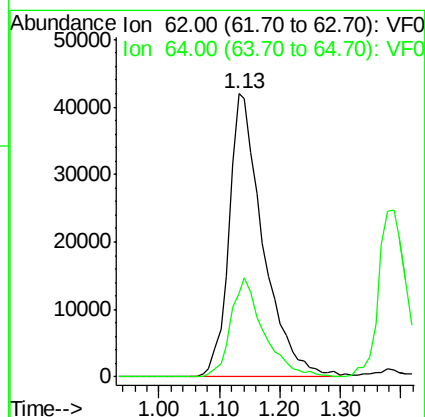
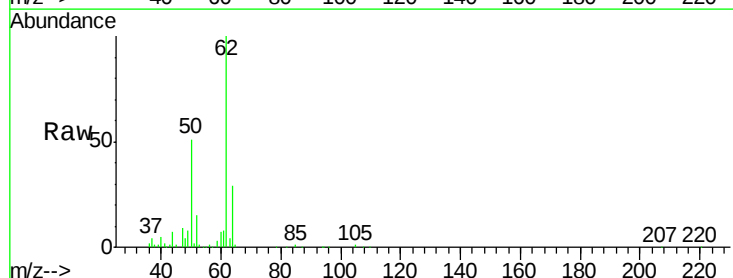
Acq: 11 Mar 2019 11:06

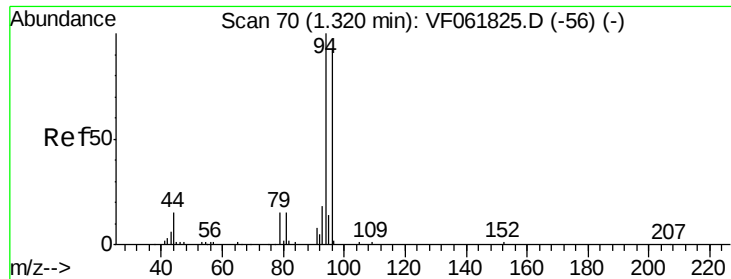
Tgt Ion: 62 Resp: 163841

Ion Ratio Lower Upper

62 100

64 29.5 25.2 37.8





#5

Bromomethane

Concen: 54.339 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 119838

Ion Ratio Lower Upper

94 100

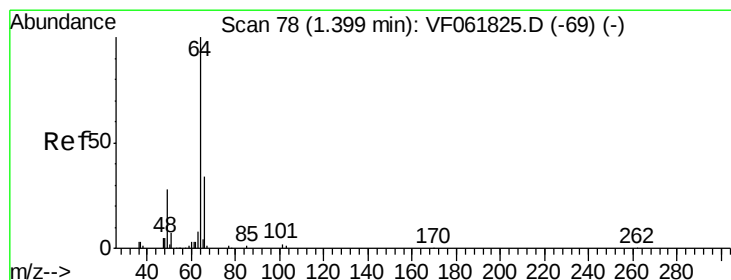
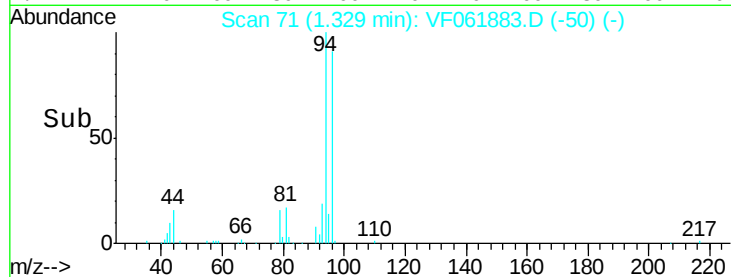
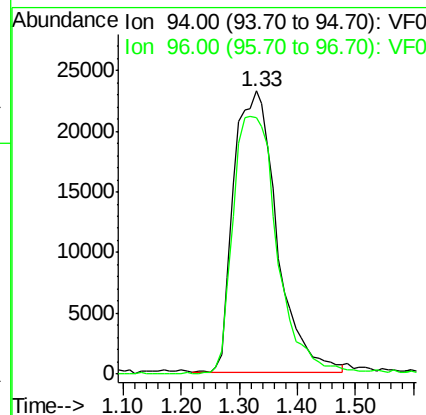
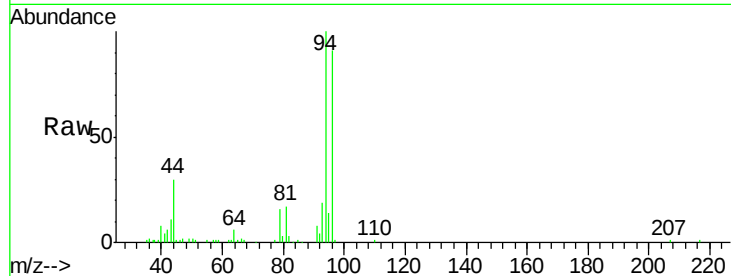
96 90.6 75.2 112.8

Manual Integrations

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#6

Chloroethane

Concen: 53.488 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061883.D

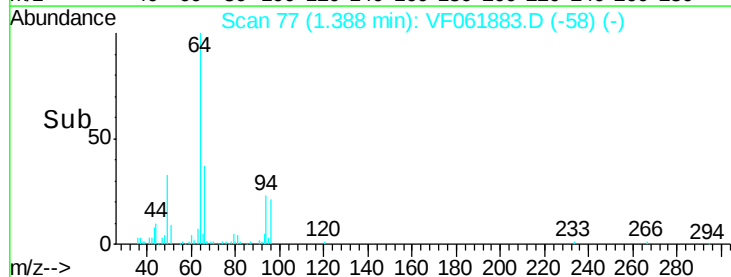
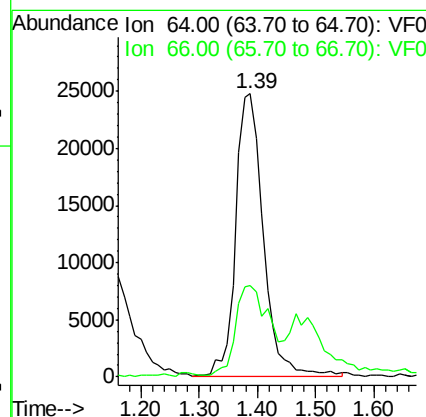
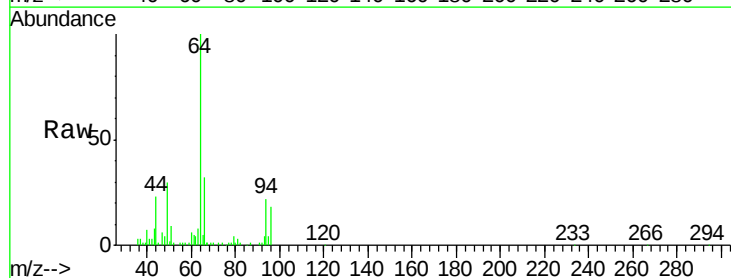
Acq: 11 Mar 2019 11:06

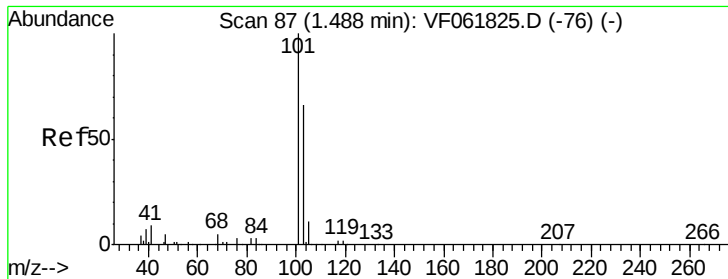
Tgt Ion: 64 Resp: 82277

Ion Ratio Lower Upper

64 100

66 32.4 27.0 40.4





#7

Trichlorofluoromethane

Concen: 54.911 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.01 min

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Tot Ion:101 Resp: 217024

Ion Ratio Lower Upper

101 100

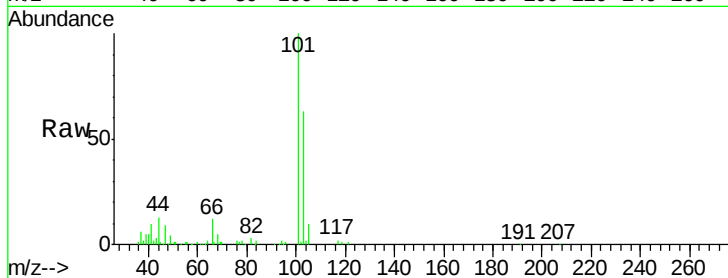
103 62.8 52.8 79.2

Manual Integrations

APPROVED

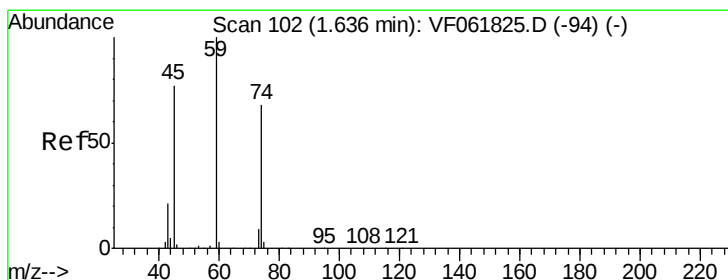
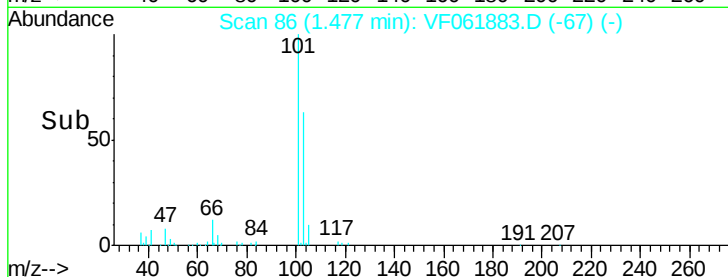
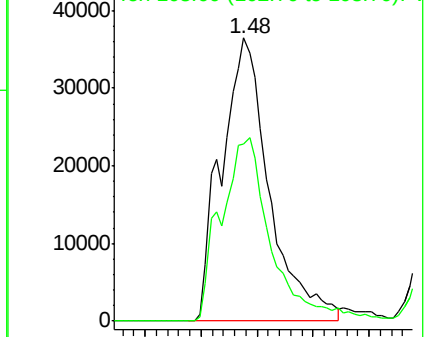
MMDadoda

3/12/2019 4:36:45 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 50.168 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF061883.D

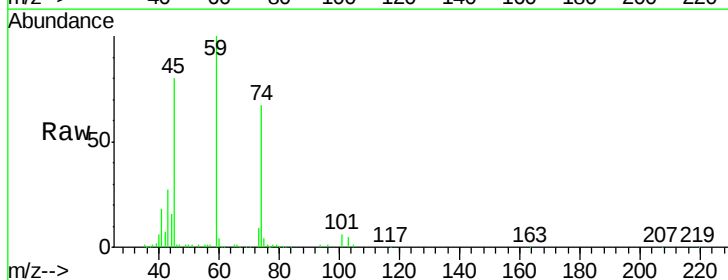
Acq: 11 Mar 2019 11:06

Tgt Ion: 74 Resp: 45089

Ion Ratio Lower Upper

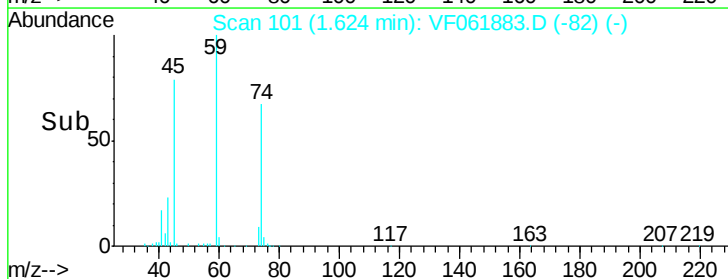
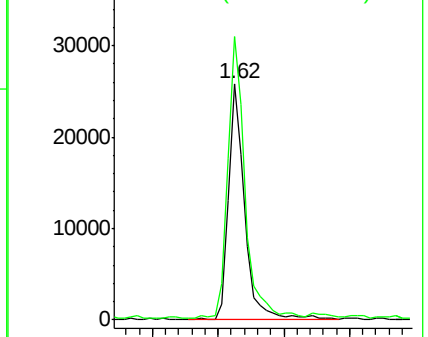
74 100

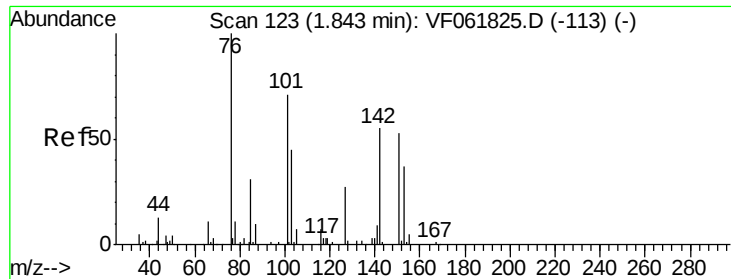
45 119.9 57.2 171.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.927 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061883.D

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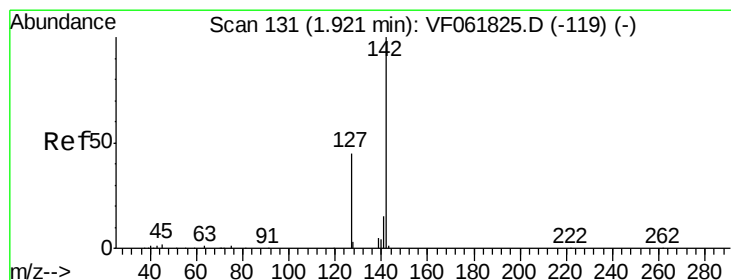
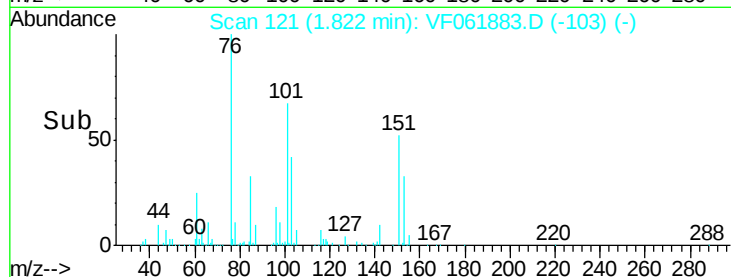
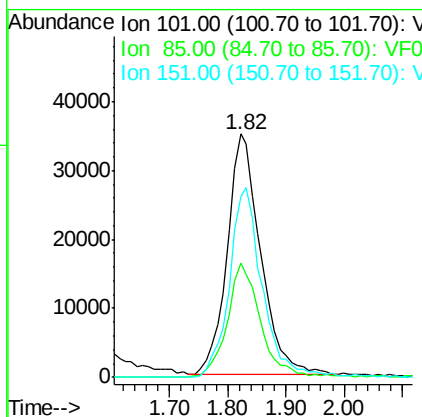
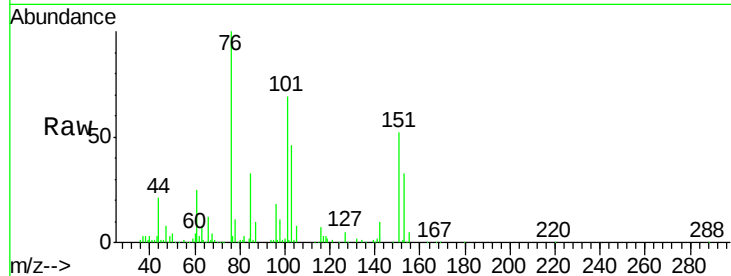
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	139369
Ion Ratio	Lower	Upper	
101	100		
85	47.0	34.0	51.0
151	74.4	57.3	85.9

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#10

Methyl Iodide

Concen: 51.756 ug/l m

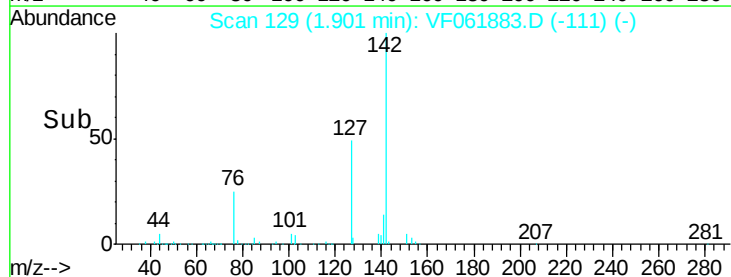
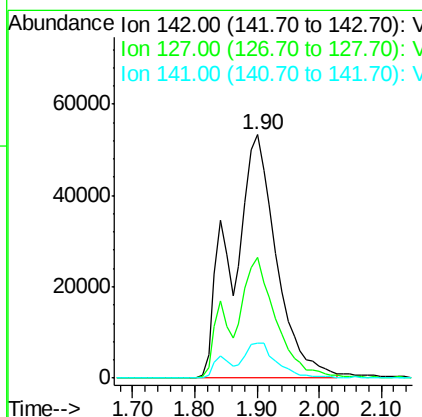
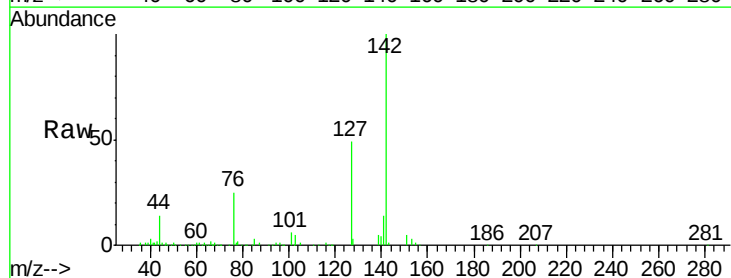
RT: 1.90 min Scan# 129

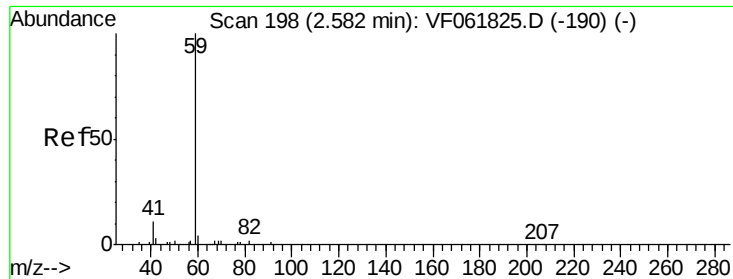
Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	142	Resp:	264342
Ion Ratio	Lower	Upper	
142	100		
127	49.4	35.8	53.6
141	14.4	11.7	17.5





#11

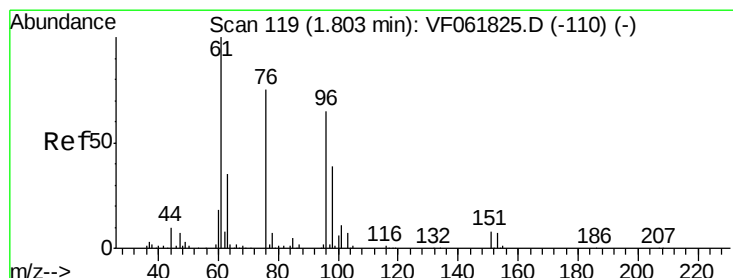
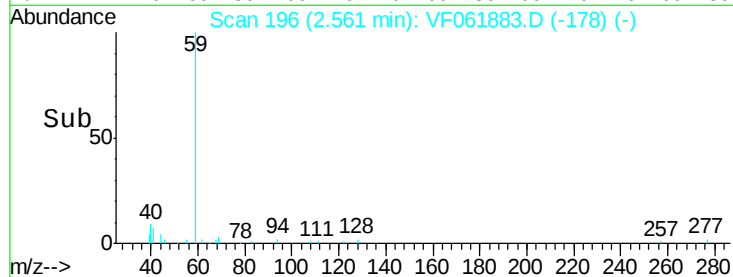
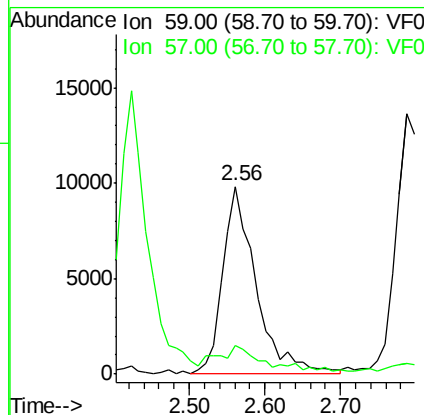
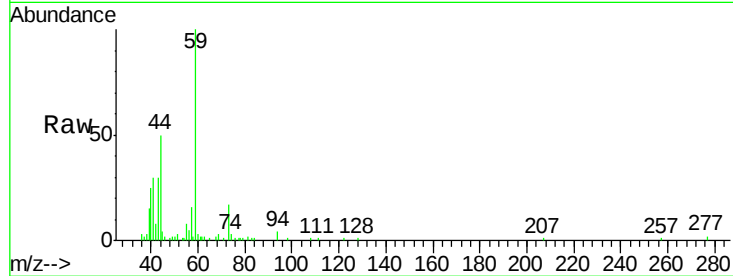
Tert butyl alcohol
Concen: 256.094 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	30328
Ion Ratio	100	Lower	Upper
57	15.5	11.8	17.6

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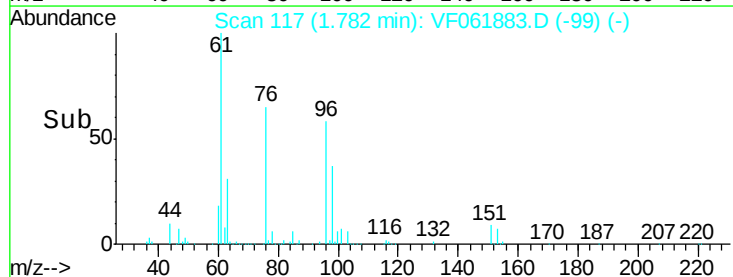
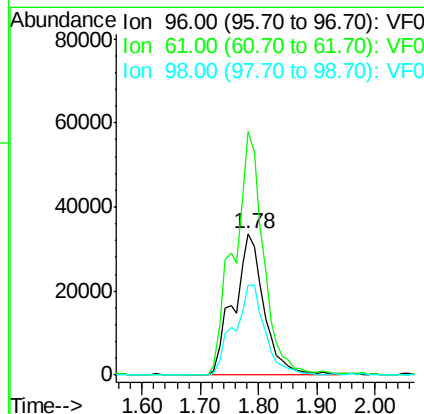
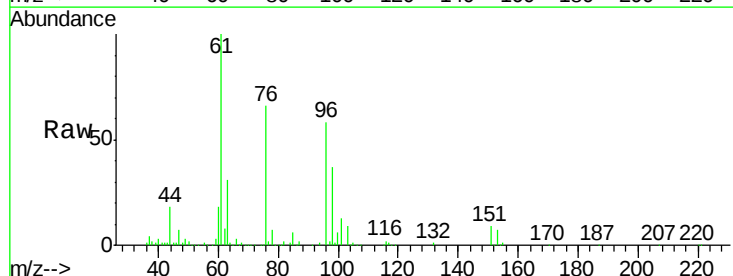
MMDadoda
3/12/2019 4:36:45 PM

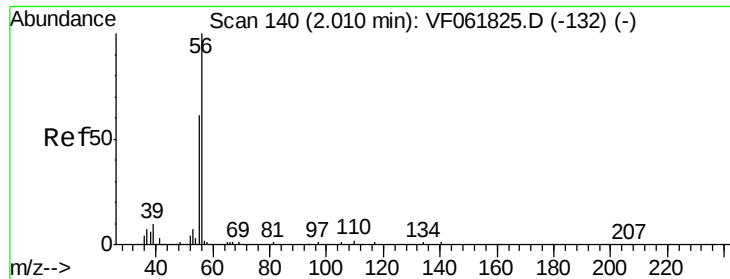


#12

1,1-Dichloroethene
Concen: 49.966 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	96	Resp	122433
Ion Ratio	100	Lower	Upper
61	172.2	122.5	183.7
98	63.4	47.1	70.7





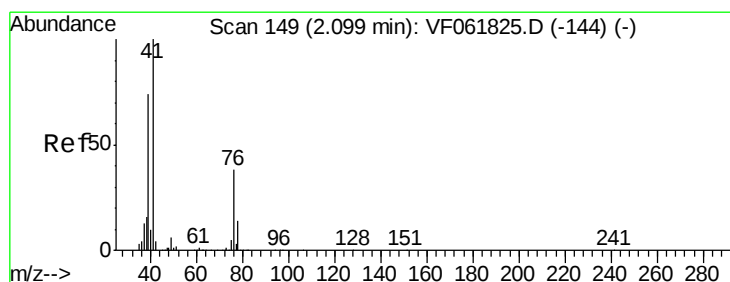
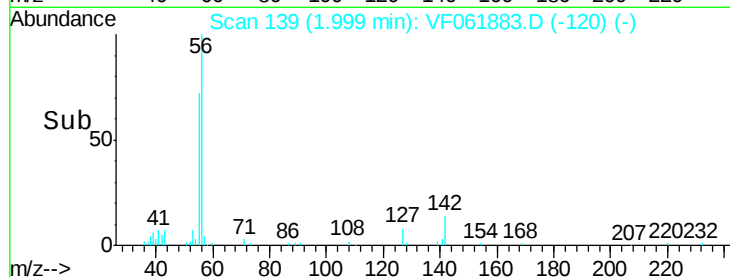
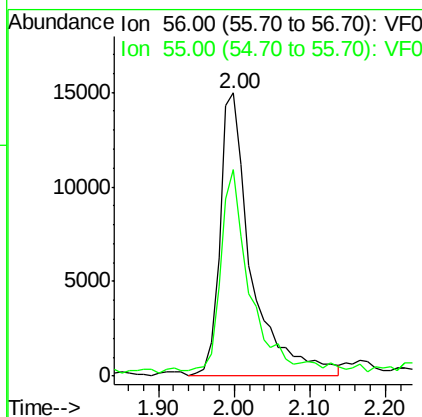
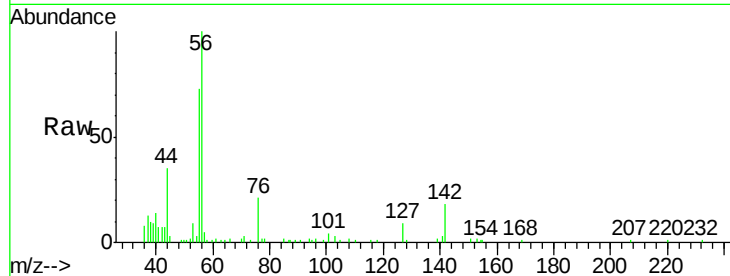
#13
Acrolein
Concen: 287.722 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	56	Resp	43175
Ion Ratio	100	Lower	Upper
55	73.1	51.3	76.9

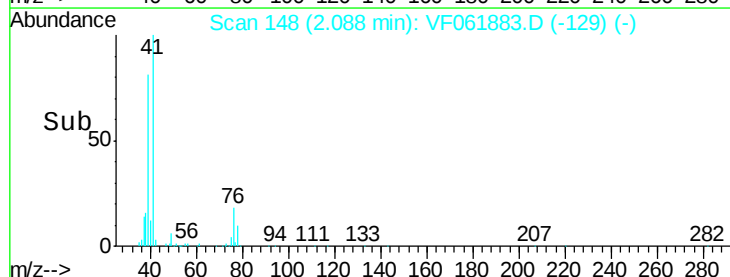
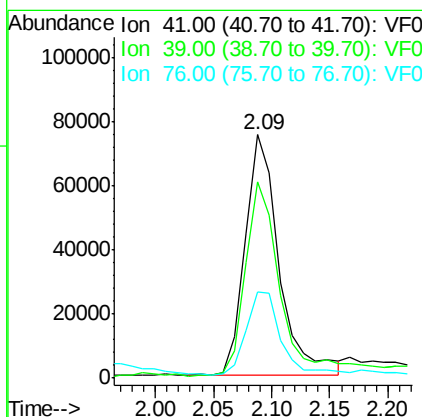
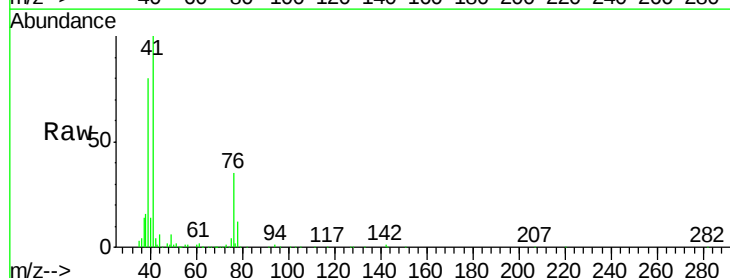
Manual Integrations
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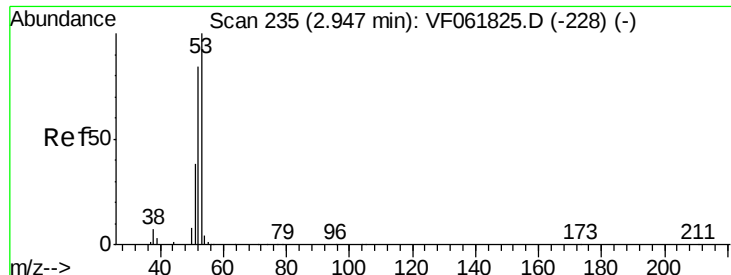
MMDadoda
3/12/2019 4:36:45 PM



#14
Allyl chloride
Concen: 56.288 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	41	Resp	151944
Ion Ratio	100	Lower	Upper
39	80.4	59.6	89.4
76	35.3	32.3	48.5





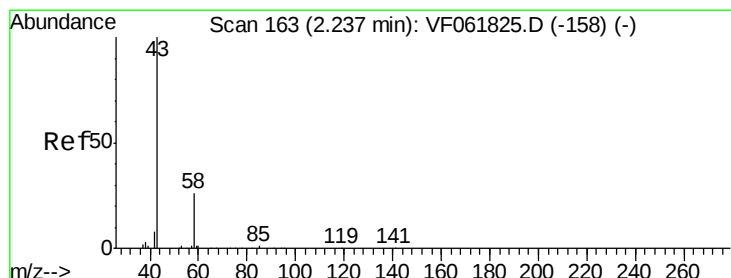
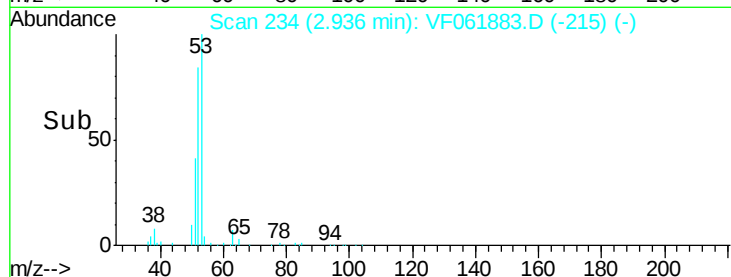
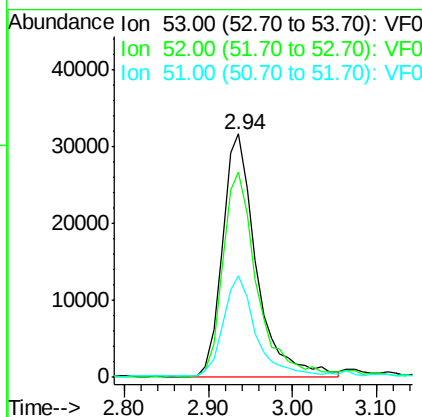
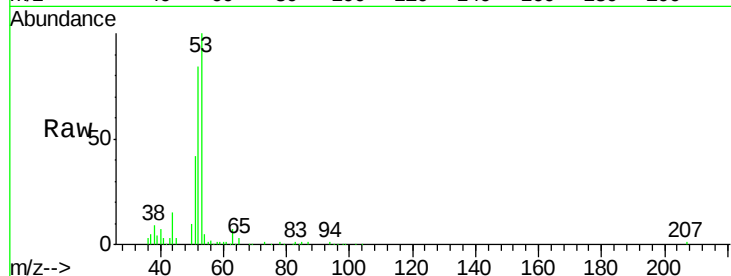
#15
 Acrylonitrile
 Concen: 236.451 ug/l
 RT: 2.94 min Scan# 234
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	84.5	67.4	101.0
51	41.7	30.7	46.1

