

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022219\
 Data File : VF061704.D
 Acq On : 22 Feb 2019 12:36
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 2/27/2019 5:40:29 PM

Quant Time: Feb 23 03:43:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	375508	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	545514	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.75	117	466425	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	252688	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.82	65	140726	51.11	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	102.22%	
35) Dibromofluoromethane	4.09	113	208055	51.36	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	102.72%	
50) Toluene-d8	7.53	98	603996	51.87	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	11.40	95	230125	48.84	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	97.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	195671	45.375	ug/l	98
3) Chloromethane	1.09	50	206683	45.680	ug/l	100
4) Vinyl Chloride	1.13	62	200849	47.751	ug/l	100
5) Bromomethane	1.33	94	141172	48.767	ug/l	97
6) Chloroethane	1.38	64	99658	48.078	ug/l	99
7) Trichlorofluoromethane	1.48	101	254627	50.191	ug/l	96
8) Diethyl Ether	1.63	74	57476	44.956	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.82	101	175269	47.890	ug/l	91
10) Methyl Iodide	1.89	142	330689m	47.302	ug/l	
11) Tert butyl alcohol	2.56	59	36244	227.429	ug/l #	90
12) 1,1-Dichloroethene	1.78	96	160130	49.765	ug/l	94
13) Acrolein	1.99	56	45746	228.396	ug/l	93
14) Allyl chloride	2.09	41	187226	47.417	ug/l	98
15) Acrylonitrile	2.93	53	108664	192.234	ug/l	94
16) Acetone	2.23	43	149489	253.023	ug/l	95
17) Carbon Disulfide	1.82	76	475076	46.970	ug/l	97
18) Methyl Acetate	2.33	43	57299	43.051	ug/l	99
19) Methyl tert-butyl Ether	2.41	73	251880	45.803	ug/l	98
20) Methylene Chloride	2.17	84	161645m	51.115	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	161535	46.180	ug/l	97
22) Diisopropyl ether	2.79	45	461630	48.705	ug/l	97
23) Vinyl Acetate	3.17	43	989686	213.784	ug/l	98
24) 1,1-Dichloroethane	2.86	63	280616	48.924	ug/l	100
25) 2-Butanone	4.31	43	292005	226.270	ug/l	96
26) 2,2-Dichloropropane	3.58	77	134034	55.168	ug/l	96
27) cis-1,2-Dichloroethene	3.46	96	222945	48.558	ug/l	95
28) Bromochloromethane	3.70	49	132639	48.195	ug/l	98
29) Tetrahydrofuran	4.05	42	120317	205.126	ug/l	95
30) Chloroform	3.84	83	315804	48.414	ug/l	97
31) Cyclohexane	3.68	56	302807	48.767	ug/l	95
32) 1,1,1-Trichloroethane	4.07	97	234535	54.889	ug/l	94
36) 1,1-Dichloropropene	4.26	75	271199	50.185	ug/l	95
37) Ethyl Acetate	4.09	43	102605	40.878	ug/l #	80
38) Carbon Tetrachloride	3.97	117	201011	53.869	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	341398	53.418	ug/l	97
40) Benzene	4.61	78	681134	48.188	ug/l	100
41) Methacrylonitrile	4.72	41	60825	47.385	ug/l	94
42) 1,2-Dichloroethane	4.92	62	172048	50.884	ug/l	95
43) Isopropyl Acetate	6.94	43	126369	42.533	ug/l #	100
44) Trichloroethene	5.48	130	230494	50.426	ug/l	95
45) 1,2-Dichloropropane	6.21	63	166124	48.621	ug/l	98
46) Dibromomethane	6.06	93	96828	46.028	ug/l	93
47) Bromodichloromethane	6.37	83	224347	48.699	ug/l	98
48) Methyl methacrylate	6.69	41	76471	42.770	ug/l	95
49) 1,4-Dioxane	6.68	88	13219	786.483	ug/l	99
51) 4-Methyl-2-Pentanone	8.24	43	427309	201.283	ug/l	95
52) Toluene	7.60	92	412226	48.086	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	180189	46.997	ug/l	98
54) cis-1,3-Dichloropropene	7.29	75	263623	51.620	ug/l	97
55) 1,1,2-Trichloroethane	8.47	97	118845	47.185	ug/l	96
56) Ethyl methacrylate	8.60	69	132747	47.338	ug/l	99
57) 1,3-Dichloropropane	8.83	76	191944	45.657	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.28	63	94018	194.319	ug/l	97
59) 2-Hexanone	9.47	43	304306	204.491	ug/l	98
60) Dibromochloromethane	8.70	129	168282	48.002	ug/l	96
61) 1,2-Dibromoethane	8.96	107	129792	47.510	ug/l	97
64) Tetrachloroethene	8.13	164	195116	51.178	ug/l	98
65) Chlorobenzene	9.78	112	473713	50.050	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.91	131	189066	50.978	ug/l	98
67) Ethyl Benzene	9.88	91	798680	50.742	ug/l	97
68) m/p-Xylenes	10.12	106	600389	99.668	ug/l	94
69) o-Xylene	10.70	106	331789	51.618	ug/l	96
70) Styrene	10.78	104	465423	51.183	ug/l	97
71) Bromoform	10.76	173	94659	47.002	ug/l	97
73) Isopropylbenzene	11.11	105	918532	51.055	ug/l	95
74) N-amyl acetate	11.36	43	194887	45.131	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	142228	44.127	ug/l	94
76) 1,2,3-Trichloropropane	11.78	75	99226	45.280	ug/l	99
77) Bromobenzene	11.48	156	225339	50.700	ug/l	90
78) n-propylbenzene	11.57	91	1027015	49.746	ug/l	98
79) 2-Chlorotoluene	11.70	91	579675	50.135	ug/l	96
80) 1,3,5-Trimethylbenzene	11.81	105	723128	50.290	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.85	75	45070m	42.901	ug/l	
82) 4-Chlorotoluene	11.88	91	601062	50.084	ug/l	94
83) tert-Butylbenzene	12.12	119	782018	49.102	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	726909	50.885	ug/l	98
85) sec-Butylbenzene	12.29	105	1051028	51.032	ug/l	97
86) p-Isopropyltoluene	12.44	119	886921	51.313	ug/l	100
87) 1,3-Dichlorobenzene	12.46	146	423575	48.885	ug/l	97
88) 1,4-Dichlorobenzene	12.55	146	418750	50.252	ug/l	97
89) n-Butylbenzene	12.83	91	822500	50.394	ug/l	96
90) Hexachloroethane	12.91	117	217545	54.117	ug/l	99
91) 1,2-Dichlorobenzene	12.93	146	386410	46.886	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	21620	42.308	ug/l	81

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	274283	46.431	ug/l	99
94) Hexachlorobutadiene	14.18	225	189472	51.934	ug/l	96
95) Naphthalene	14.44	128	471150	45.585	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	263236	48.549	ug/l	98

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

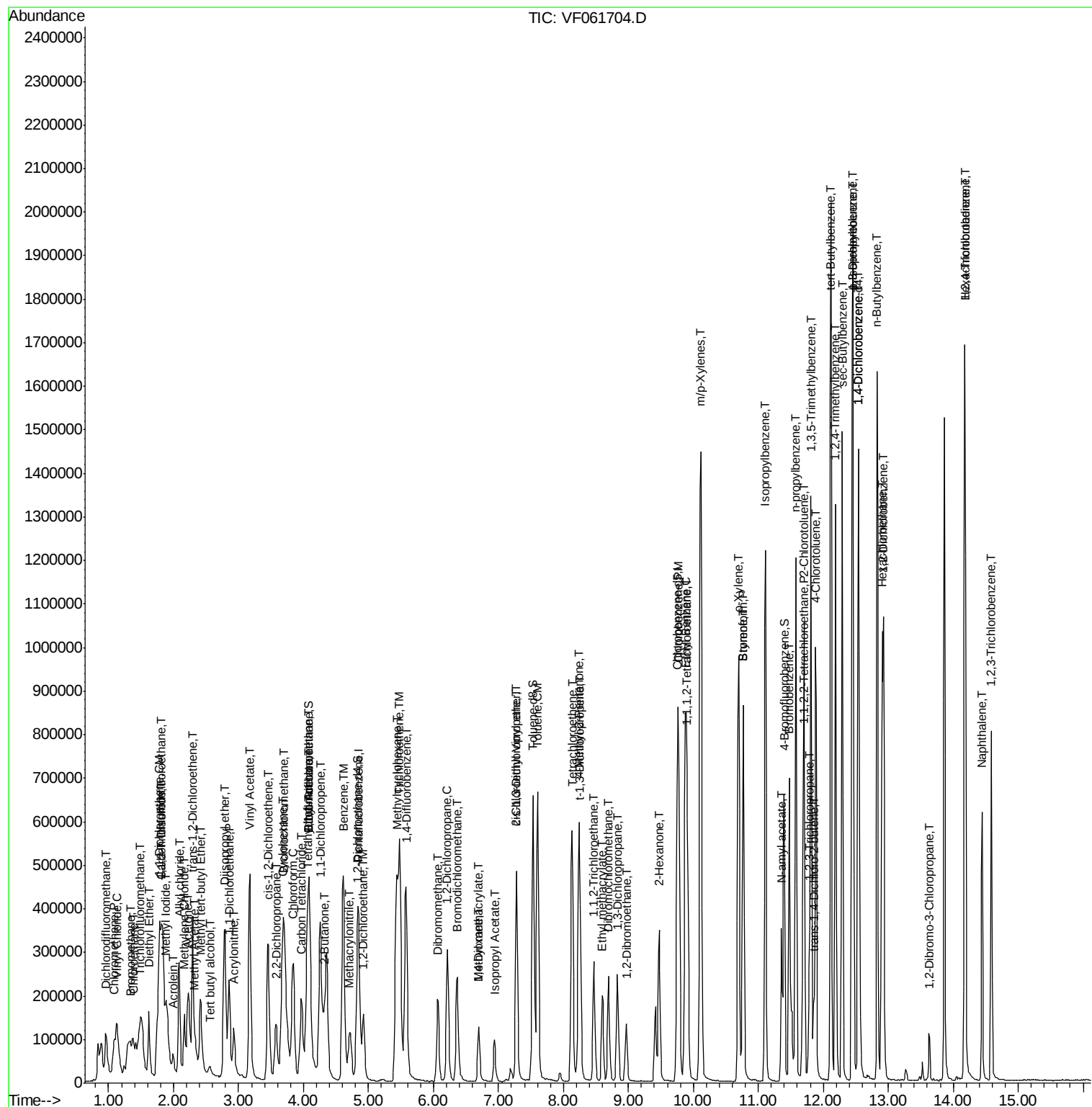
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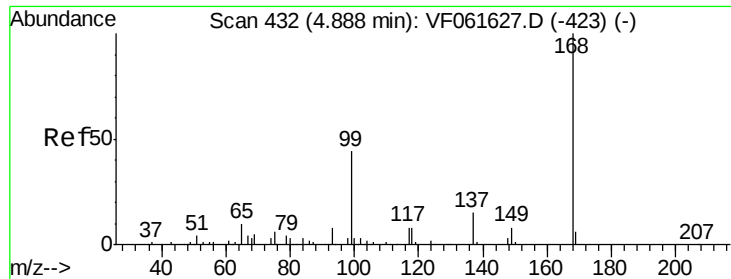
Instrument :
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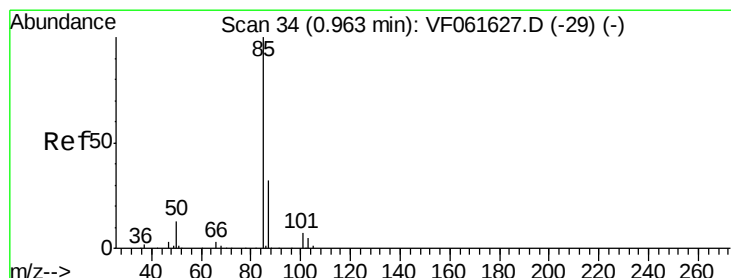
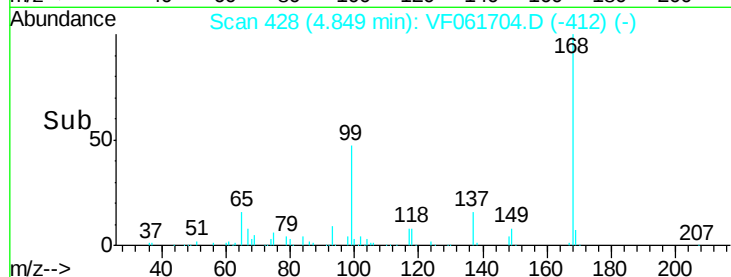
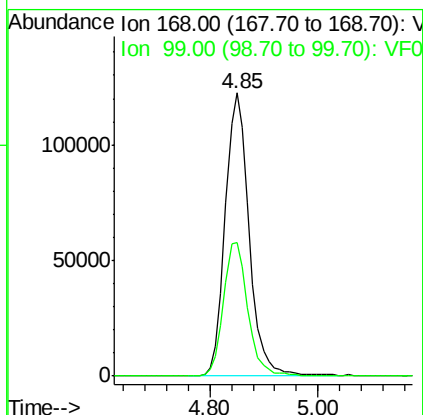
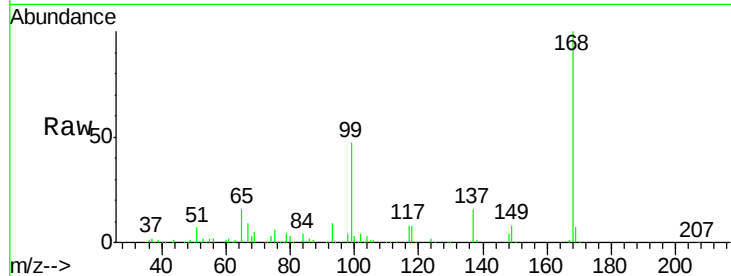
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.04 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
168	100		
99	47.3	34.9	52.3

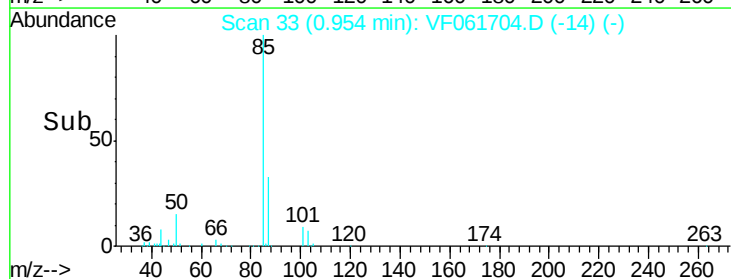
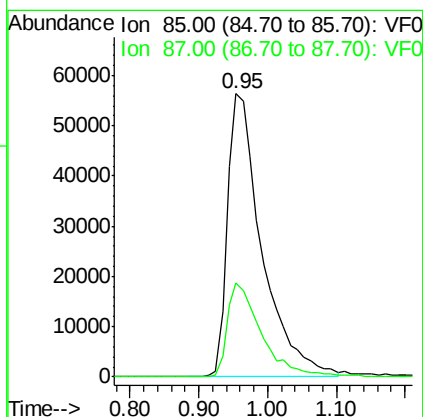
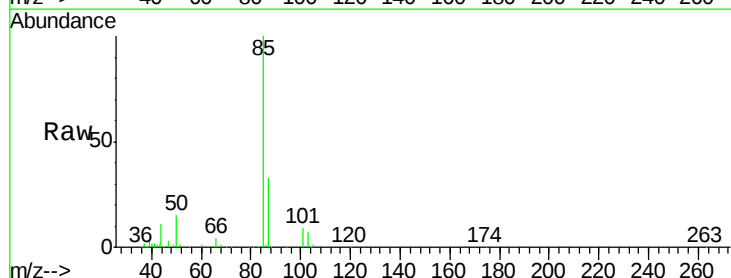
Manual Integrations
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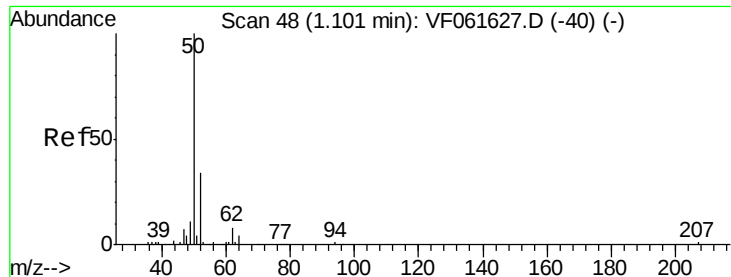
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#2
Dichlorodifluoromethane
Concen: 45.375 ug/l
RT: 0.95 min Scan# 33
Delta R.T. -0.01 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.1	48.2





#3

Chloromethane

Concen: 45.680 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 206683

Ion Ratio Lower Upper

50 100

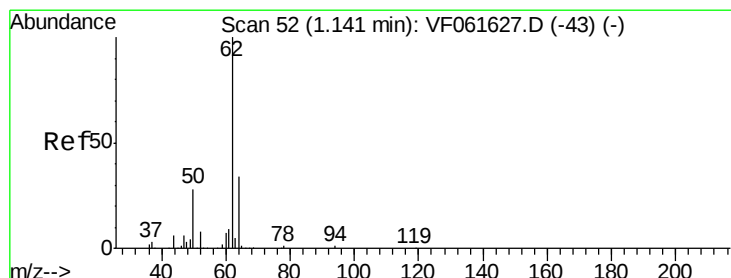
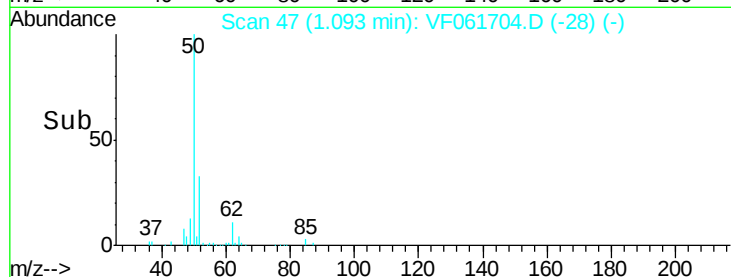
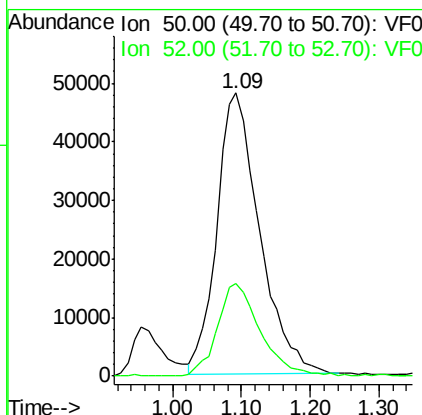
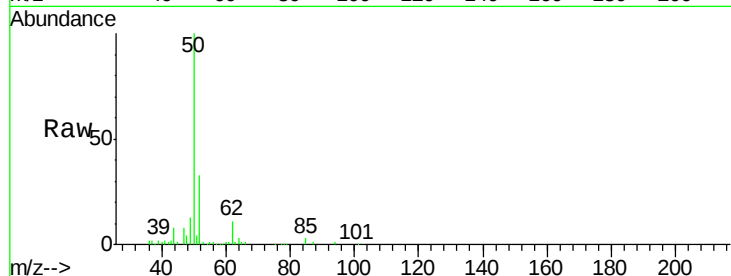
52 32.8 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 47.751 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061704.D