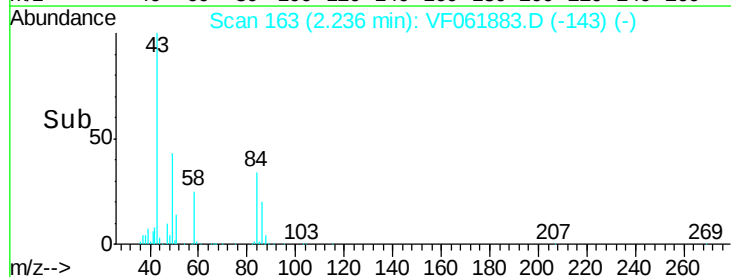
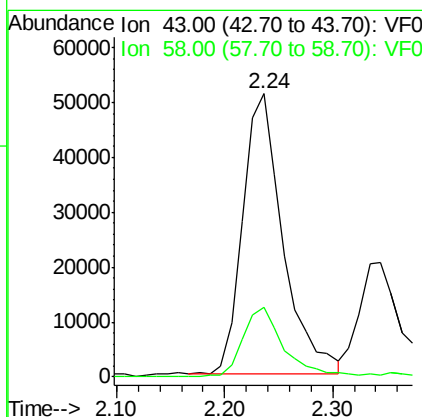
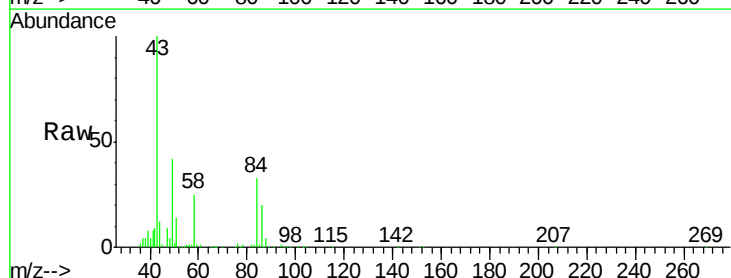
Manual Integrations
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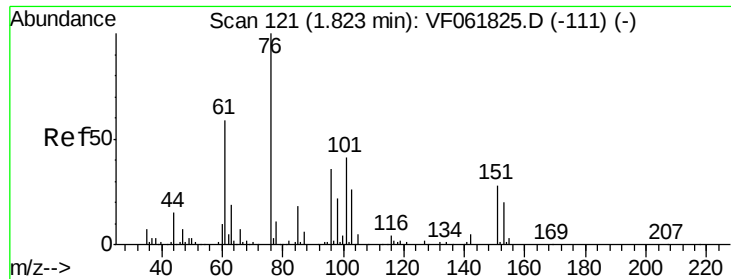
MMDadoda
 3/12/2019 4:36:45 PM



#16
 Acetone
 Concen: 304.756 ug/l
 RT: 2.24 min Scan# 163
 Delta R.T. -0.00 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.6	20.3	30.5





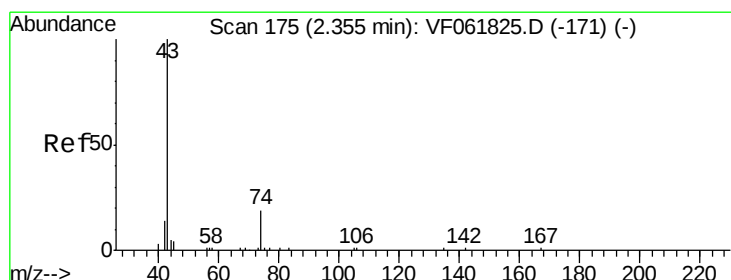
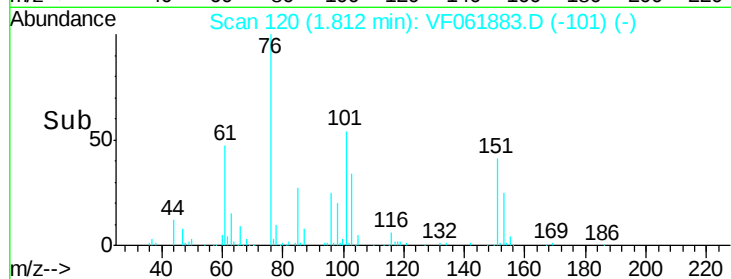
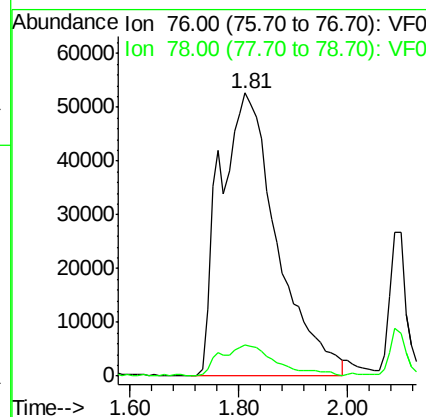
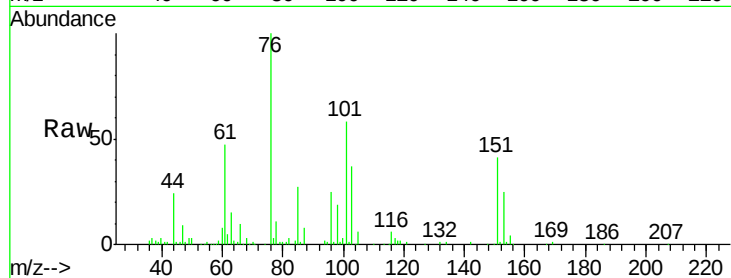
#17
Carbon Disulfide
Concen: 50.585 ug/l m
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 385822
Ion Ratio Lower Upper
76 100
78 11.0 9.1 13.7

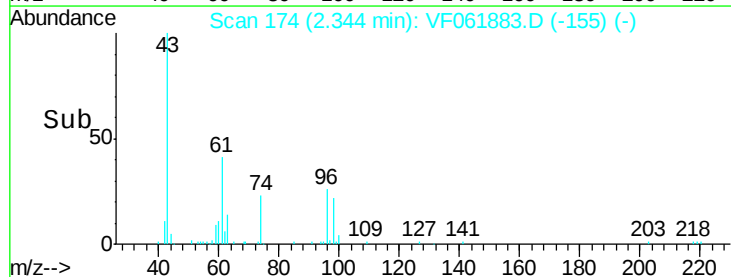
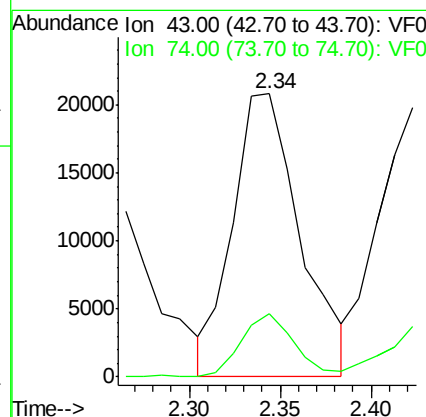
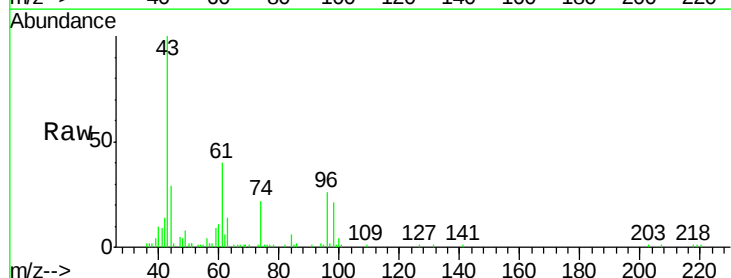
Manual Integrations
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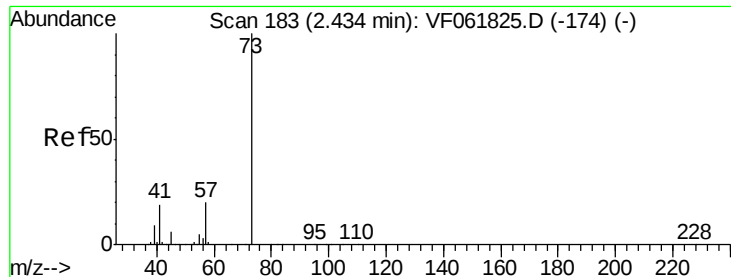
MMDadoda
3/12/2019 4:36:45 PM



#18
Methyl Acetate
Concen: 62.729 ug/l m
RT: 2.34 min Scan# 174
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion: 43 Resp: 53954
Ion Ratio Lower Upper
43 100
74 22.4 13.2 19.8#





#19

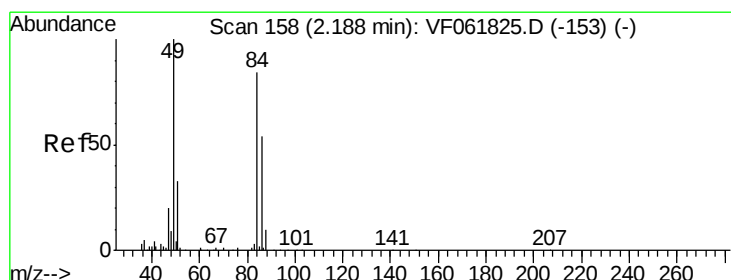
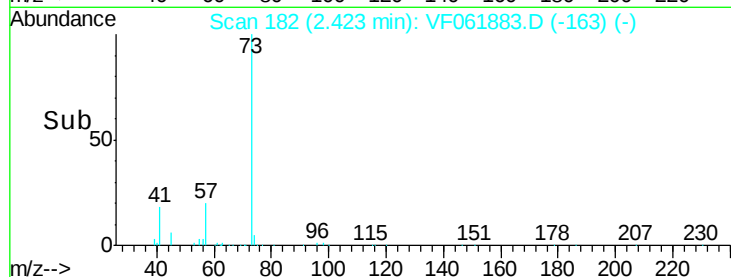
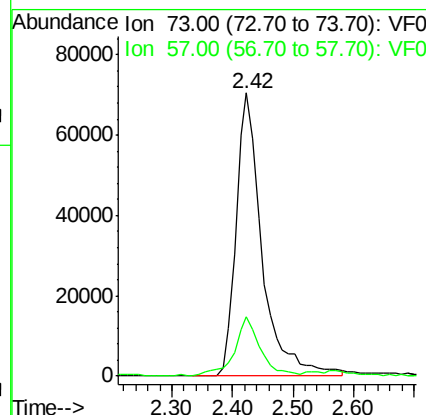
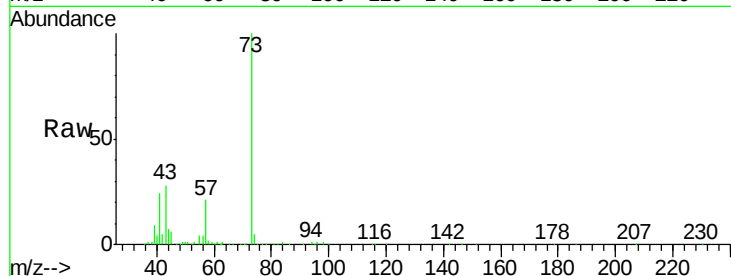
Methyl tert-butyl Ether
 Concen: 50.711 ug/l
 RT: 2.42 min Scan# 182
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.0	16.1	24.1

Manual Integrations
 APPROVED

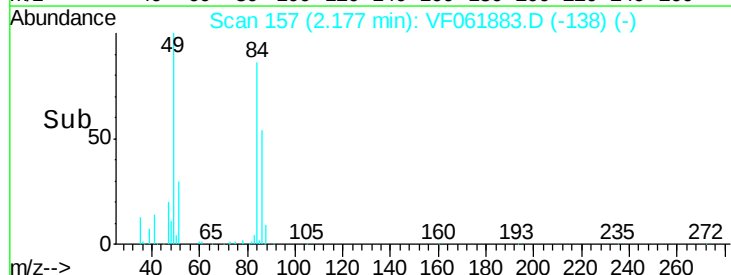
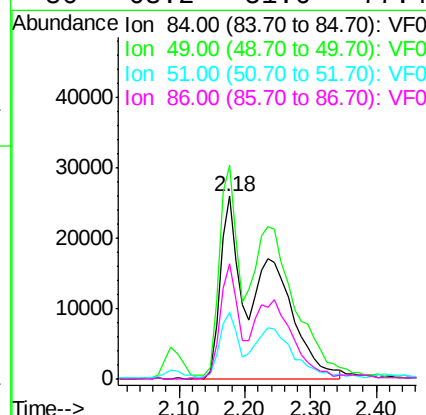
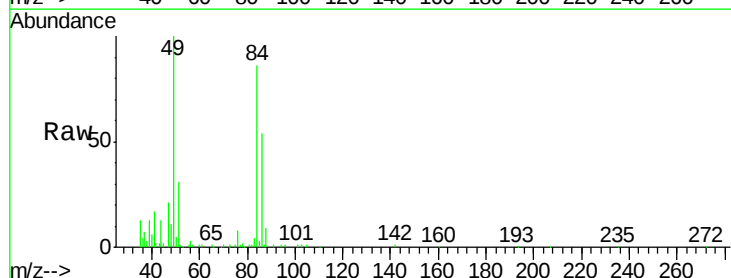
MMDadoda
 3/12/2019 4:36:45 PM

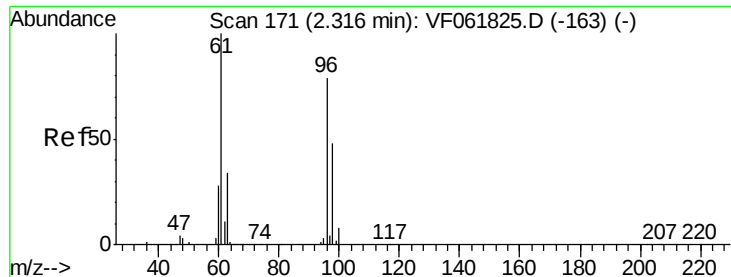


#20

Methylene Chloride
 Concen: 49.922 ug/l m
 RT: 2.18 min Scan# 157
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.7	96.8	145.2
51	36.1	31.8	47.6
86	63.2	51.6	77.4





#21

trans-1,2-Dichloroethene

Concen: 52.643 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

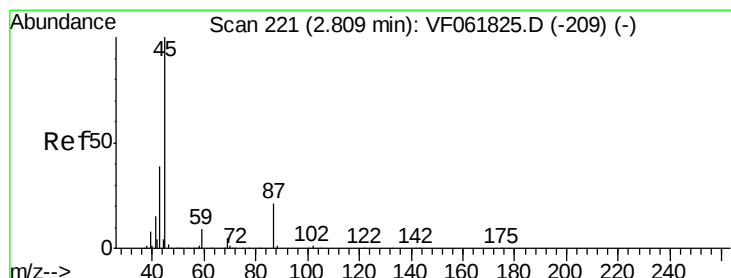
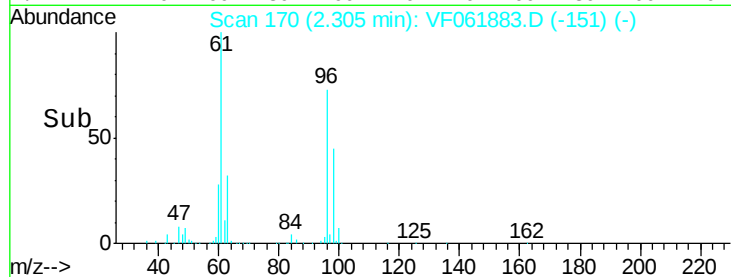
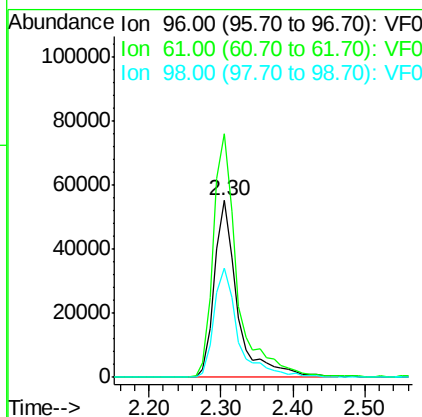
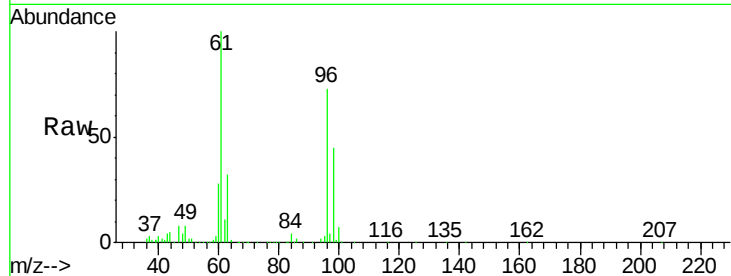
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	121402
Ion	Ratio	Lower	Upper
96	100		
61	137.6	101.0	151.6
98	61.9	48.8	73.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 51.840 ug/l

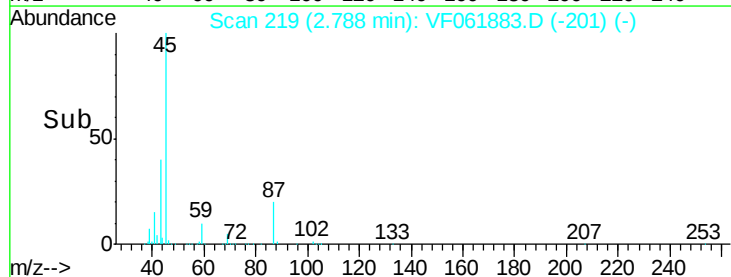
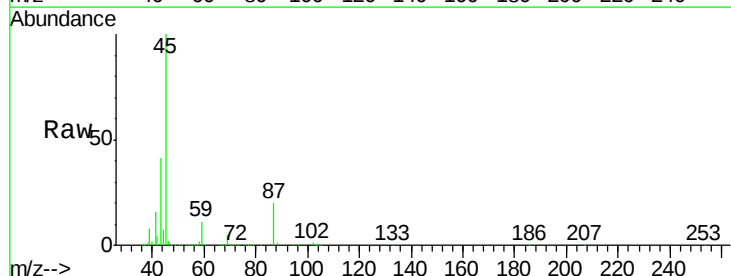
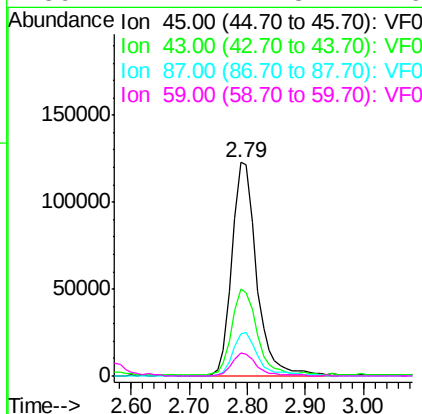
RT: 2.79 min Scan# 219

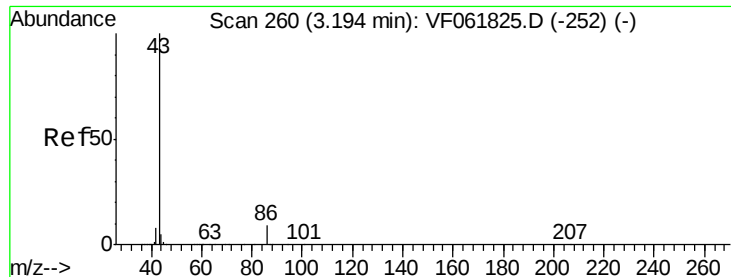
Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	45	Resp:	364013
Ion	Ratio	Lower	Upper
45	100		
43	40.5	31.8	47.8
87	19.9	17.1	25.7
59	11.1	7.8	11.6





#23

Vinyl Acetate

Concen: 235.353 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tot Ion: 43 Resp: 738281

Ion Ratio Lower Upper

43 100

86 8.5 7.0 10.4

Instrument :

MSVOA_F

ClientSampleId :

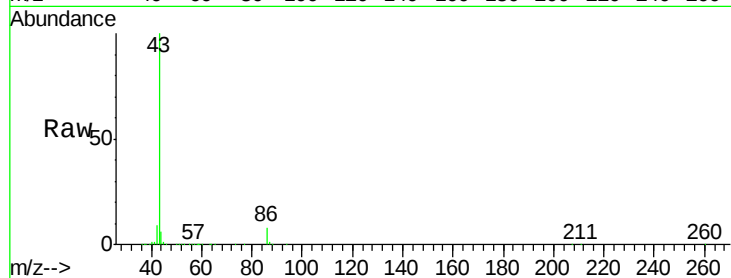
VSTDCCC050

Manual Integrations

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3/12/2019 4:36:45 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

300000

250000

200000

150000

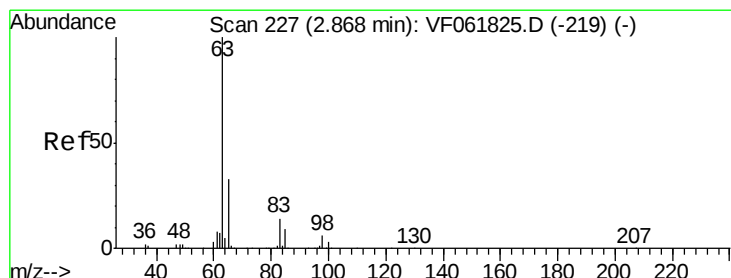
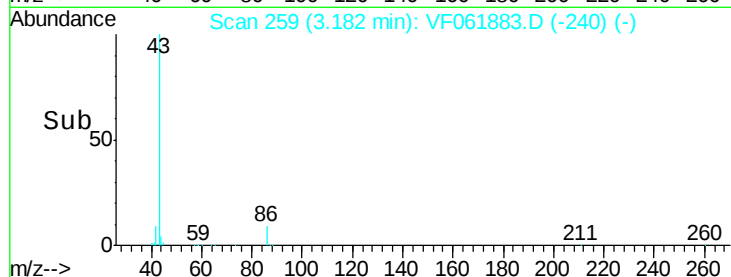
100000

50000

0

Time-->

3.00 3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 50.106 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

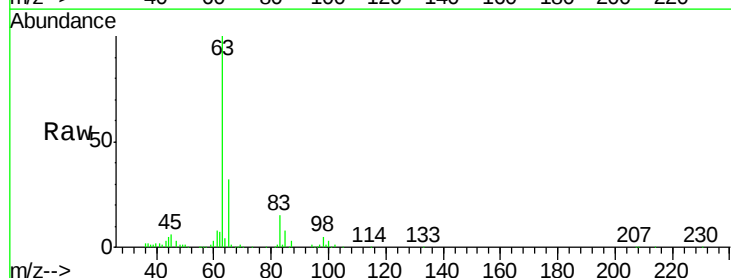
Tgt Ion: 63 Resp: 210299

Ion Ratio Lower Upper

63 100

98 5.3 2.9 8.6

100 3.3 1.8 5.3



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

2.87

100000

80000

60000

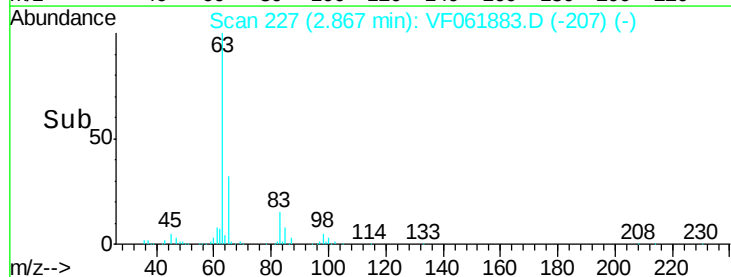
40000

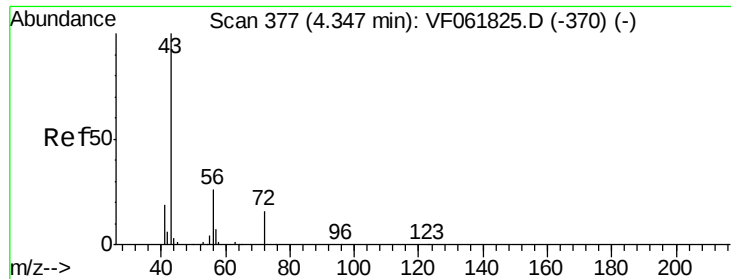
20000

0

Time-->

2.70 2.80 2.90 3.00





#25

2-Butanone

Concen: 249.278 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 221609

Ion Ratio Lower Upper

43 100

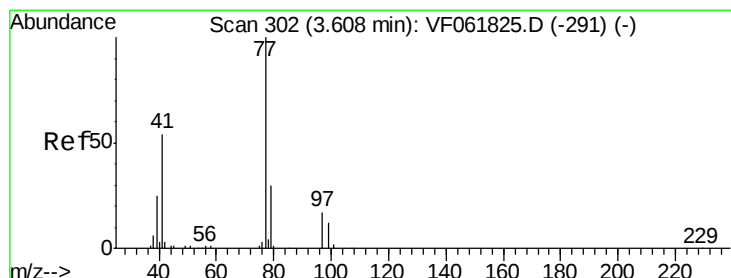
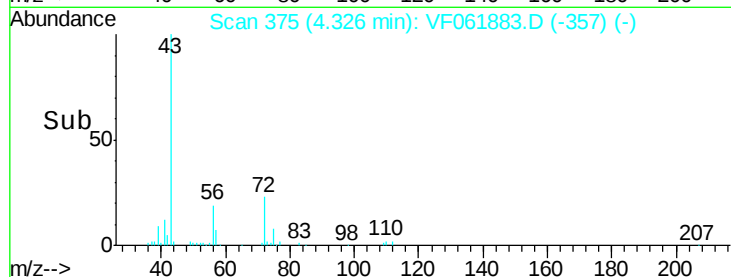
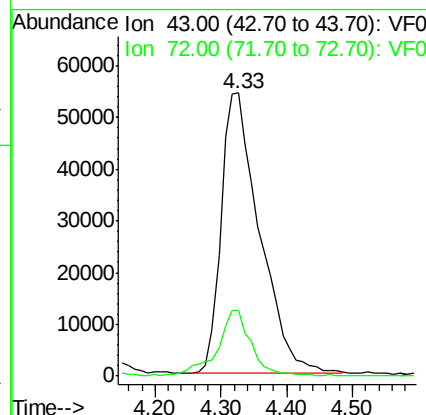
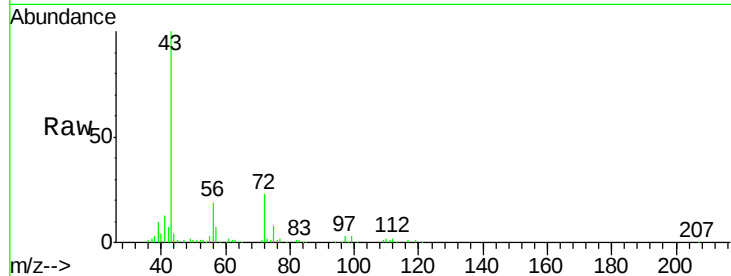
72 23.0 16.2 24.4

Manual Integrations

APPROVED

MMDadoda

3/12/2019 4:36:45 PM



#26

2,2-Dichloropropane

Concen: 53.285 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.02 min

Lab File: VF061883.D

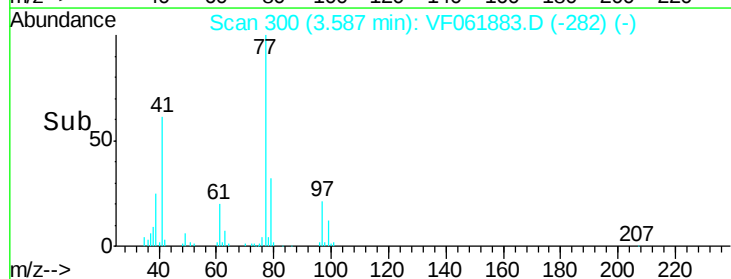
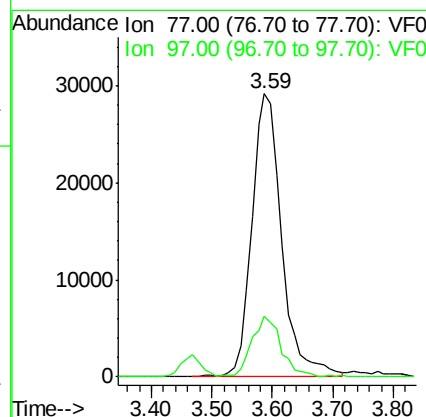
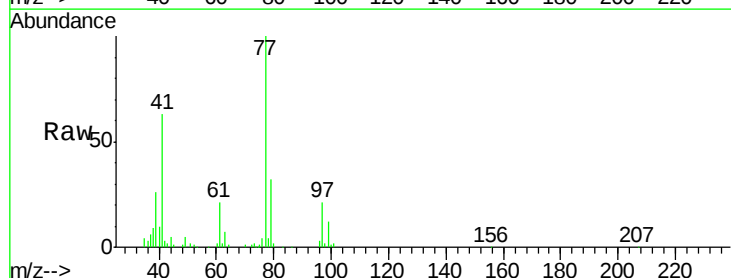
Acq: 11 Mar 2019 11:06