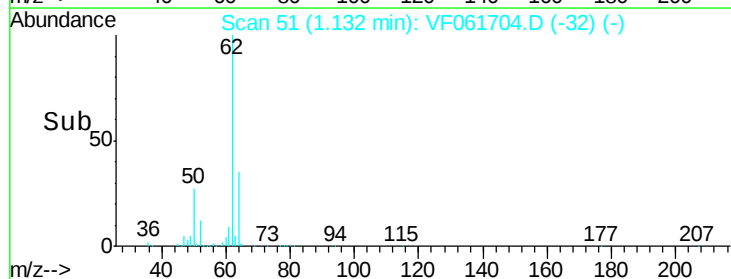
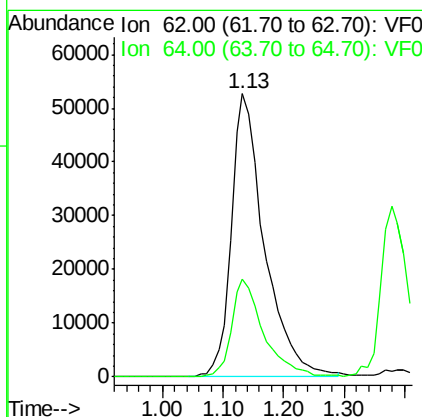
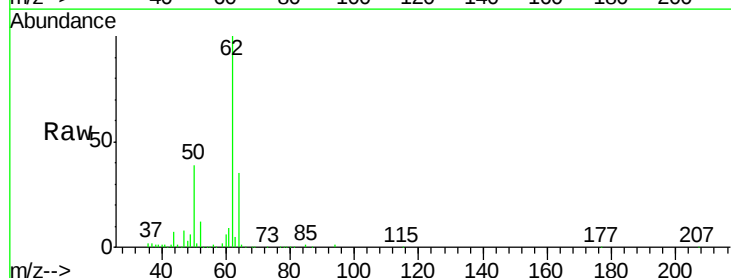
Acq: 22 Feb 2019 12:36

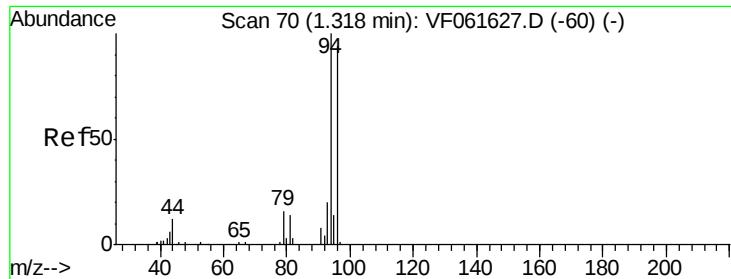
Tgt Ion: 62 Resp: 200849

Ion Ratio Lower Upper

62 100

64 34.6 27.5 41.3





#5

Bromomethane

Concen: 48.767 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 141172

Ion Ratio Lower Upper

94 100

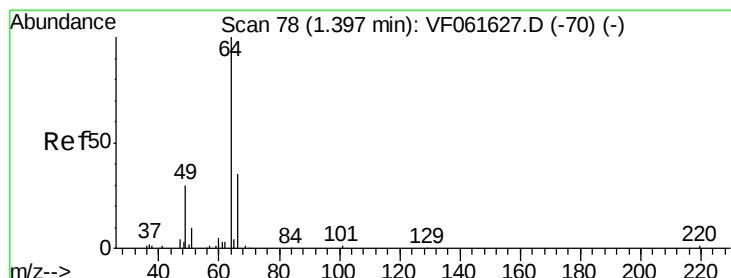
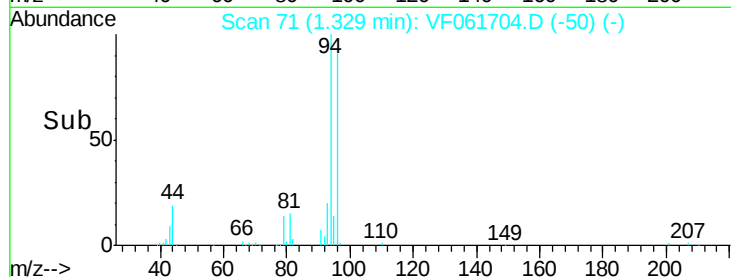
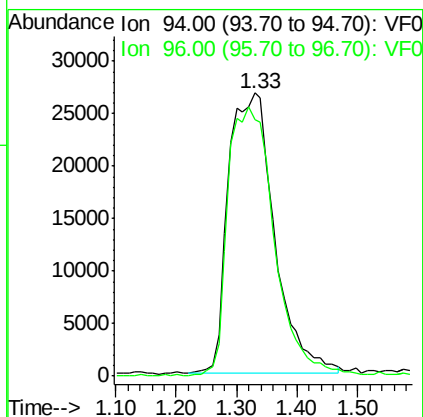
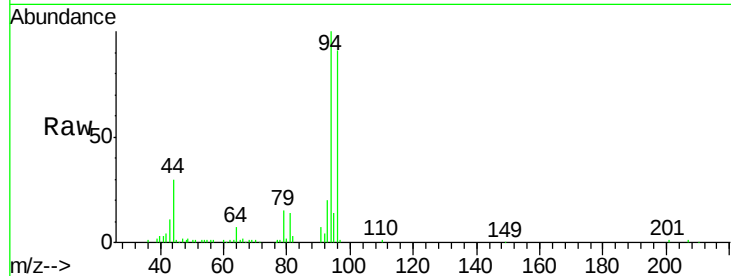
96 90.5 74.6 112.0

Manual Integrations

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#6

Chloroethane

Concen: 48.078 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.02 min

Lab File: VF061704.D

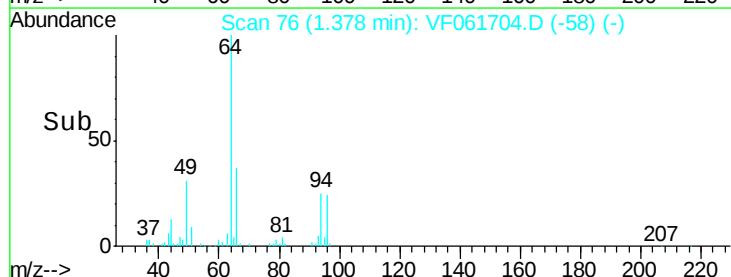
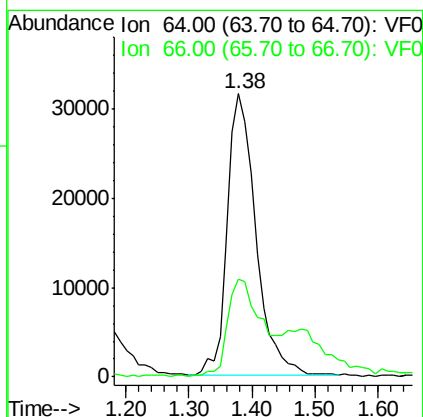
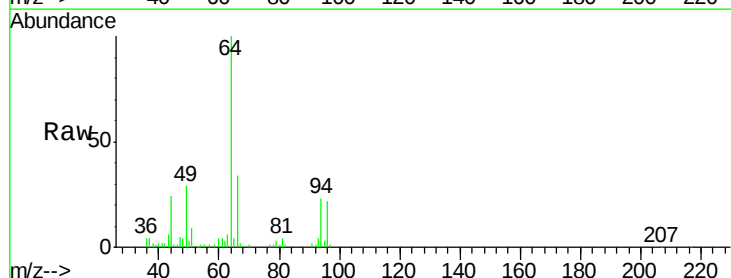
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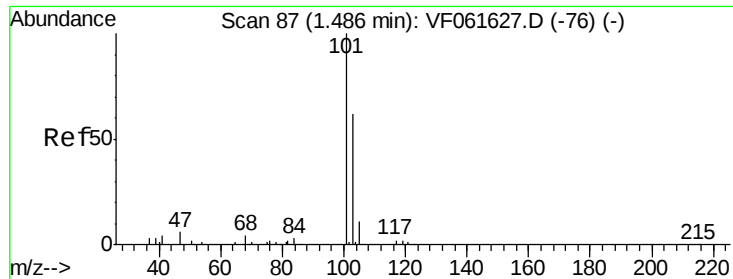
Tgt Ion: 64 Resp: 99658

Ion Ratio Lower Upper

64 100

66 34.3 27.9 41.9





#7

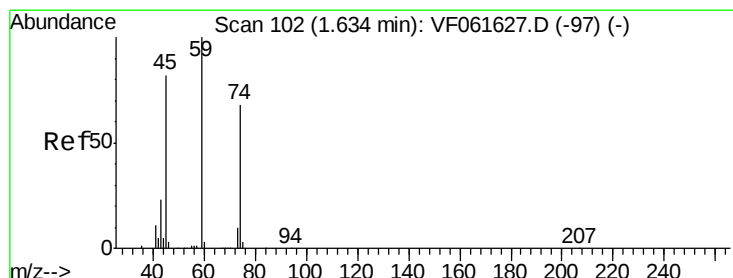
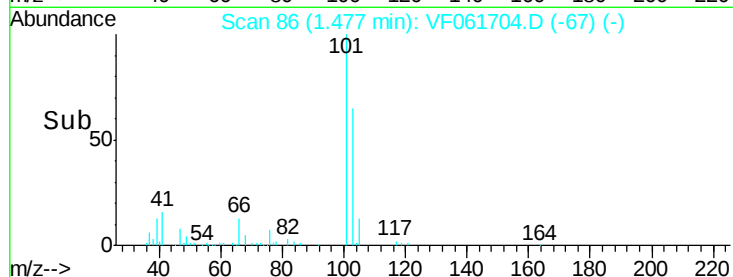
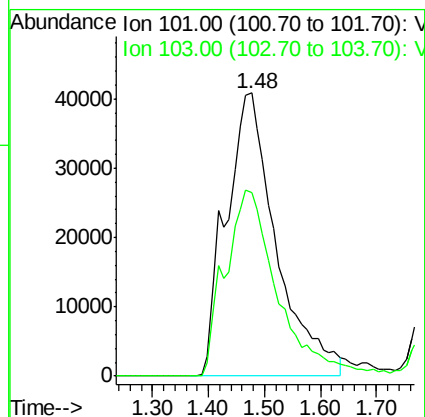
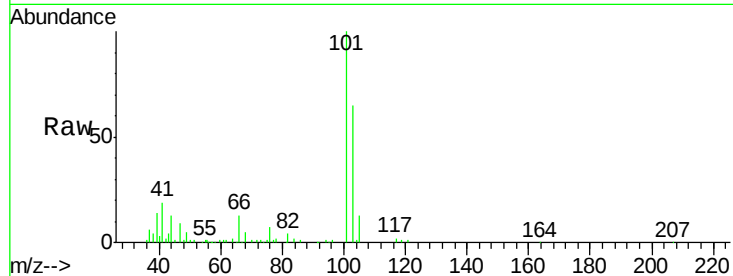
Trichlorofluoromethane
Concen: 50.191 ug/l
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
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ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 254627
Ion Ratio Lower Upper
101 100
103 64.9 49.3 73.9

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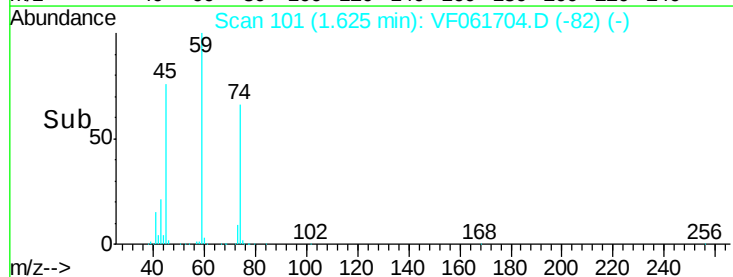
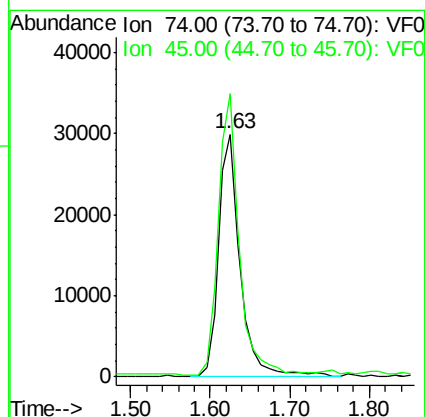
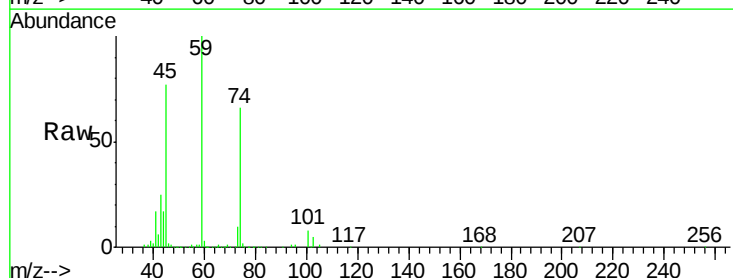
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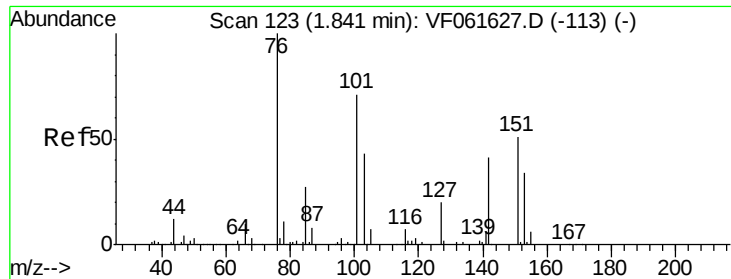


#8

Diethyl Ether
Concen: 44.956 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion: 74 Resp: 57476
Ion Ratio Lower Upper
74 100
45 116.7 60.8 182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.890 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

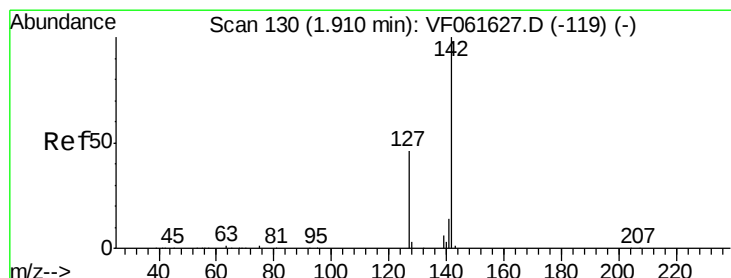
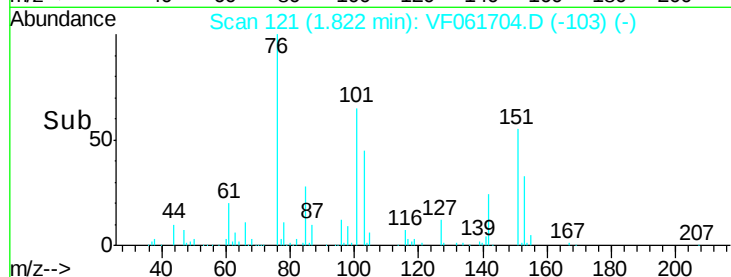
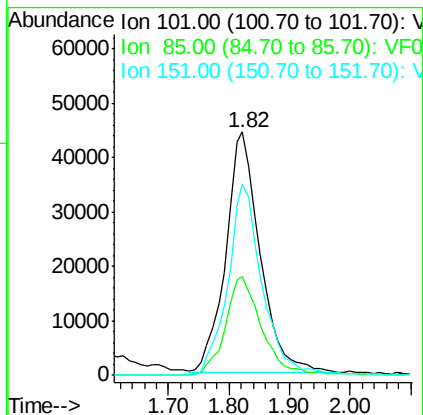
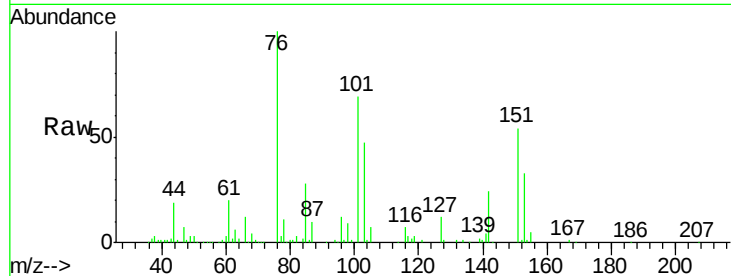
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	175269
Ion Ratio	Lower	Upper	
101	100		
85	40.7	29.8	44.6
151	78.7	56.3	84.5

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:29 PM



#10

Methyl Iodide

Concen: 47.302 ug/l m

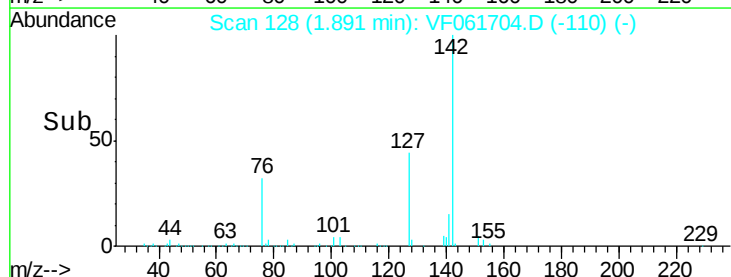
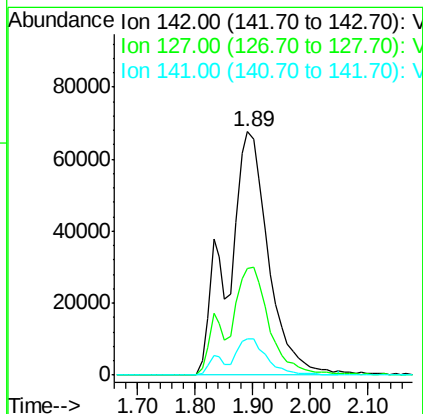
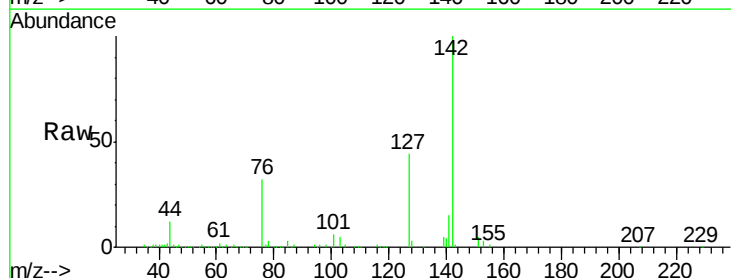
RT: 1.89 min Scan# 128

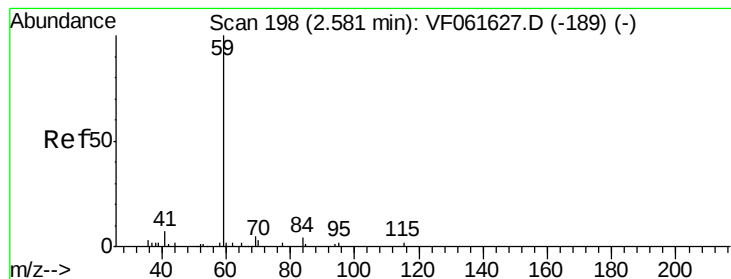
Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion:	142	Resp:	330689
Ion Ratio	Lower	Upper	
142	100		
127	44.1	36.6	55.0
141	14.7	11.0	16.6





#11

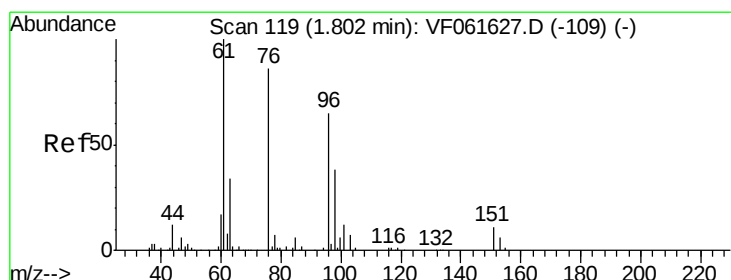
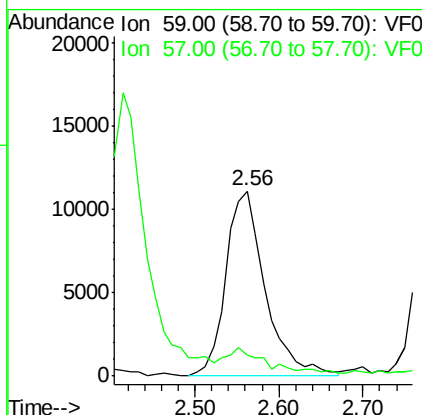
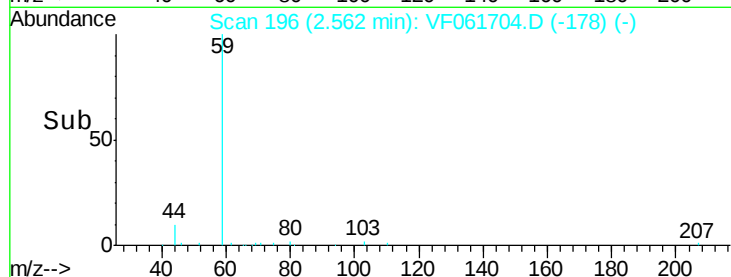
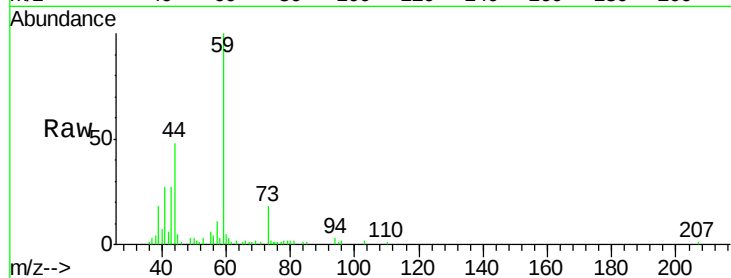
Tert butyl alcohol
Concen: 227.429 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 36244
Ion Ratio Lower Upper
59 100
57 11.4 12.5 18.7#

Manual Integrations
APPROVED

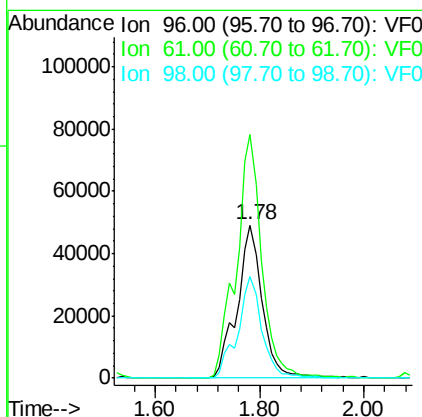
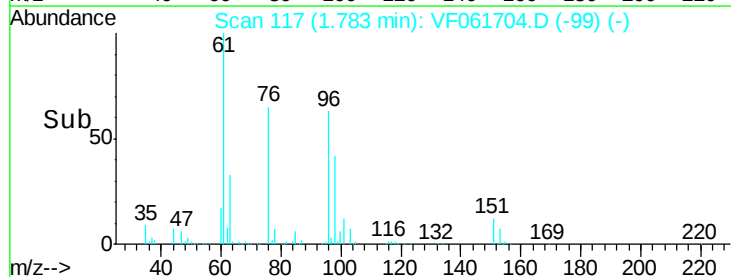
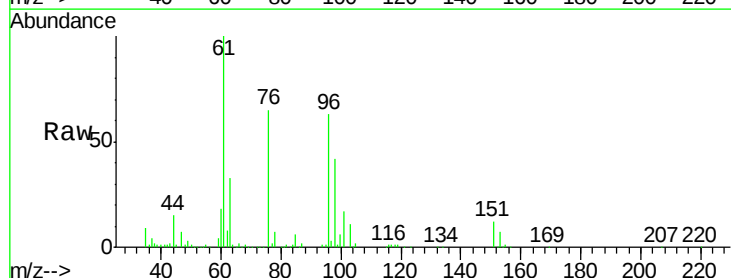
MMDadoda
2/27/2019 5:40:29 PM

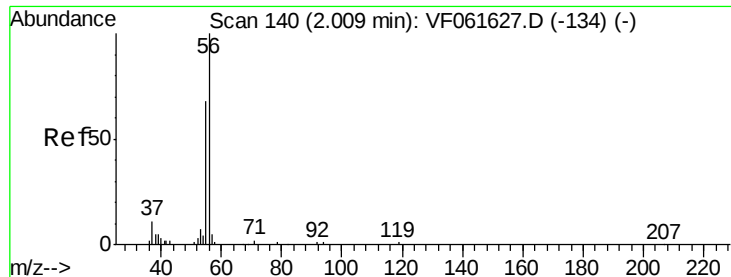


#12

1,1-Dichloroethene
Concen: 49.765 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion: 96 Resp: 160130
Ion Ratio Lower Upper
96 100
61 159.0 122.6 184.0
98 66.2 47.2 70.8





#13

Acrolein

Concen: 228.396 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 45746

Ion Ratio Lower Upper

56 100

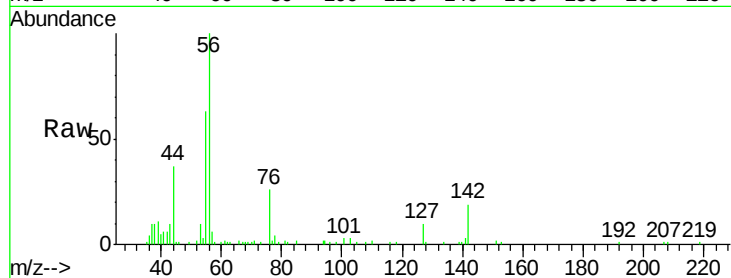
55 62.7 55.0 82.6

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:29 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

20000

15000

10000

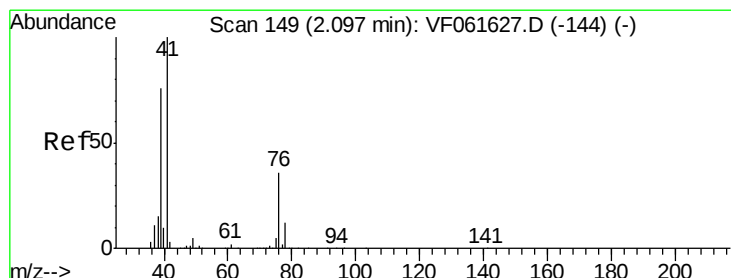
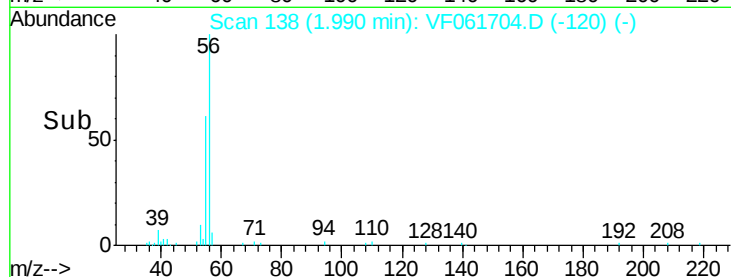
5000

0

1.99

1.90 2.00 2.10 2.20

Time-->



#14

Allyl chloride

Concen: 47.417 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

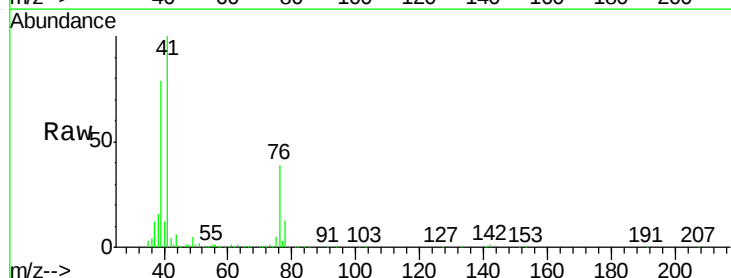
Tgt Ion: 41 Resp: 187226

Ion Ratio Lower Upper

41 100

39 79.1 61.6 92.4

76 39.4 30.3 45.5



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

120000

100000

80000

60000

40000

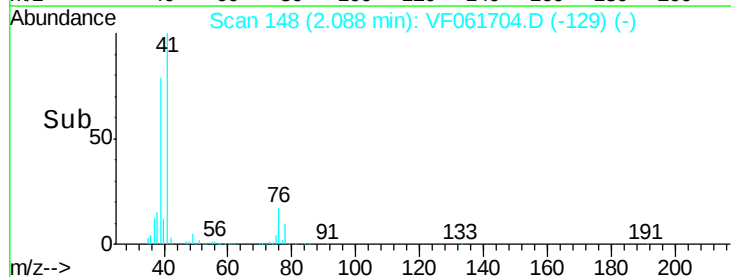
20000

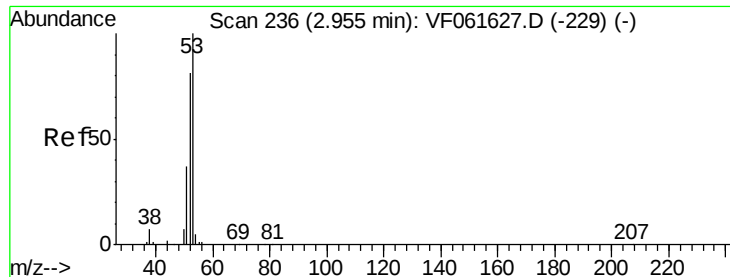
0

2.09

2.00 2.05 2.10 2.15

Time-->





#15

Acrylonitrile

Concen: 192.234 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

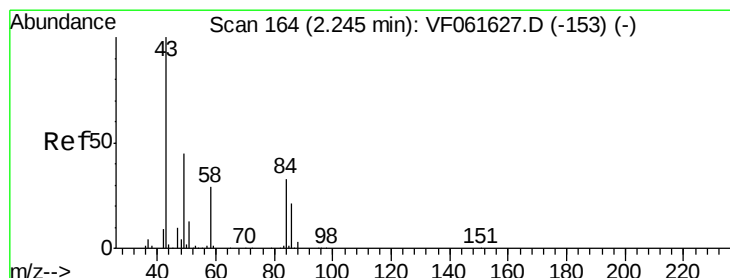
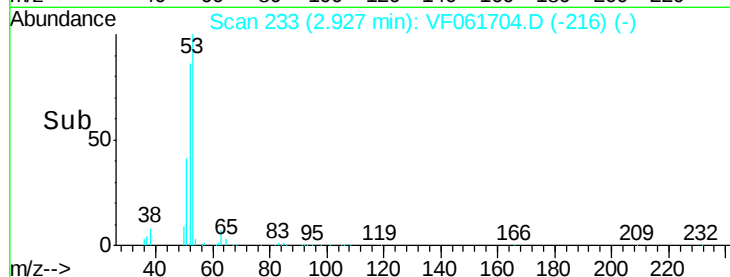
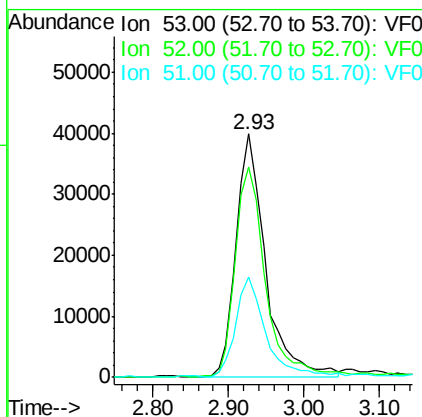
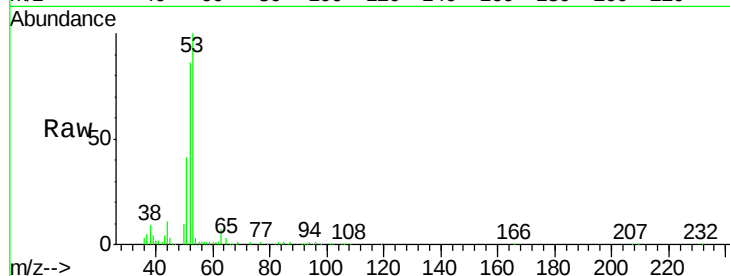
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	108664
Ion Ratio	Lower	Upper	
53	100		
52	86.3	64.6	97.0
51	41.1	29.8	44.8

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:29 PM



#16

Acetone

Concen: 253.023 ug/l

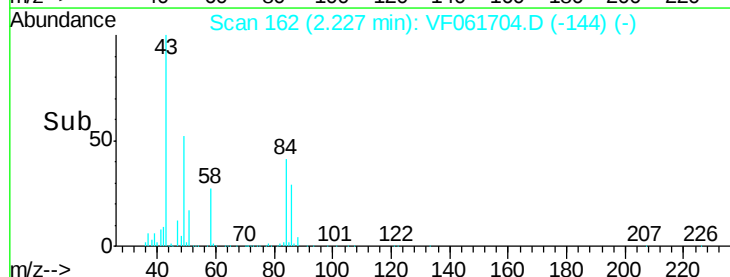
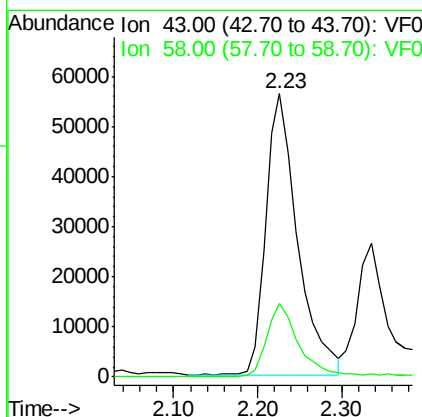
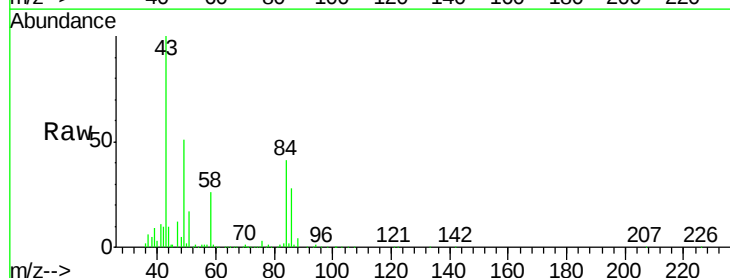
RT: 2.23 min Scan# 162

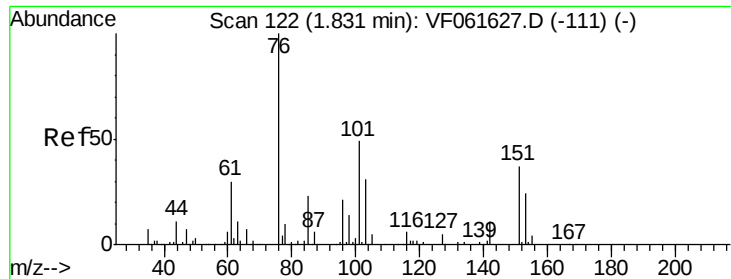
Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion:	43	Resp:	149489
Ion Ratio	Lower	Upper	
43	100		
58	26.1	22.9	34.3





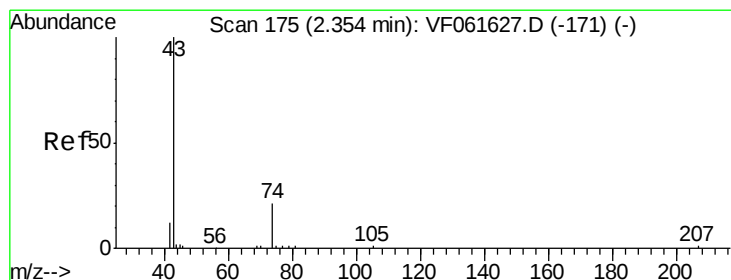
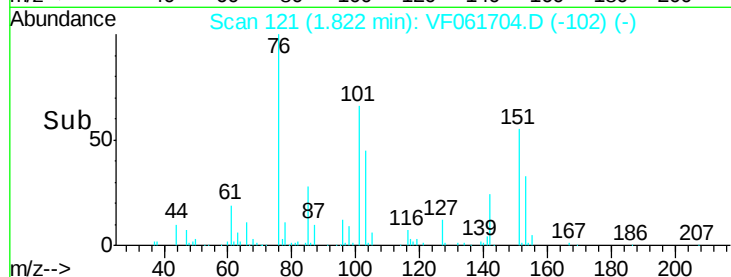
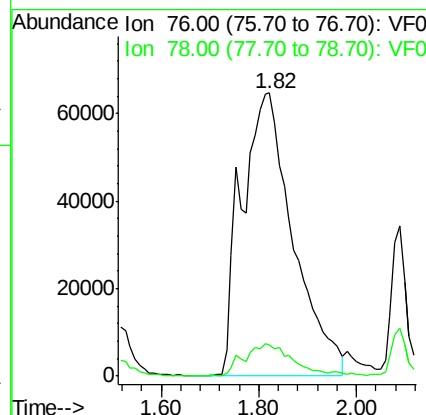
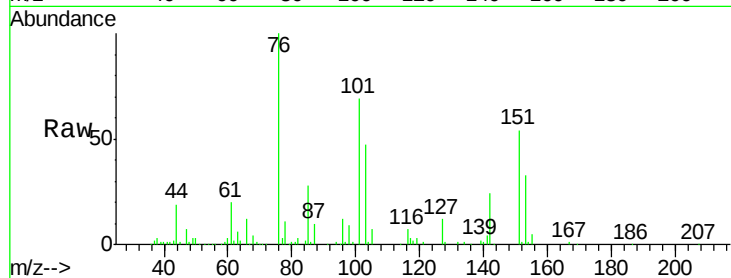
#17
Carbon Disulfide
Concen: 46.970 ug/l
RT: 1.82 min Scan# 121
Delta R.T. -0.01 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 475076
Ion Ratio Lower Upper
76 100
78 11.0 7.9 11.9

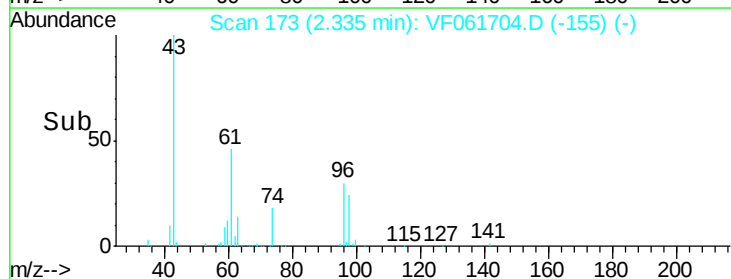
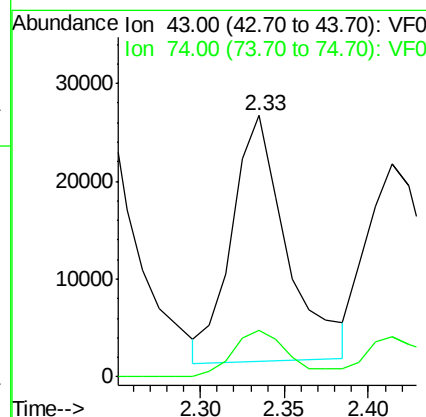
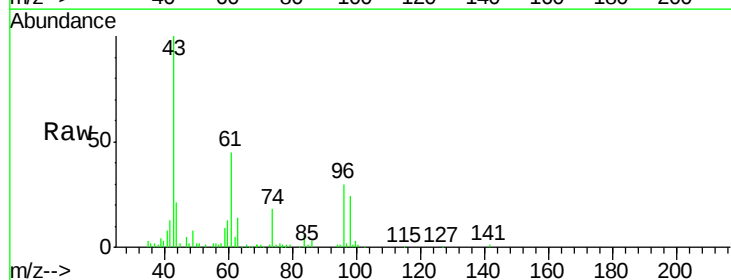
Manual Integrations
APPROVED