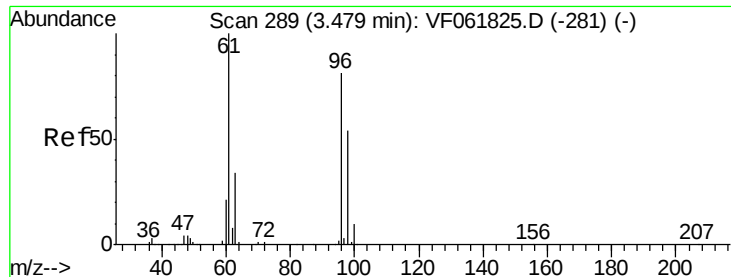
Tgt Ion: 77 Resp: 99836

Ion Ratio Lower Upper

77 100

97 21.4 10.4 31.4





#27

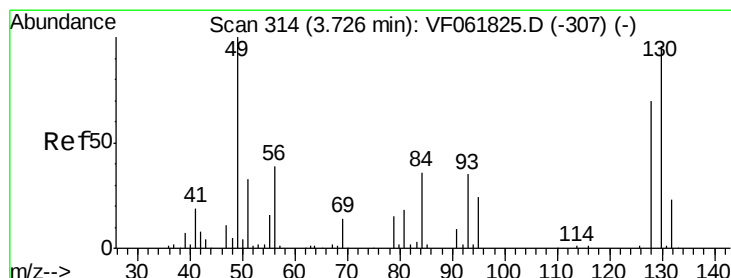
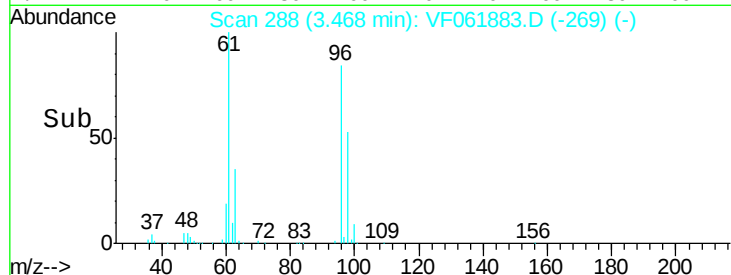
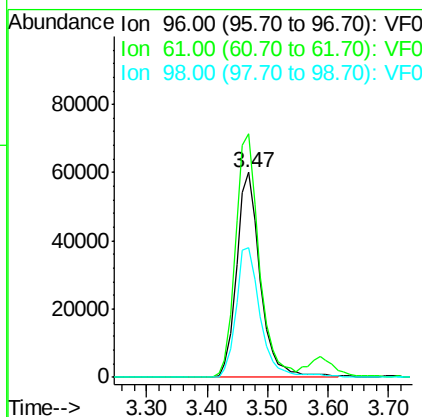
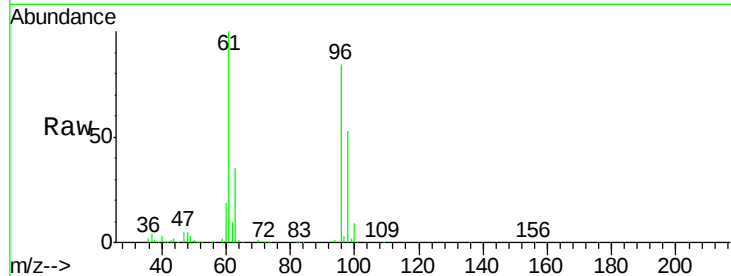
cis-1,2-Dichloroethene
Concen: 51.200 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	163584		
61	119.0	0.0	245.8	
98	63.4	0.0	132.6	

Manual Integrations
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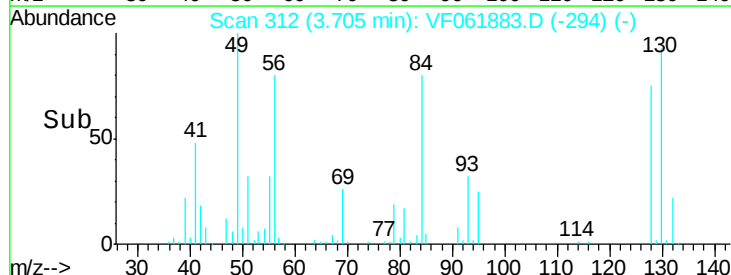
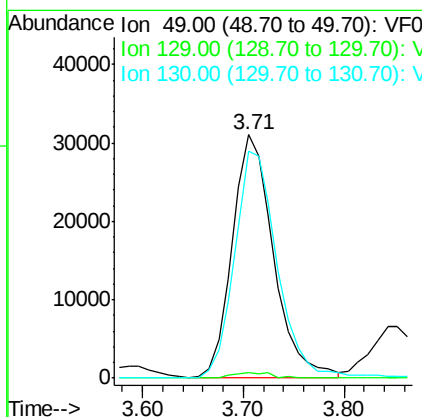
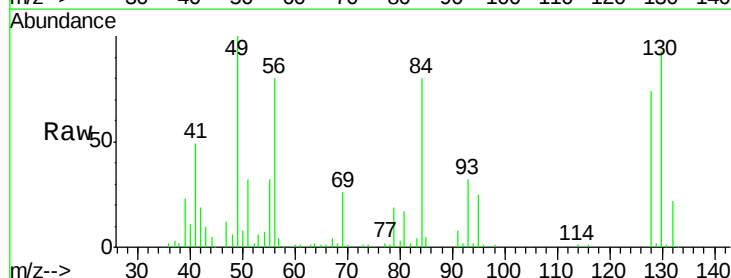
MMDadoda
3/12/2019 4:36:45 PM

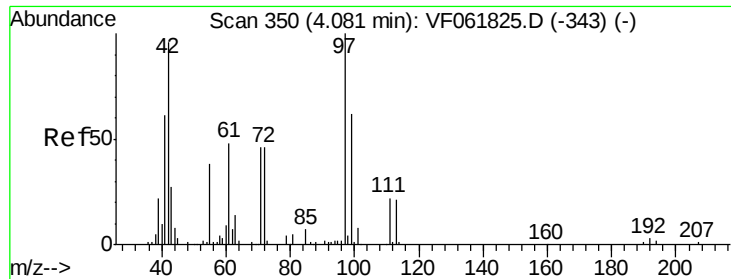


#28

Bromochloromethane
Concen: 47.748 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	87356		
129	2.2	0.0	0.0#	
130	93.5	76.9	115.3	





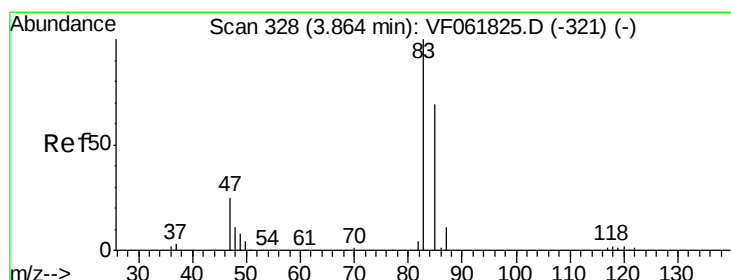
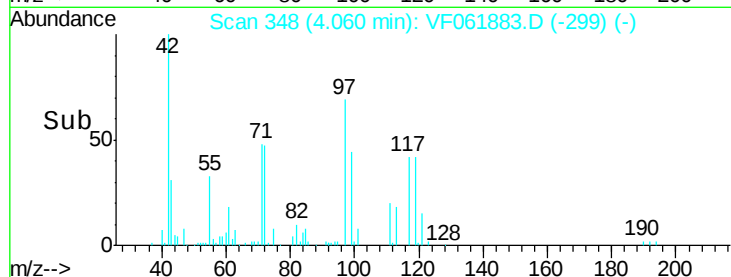
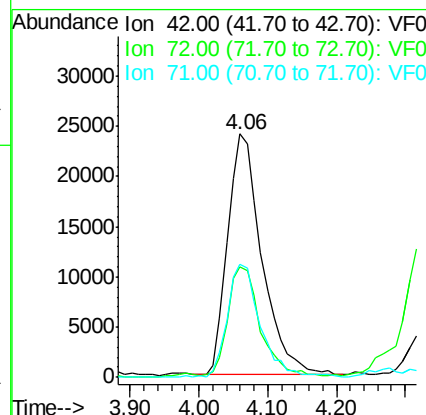
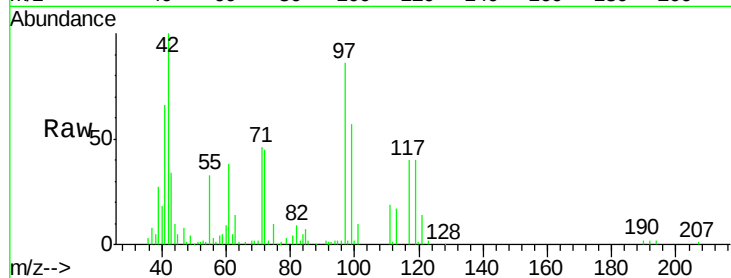
#29
Tetrahydrofuran
Concen: 215.890 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.4	34.4	51.6
71	45.4	34.6	52.0

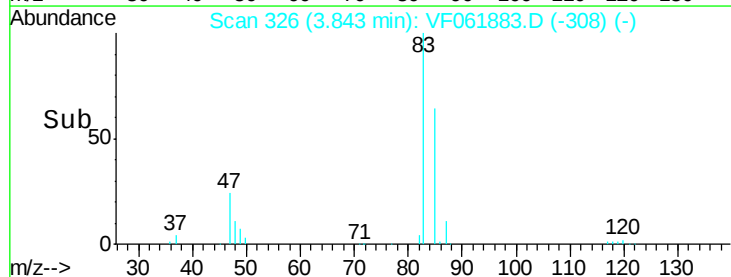
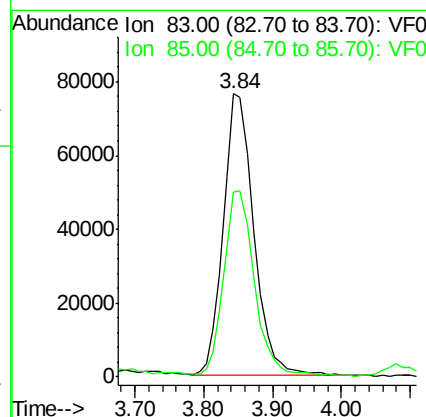
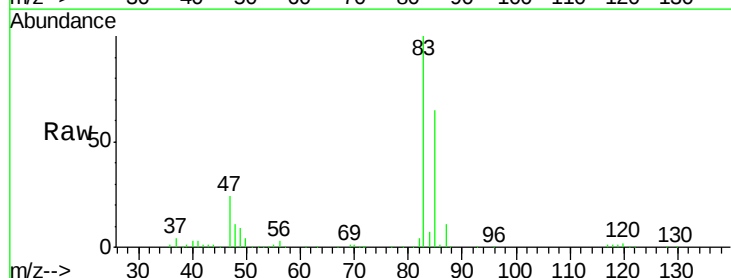
Manual Integrations
APPROVED

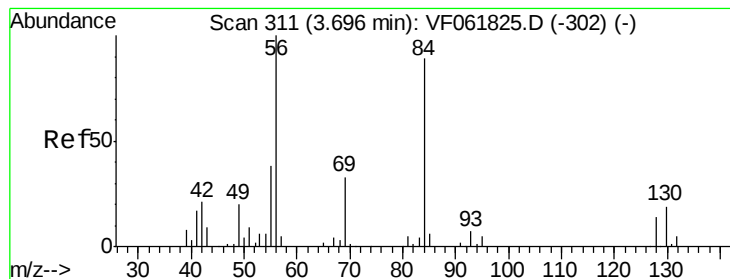
MMDadoda
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#30
Chloroform
Concen: 48.794 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	55.3	82.9





#31

Cyclohexane

Concen: 47.063 ug/l

RT: 3.69 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

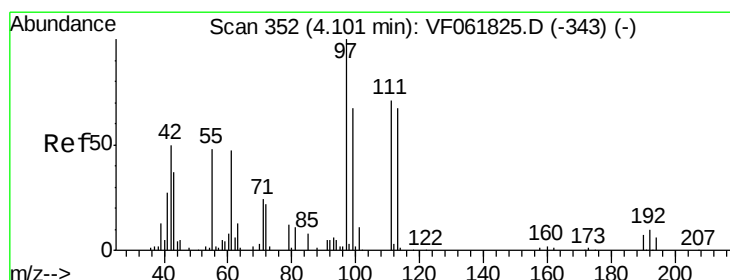
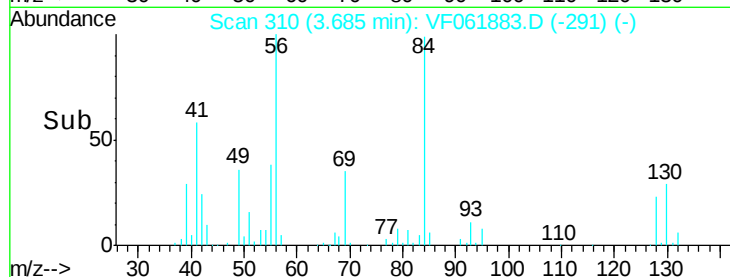
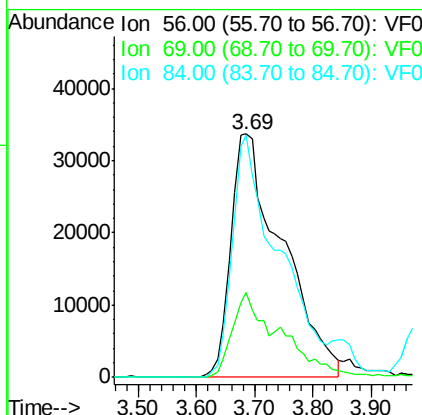
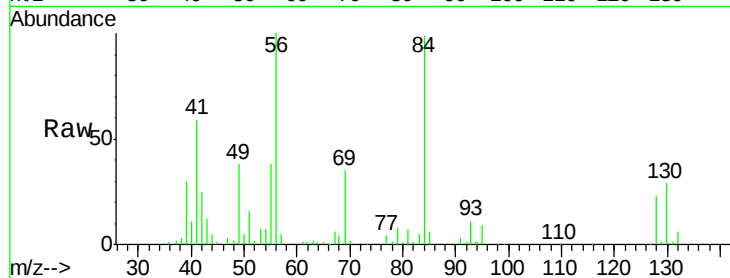
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	206891
Ion Ratio	Lower	Upper	
56	100		
69	34.8	26.0	39.0
84	99.4	71.0	106.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 56.461 ug/l

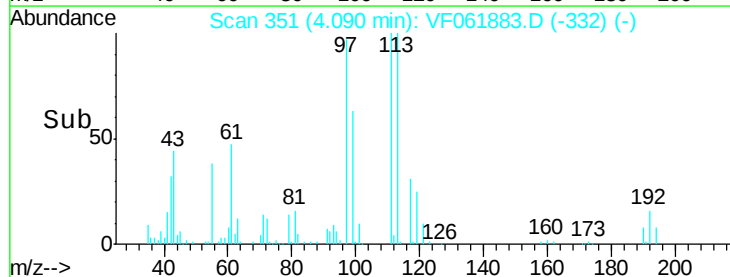
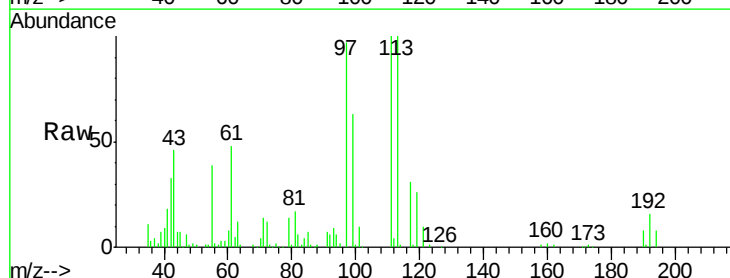
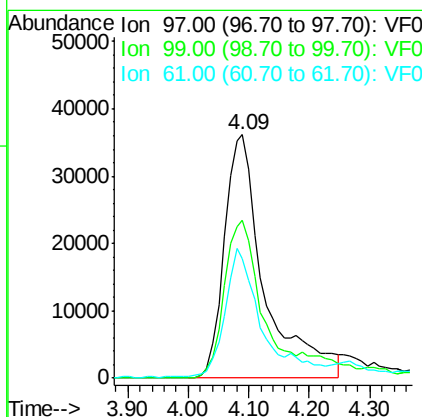
RT: 4.09 min Scan# 351

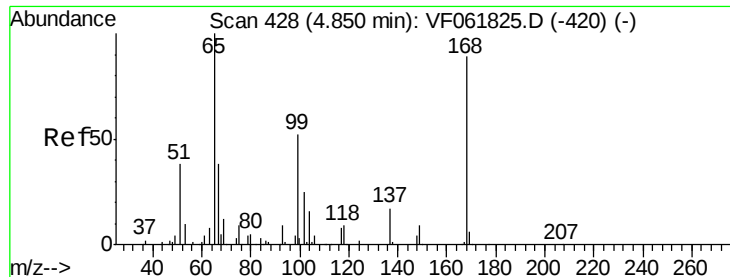
Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	97	Resp:	166838
Ion Ratio	Lower	Upper	
97	100		
99	64.8	53.8	80.8
61	48.9	37.9	56.9





#33

1,2-Dichloroethane-d4

Concen: 55.968 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 116775

Ion Ratio Lower Upper

65 100

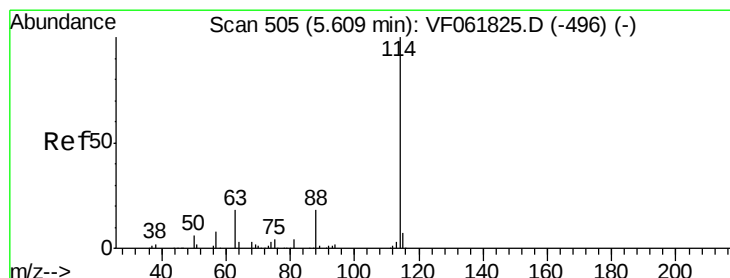
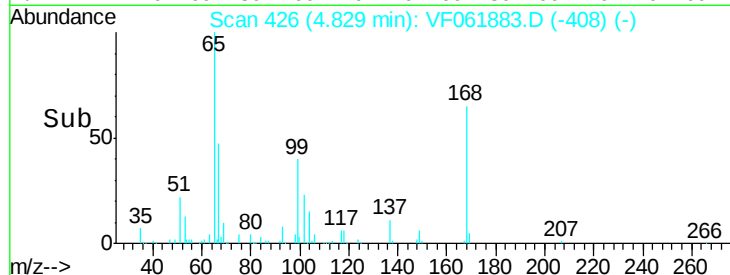
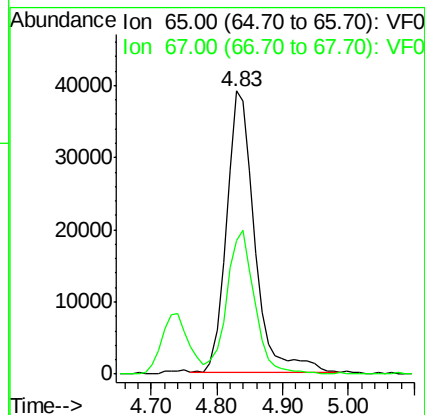
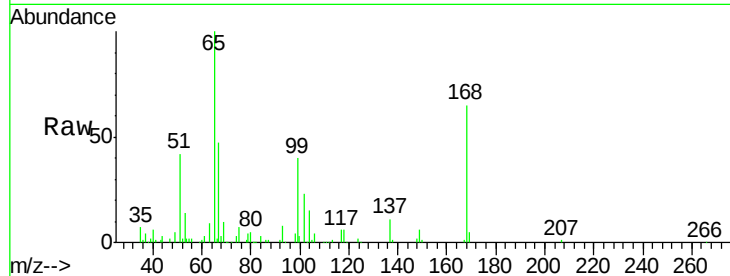
67 47.1 0.0 108.6

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

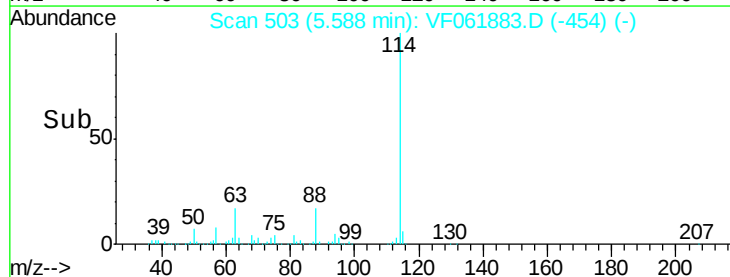
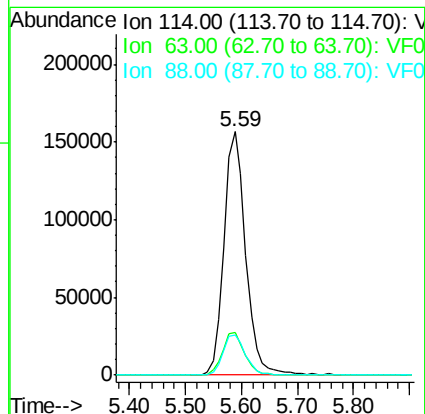
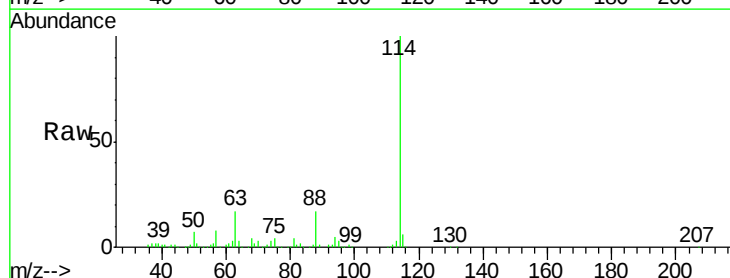
Tgt Ion: 114 Resp: 422803

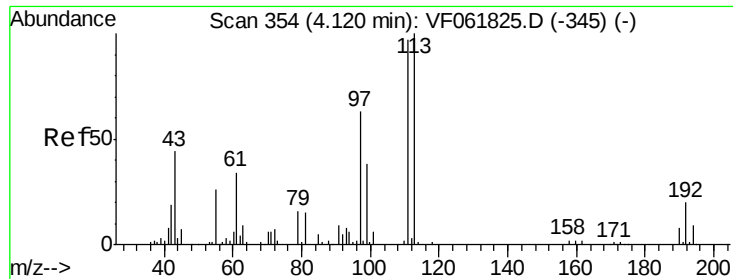
Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.6

88 16.6 0.0 35.6





#35

Dibromofluoromethane

Concen: 50.297 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

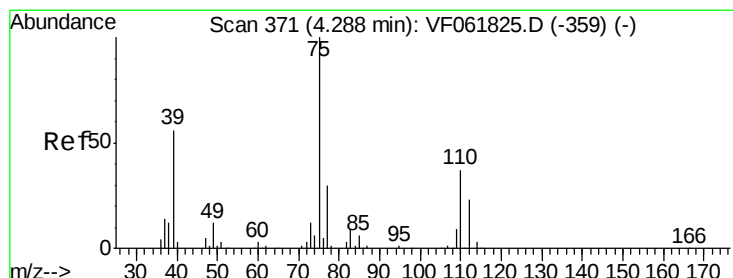
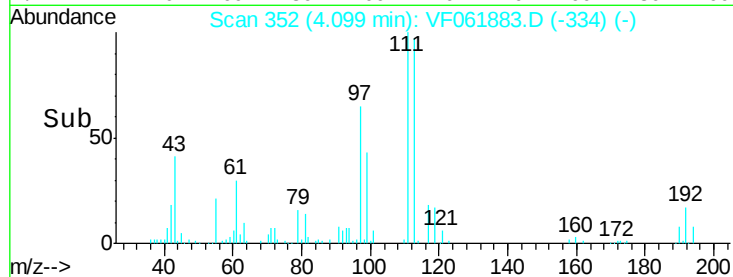
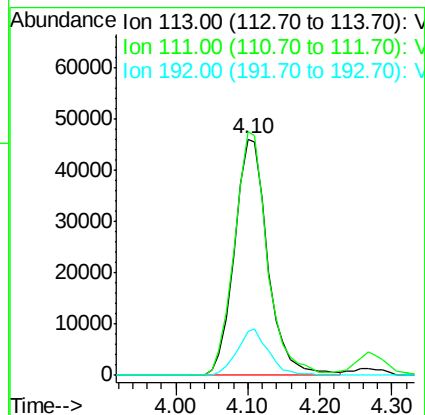
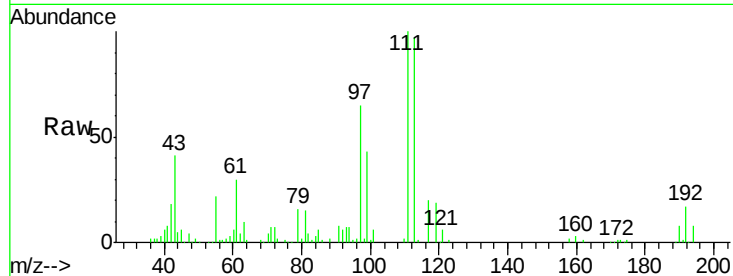
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	148408		
111	103.1	77.6	116.4	
192	18.4	15.9	23.9	

Manual Integrations
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3/12/2019 4:36:45 PM



#36

1,1-Dichloropropene

Concen: 47.978 ug/l

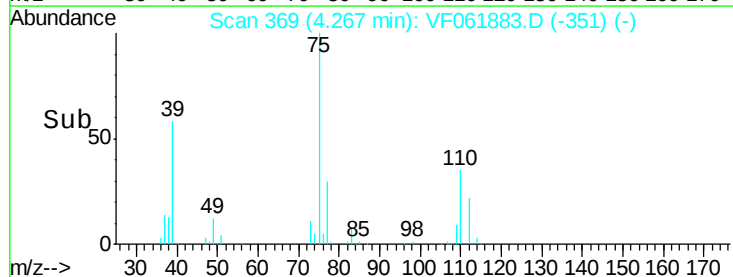
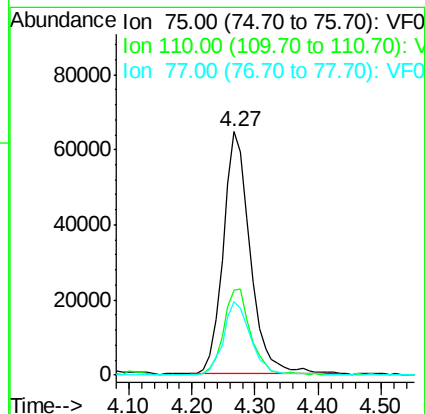
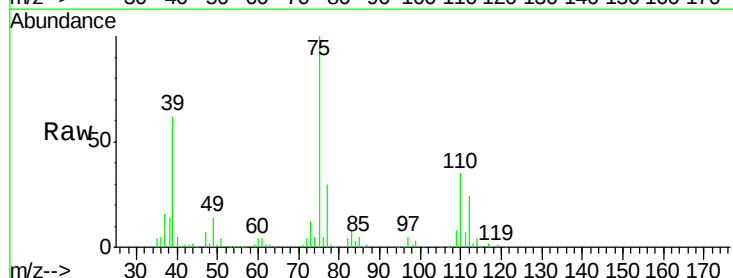
RT: 4.27 min Scan# 369

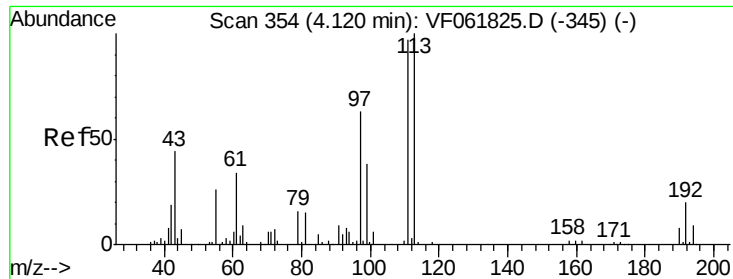
Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	191617		
110	34.9	18.6	55.6	
77	30.1	24.2	36.2	





#37

Ethyl Acetate

Concen: 47.767 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

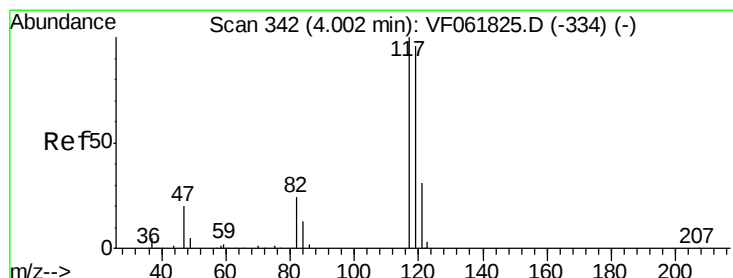
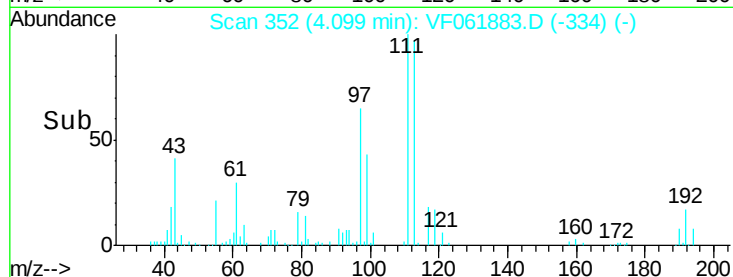
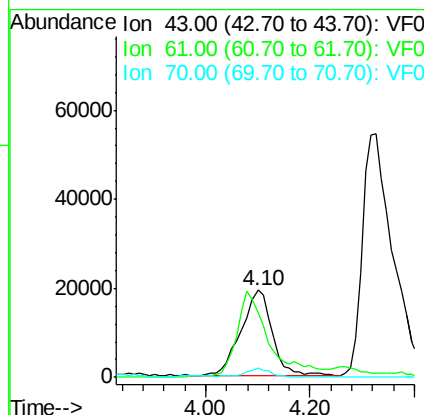
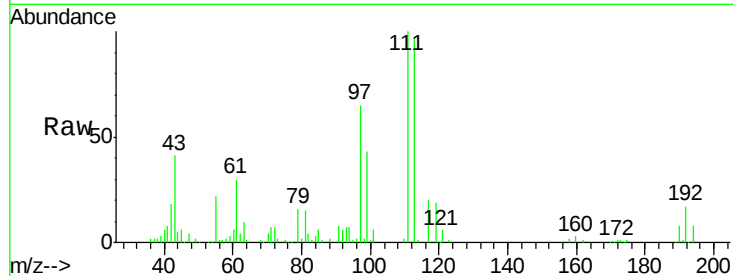
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	80075
Ion	Ratio	Lower	Upper
43	100		
61	73.5	60.7	91.1
70	10.3	10.6	15.8#