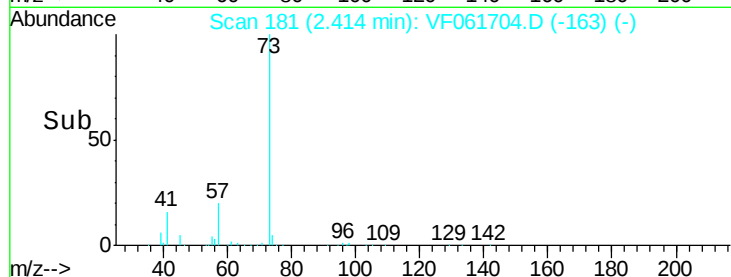
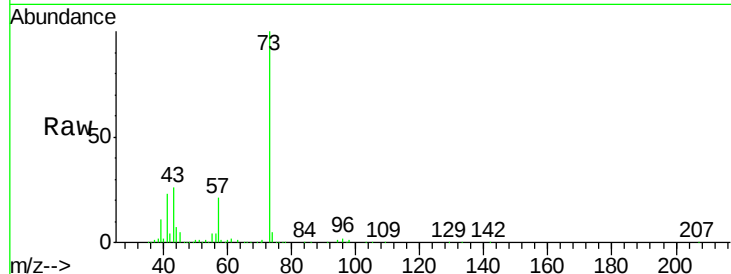
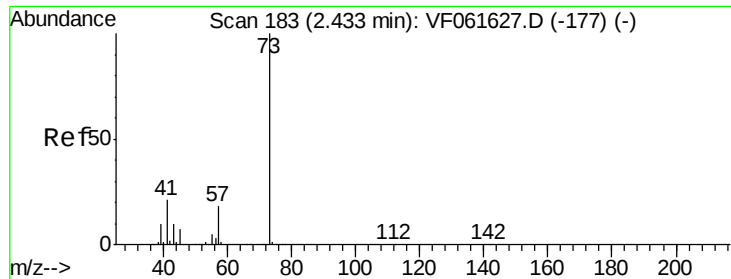
MMDadoda
2/27/2019 5:40:29 PM



#18
Methyl Acetate
Concen: 43.051 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion: 43 Resp: 57299
Ion Ratio Lower Upper
43 100
74 17.9 14.6 21.8





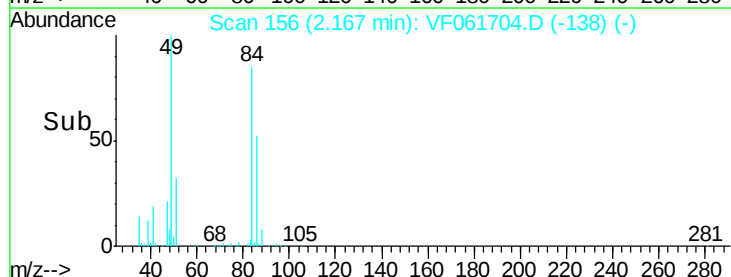
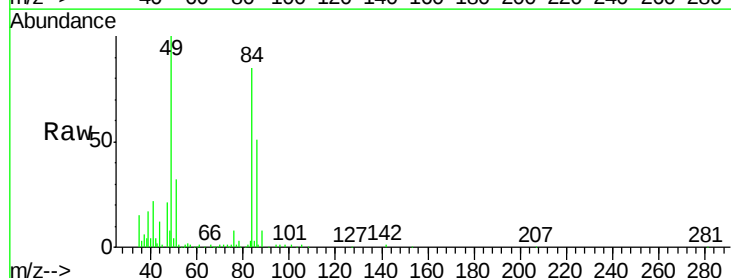
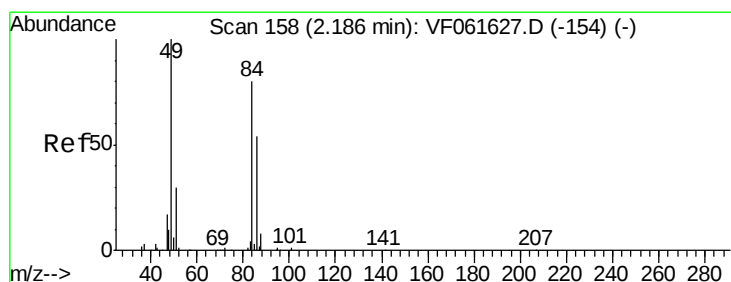
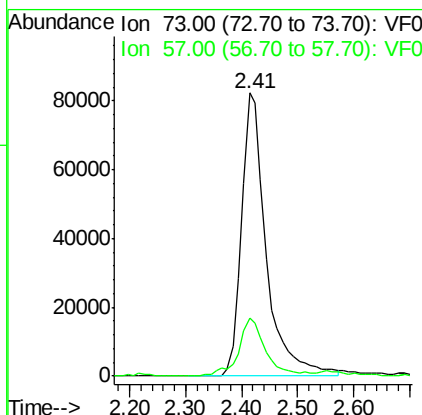
#19
Methvl tert-butvl Ether
Concen: 45.803 ug/l
RT: 2.41 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tot Ion: 73 Resp: 251880
Ion Ratio Lower Upper
73 100
57 20.6 15.8 23.8

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

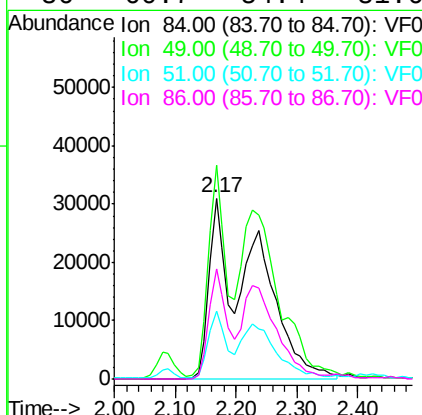
Manual Integrations
APPROVED

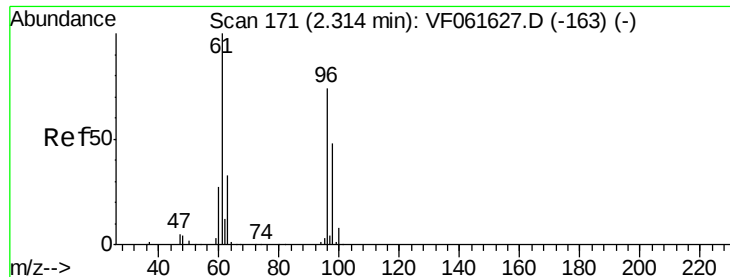
MMDadoda
2/27/2019 5:40:29 PM



#20
Methylene Chloride
Concen: 51.115 ug/l m
RT: 2.17 min Scan# 156
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion: 84 Resp: 161645
Ion Ratio Lower Upper
84 100
49 118.2 101.8 152.8
51 37.3 31.1 46.7
86 60.7 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 46.180 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

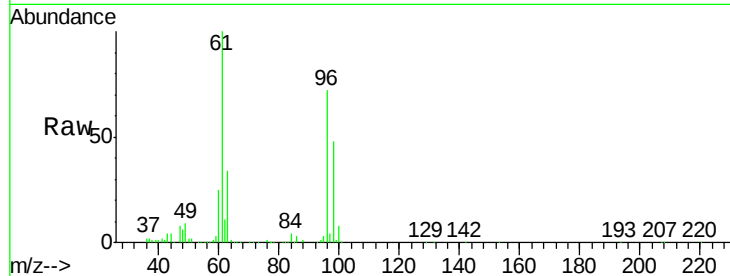
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	161535
Ion Ratio	Lower	Upper	
96	100		
61	139.6	108.2	162.4
98	66.6	52.2	78.2

Manual Integrations
APPROVED

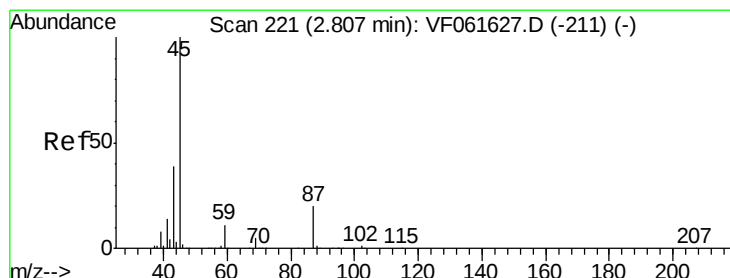
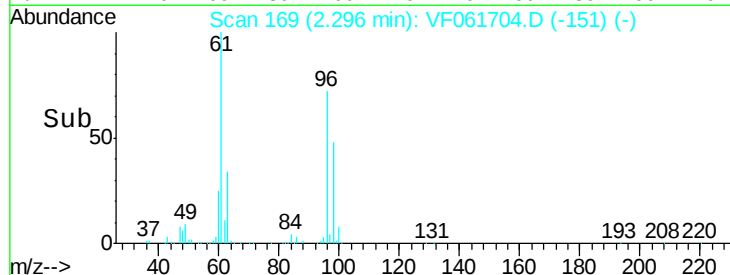
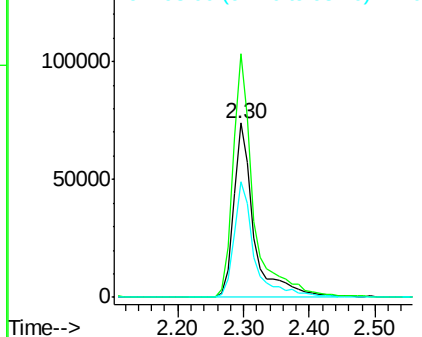
MMDadoda
2/27/2019 5:40:29 PM



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 48.705 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

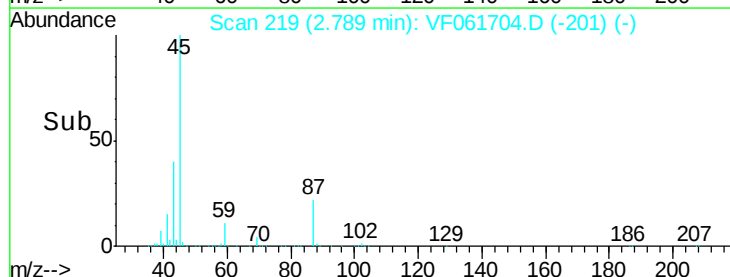
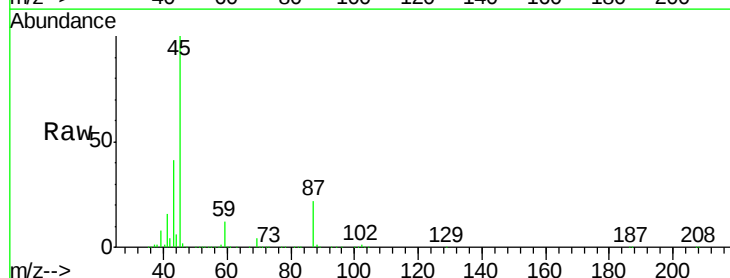
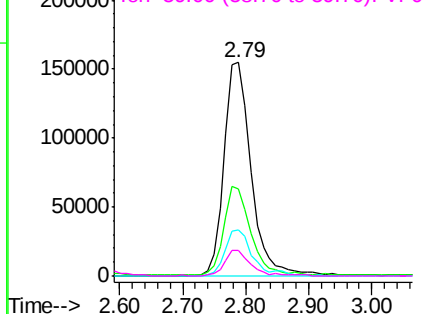
Tgt Ion:	45	Resp:	461630
Ion Ratio	Lower	Upper	
45	100		
43	40.7	31.4	47.2
87	21.8	16.3	24.5
59	12.3	8.7	13.1

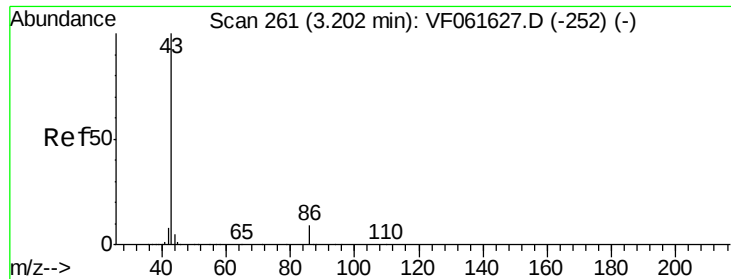
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 213.784 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 989686

Ion Ratio Lower Upper

43 100

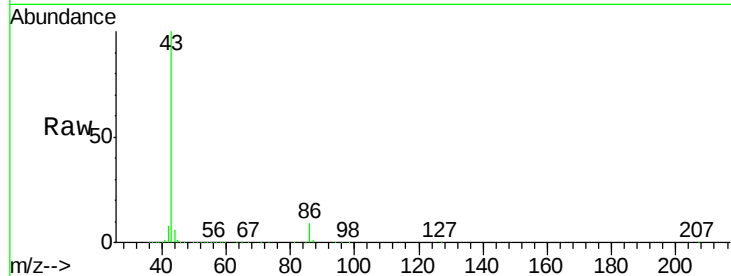
86 8.8 7.5 11.3

Manual Integrations

APPROVED

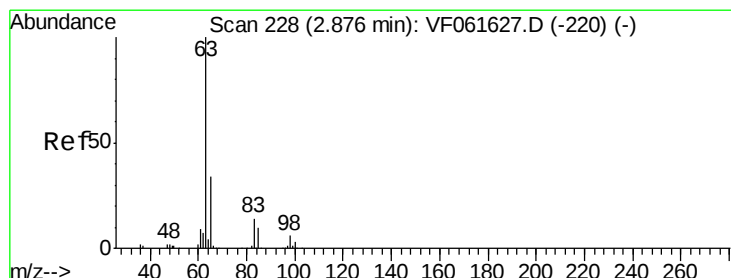
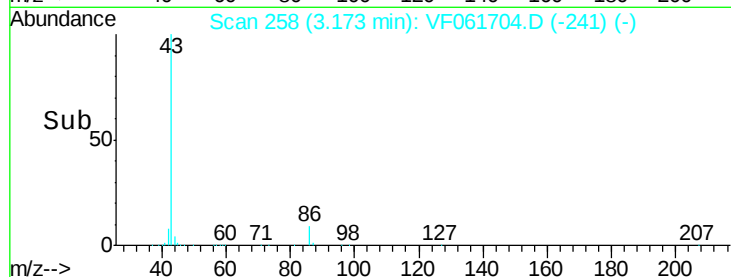
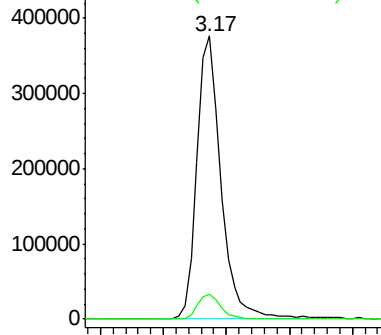
MMDadoda

2/27/2019 5:40:29 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 48.924 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

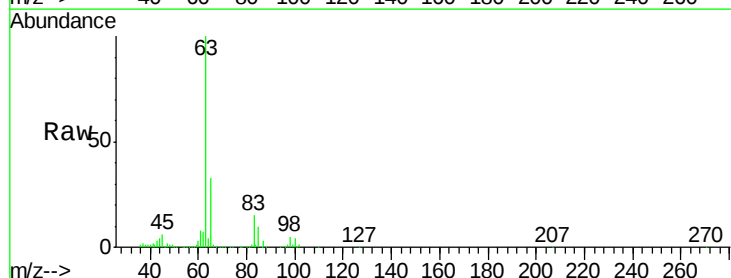
Tgt Ion: 63 Resp: 280616

Ion Ratio Lower Upper

63 100

98 5.4 2.8 8.3

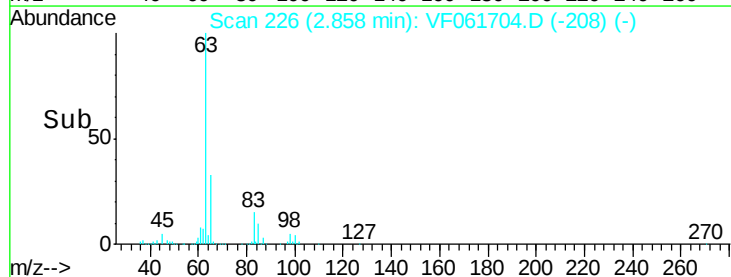
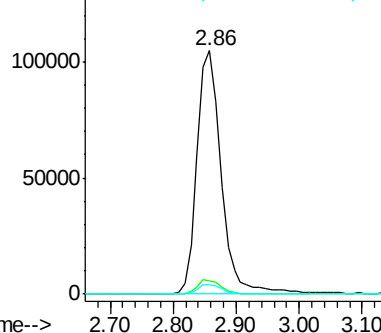
100 3.7 1.8 5.4

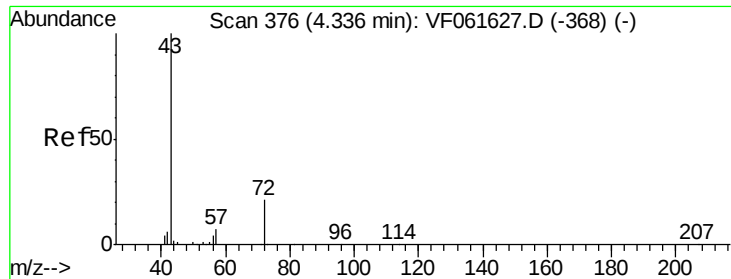


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 226.270 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 292005

Ion Ratio Lower Upper

43 100

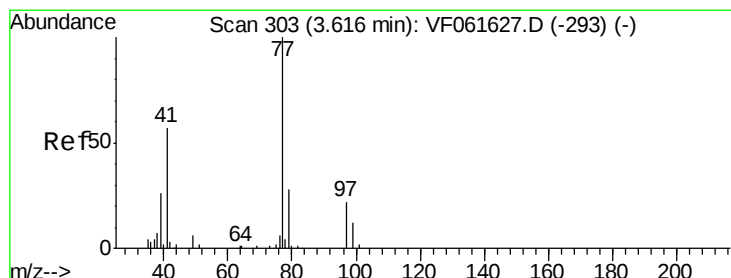
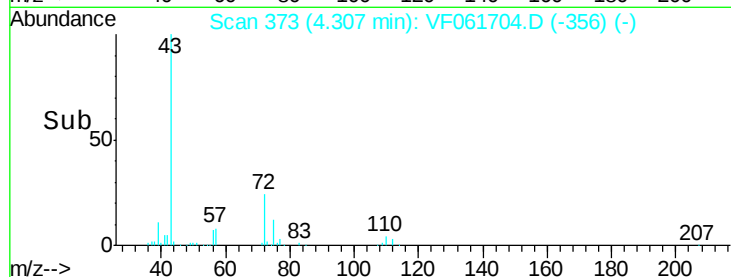
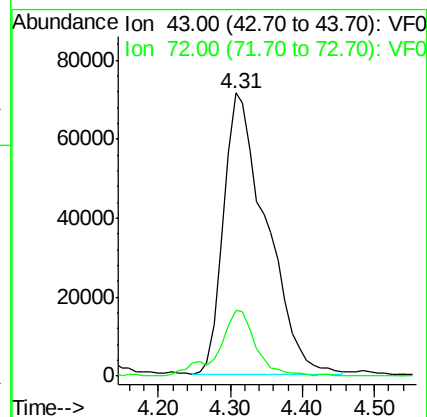
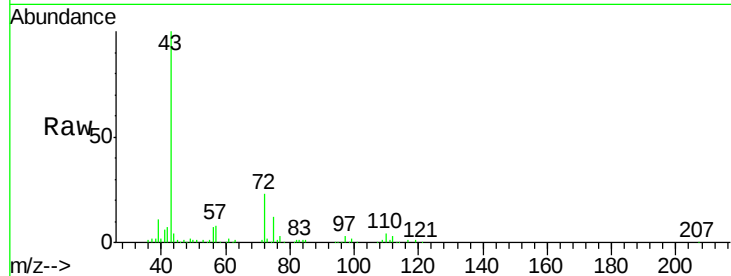
72 23.3 17.1 25.7