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 52.534 ug/l

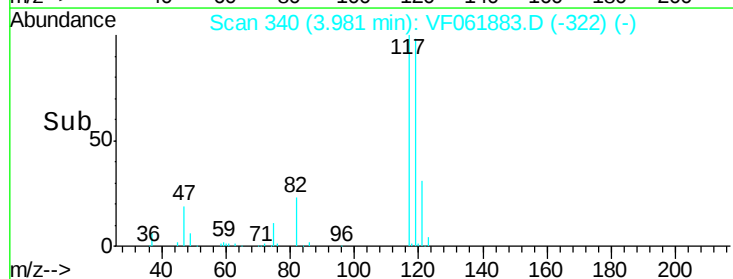
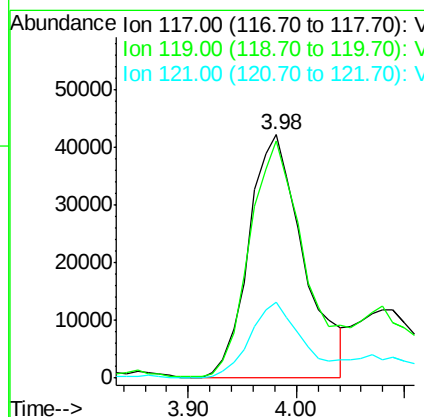
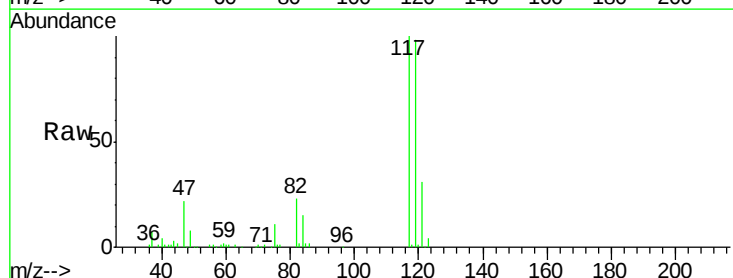
RT: 3.98 min Scan# 340

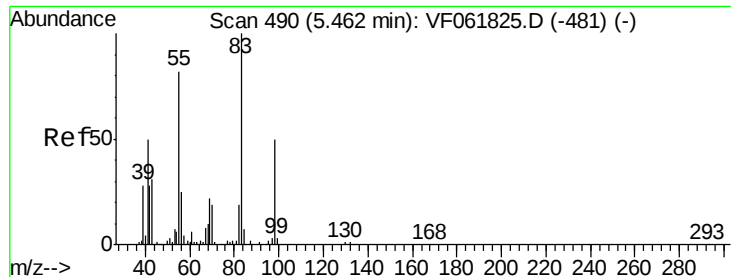
Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	117	Resp:	148526
Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.6	114.8
121	31.6	24.4	36.6





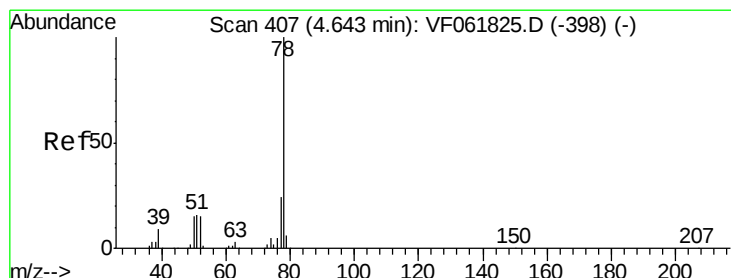
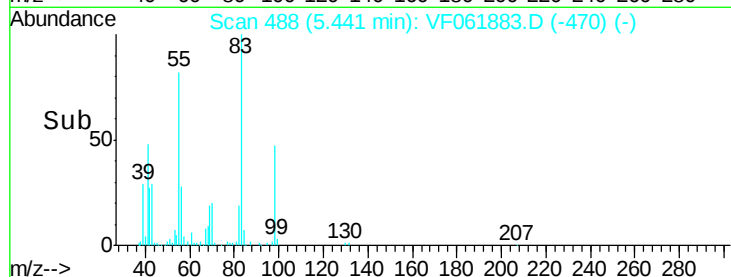
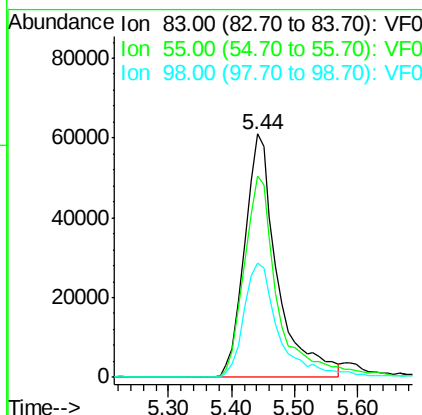
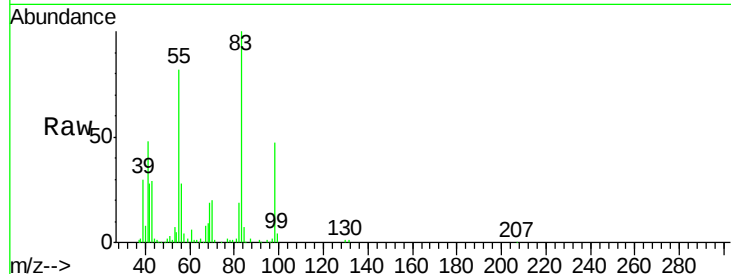
#39
Methvlcvclohexane
Concen: 46.752 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	220546		
55	82.5		66.0	99.0
98	46.8		39.8	59.6

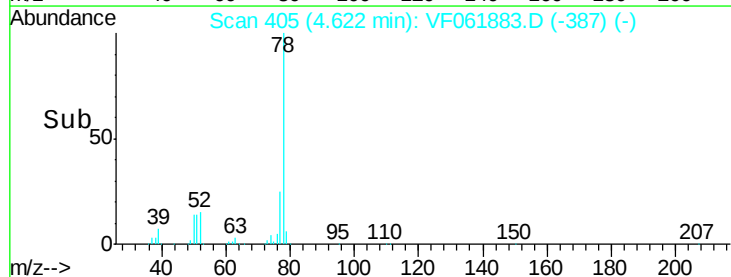
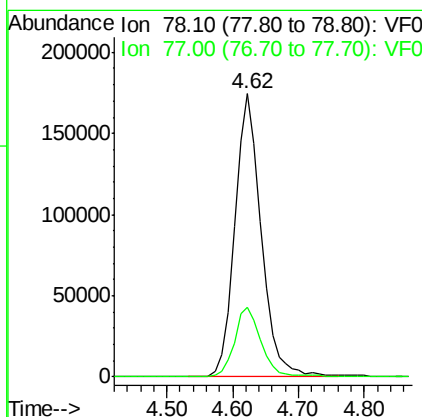
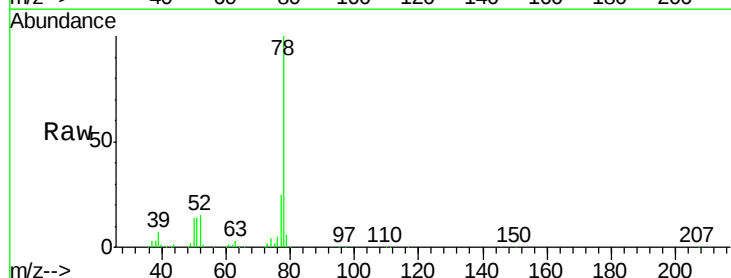
Manual Integrations
APPROVED

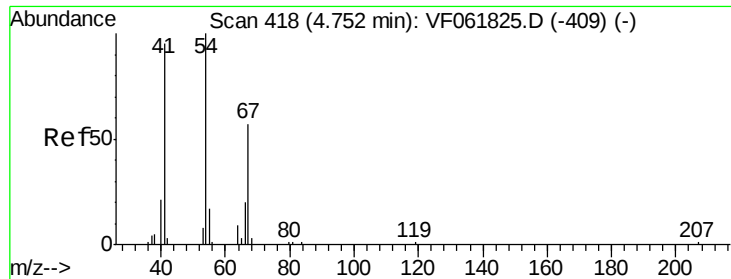
MMDadoda
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#40
Benzene
Concen: 47.105 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	491756		
77	24.8		19.5	29.3





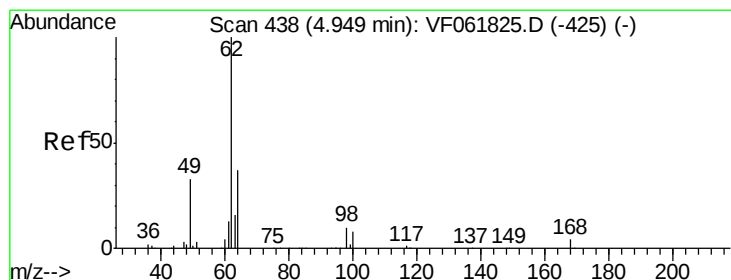
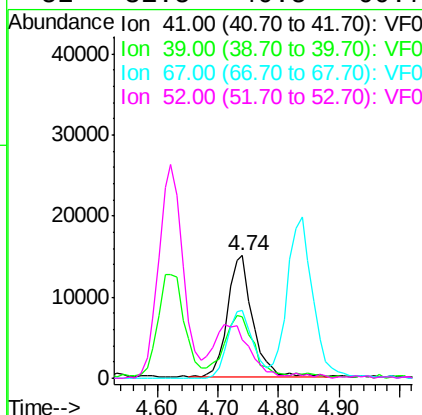
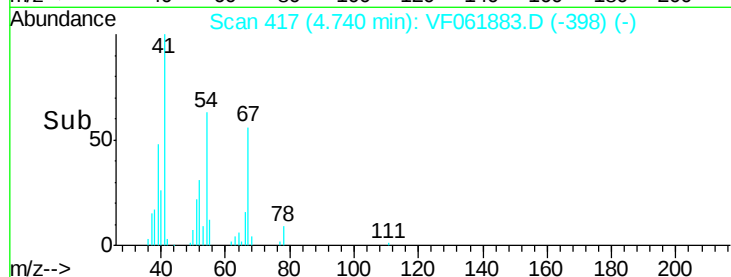
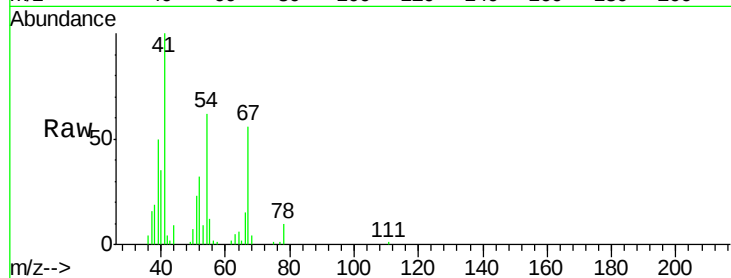
#41
Methacrylonitrile
Concen: 46.653 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	50.0	43.0	64.6	
67	55.8	47.8	71.8	
52	31.5	40.5	60.7	

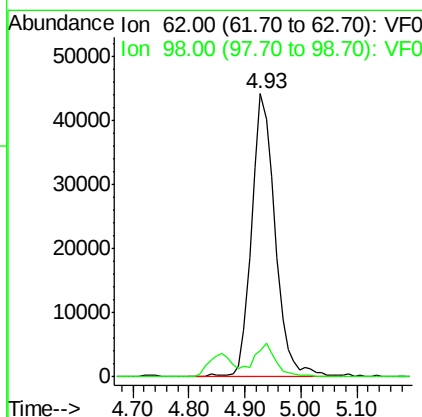
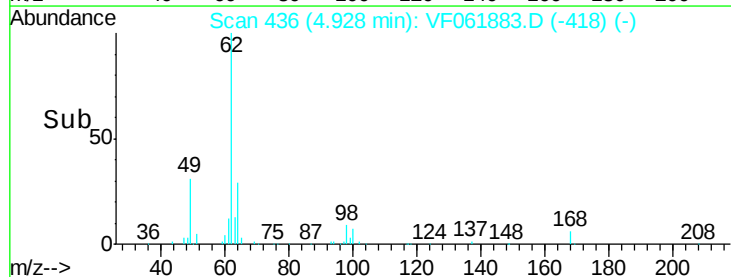
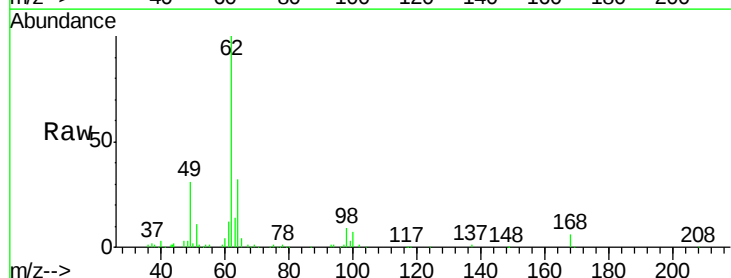
Manual Integrations
APPROVED

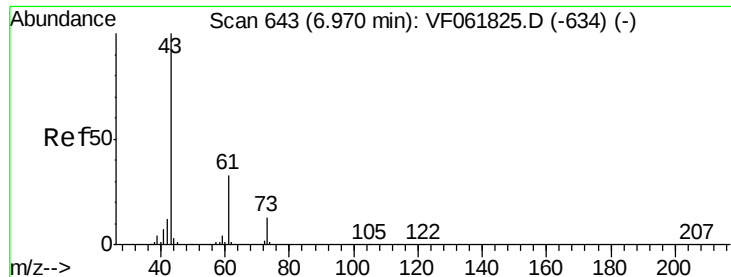
MMDadoda
3/12/2019 4:36:45 PM



#42
1,2-Dichloroethane
Concen: 49.516 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.2	0.0	21.0	





#43

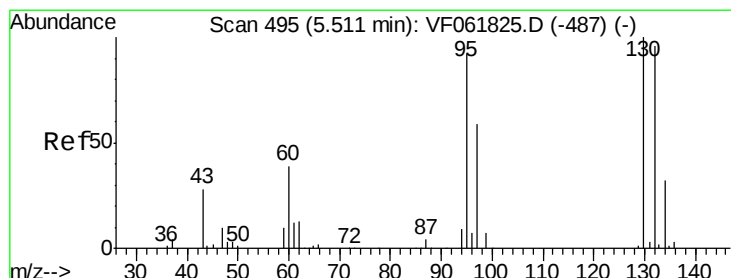
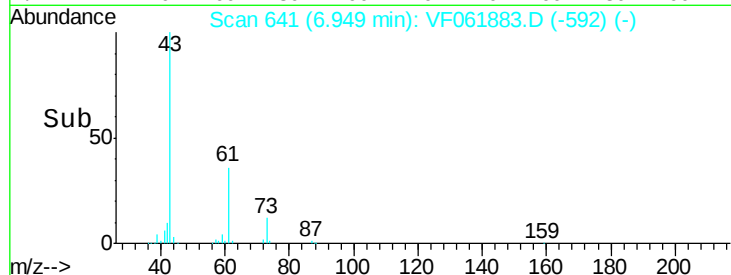
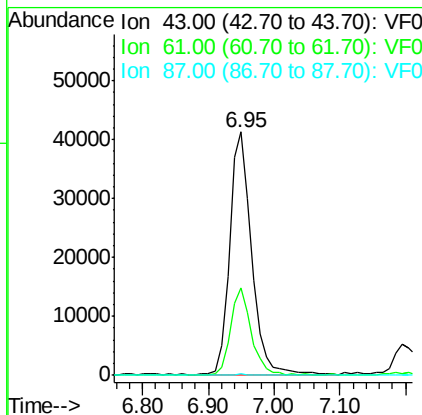
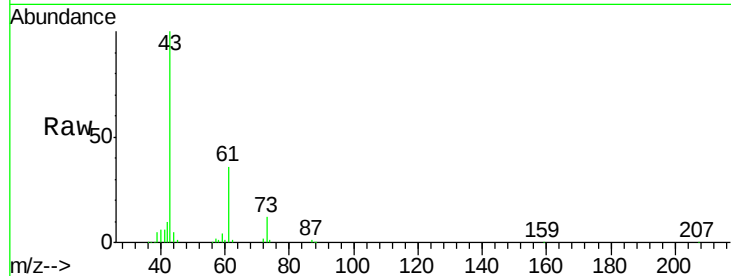
Isopropyl Acetate
 Concen: 46.451 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.02 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.8	26.1	39.1
87	0.6	0.0	0.0

Manual Integrations
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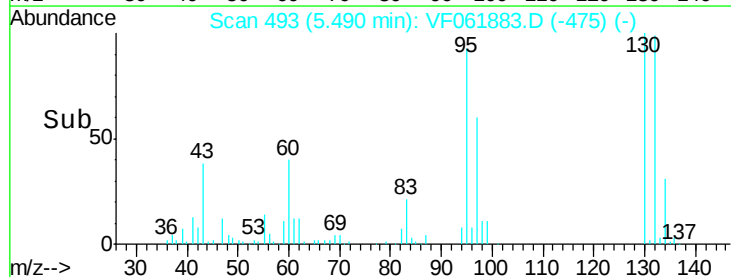
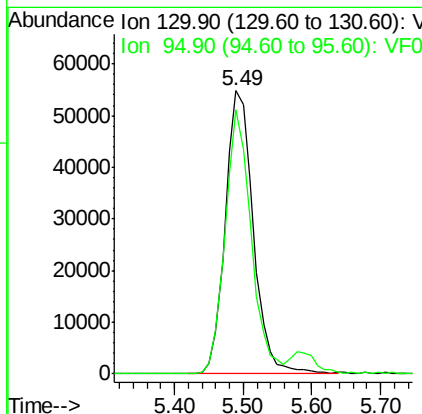
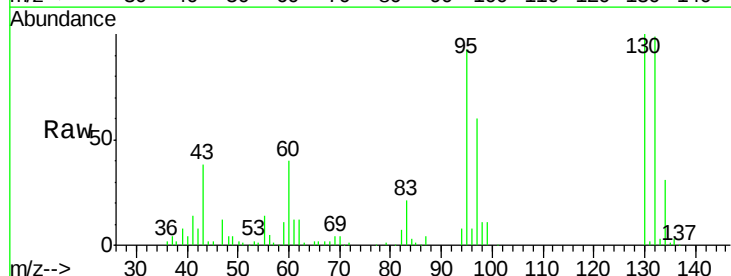
MMDadoda
 3/12/2019 4:36:45 PM

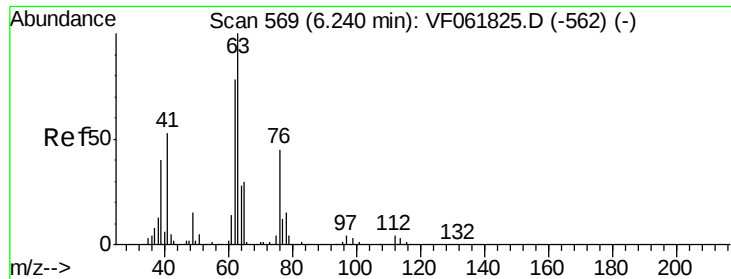


#44

Trichloroethene
 Concen: 47.745 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.02 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.2	0.0	184.0





#45

1,2-Dichloropropane

Concen: 45.024 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 111768

Ion Ratio Lower Upper

63 100

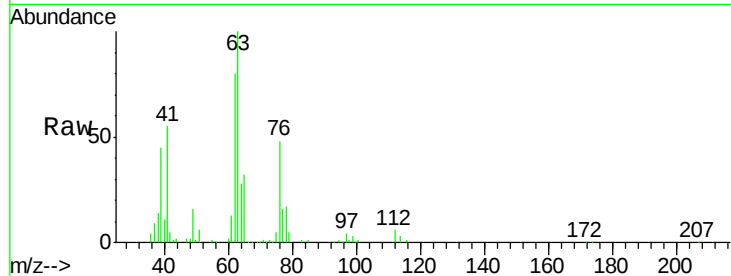
65 31.9 24.0 36.0

Manual Integrations

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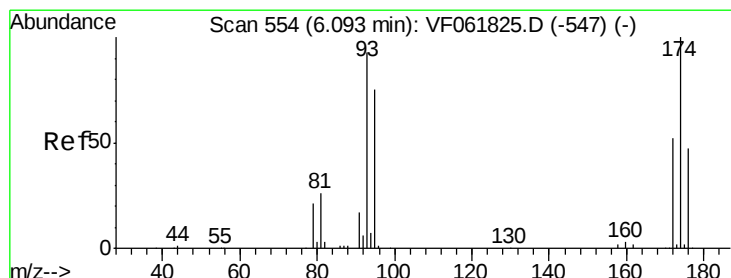
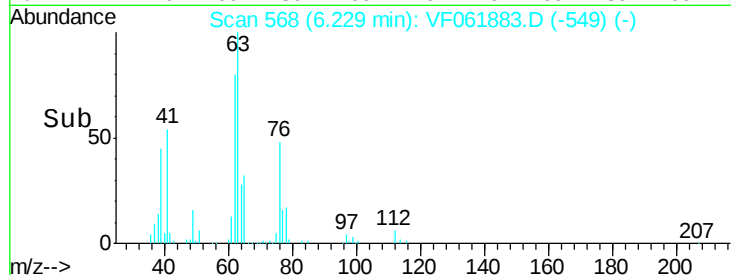
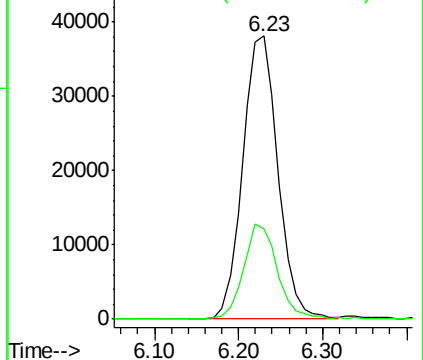
MMDadoda

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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: 48.809 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

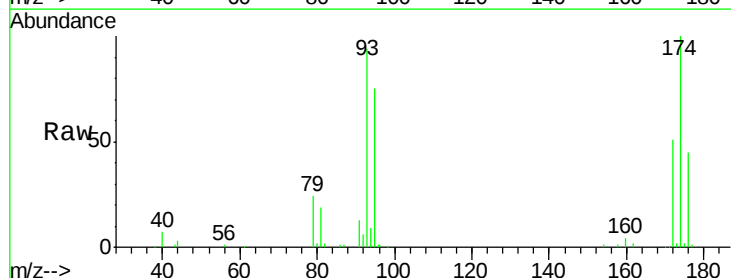
Tgt Ion: 93 Resp: 76256

Ion Ratio Lower Upper

93 100

95 81.2 64.4 96.6

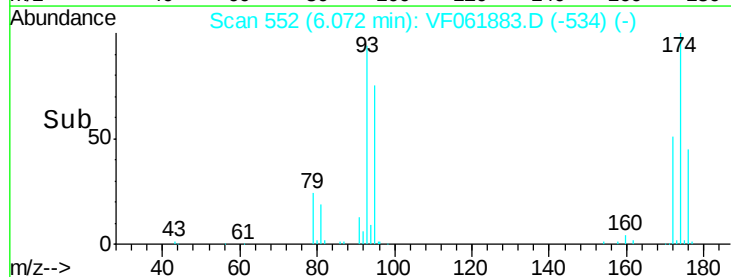
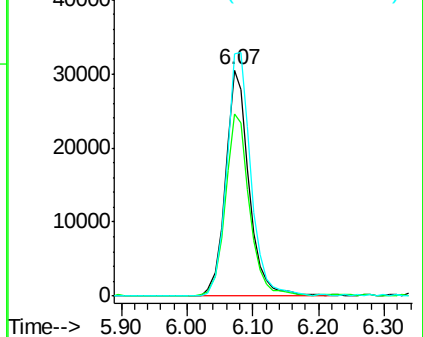
174 106.9 85.8 128.6

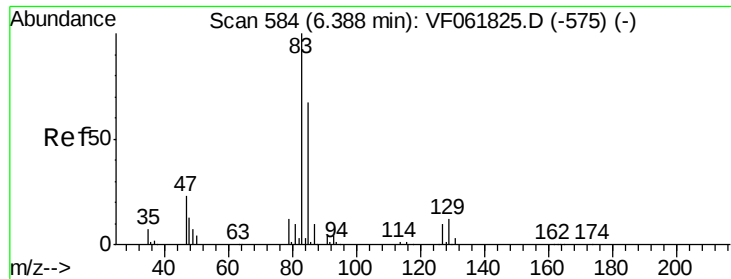


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 48.084 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

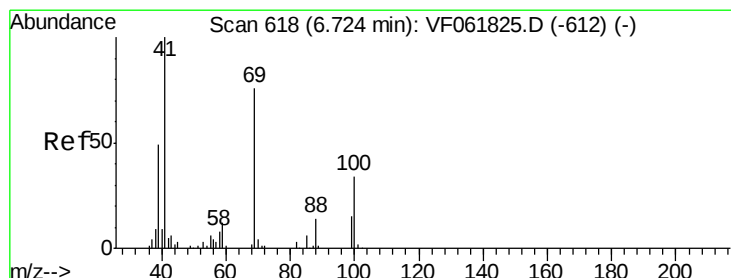
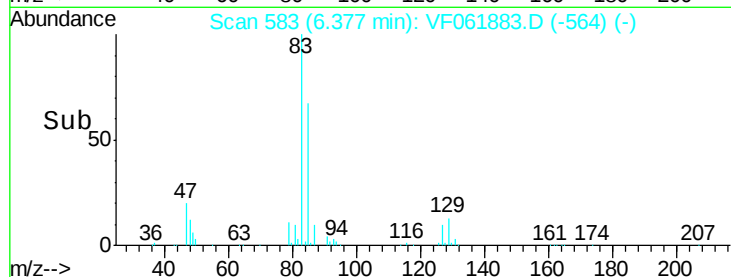
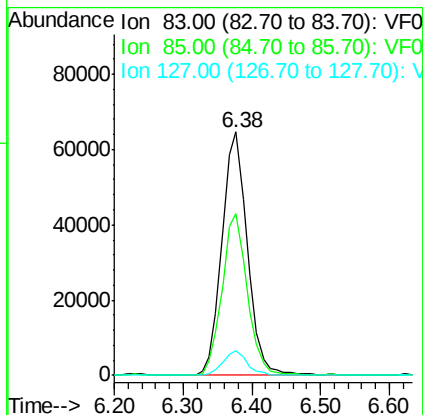
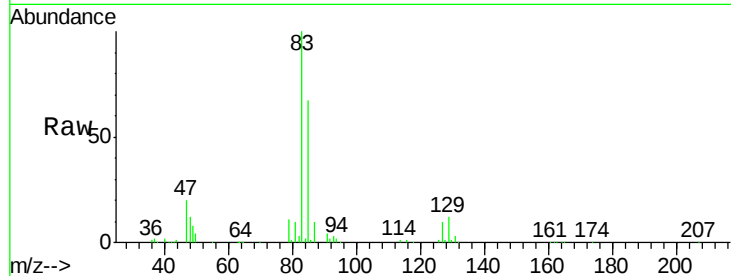
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	165966
Ion	Ratio	Lower	Upper
83	100		
85	66.6	53.6	80.4
127	10.2	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 47.616 ug/l

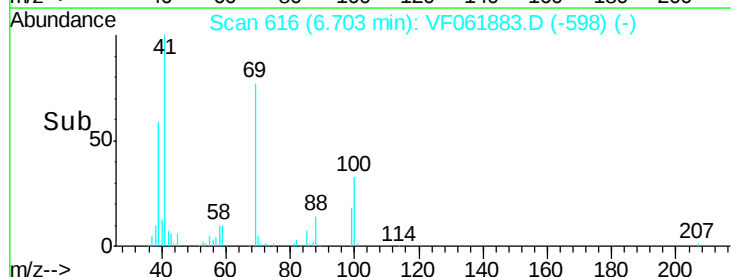
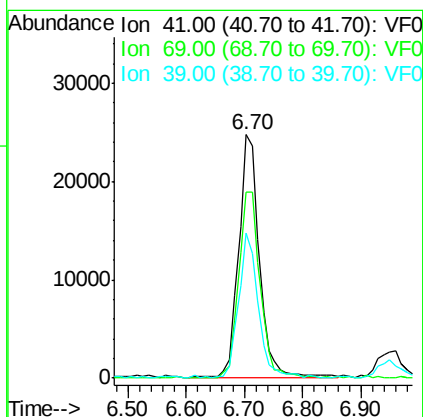
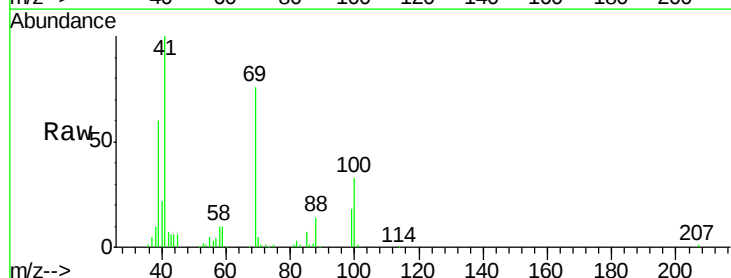
RT: 6.70 min Scan# 616

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	41	Resp:	62270
Ion	Ratio	Lower	Upper
41	100		
69	76.5	60.4	90.6
39	59.6	39.7	59.5#





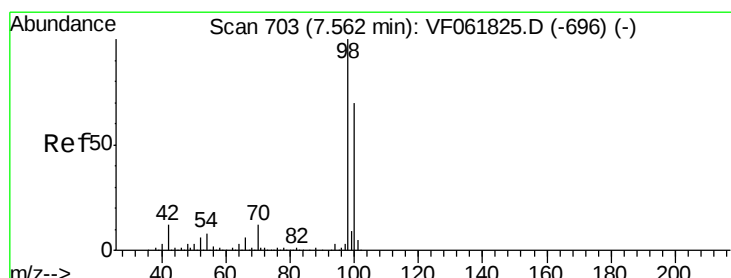
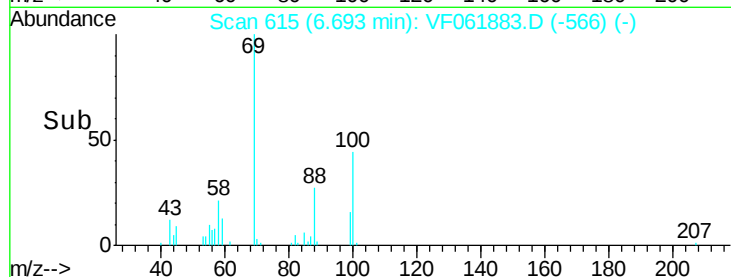
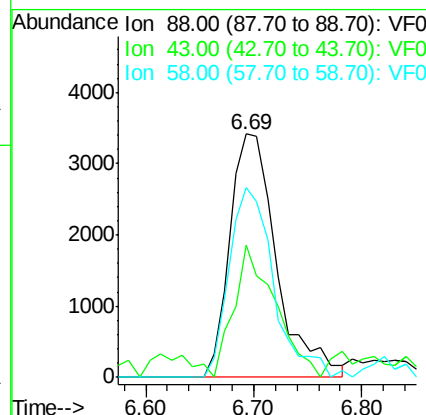
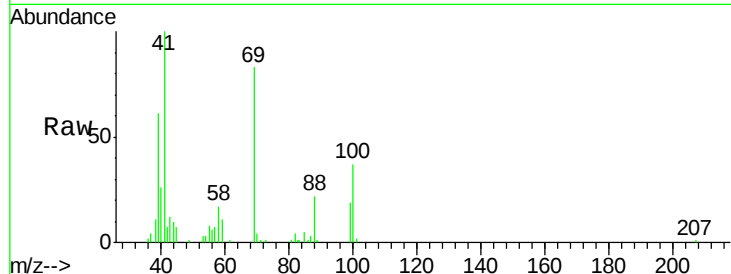
#49
1,4-Dioxane
Concen: 863.162 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	54.3	28.4	42.6#	
58	78.0	50.7	76.1#	