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 55.168 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF061704.D

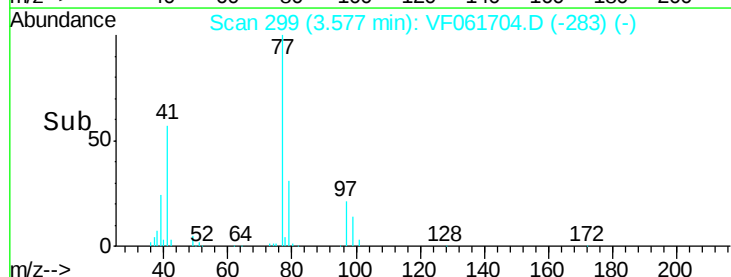
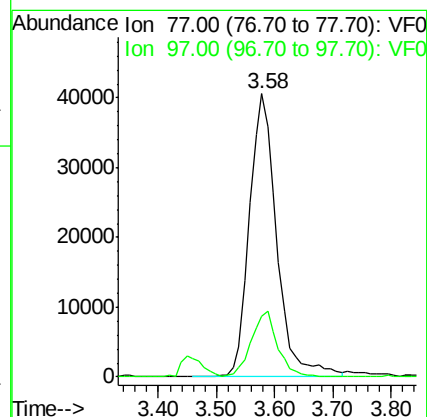
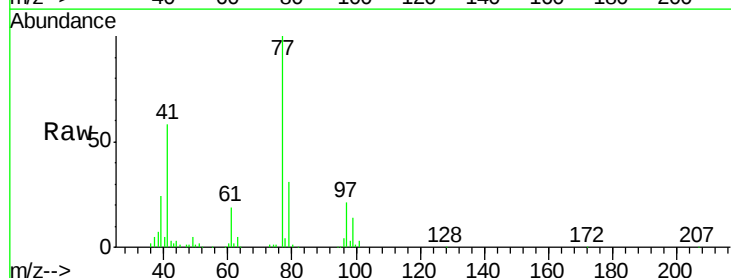
Acq: 22 Feb 2019 12:36

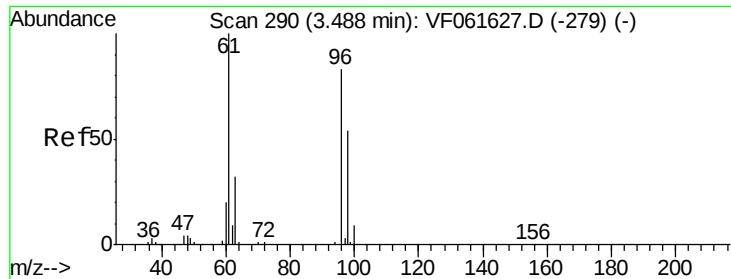
Tgt Ion: 77 Resp: 134034

Ion Ratio Lower Upper

77 100

97 21.4 11.7 35.0





#27

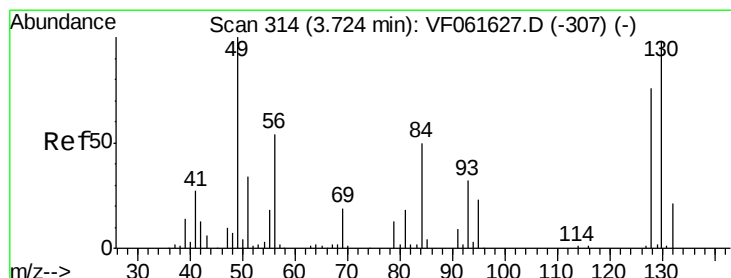
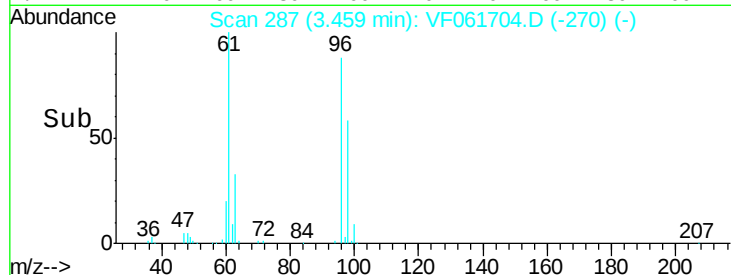
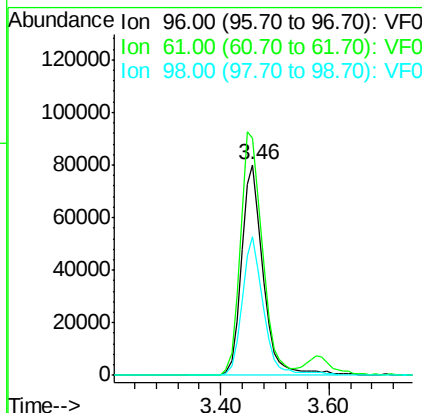
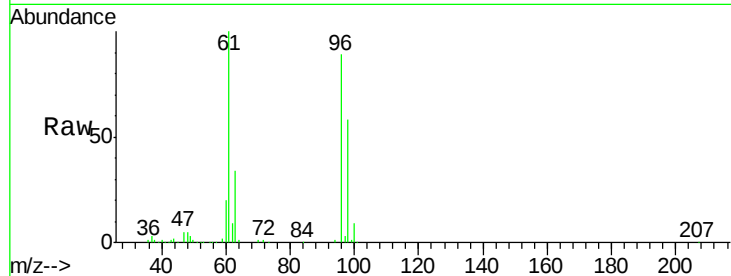
cis-1,2-Dichloroethene
Concen: 48.558 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	222945		
61	112.9	0.0	241.6	
98	66.0	0.0	130.2	

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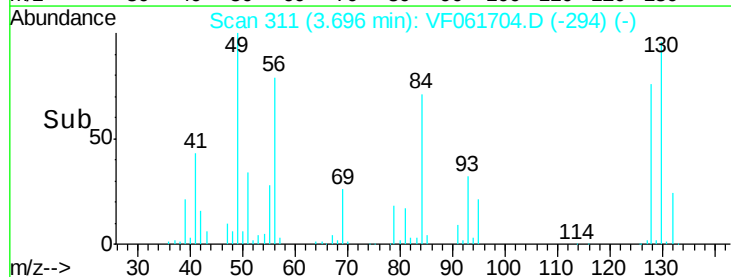
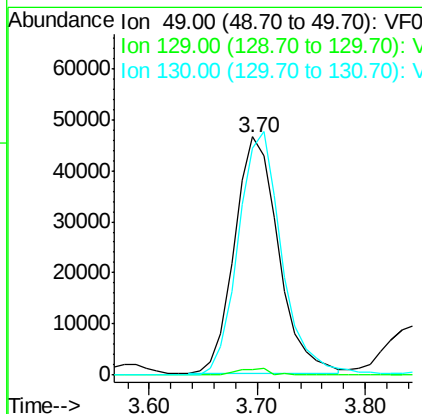
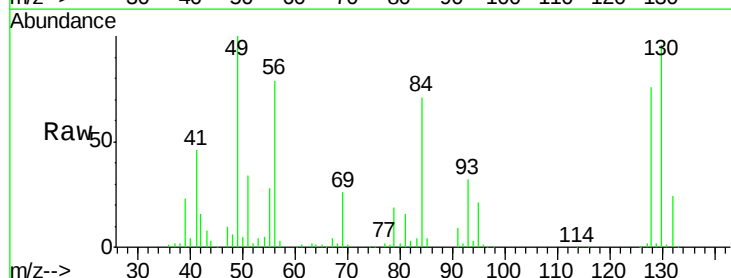
MMDadoda
2/27/2019 5:40:29 PM

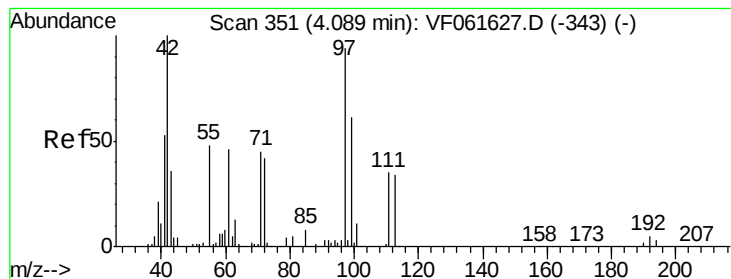


#28

Bromochloromethane
Concen: 48.195 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	132639		
129	2.3	0.0	3.4	
130	95.6	77.7	116.5	





#29

Tetrahydrofuran

Concen: 205.126 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.04 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

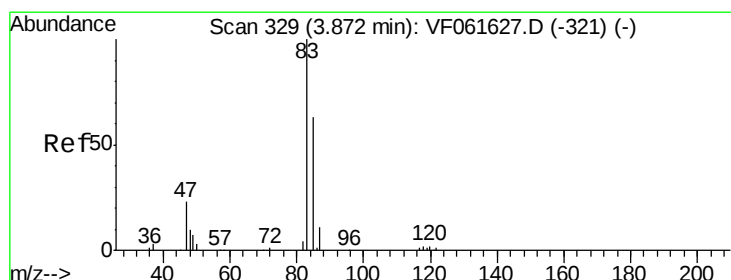
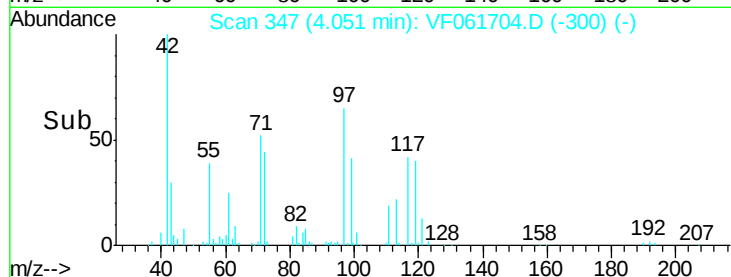
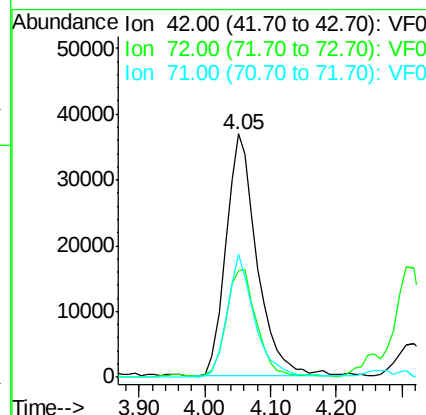
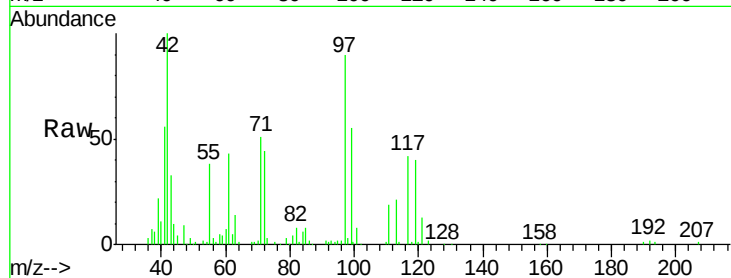
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	120317
Ion Ratio		Lower	Upper
42	100		
72	44.7	35.2	52.8
71	46.3	32.9	49.3

Manual Integrations
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#30

Chloroform

Concen: 48.414 ug/l

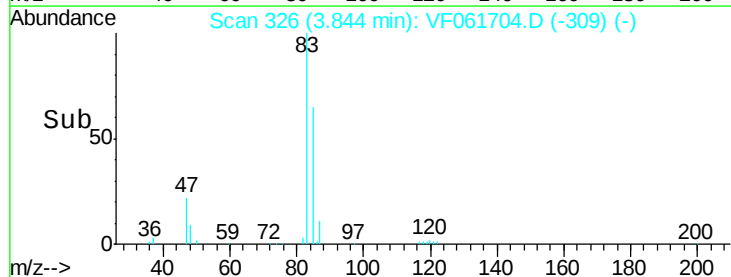
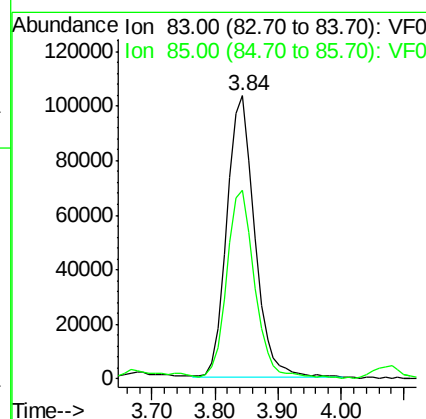
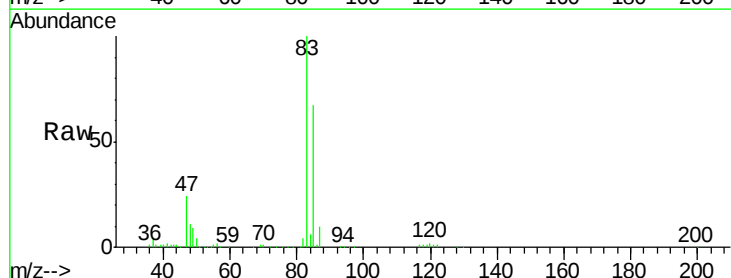
RT: 3.84 min Scan# 326

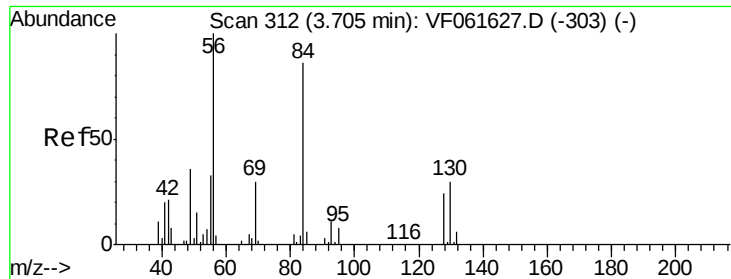
Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion:	83	Resp:	315804
Ion Ratio		Lower	Upper
83	100		
85	66.6	51.1	76.7





#31

Cyclohexane

Concen: 48.767 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

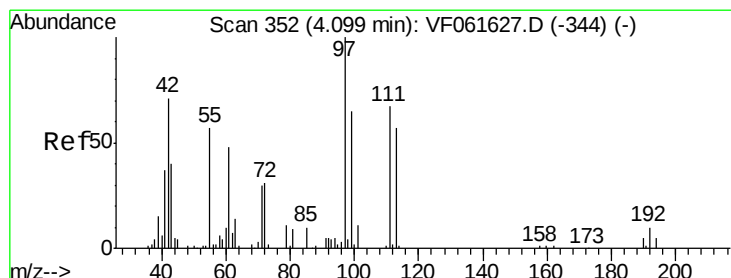
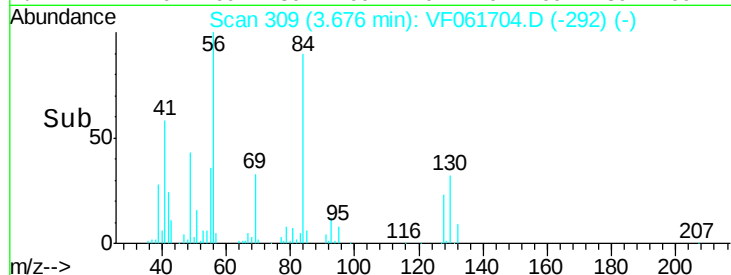
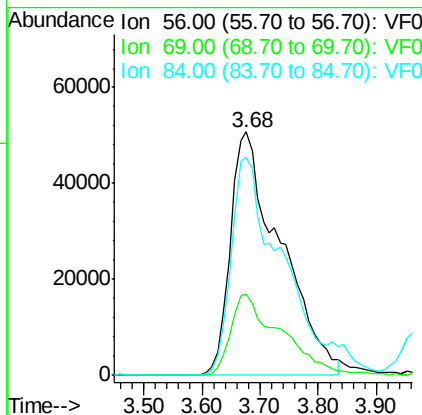
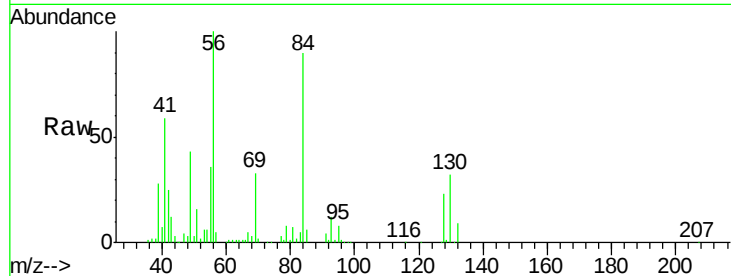
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	302807
Ion Ratio		Lower	Upper
56	100		
69	33.0	23.8	35.8
84	89.6	68.6	103.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 54.889 ug/l

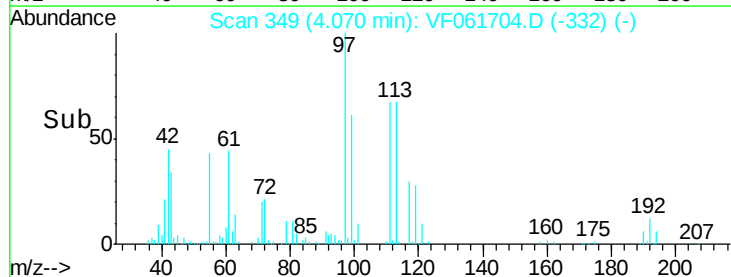
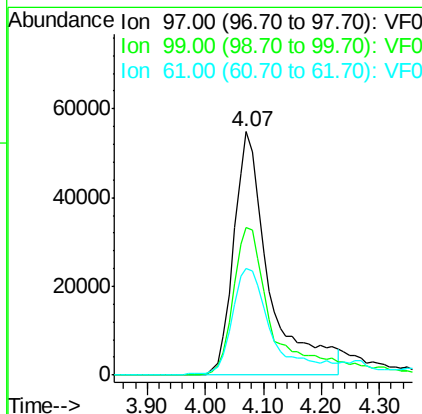
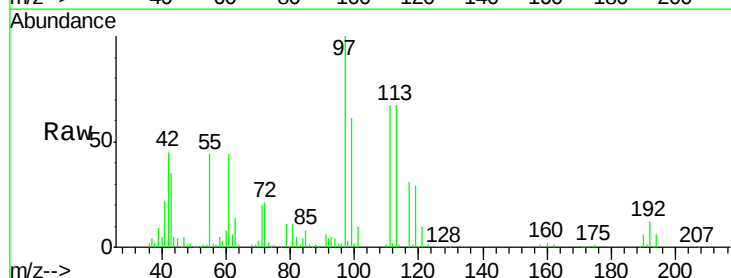
RT: 4.07 min Scan# 349

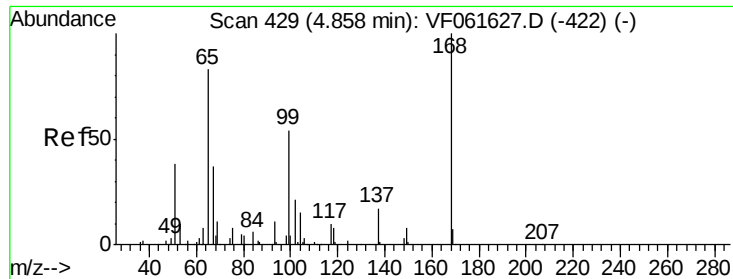
Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion:	97	Resp:	234535
Ion Ratio		Lower	Upper
97	100		
99	60.6	52.2	78.2
61	44.0	39.2	58.8