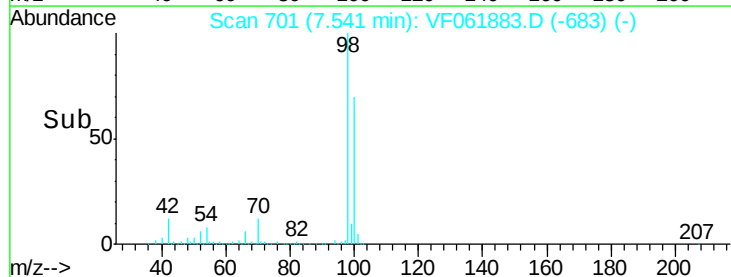
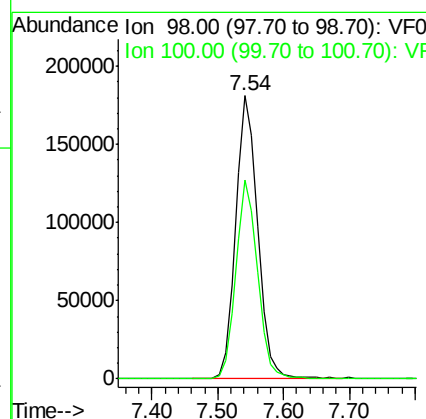
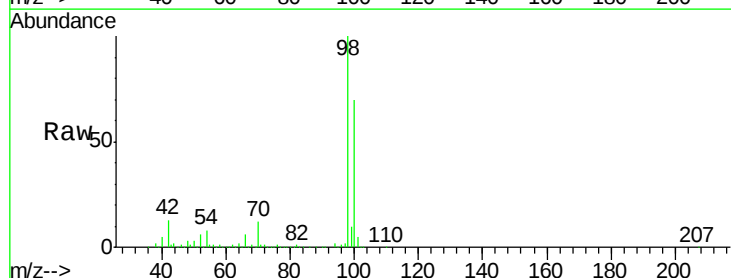
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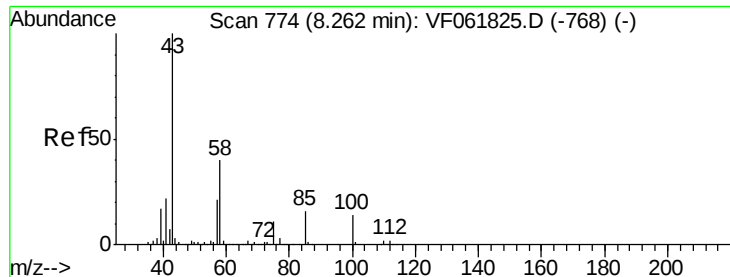
MMDadoda
3/12/2019 4:36:45 PM



#50
Toluene-d8
Concen: 48.754 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	70.4	56.0	84.0	





#51

4-Methyl-2-Pentanone

Concen: 243.328 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 347509

Ion Ratio Lower Upper

43 100

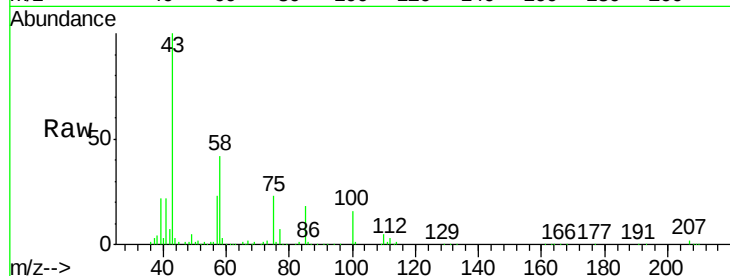
58 42.0 31.8 47.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.25

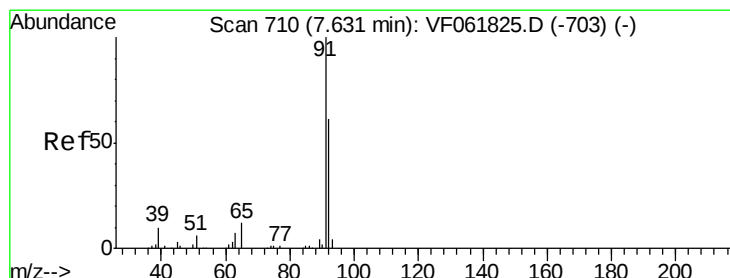
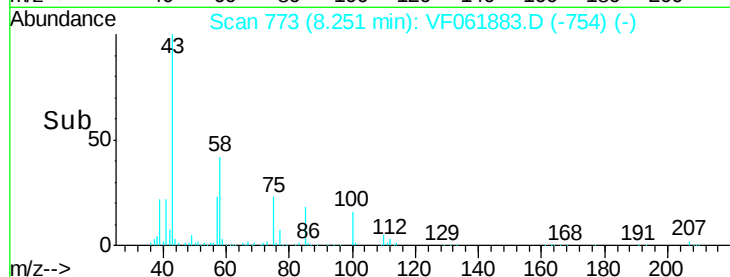
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 47.757 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061883.D

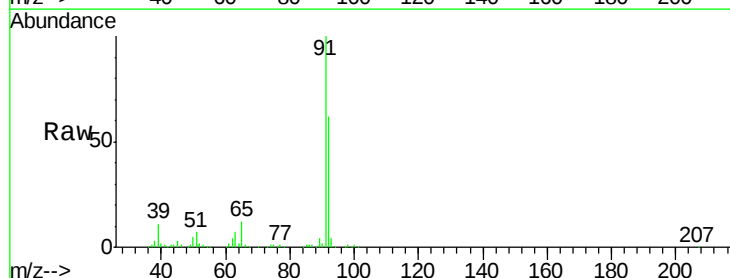
Acq: 11 Mar 2019 11:06

Tgt Ion: 92 Resp: 294934

Ion Ratio Lower Upper

92 100

91 160.6 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.61

200000

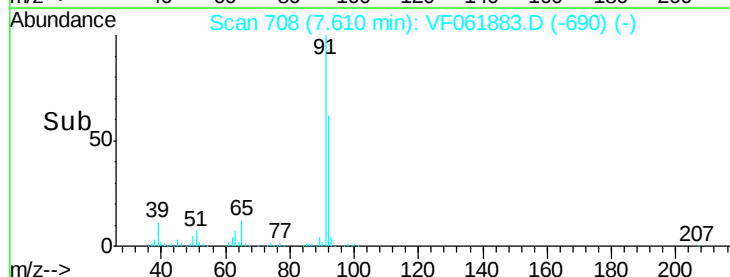
150000

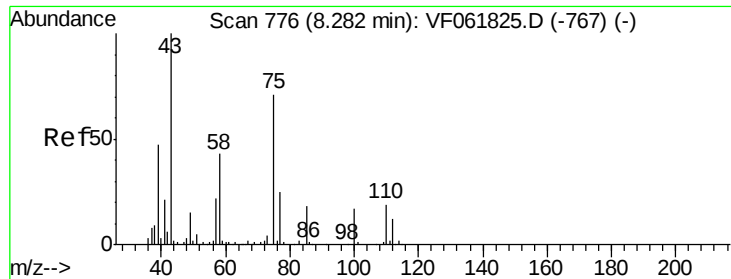
100000

50000

0

Time-->





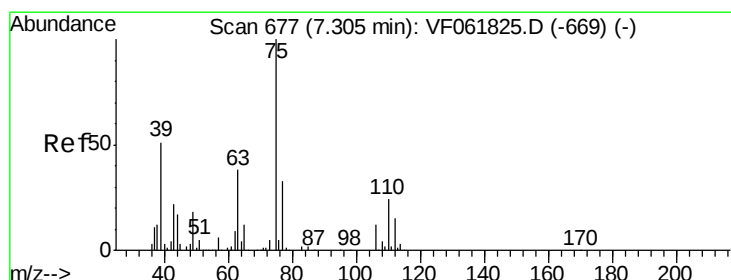
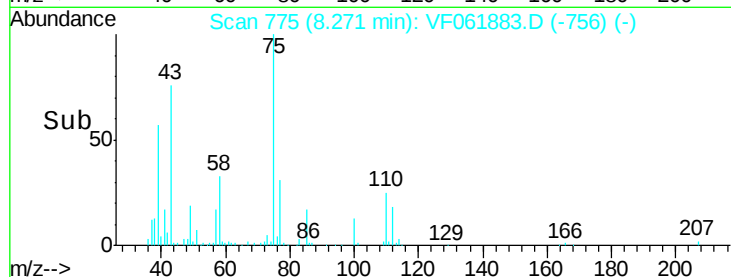
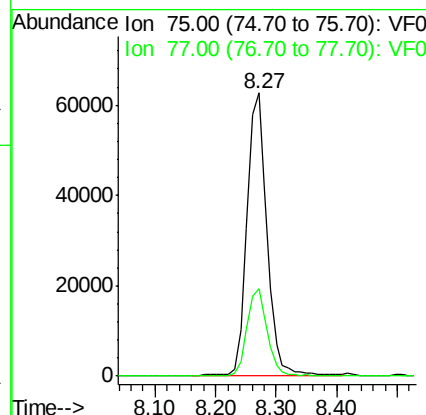
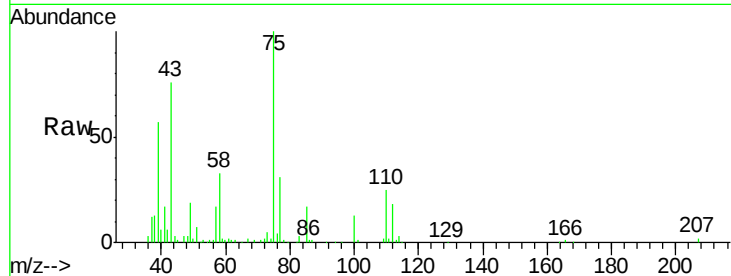
#53
t-1,3-Dichloropropene
Concen: 50.848 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.1	28.0	42.0

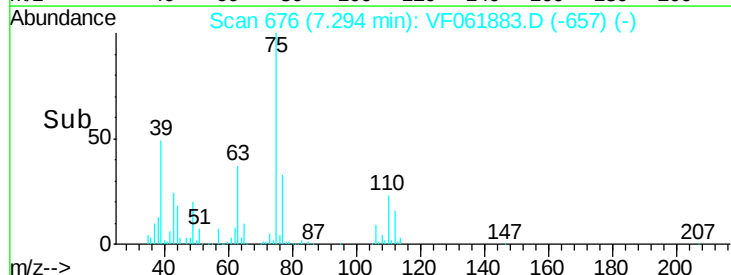
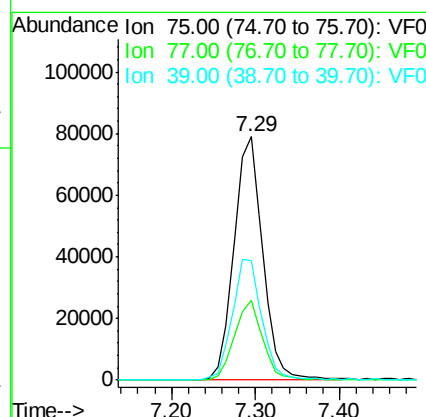
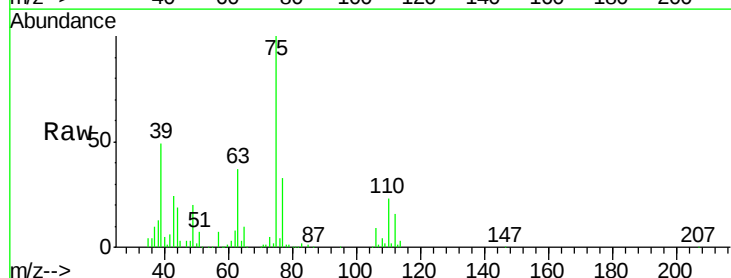
Manual Integrations
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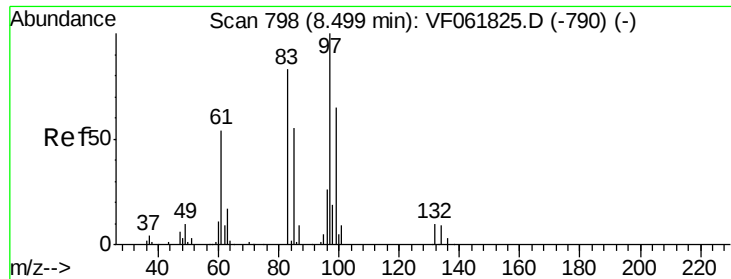
MMDadoda
3/12/2019 4:36:45 PM



#54
cis-1,3-Dichloropropene
Concen: 47.931 ug/l
RT: 7.29 min Scan# 676
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.3	39.5
39	48.9	40.8	61.2





#55

1,1,2-Trichloroethane

Concen: 48.137 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

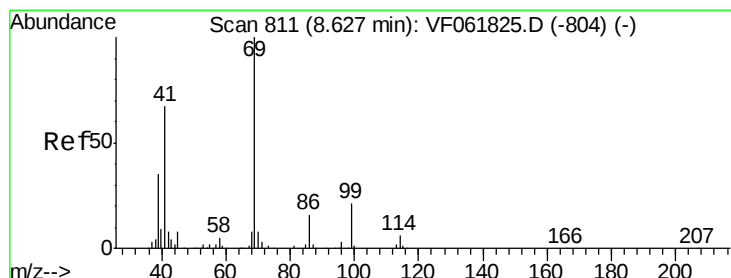
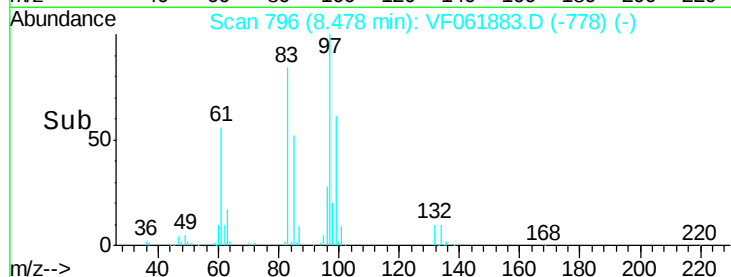
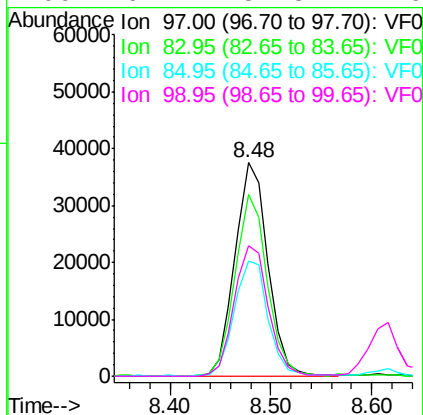
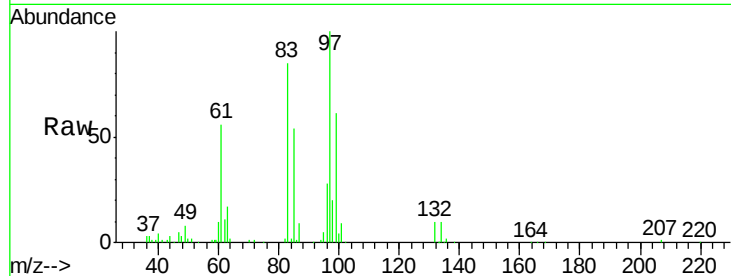
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	85654
Ion	Ratio	Lower	Upper
97	100		
83	84.9	66.5	99.7
85	54.1	44.2	66.2
99	61.2	51.8	77.6

Manual Integrations
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#56

Ethyl methacrylate

Concen: 48.518 ug/l

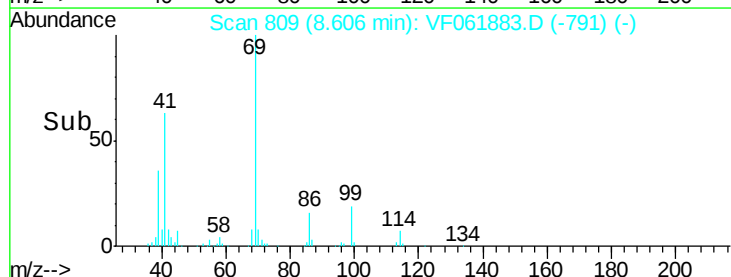
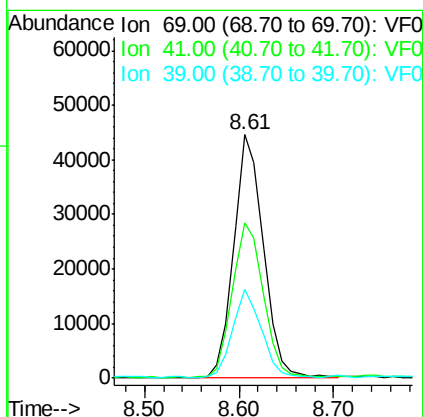
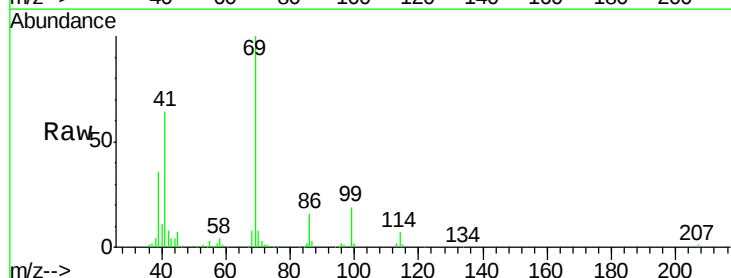
RT: 8.61 min Scan# 809

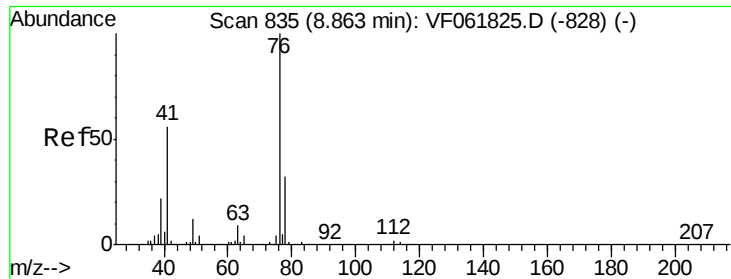
Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	69	Resp:	97296
Ion	Ratio	Lower	Upper
69	100		
41	64.0	53.9	80.9
39	36.2	28.3	42.5





#57

1,3-Dichloropropane

Concen: 48.802 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 142012

Ion Ratio Lower Upper

76 100

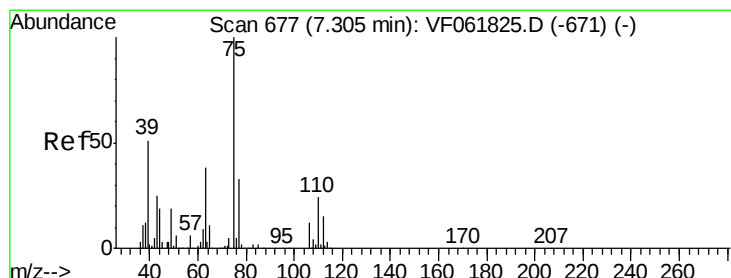
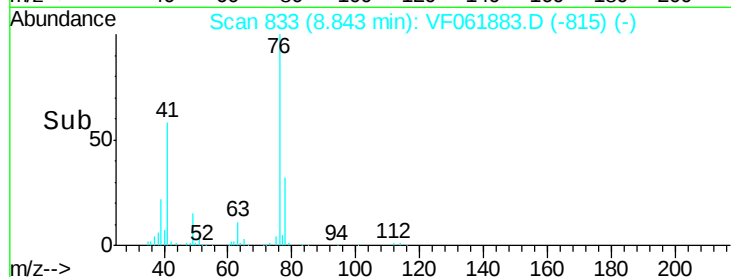
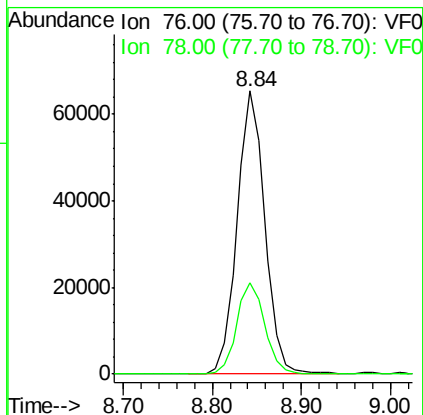
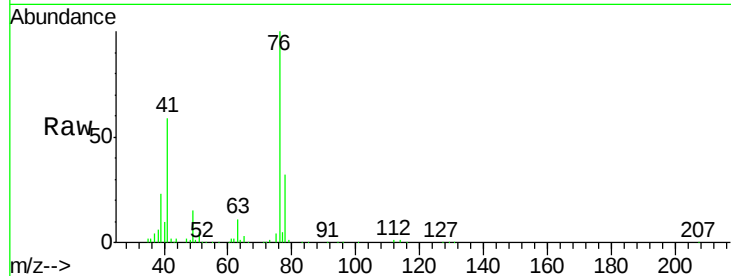
78 32.2 25.4 38.2

Manual Integrations

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3/12/2019 4:36:45 PM



#58

2-Chloroethyl Vinyl ether

Concen: 244.792 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061883.D

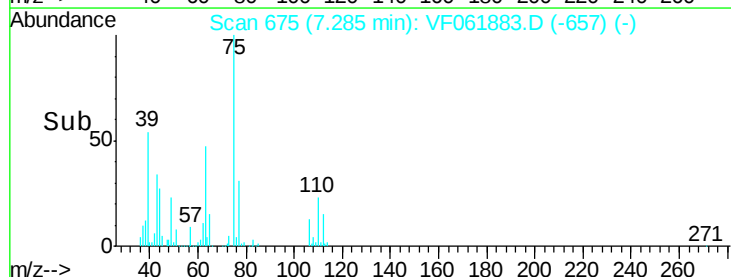
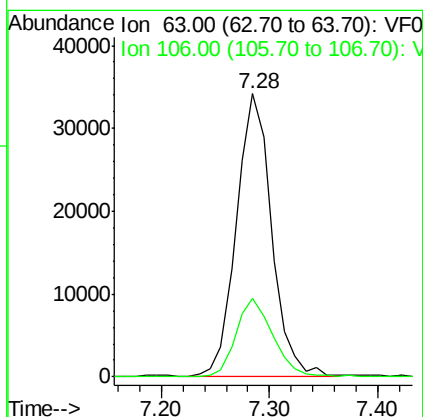
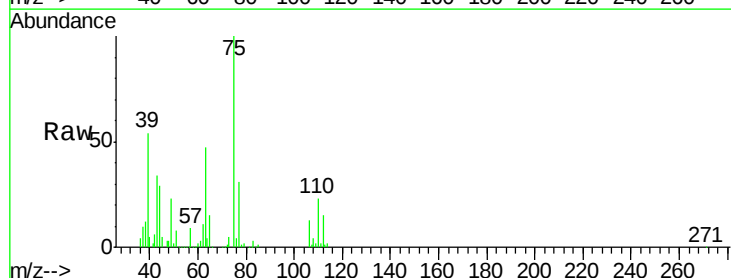
Acq: 11 Mar 2019 11:06

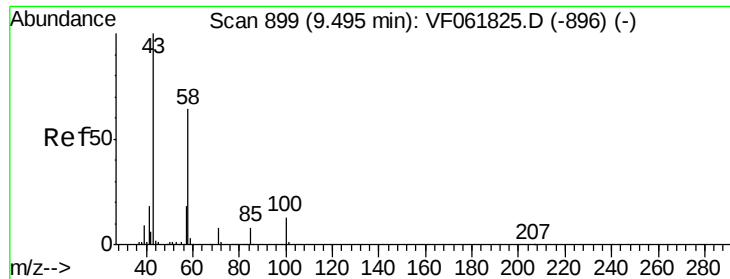
Tgt Ion: 63 Resp: 77655

Ion Ratio Lower Upper

63 100

106 27.9 24.3 36.5





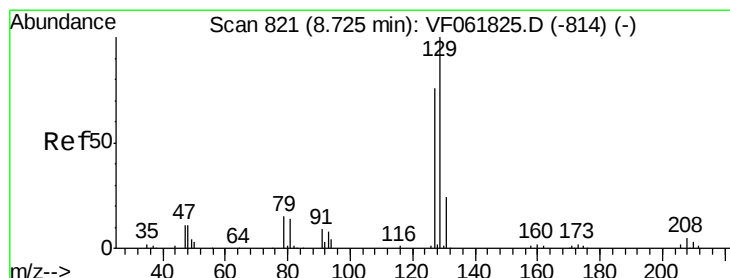
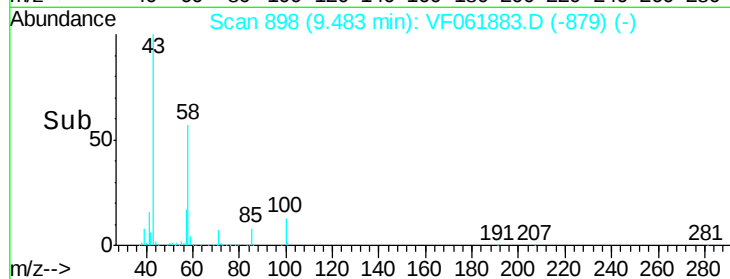
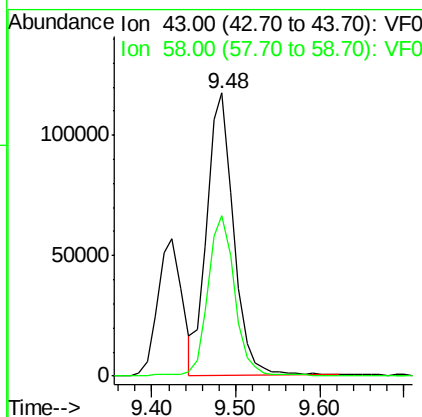
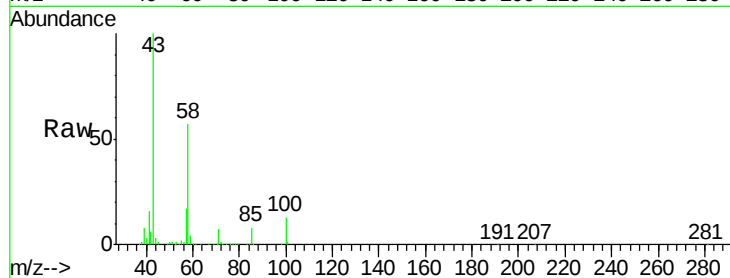
#59
2-Hexanone
Concen: 249.474 ug/l
RT: 9.48 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 257031
Ion Ratio Lower Upper
43 100
58 56.5 28.8 86.4

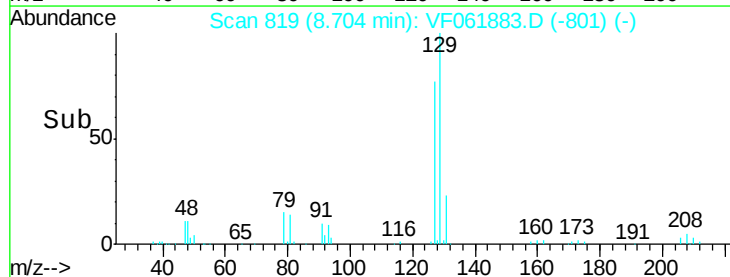
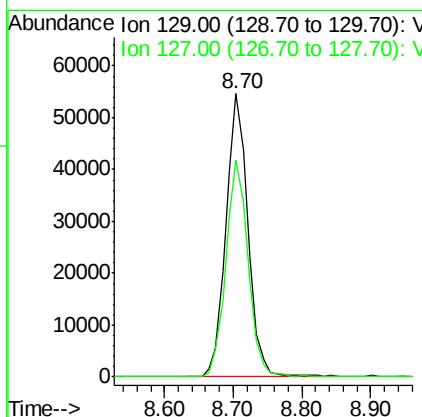
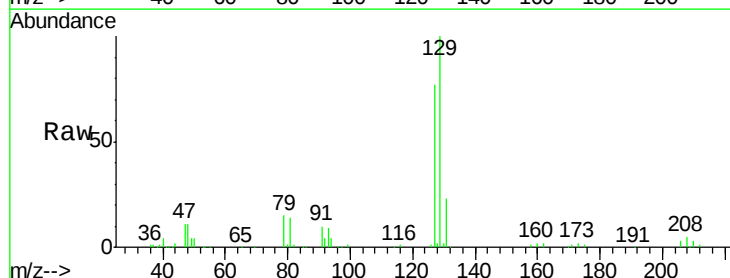
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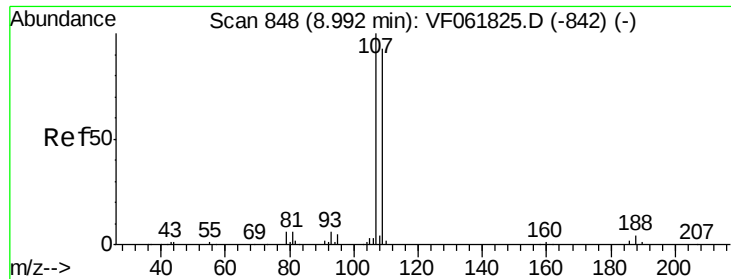
MMDadoda
3/12/2019 4:36:45 PM



#60
Dibromochloromethane
Concen: 47.659 ug/l
RT: 8.70 min Scan# 819
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion: 129 Resp: 120866
Ion Ratio Lower Upper
129 100
127 76.8 38.2 114.6





#61

1,2-Dibromoethane

Concen: 48.585 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 95068

Ion Ratio Lower Upper

107 100

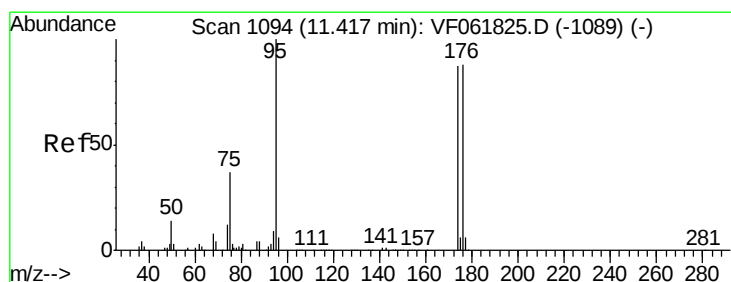
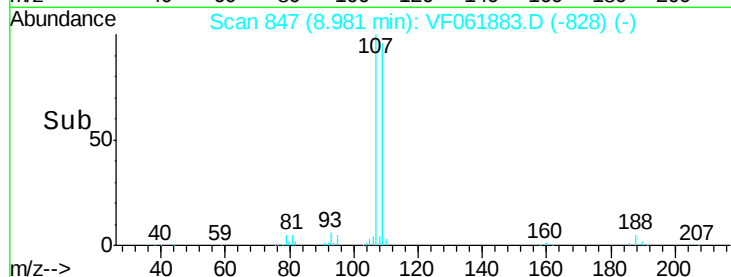
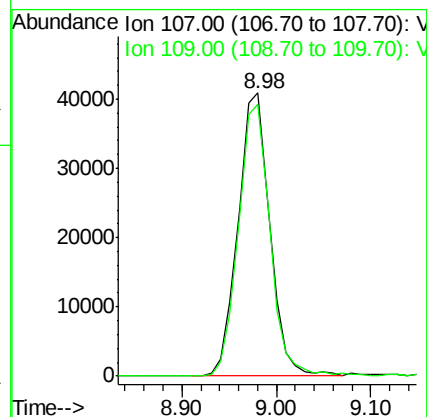
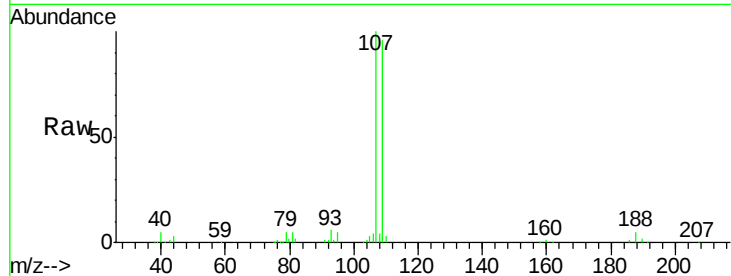
109 95.9 74.6 112.0