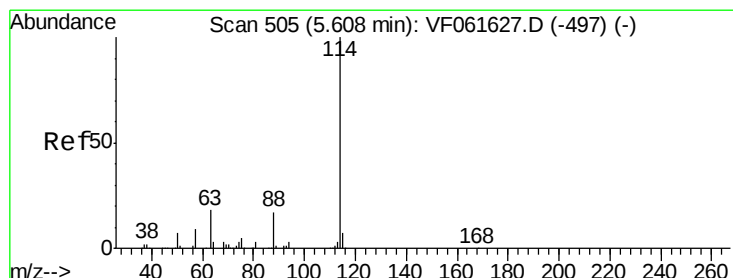
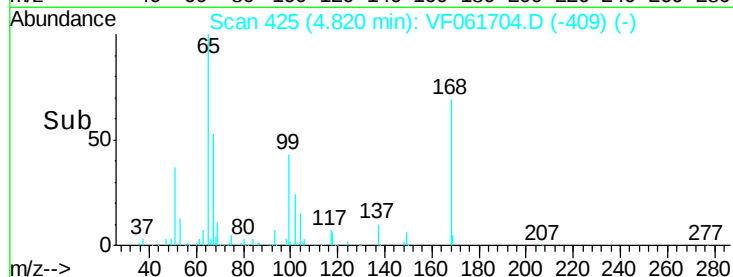
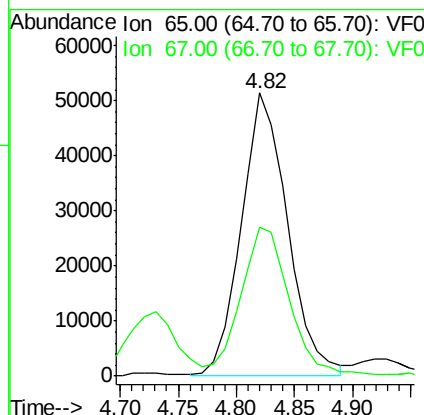
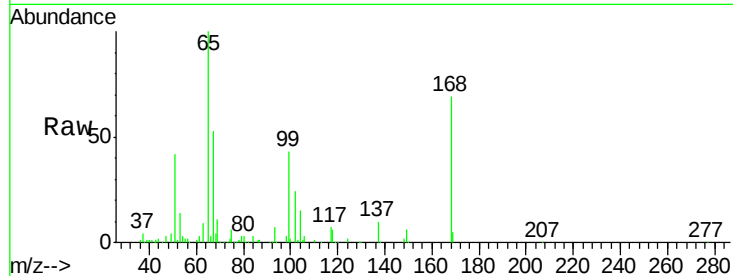
#33
 1,2-Dichloroethane-d4
 Concen: 51.105 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.04 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.9	0.0	104.0	

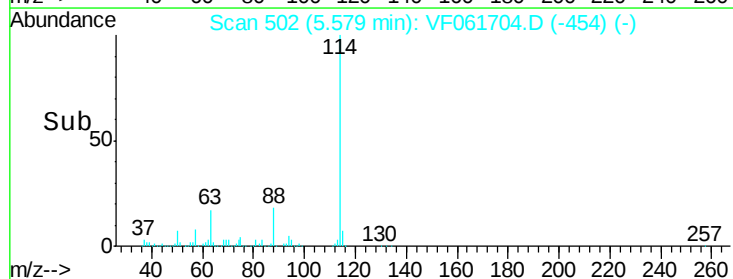
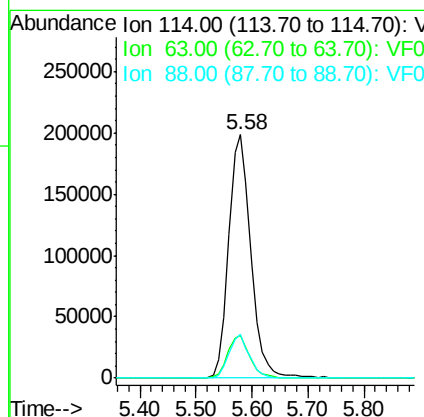
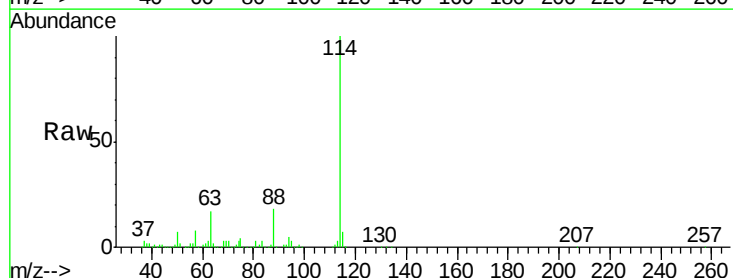
Manual Integrations
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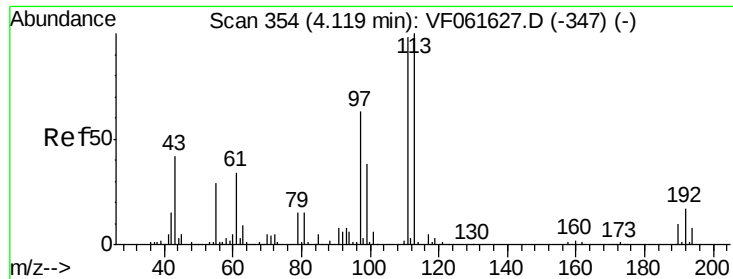
MMDadoda
 2/27/2019 5:40:29 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.4	0.0	36.6	
88	18.1	0.0	34.4	





#35

Dibromofluoromethane

Concen: 51.359 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

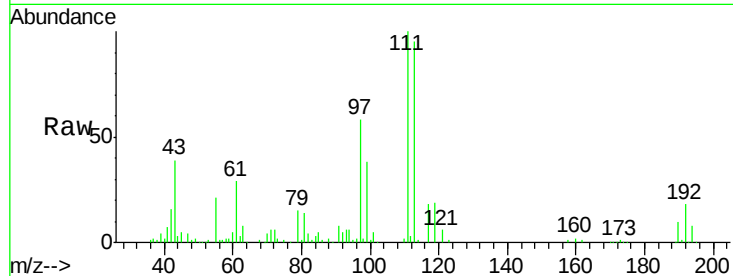
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	208055
Ion Ratio	Lower	Upper	
113	100		
111	105.8	78.8	118.2
192	19.1	13.4	20.0

Manual Integrations
APPROVED

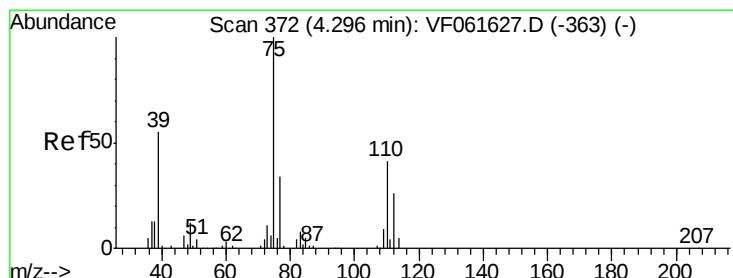
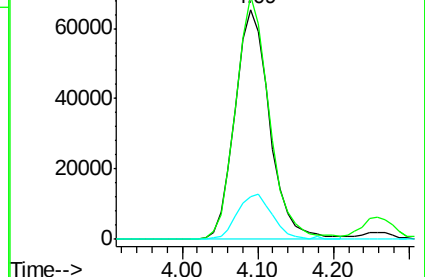
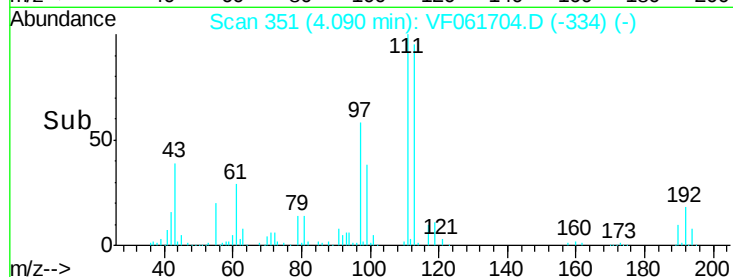
MMDadoda
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Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 50.185 ug/l

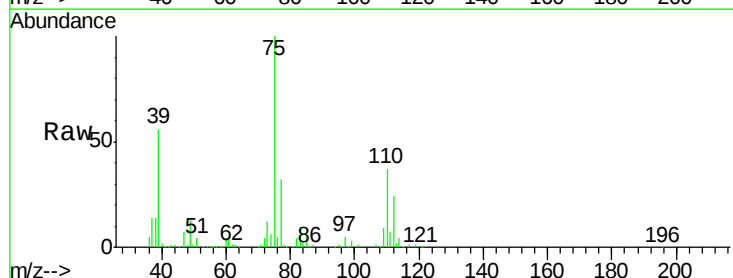
RT: 4.26 min Scan# 368

Delta R.T. -0.04 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

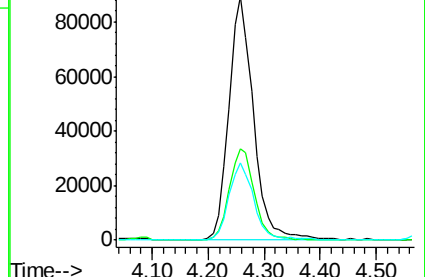
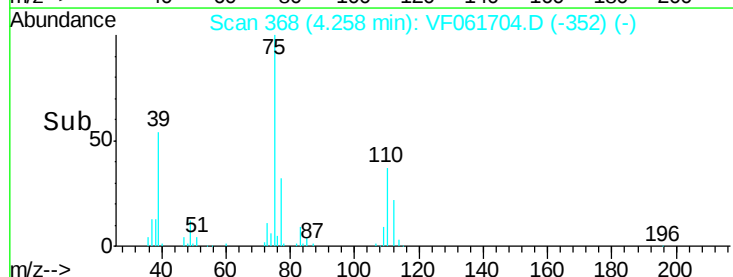
Tgt Ion:	75	Resp:	271199
Ion Ratio	Lower	Upper	
75	100		
110	37.2	20.5	61.6
77	31.8	27.0	40.4

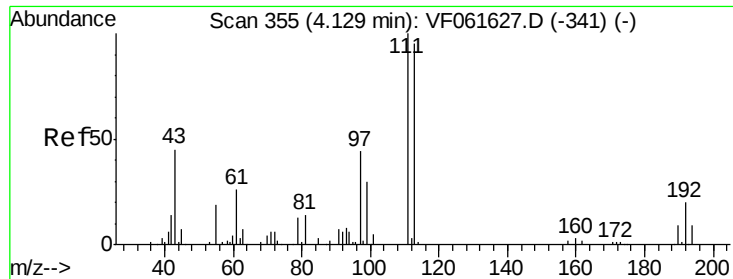


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





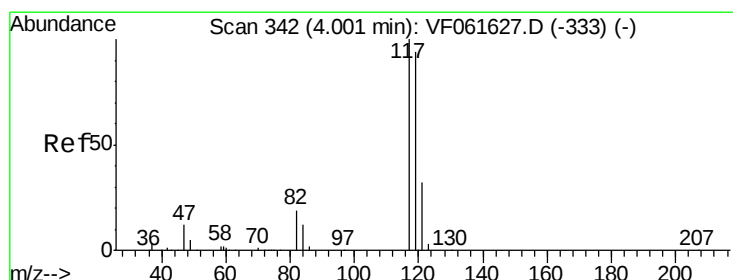
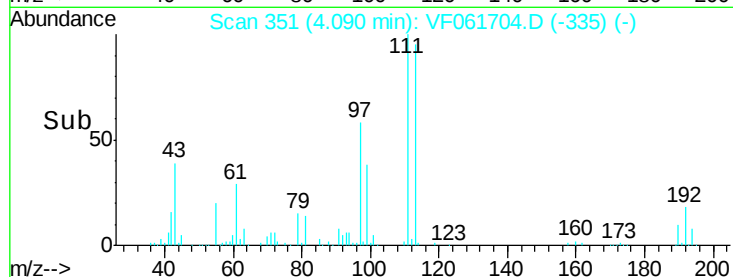
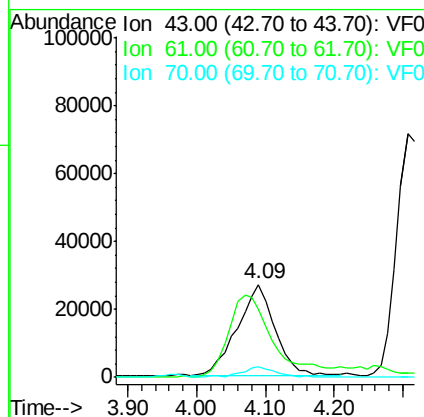
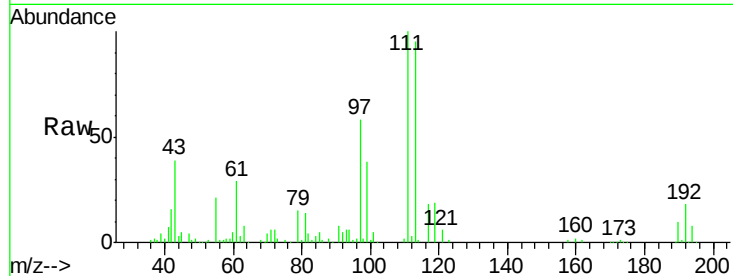
#37
Ethyl Acetate
Concen: 40.878 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.04 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	74.3	45.7	68.5#
70	11.0	8.5	12.7

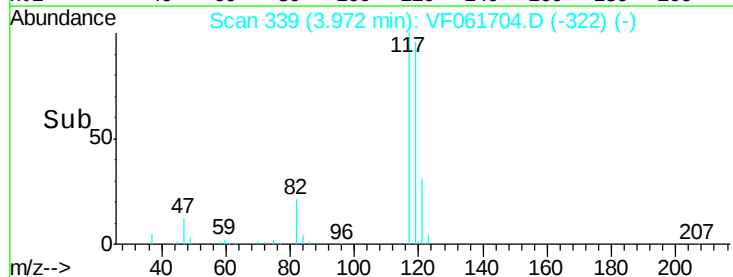
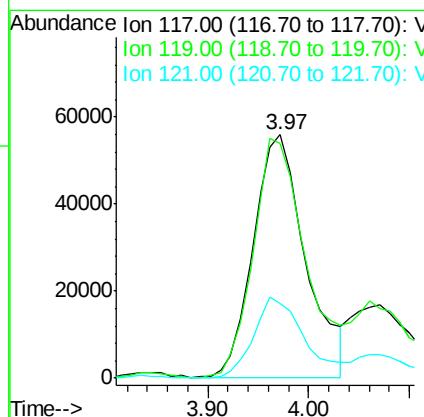
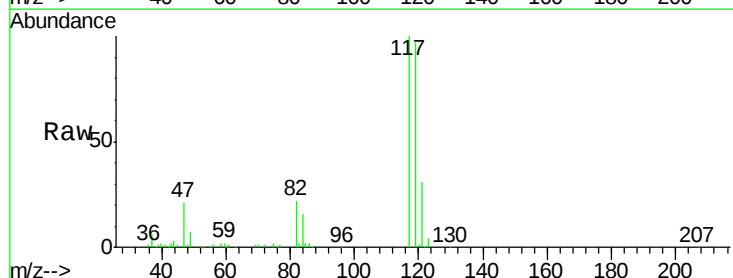
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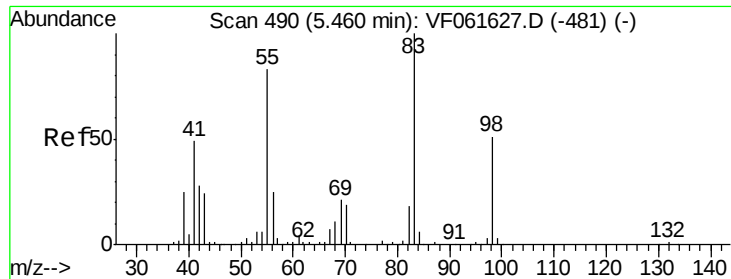
MMDadoda
2/27/2019 5:40:29 PM



#38
Carbon Tetrachloride
Concen: 53.869 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.6	113.4
121	30.8	25.2	37.8





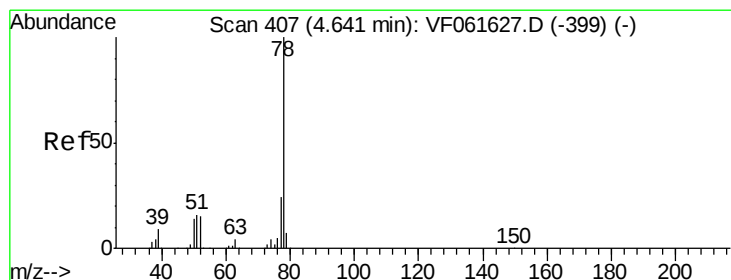
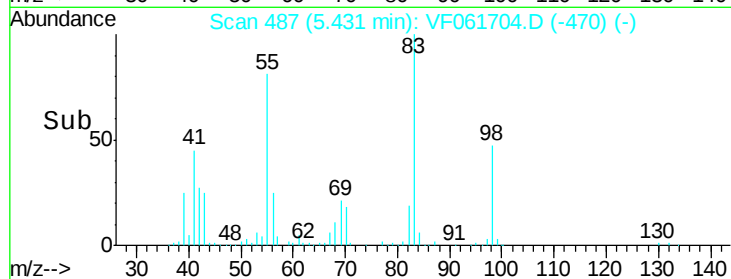
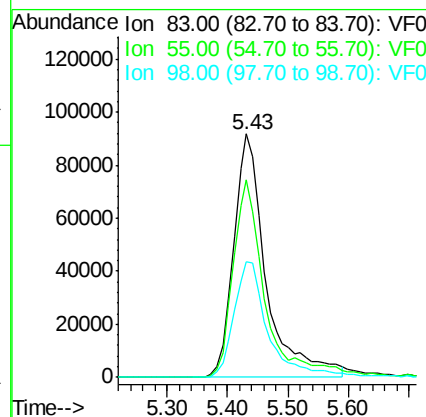
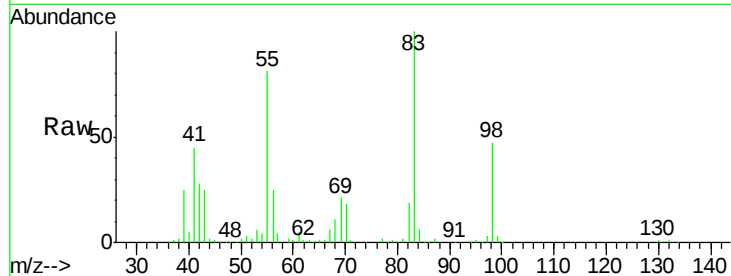
#39
Methvlcvclohexane
Concen: 53.418 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.1	66.6	99.8
98	47.3	40.4	60.6

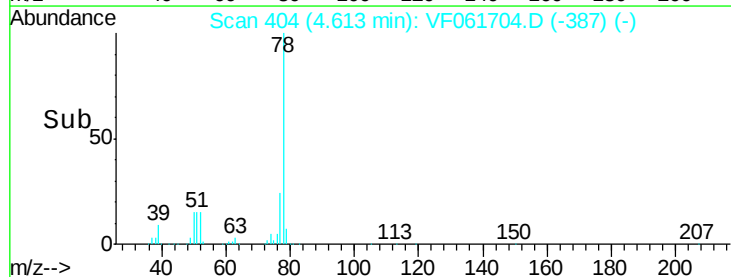
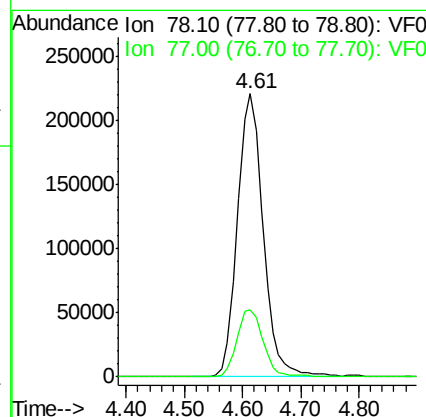
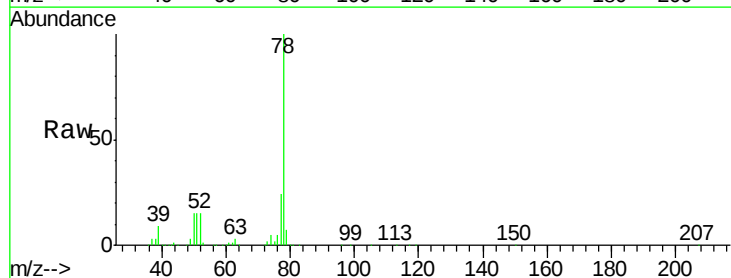
Manual Integrations
APPROVED

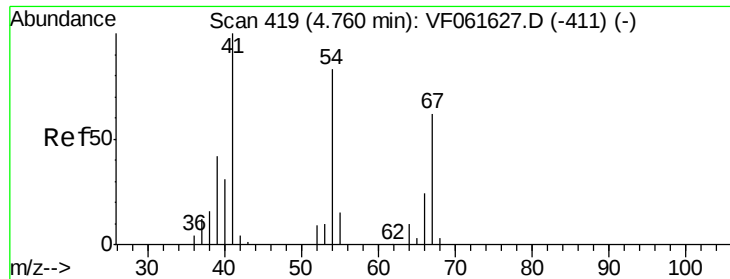
MMDadoda
2/27/2019 5:40:29 PM



#40
Benzene
Concen: 48.188 ug/l
RT: 4.61 min Scan# 404
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6





#41

Methacrylonitrile

Concen: 47.385 ug/l

RT: 4.72 min Scan# 415

Delta R.T. -0.04 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 60825

Ion Ratio Lower Upper

41 100

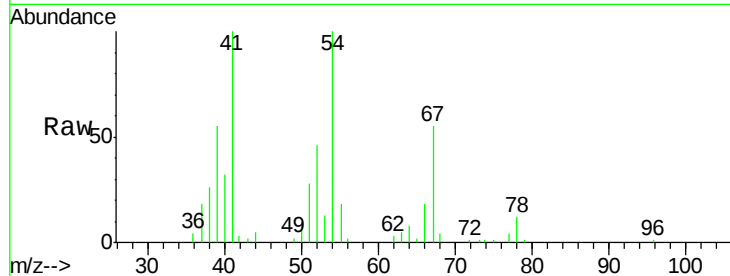
39 55.5 45.3 67.9

67 55.4 49.3 73.9

52 46.1 32.6 49.0

Manual Integrations
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2/27/2019 5:40:29 PM

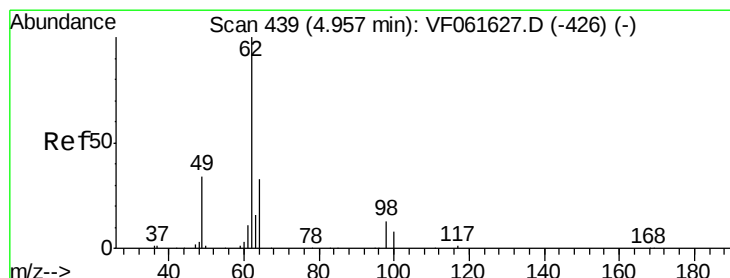
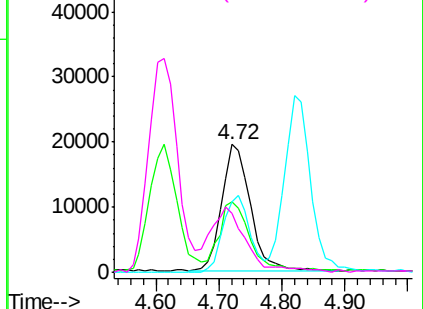
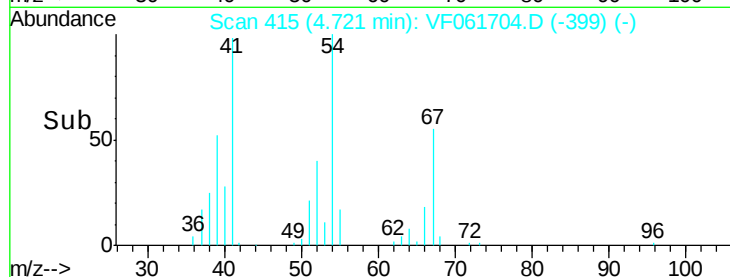


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 50.884 ug/l

RT: 4.92 min Scan# 435

Delta R.T. -0.04 min

Lab File: VF061704.D

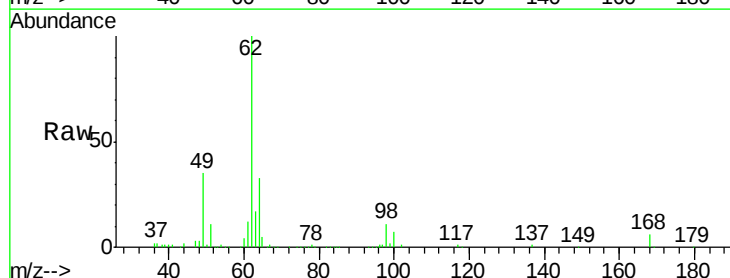
Acq: 22 Feb 2019 12:36

Tgt Ion: 62 Resp: 172048

Ion Ratio Lower Upper

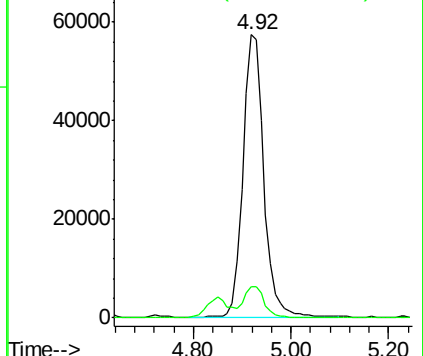
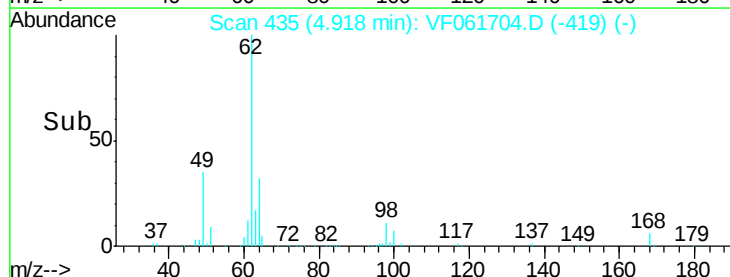
62 100

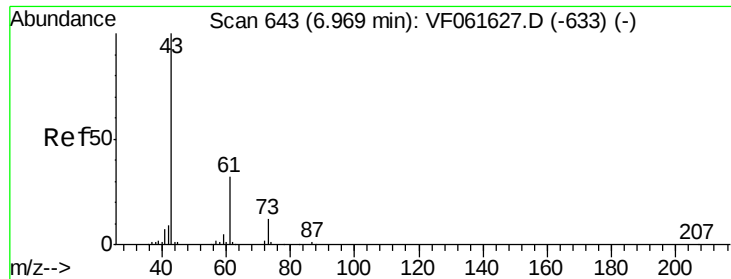
98 10.8 0.0 26.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

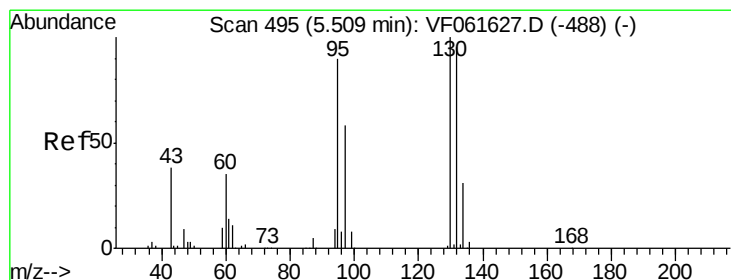
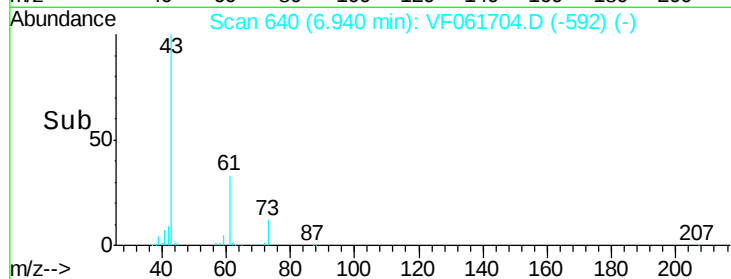
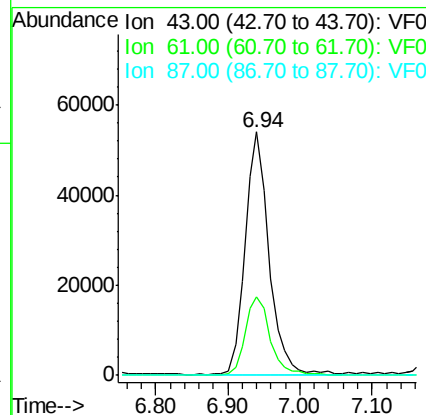
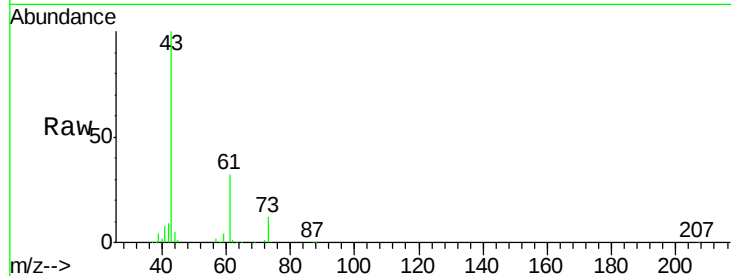
Isopropyl Acetate
 Concen: 42.533 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.03 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.4	25.8	38.6
87	0.4	0.4	0.6

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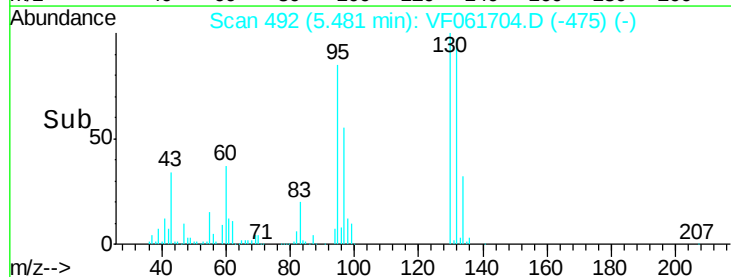
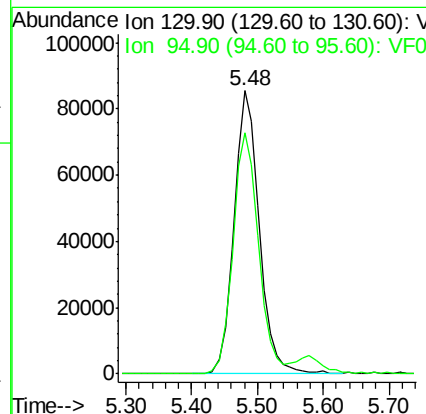
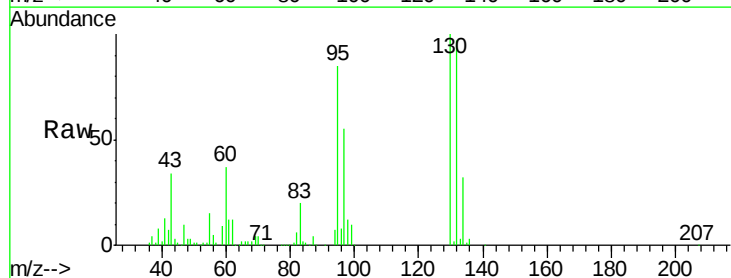
MMDadoda
 2/27/2019 5:40:29 PM

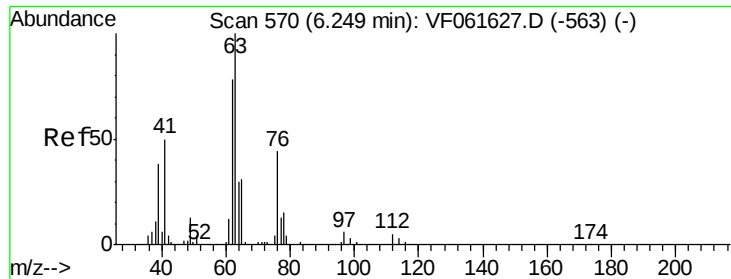


#44

Trichloroethene
 Concen: 50.426 ug/l
 RT: 5.48 min Scan# 492
 Delta R.T. -0.03 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	85.4	0.0	179.4





#45

1,2-Dichloropropane

Concen: 48.621 ug/l

RT: 6.21 min Scan# 566

Delta R.T. -0.04 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 166124

Ion Ratio Lower Upper

63 100

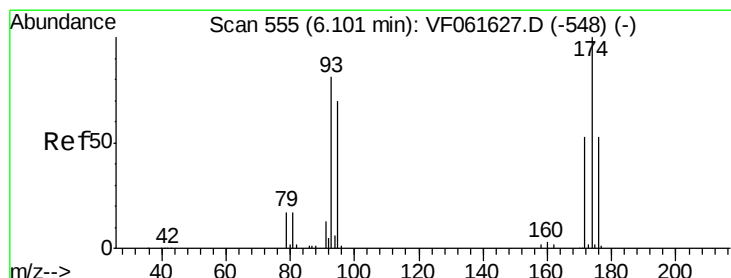
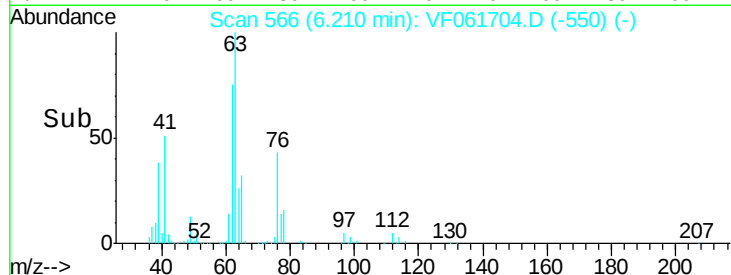
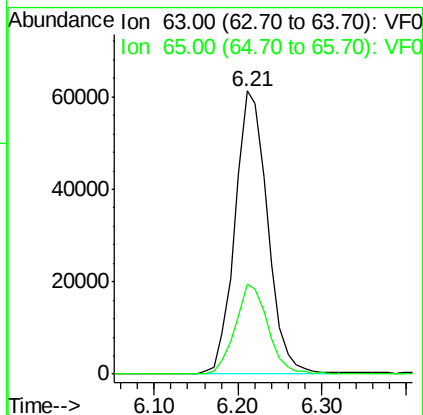
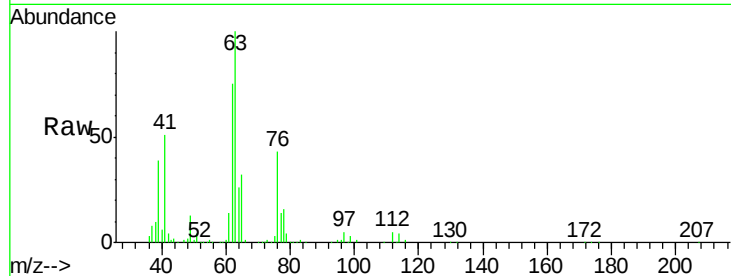
65 32.0 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 46.028 ug/l

RT: 6.06 min Scan# 551

Delta R.T. -0.04 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

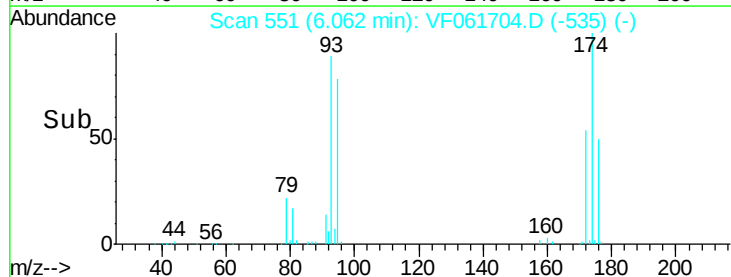
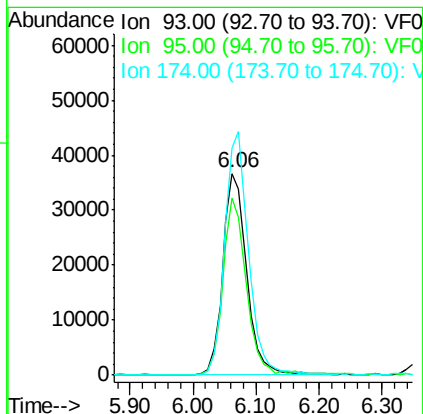
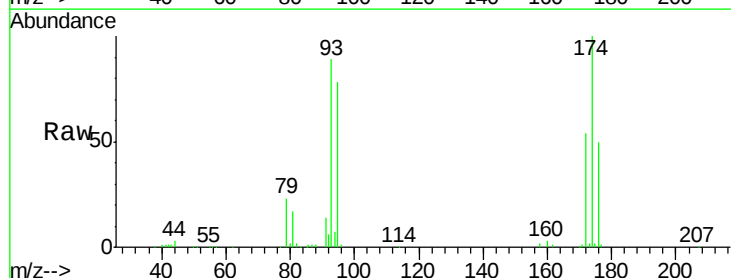
Tgt Ion: 93 Resp: 96828

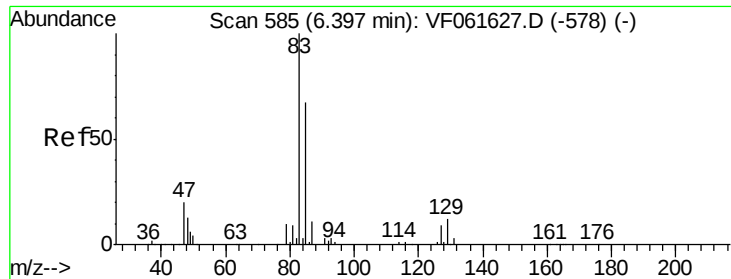
Ion Ratio Lower Upper

93 100

95 87.6 69.0 103.6

174 112.2 99.3 148.9





#47

Bromodichloromethane

Concen: 48.699 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

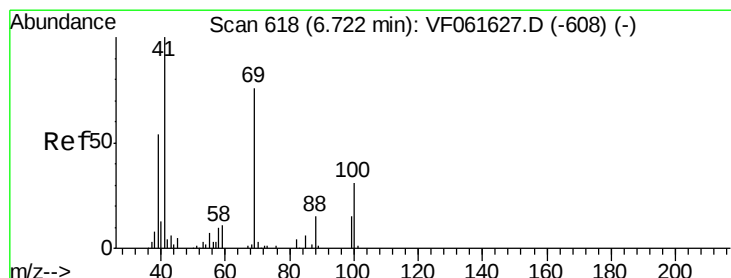
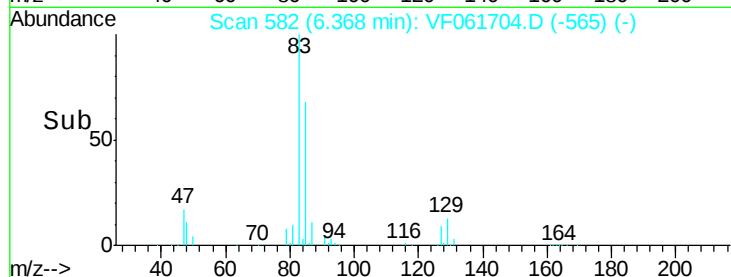
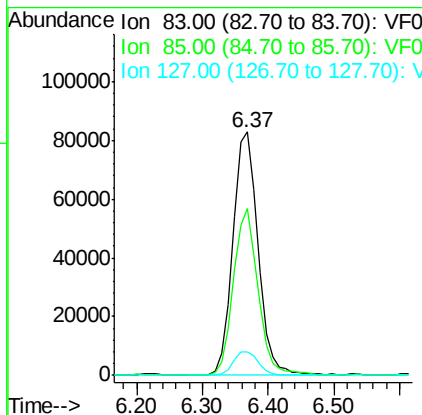
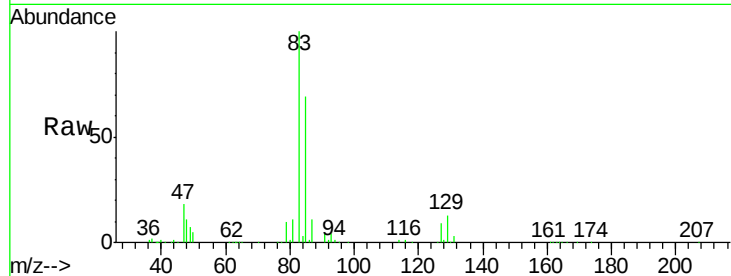
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	224347
Ion	Ratio	Lower	Upper
83	100		
85	68.7	53.4	80.2
127	9.4	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 42.770 ug/l