Manual Integrations

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MMDadoda

3/12/2019 4:36:45 PM



#62

4-Bromofluorobenzene

Concen: 50.221 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

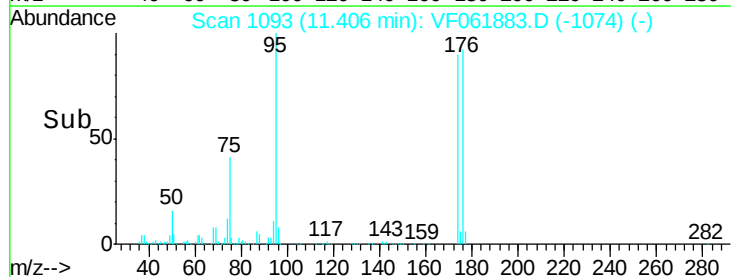
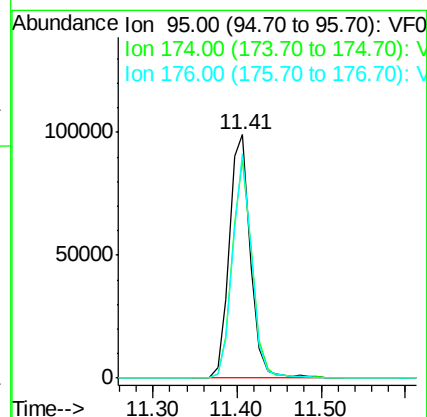
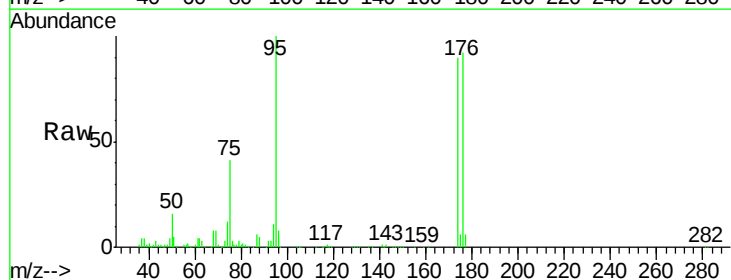
Tgt Ion: 95 Resp: 172531

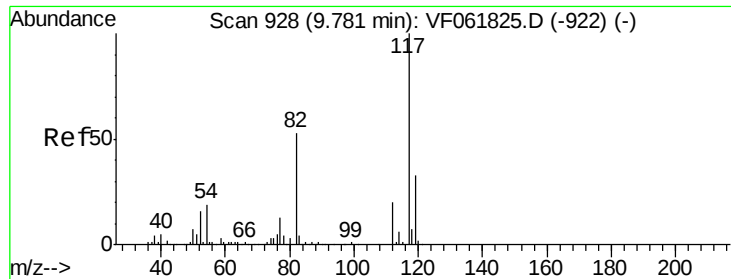
Ion Ratio Lower Upper

95 100

174 89.7 0.0 174.0

176 92.3 0.0 175.2





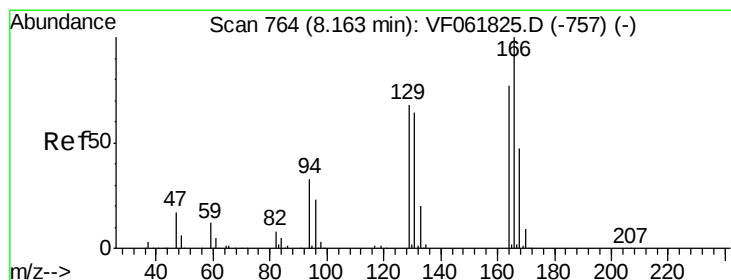
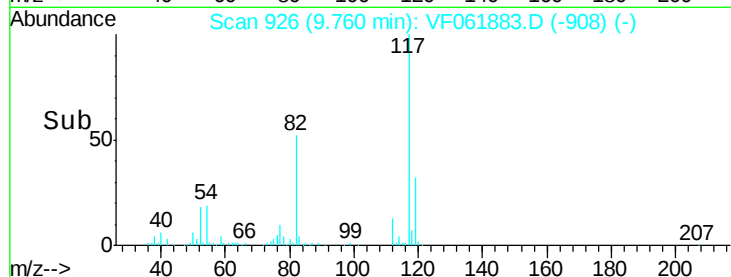
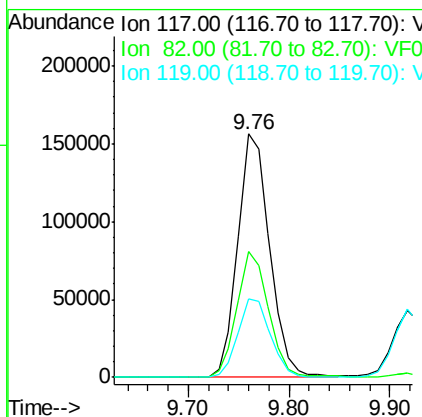
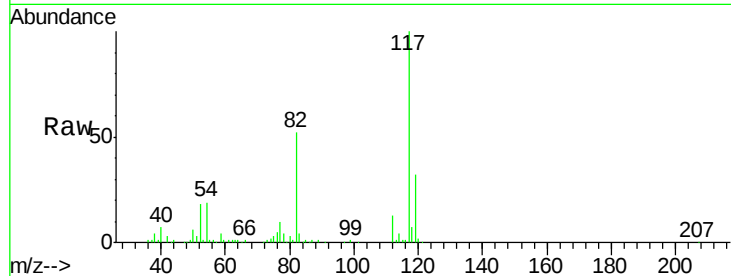
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	42.6	63.8
119	32.1	26.0	39.0

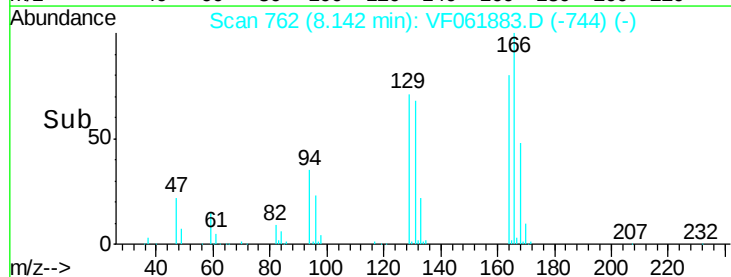
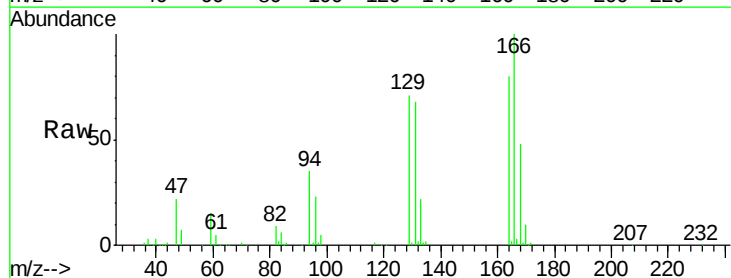
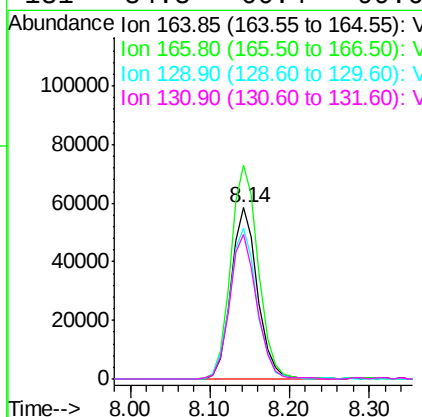
Manual Integrations
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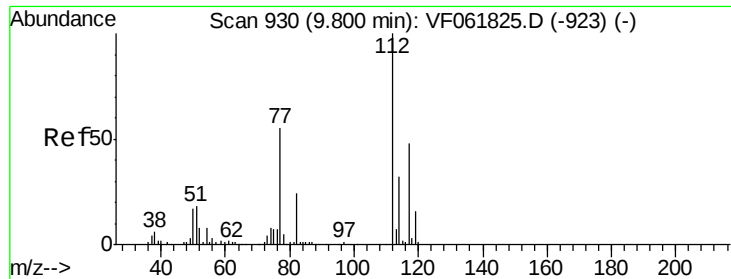
MMDadoda
3/12/2019 4:36:45 PM



#64
Tetrachloroethene
Concen: 51.268 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.0	103.4	155.0
129	88.6	69.9	104.9
131	84.8	66.4	99.6





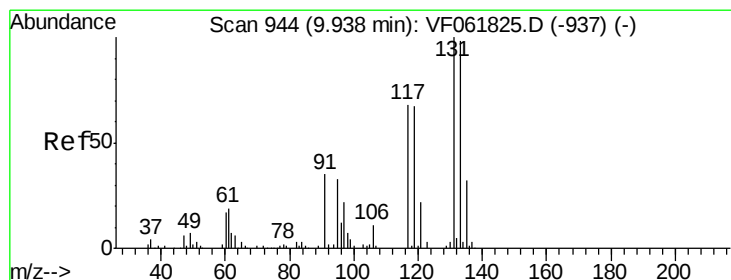
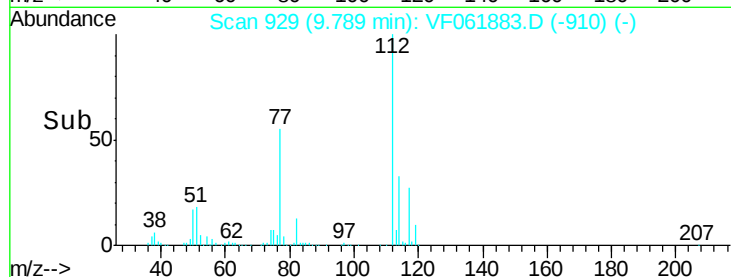
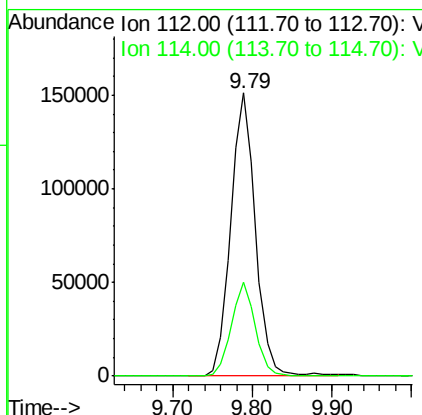
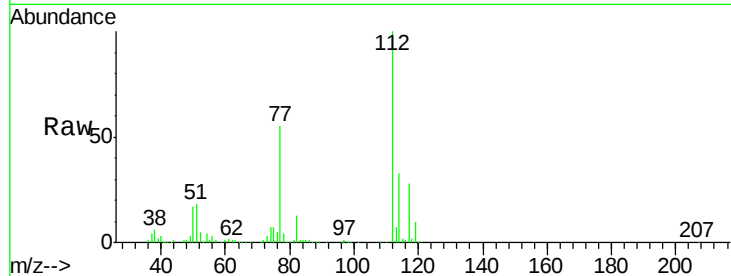
#65
Chlorobenzene
Concen: 49.466 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
112	100	328852		
114	33.4	25.5	38.3	

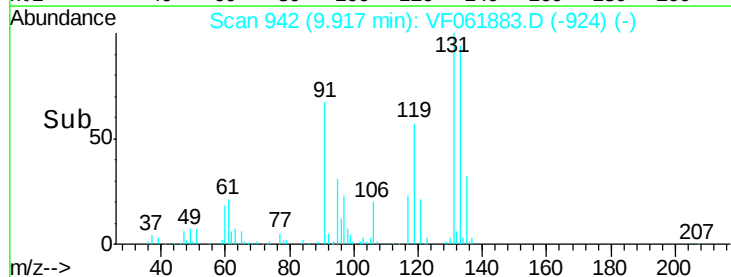
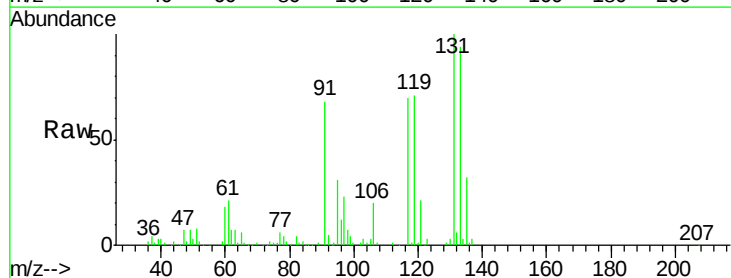
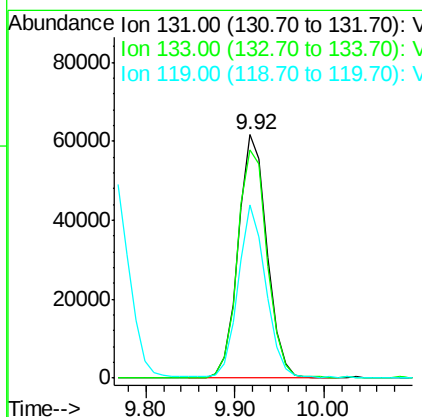
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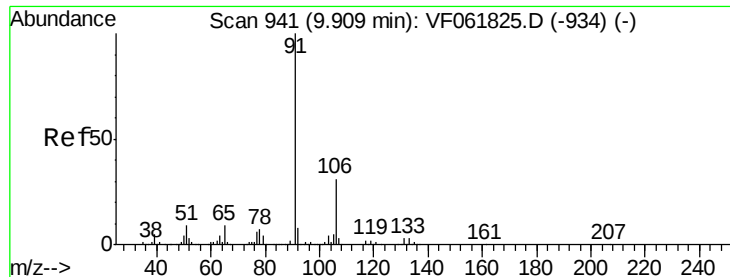
MMDadoda
3/12/2019 4:36:45 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 53.776 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	138514		
133	93.9	48.9	146.7	
119	71.2	33.6	100.8	





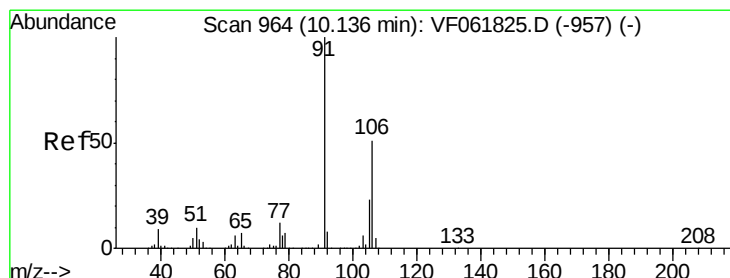
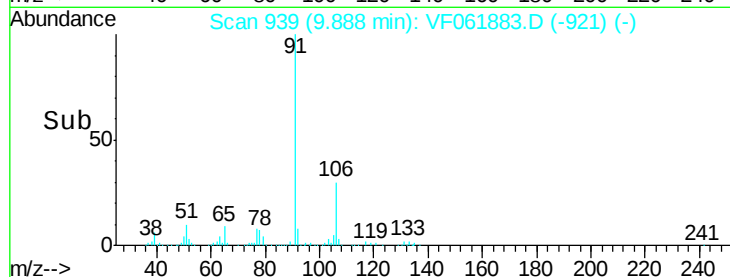
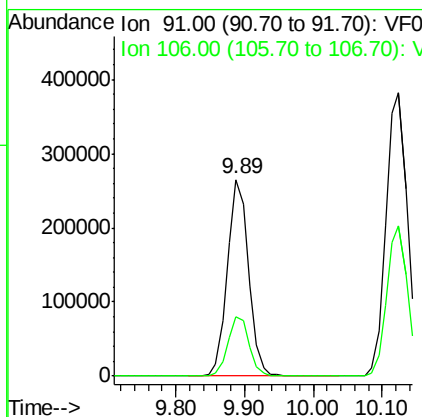
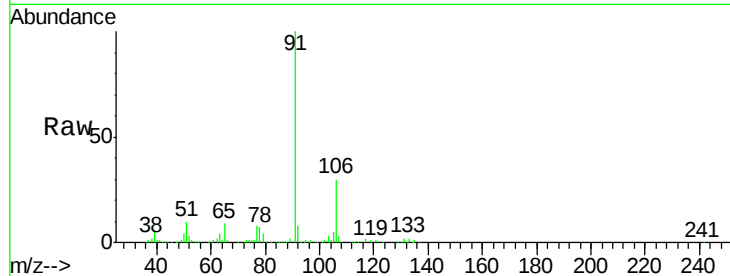
#67
Ethyl Benzene
Concen: 51.575 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 568297
Ion Ratio Lower Upper
91 100
106 30.3 25.0 37.4

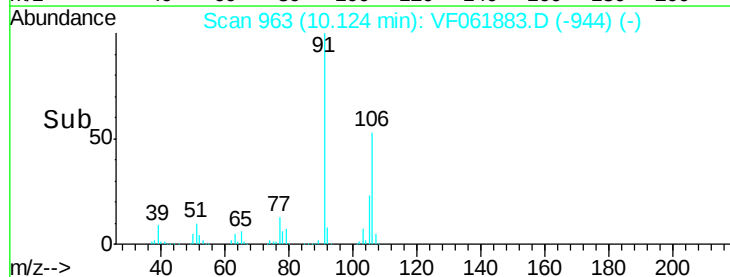
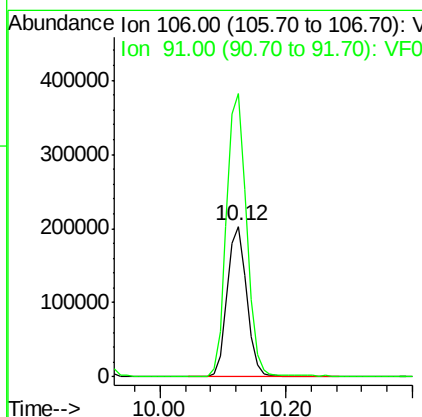
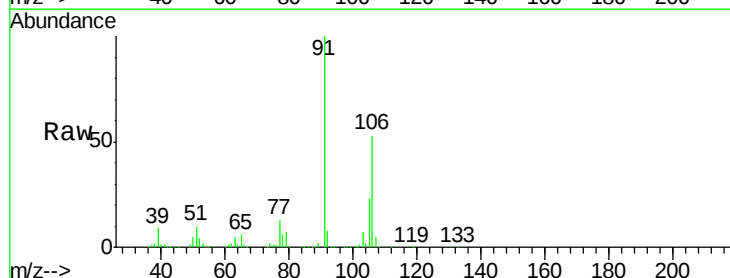
Manual Integrations
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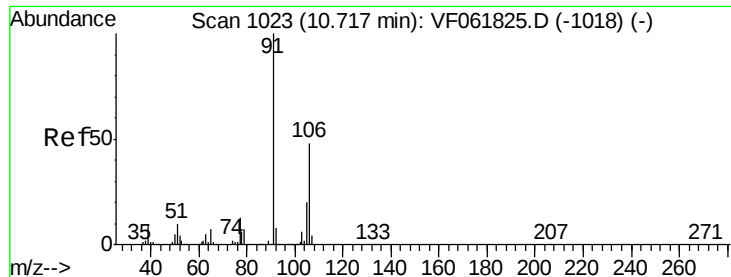
MMDadoda
3/12/2019 4:36:45 PM



#68
m/p-Xylenes
Concen: 102.241 ug/l
RT: 10.12 min Scan# 963
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion: 106 Resp: 431578
Ion Ratio Lower Upper
106 100
91 188.3 157.5 236.3





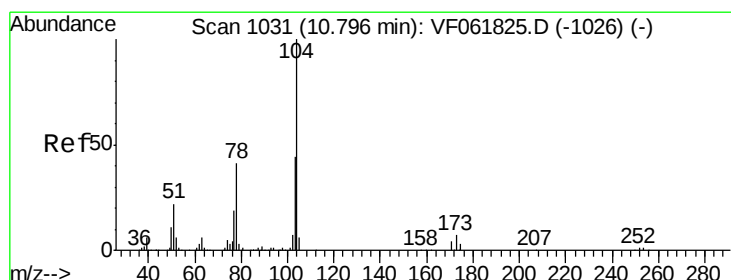
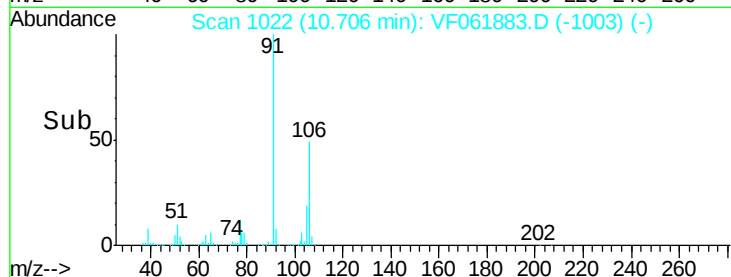
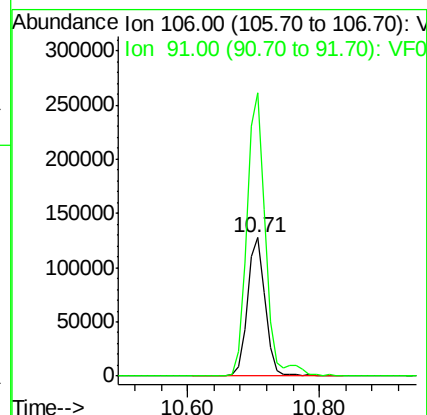
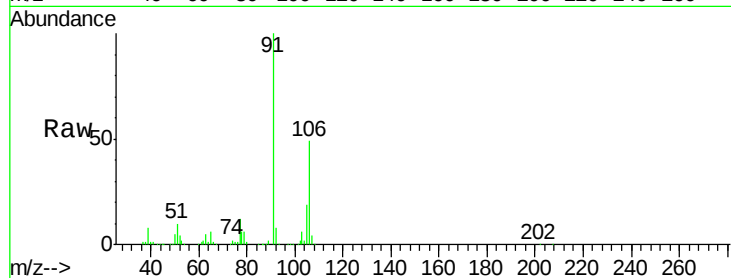
#69
o-Xylene
Concen: 53.220 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		241907		
91	204.6	103.5	310.3		

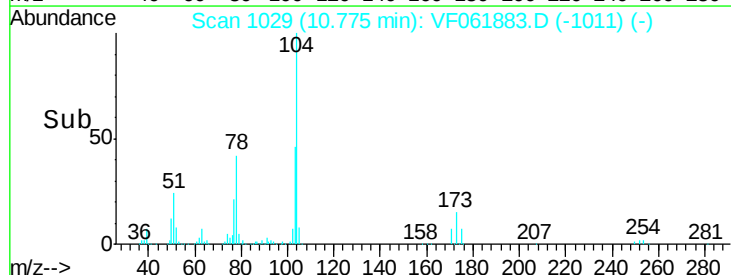
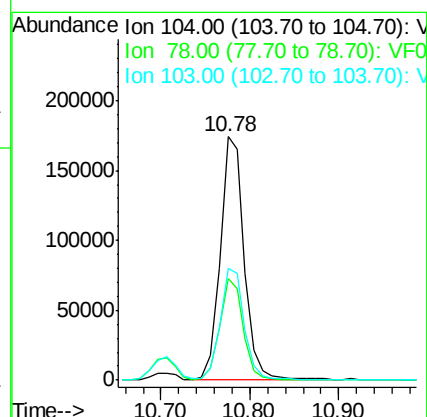
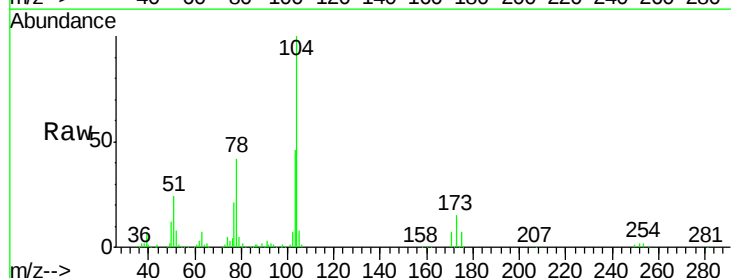
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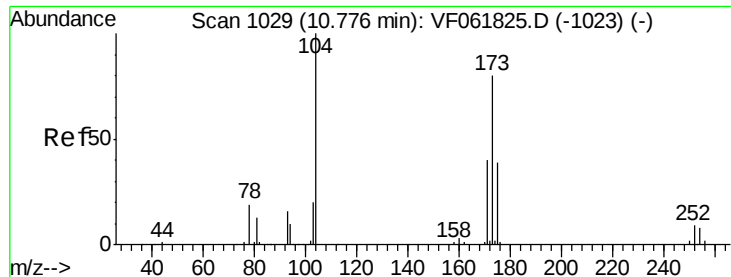
MMDadoda
3/12/2019 4:36:45 PM



#70
Styrene
Concen: 51.075 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		326721		
78	41.8	33.3	49.9		
103	45.8	35.4	53.0		





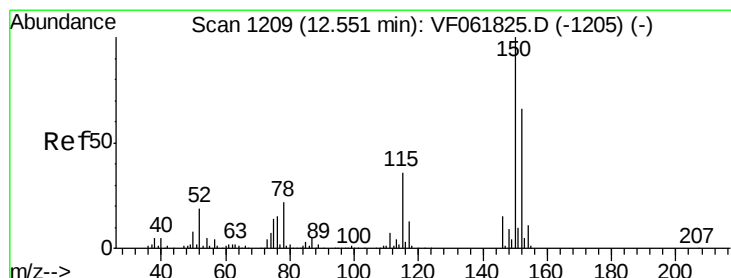
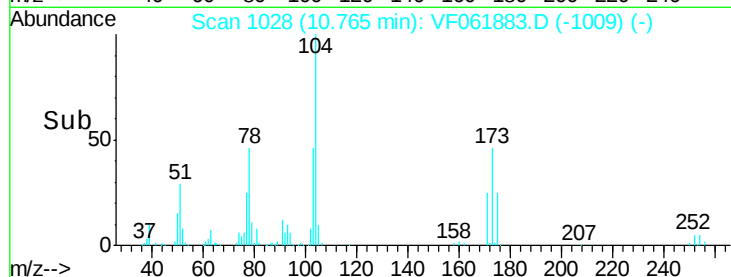
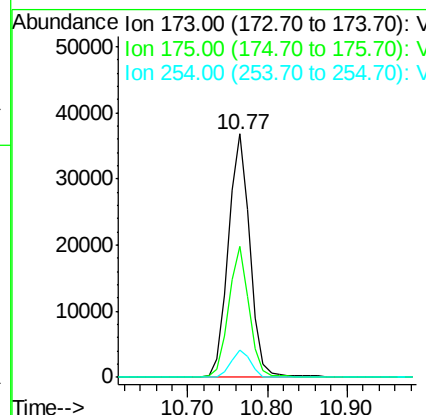
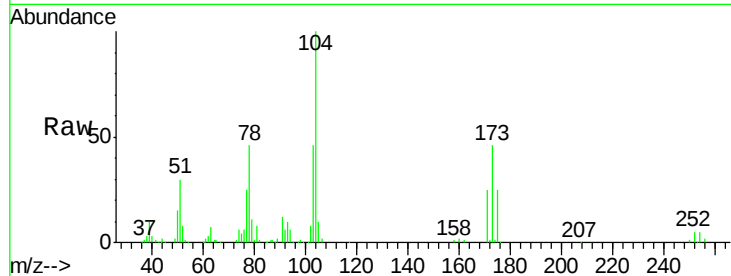
#71
Bromoform
Concen: 51.944 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	53.9	24.5	73.5
254	11.0	8.0	12.0

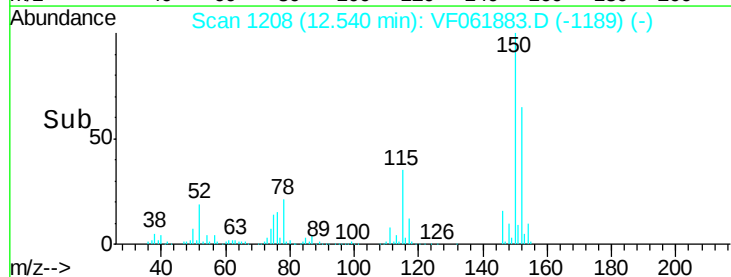
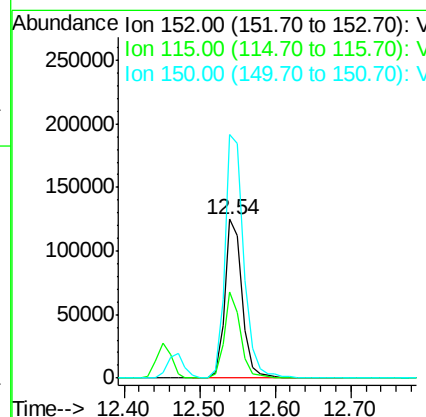
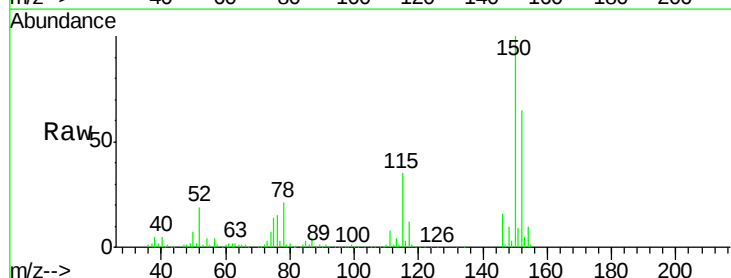
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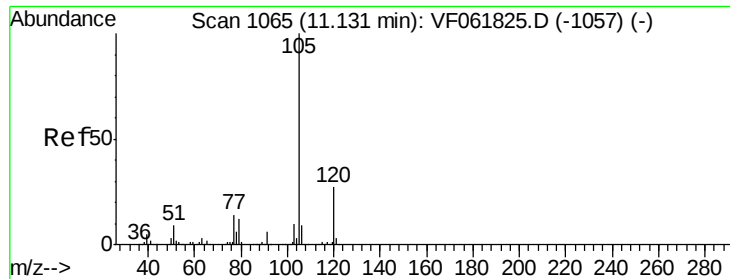
MMDadoda
3/12/2019 4:36:45 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.3	27.7	83.1
150	153.4	0.0	304.2





#73

Isopropylbenzene

Concen: 50.285 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 692122

Ion Ratio Lower Upper

105 100

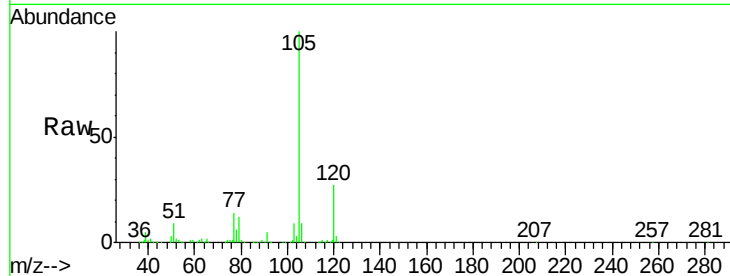
120 26.9 13.7 41.0

Manual Integrations

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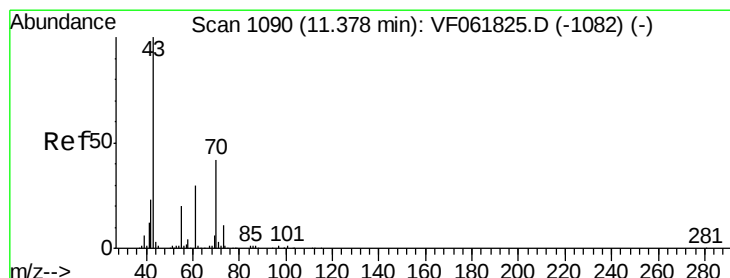
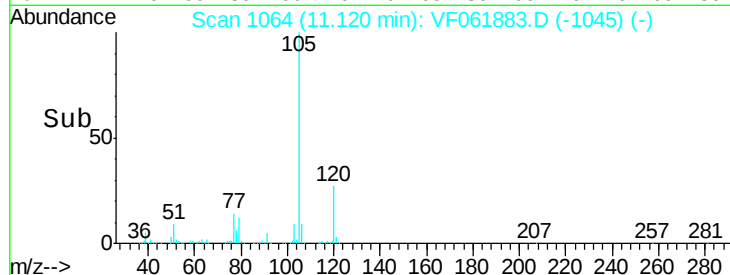
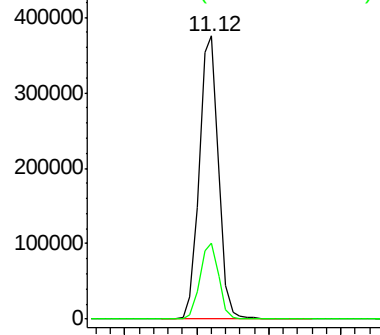
MMDadoda

3/12/2019 4:36:45 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 46.071 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion: 43 Resp: 145983

Ion Ratio Lower Upper

43 100

70 41.1 33.4 50.0

55 23.9 16.3 24.5

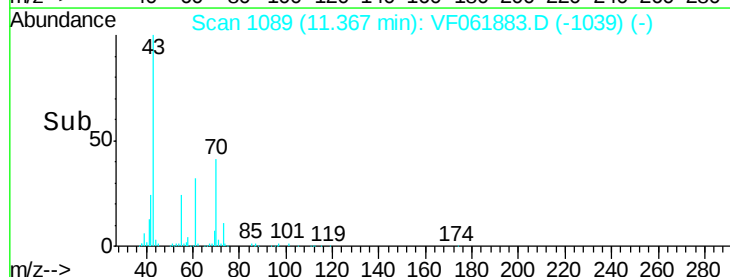
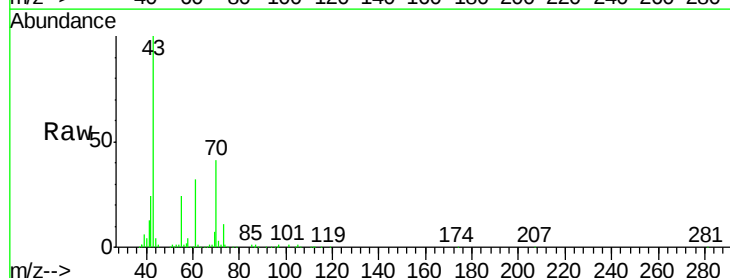
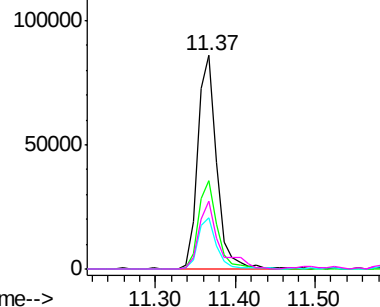
61 31.7 24.0 36.0

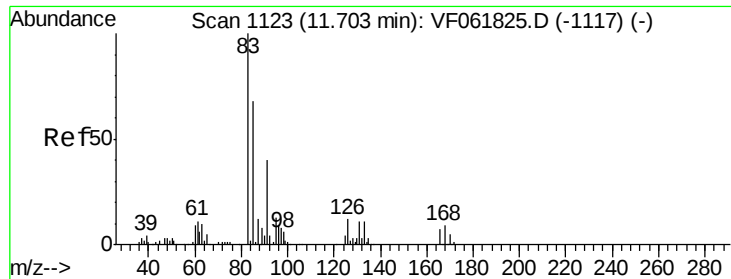
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 48.746 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

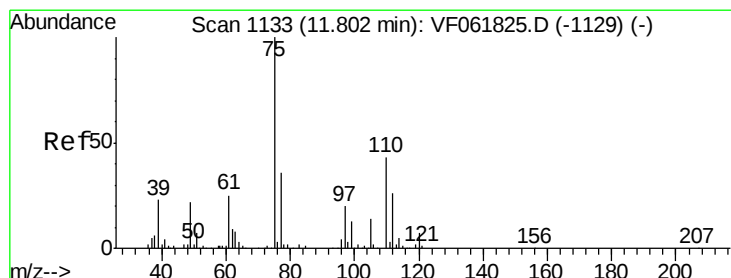
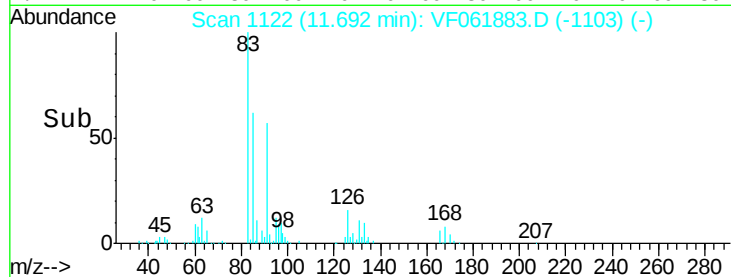
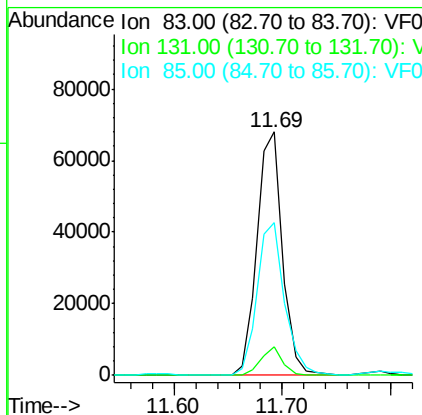
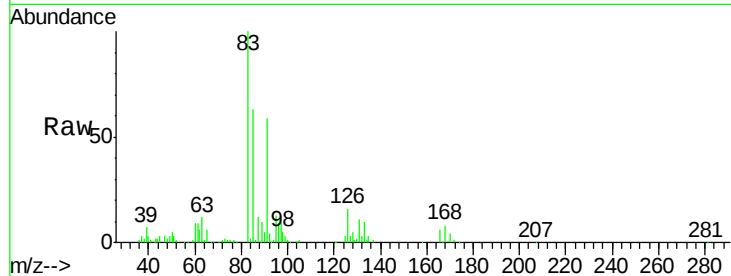
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	111511
Ion Ratio	Lower	Upper	
83	100		
131	11.5	5.5	16.7
85	62.5	34.2	102.6

Manual Integrations
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3/12/2019 4:36:45 PM



#76

1,2,3-Trichloropropane

Concen: 44.467 ug/l

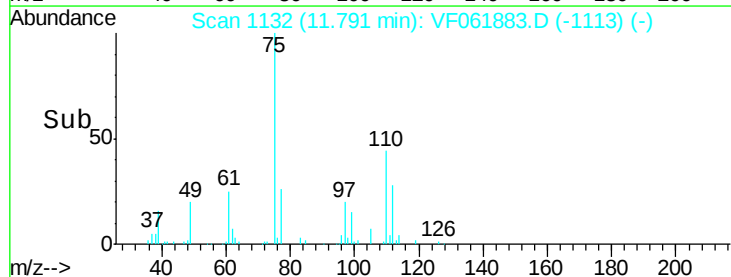
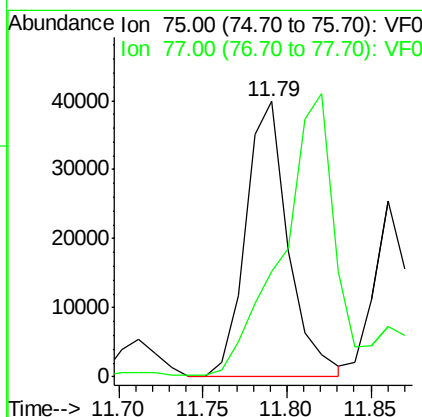
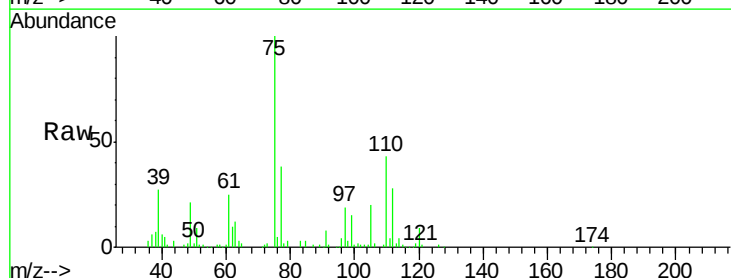
RT: 11.79 min Scan# 1132

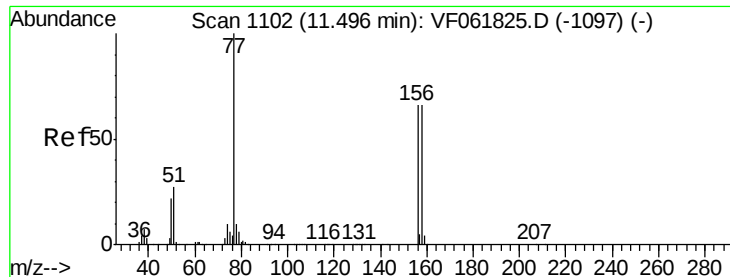
Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	75	Resp:	69427
Ion Ratio	Lower	Upper	
75	100		
77	38.5	18.1	54.4





#77

Bromobenzene

Concen: 48.181 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 159598

Ion Ratio Lower Upper

156 100

77 140.0 75.7 227.1

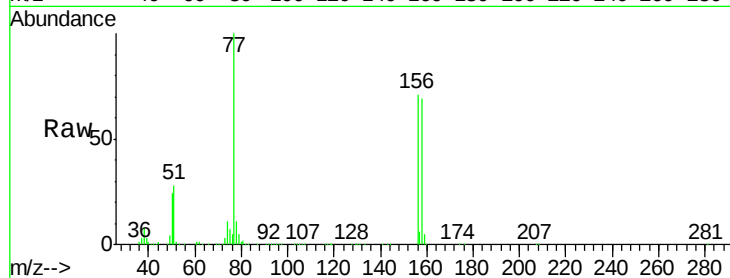
158 96.1 50.0 150.1

Manual Integrations

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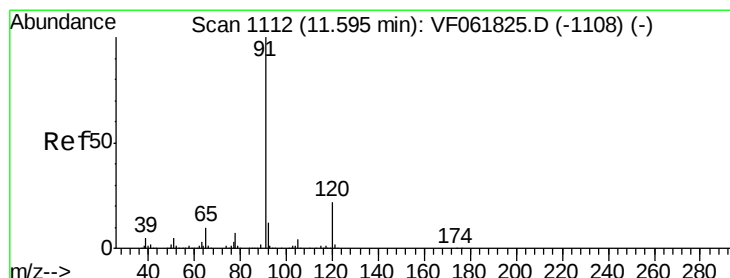
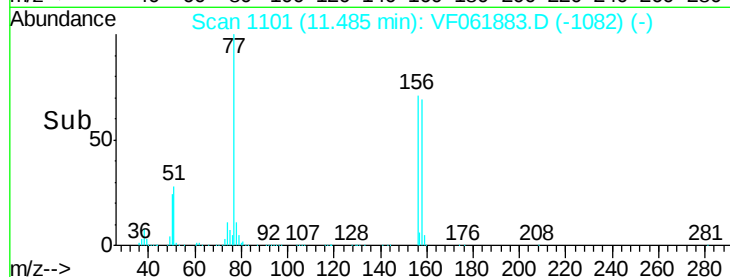
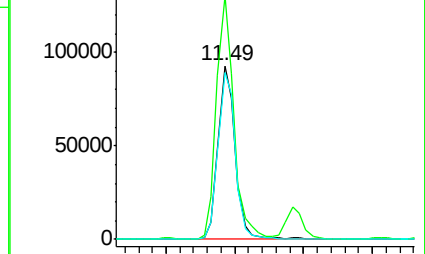
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 46.960 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF061883.D

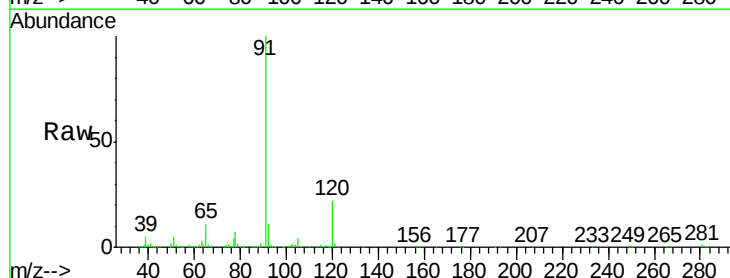
Acq: 11 Mar 2019 11:06

Tgt Ion: 91 Resp: 729927

Ion Ratio Lower Upper

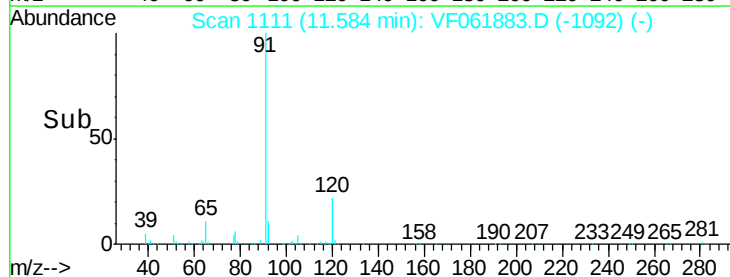
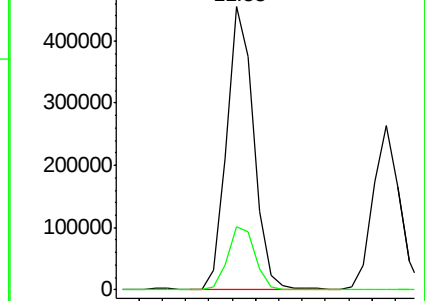
91 100

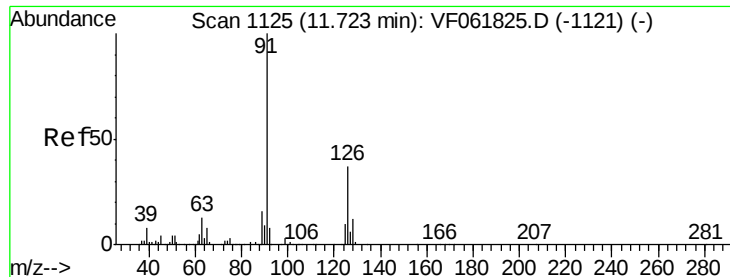
120 22.4 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 46.428 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 412577

Ion Ratio Lower Upper

91 100

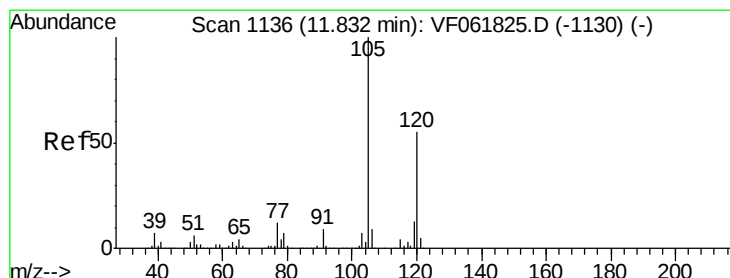
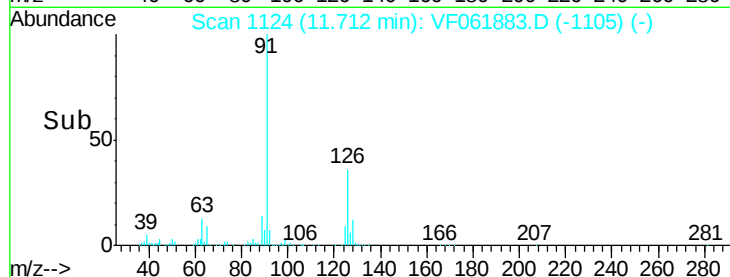
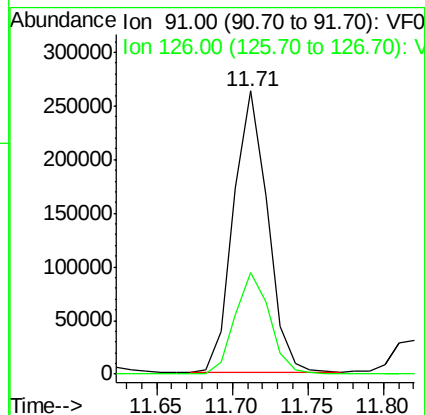
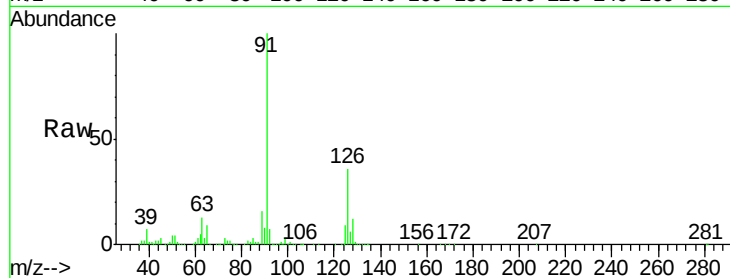
126 35.7 18.1 54.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 45.573 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061883.D

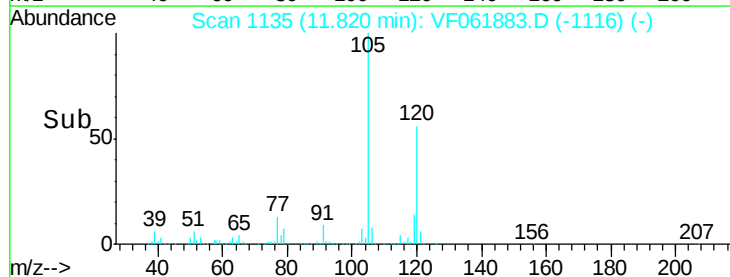
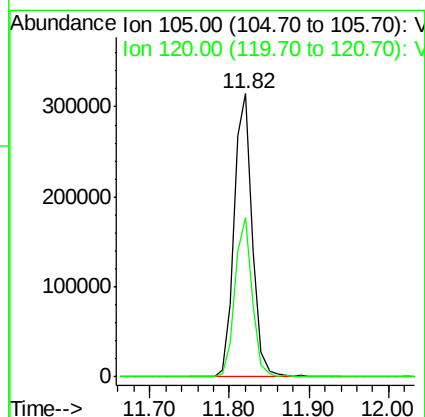
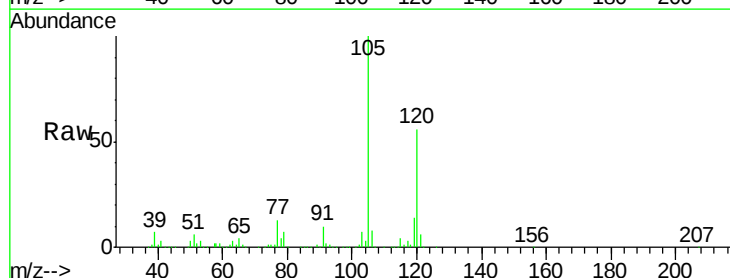
Acq: 11 Mar 2019 11:06

Tgt Ion: 105 Resp: 503614

Ion Ratio Lower Upper

105 100

120 56.2 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 51.054 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

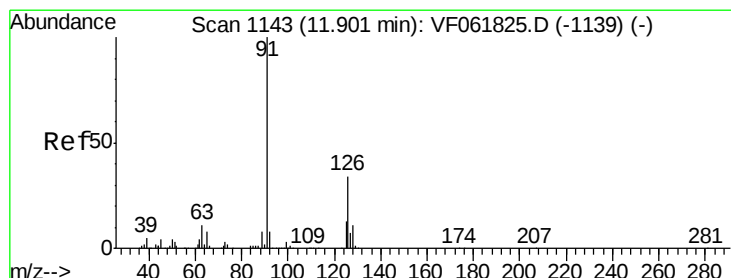
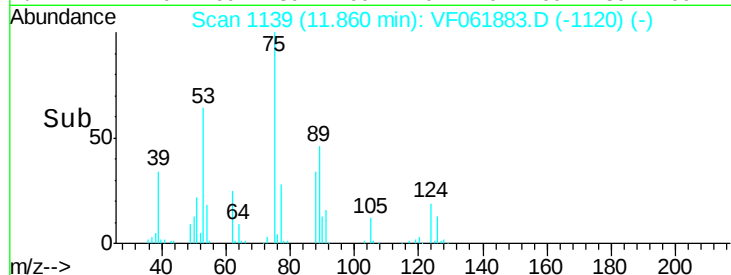
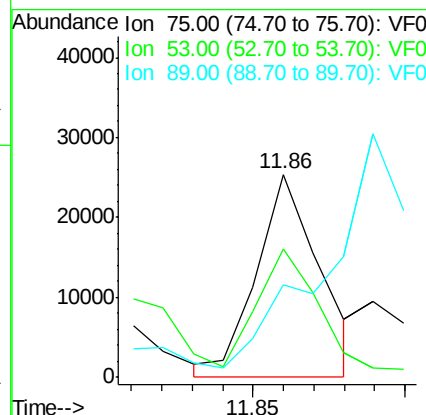
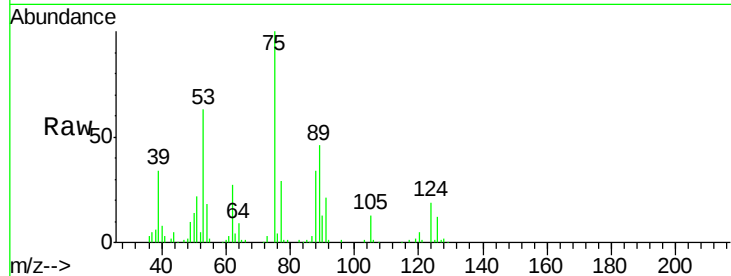
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	36449
Ion	Ratio	Lower	Upper
75	100		
53	63.3	58.6	88.0
89	45.8	41.4	62.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 47.885 ug/l

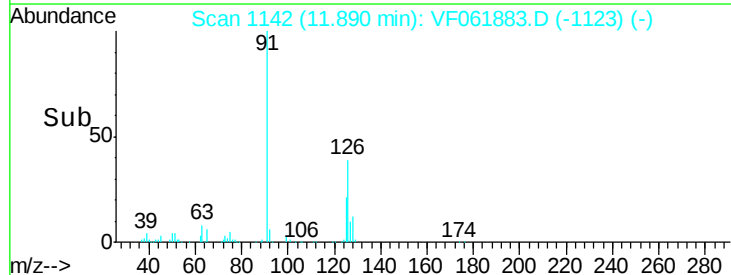
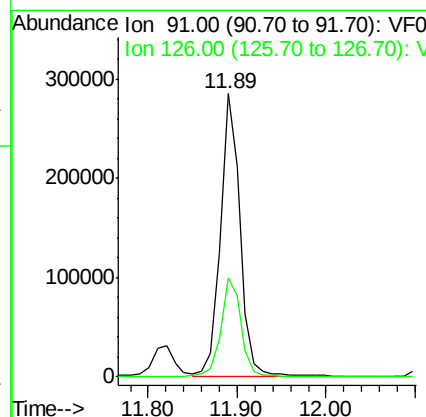
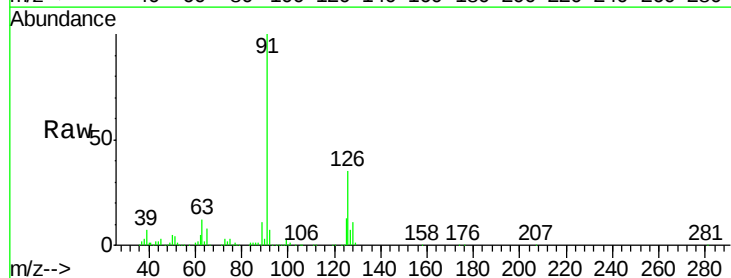
RT: 11.89 min Scan# 1142

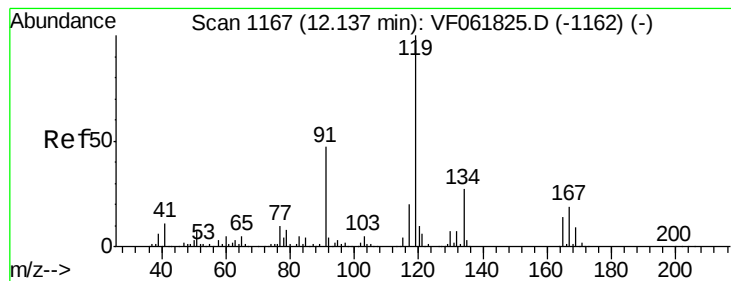
Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	91	Resp:	435252
Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.0	50.9





#83

tert-Butylbenzene

Concen: 49.581 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

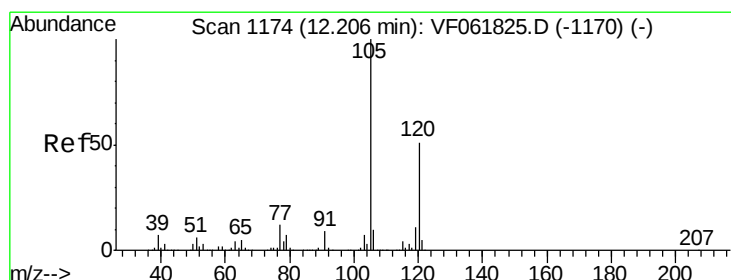
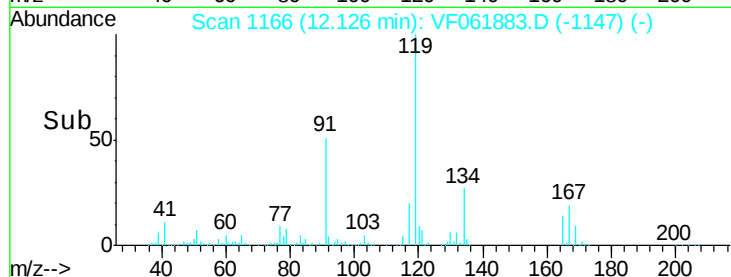
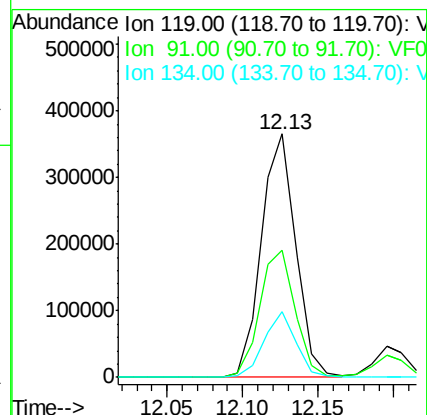
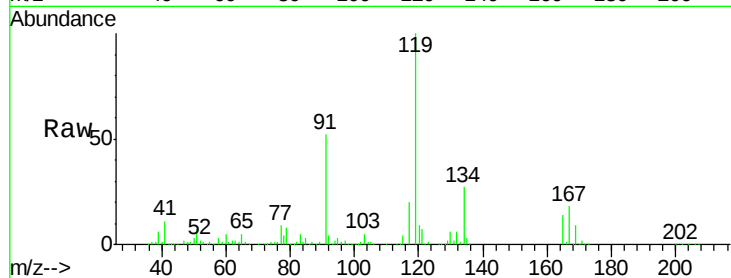
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	581791
Ion Ratio	Lower	Upper	
119	100		
91	52.3	23.5	70.5
134	26.8	13.3	39.8

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 49.087 ug/l

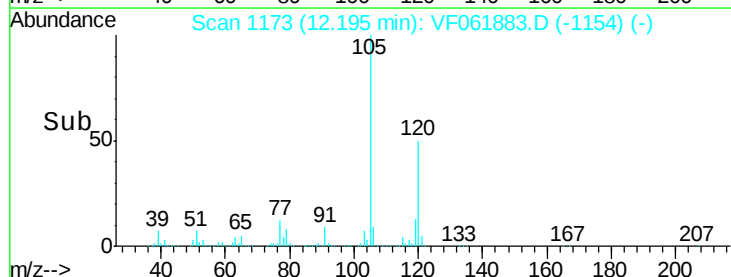
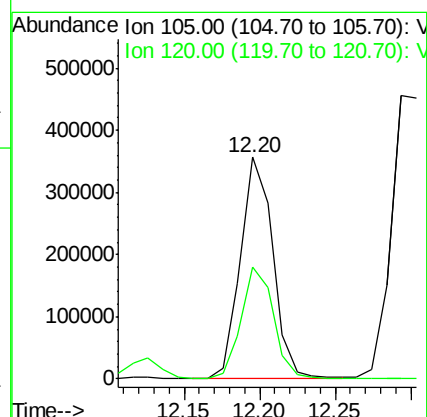
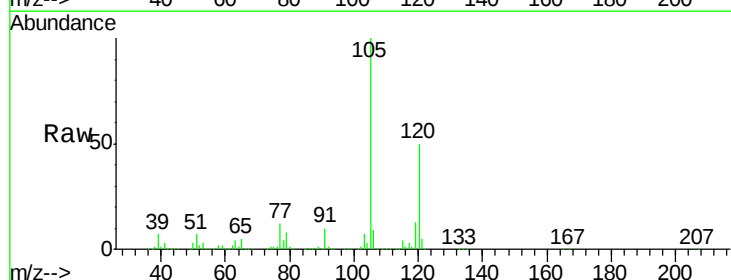
RT: 12.20 min Scan# 1173