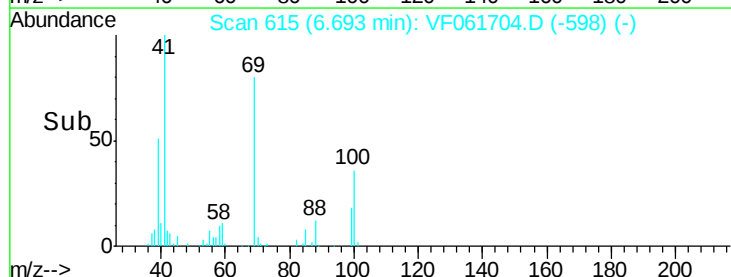
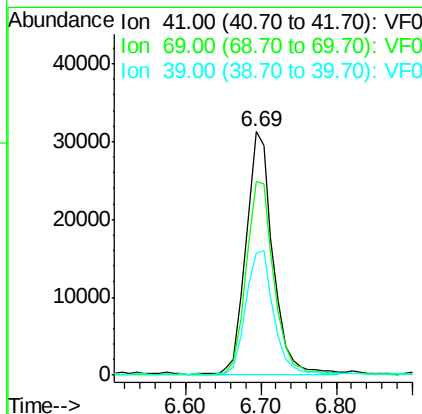
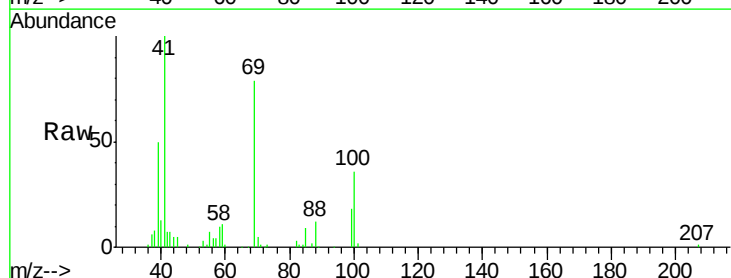
RT: 6.69 min Scan# 615

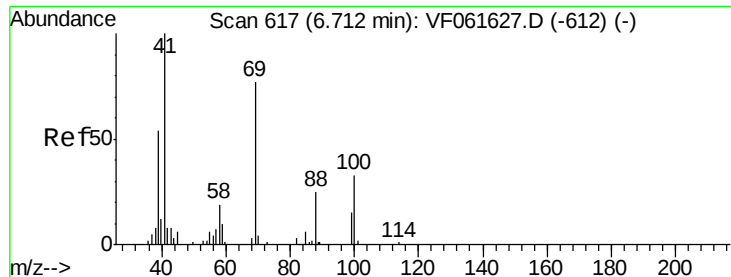
Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion:	41	Resp:	76471
Ion	Ratio	Lower	Upper
41	100		
69	79.5	60.4	90.6
39	50.3	43.7	65.5





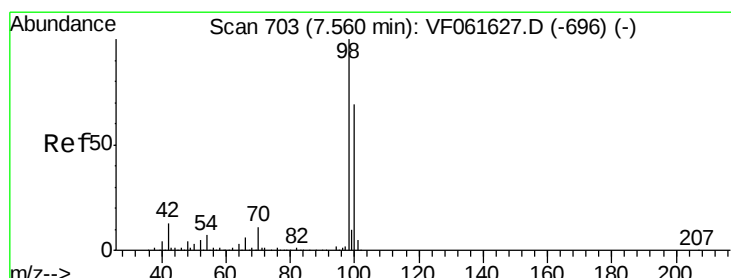
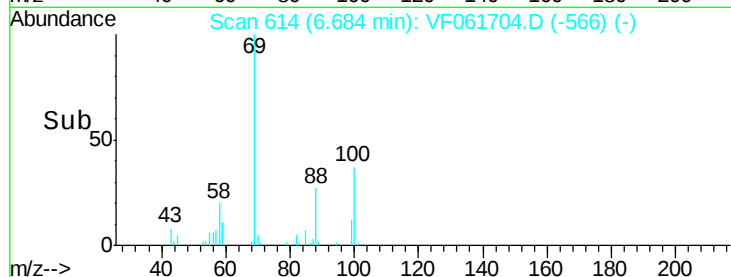
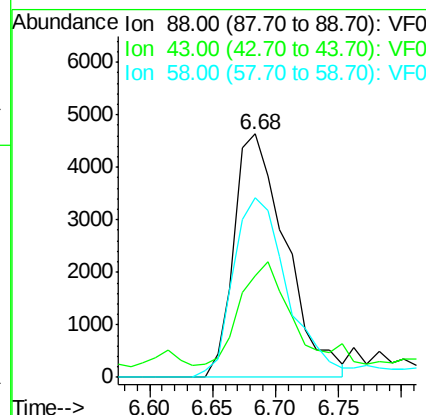
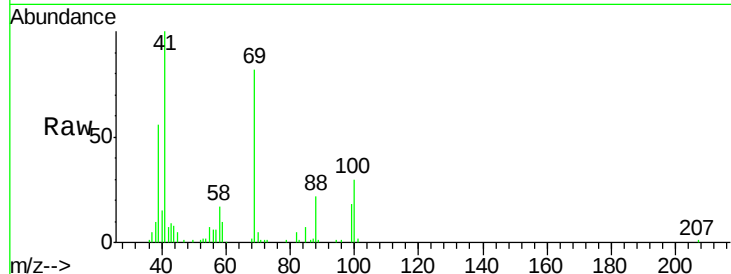
#49
1,4-Dioxane
Concen: 786.483 ug/l
RT: 6.68 min Scan# 614
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100	13219		
43	41.5		32.3	48.5
58	73.9		59.4	89.2

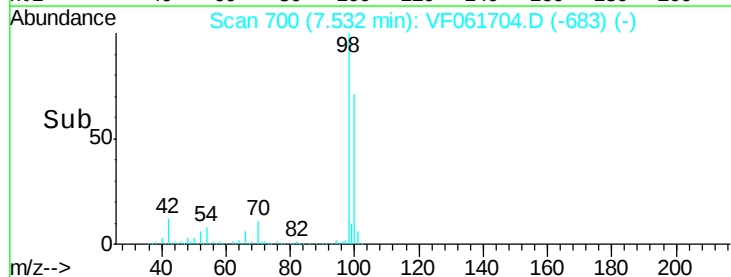
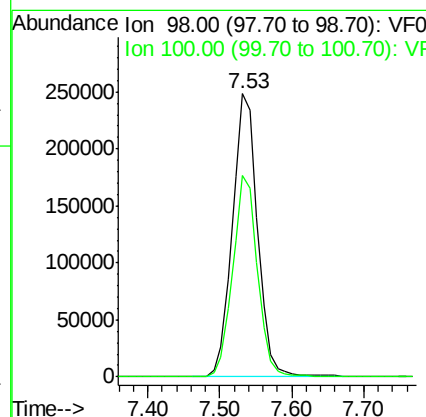
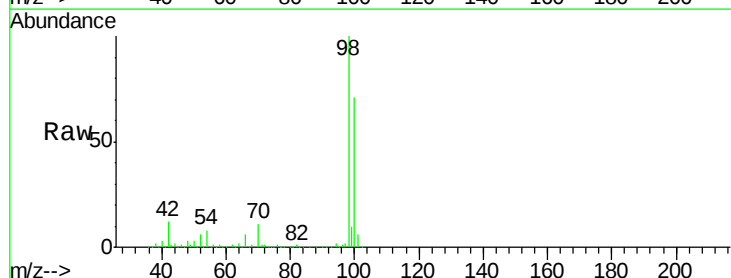
Manual Integrations
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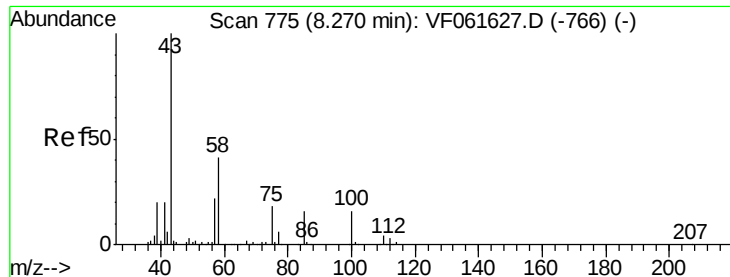
MMDadoda
2/27/2019 5:40:29 PM



#50
Toluene-d8
Concen: 51.865 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	603996		
100	71.0		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 201.283 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 427309

Ion Ratio Lower Upper

43 100

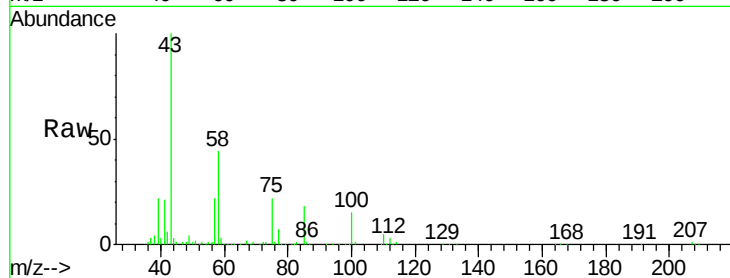
58 44.3 33.1 49.7

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

8.24

200000

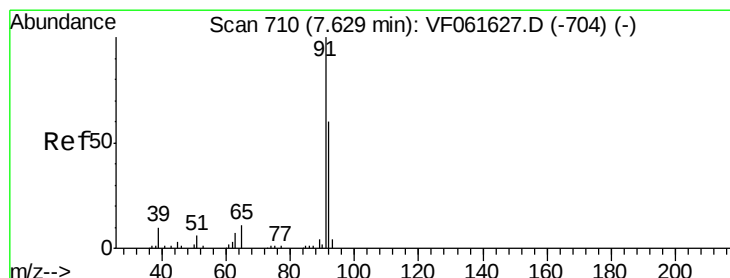
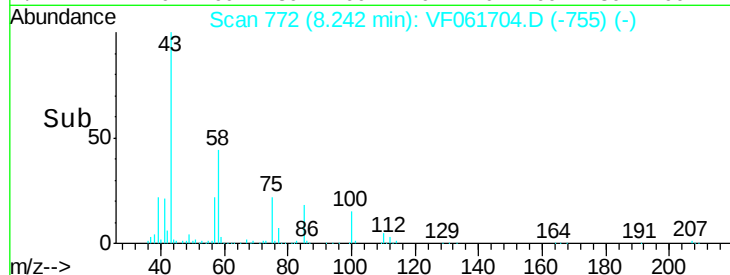
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 48.086 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061704.D

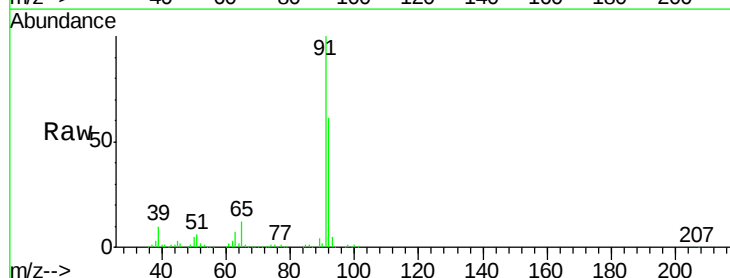
Acq: 22 Feb 2019 12:36

Tgt Ion: 92 Resp: 412226

Ion Ratio Lower Upper

92 100

91 164.0 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.60

300000

250000

200000

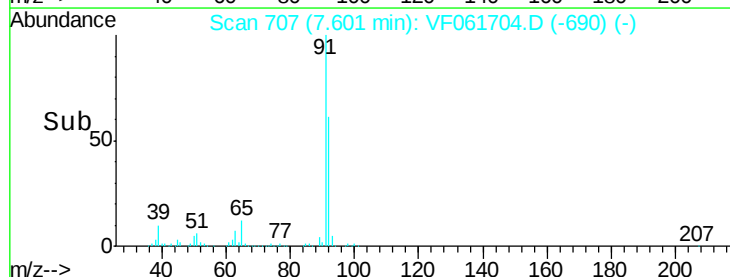
150000

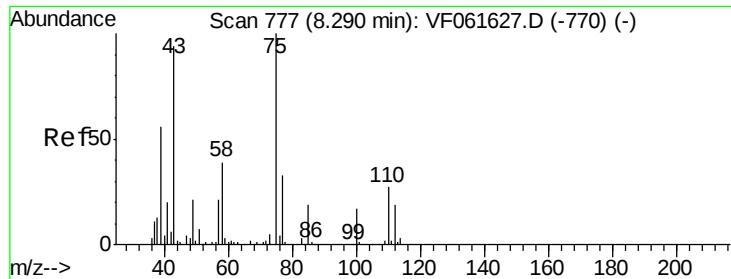
100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 46.997 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tot Ion: 75 Resp: 180189

Ion Ratio Lower Upper

75 100

77 31.5 26.2 39.2

Instrument :

MSVOA_F

ClientSampleId :

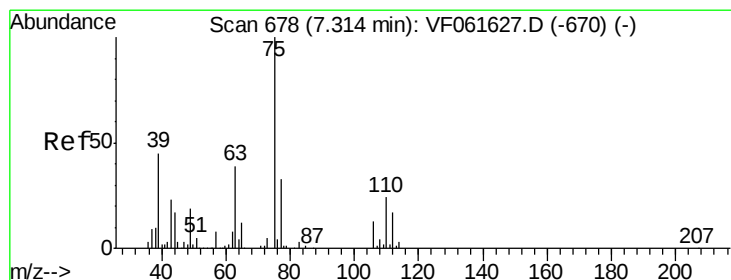
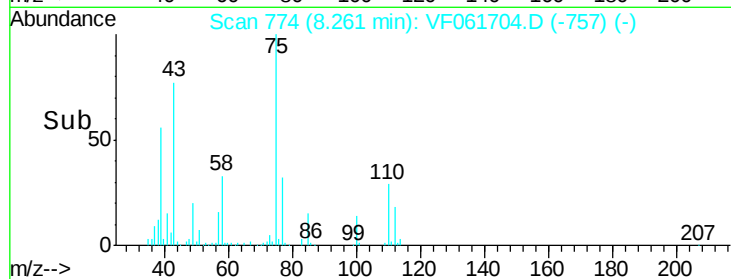
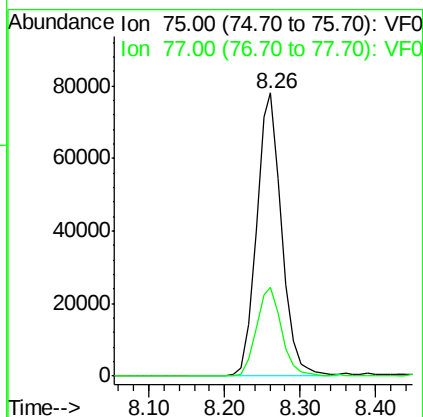
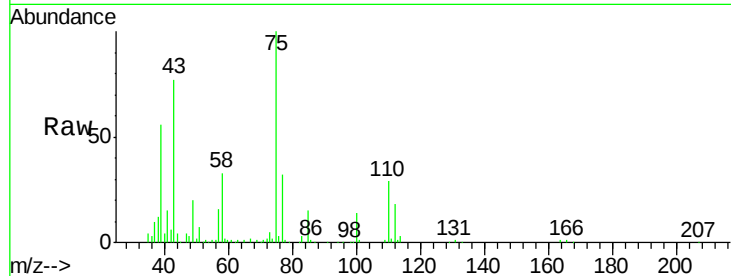
VSTDCCC050

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#54

cis-1,3-Dichloropropene

Concen: 51.620 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

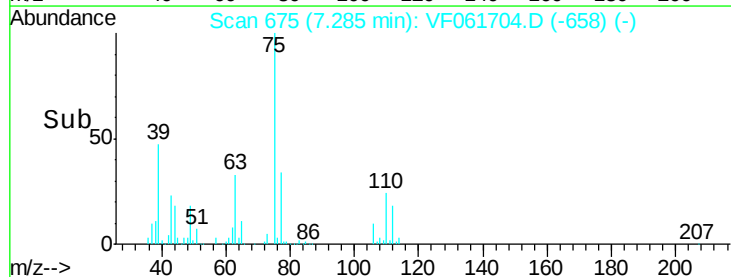
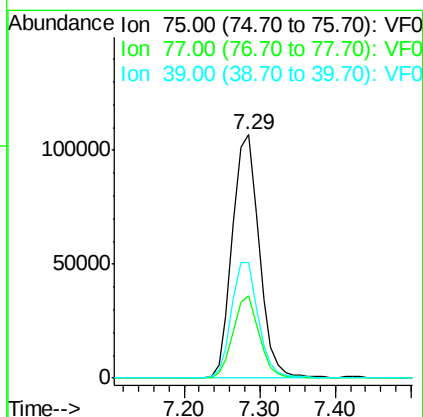
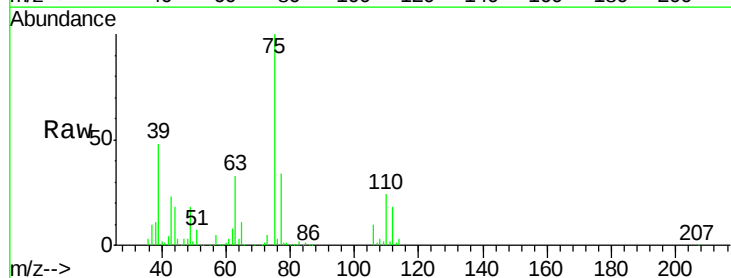
Tgt Ion: 75 Resp: 263623

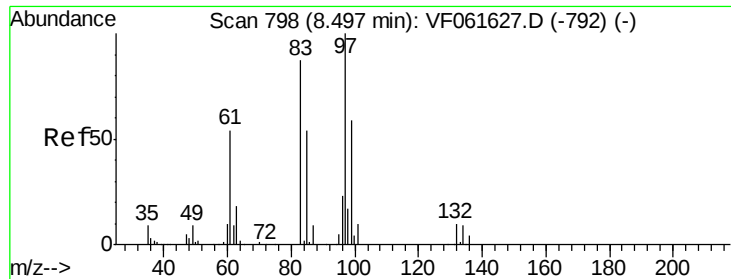
Ion Ratio Lower