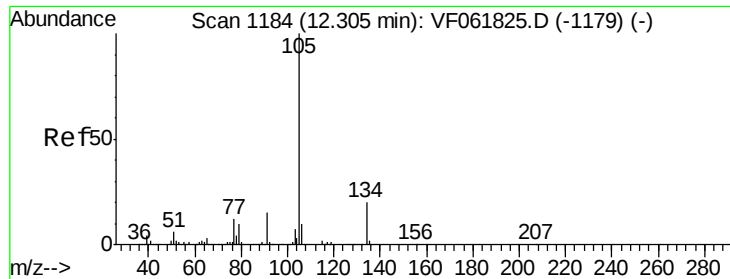
Delta R.T. -0.01 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	105	Resp:	531764
Ion Ratio	Lower	Upper	
105	100		
120	50.4	25.8	77.4





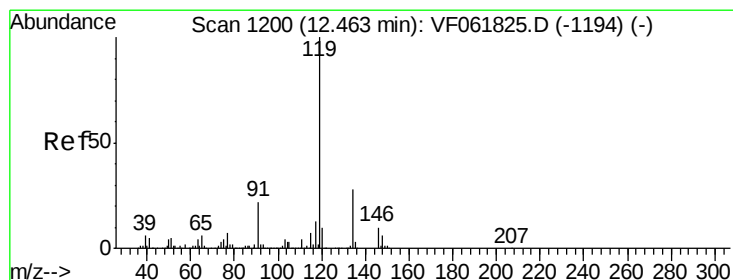
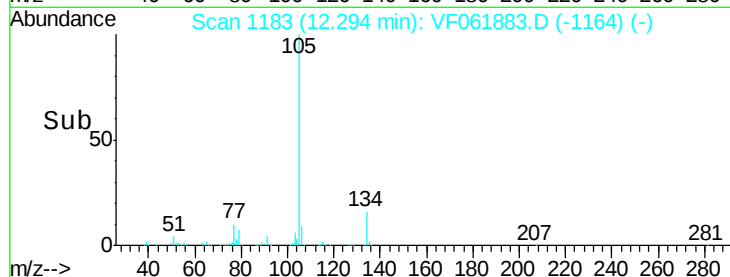
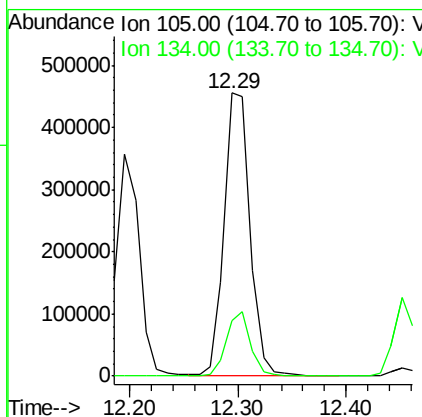
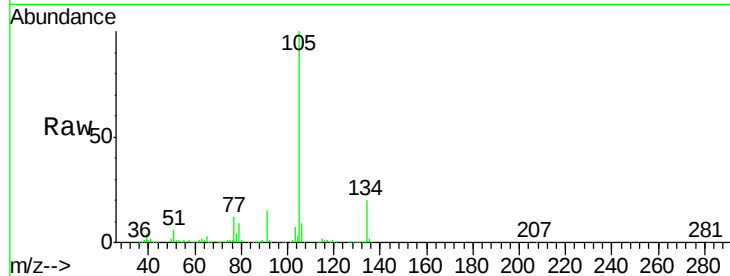
#85
 sec-Butylbenzene
 Concen: 49.856 ug/l
 RT: 12.29 min Scan# 1183
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
105	100	761305		
134	19.6	9.8	29.5	

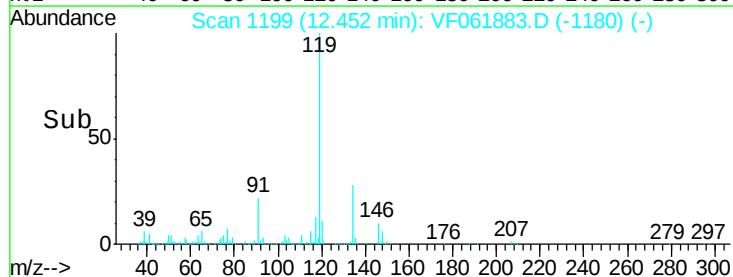
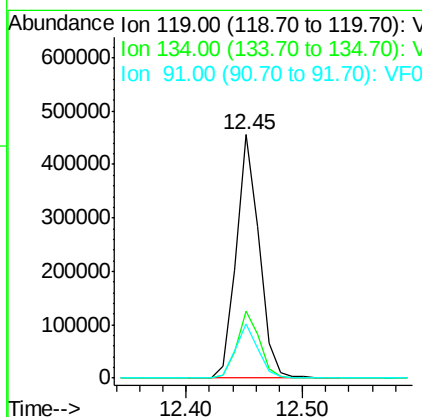
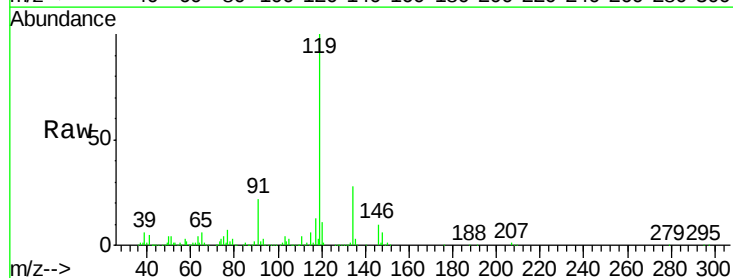
Manual Integrations
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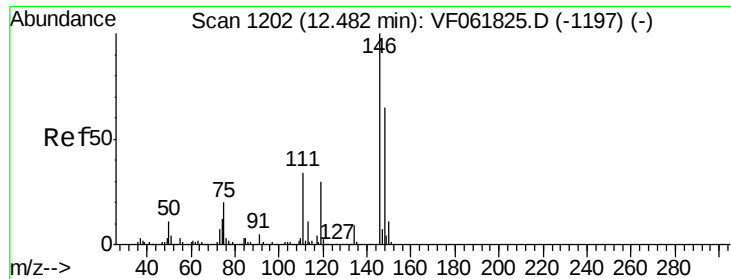
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#86
 p-Isopropyltoluene
 Concen: 47.977 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	622732		
134	27.6	14.0	42.0	
91	22.3	11.1	33.3	





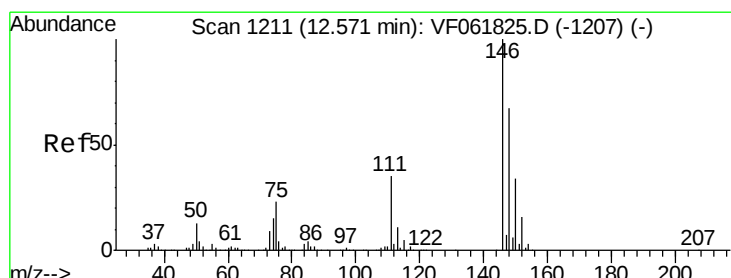
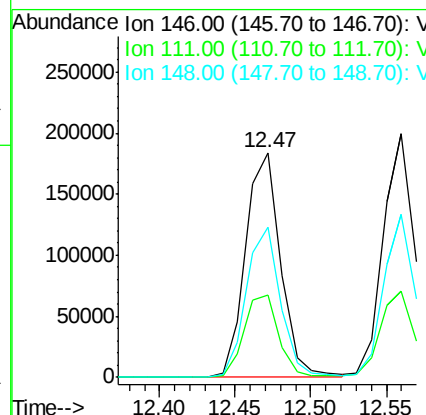
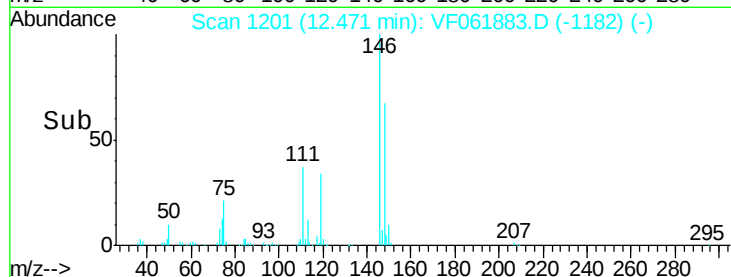
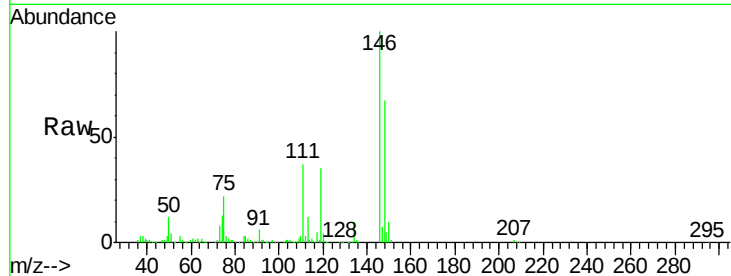
#87
 1,3-Dichlorobenzene
 Concen: 47.197 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	17.0	51.0
148	66.9	32.5	97.5

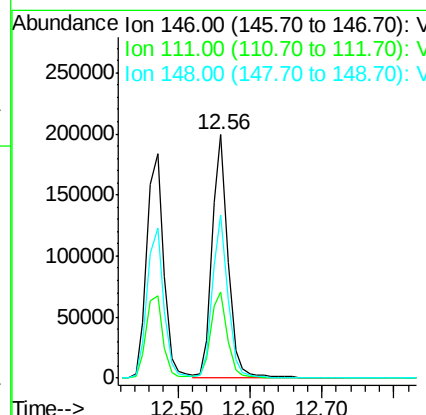
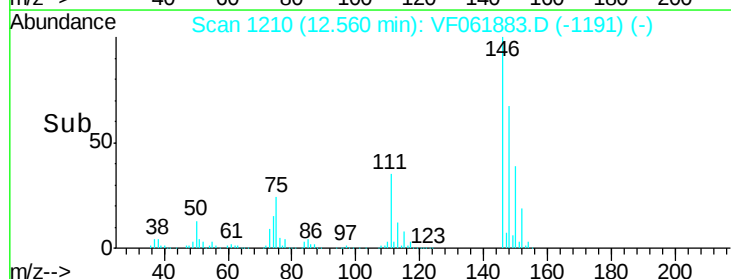
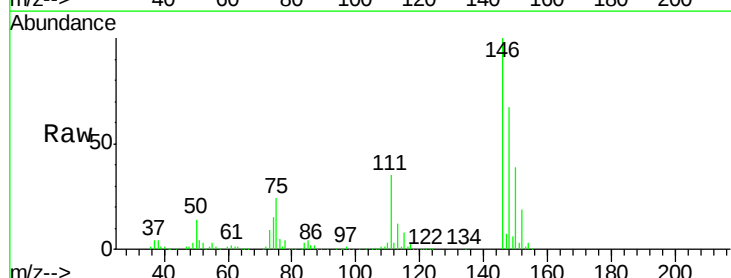
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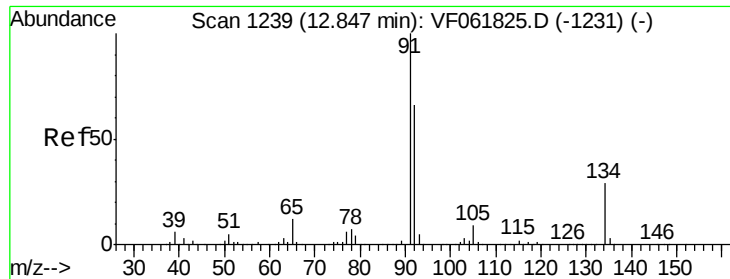
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#88
 1,4-Dichlorobenzene
 Concen: 50.043 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	17.6	52.9
148	67.1	33.5	100.4





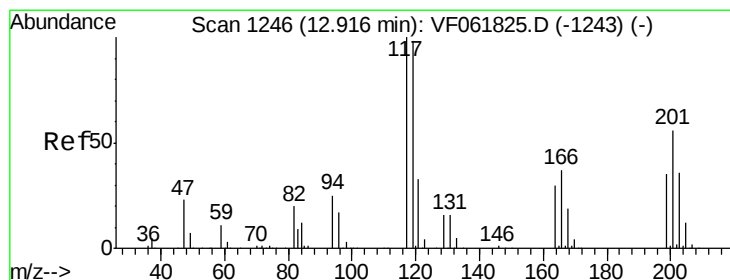
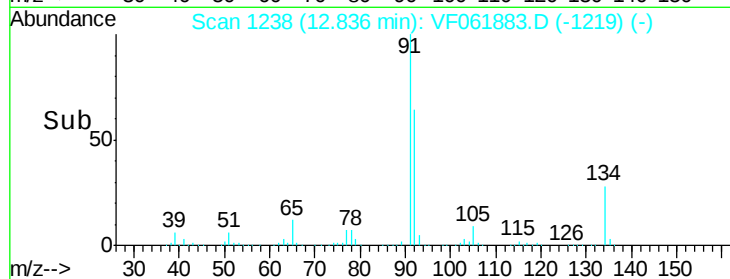
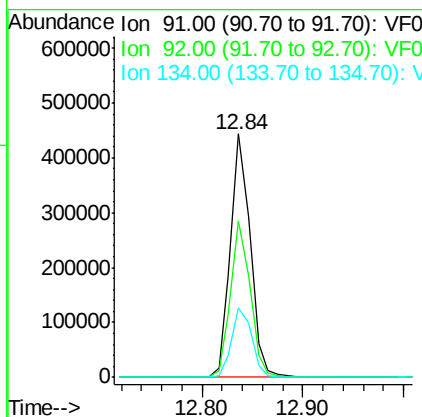
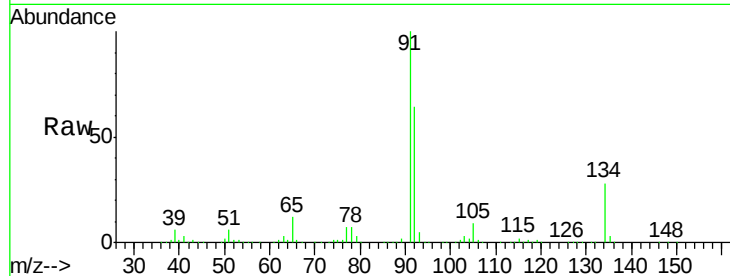
#89
n-Butylbenzene
Concen: 48.710 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.2	32.9	98.6
134	28.4	14.5	43.6

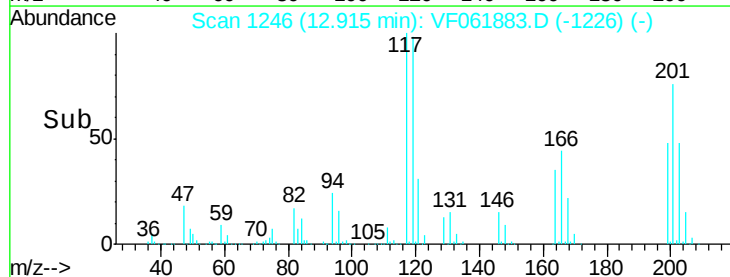
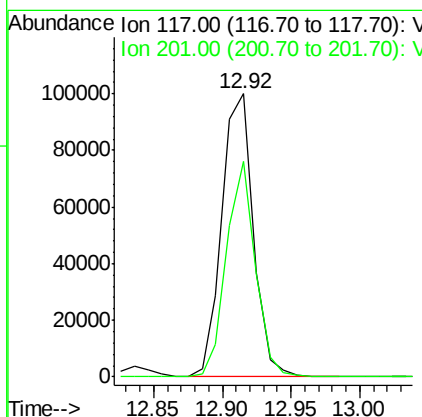
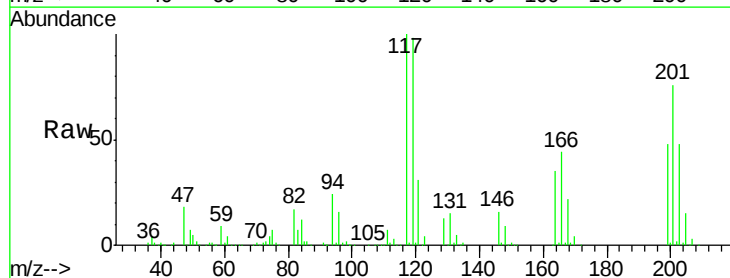
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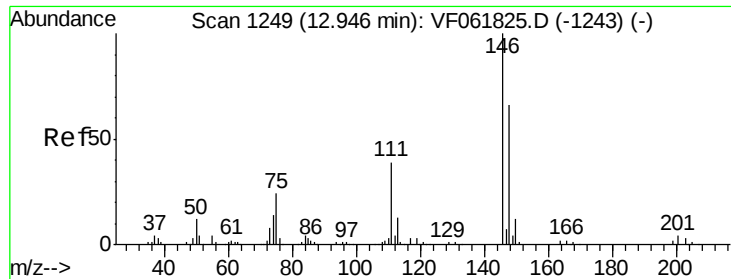
MMDadoda
3/12/2019 4:36:45 PM



#90
Hexachloroethane
Concen: 50.723 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061883.D
Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	76.3	27.8	83.4





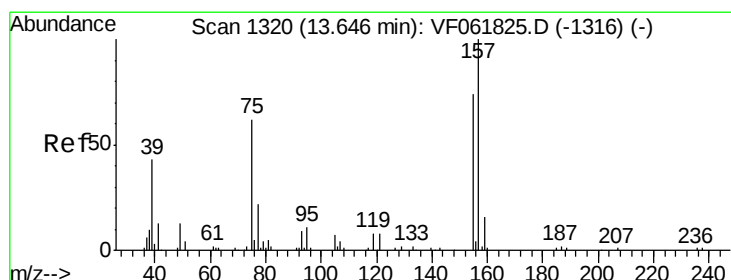
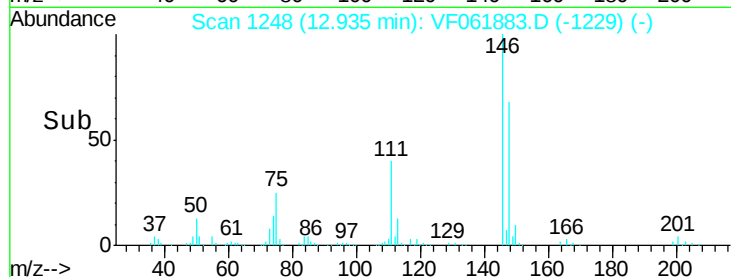
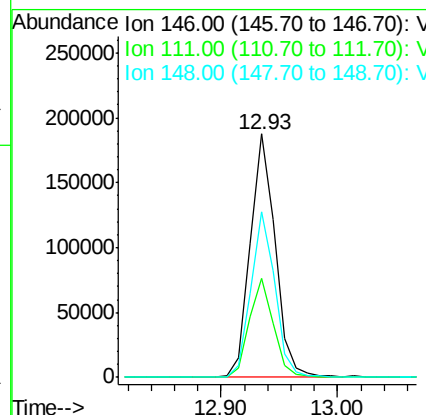
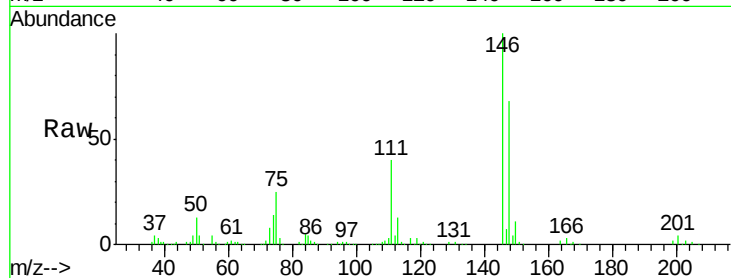
#91
 1,2-Dichlorobenzene
 Concen: 46.932 ug/l
 RT: 12.93 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.4	58.4
148	68.3	33.0	98.9

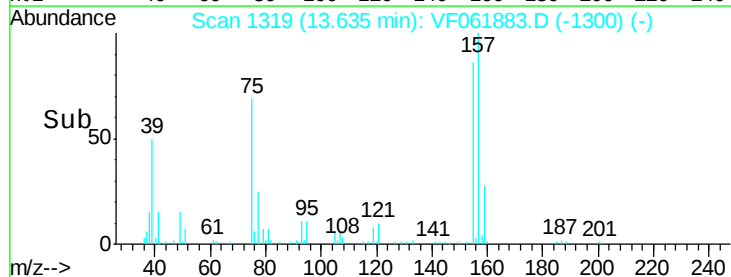
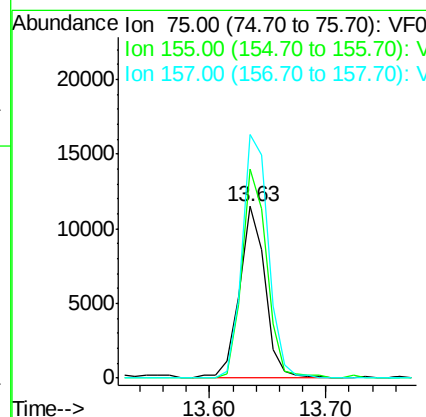
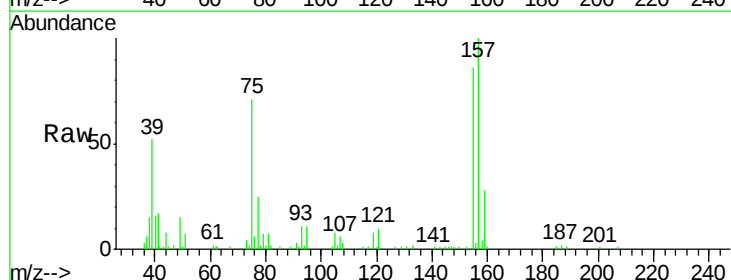
Manual Integrations
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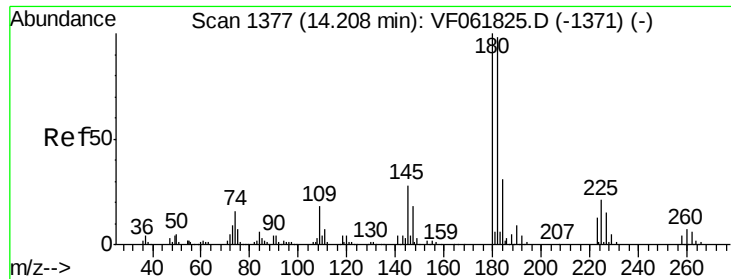
MMDadoda
 3/12/2019 4:36:45 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 45.042 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	122.1	59.8	179.4
157	141.8	81.2	243.4





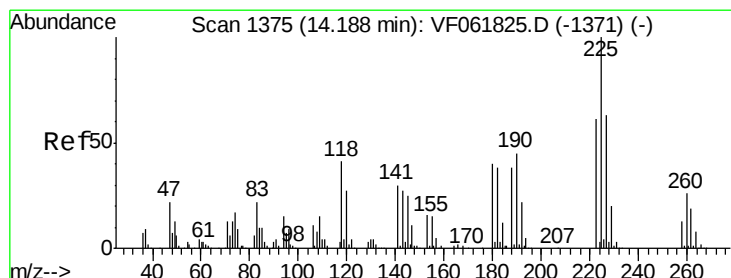
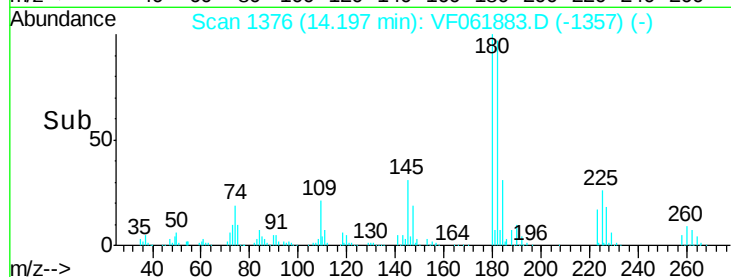
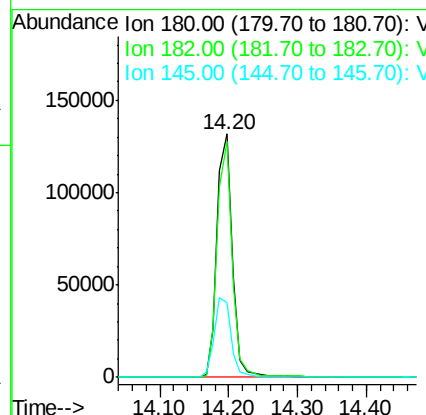
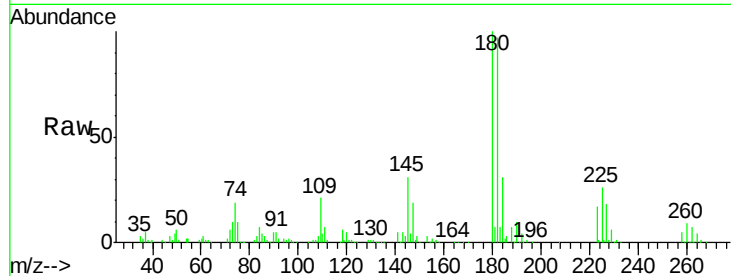
#93
 1,2,4-Trichlorobenzene
 Concen: 49.136 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	205281		
182	97.1	49.0	147.2	
145	30.6	14.1	42.4	

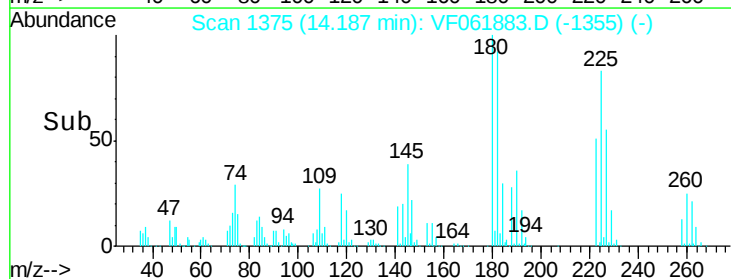
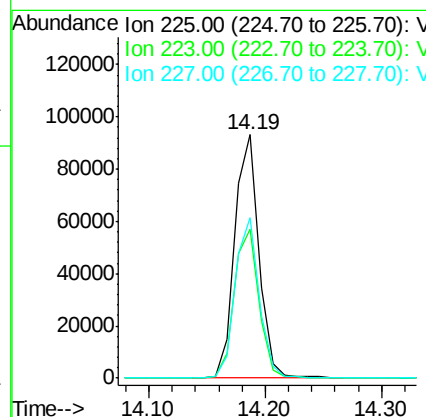
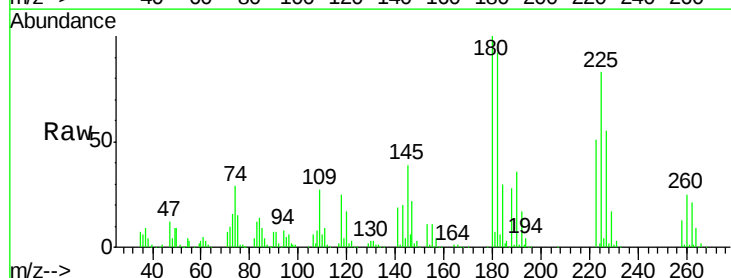
Manual Integrations
 APPROVED

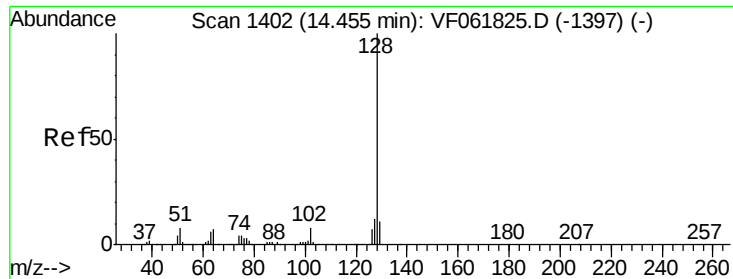
MMDadoda
 3/12/2019 4:36:45 PM



#94
 Hexachlorobutadiene
 Concen: 46.338 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061883.D
 Acq: 11 Mar 2019 11:06

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	134018		
223	61.1	30.3	90.9	
227	65.7	31.3	93.8	





#95

Naphthalene

Concen: 49.854 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Instrument :

MSVOA_F

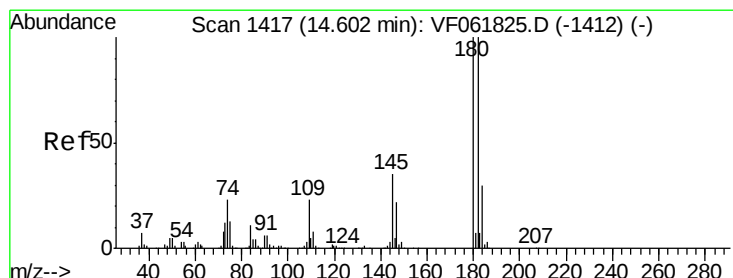
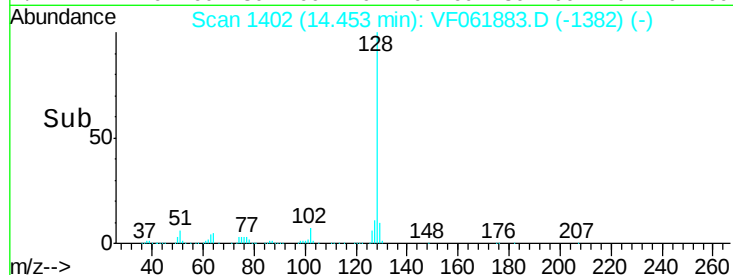
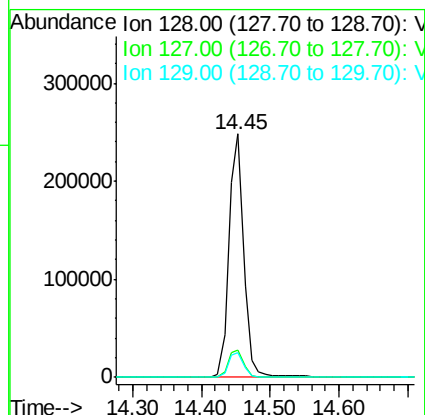
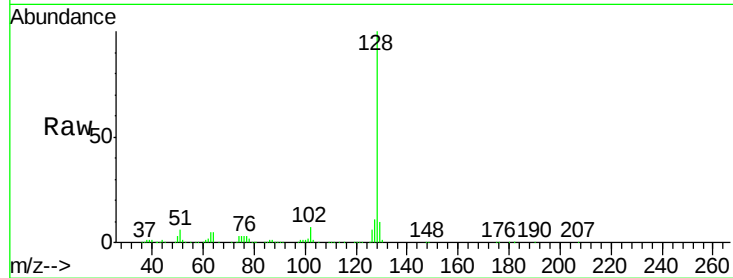
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	370965
Ion Ratio	Lower	Upper	
128	100		
127	11.4	9.3	13.9
129	10.3	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
3/12/2019 4:36:45 PM



#96

1,2,3-Trichlorobenzene

Concen: 49.656 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF061883.D

Acq: 11 Mar 2019 11:06

Tgt Ion:	180	Resp:	191543
Ion Ratio	Lower	Upper	
180	100		
182	95.4	50.2	150.7
145	29.1	17.5	52.5

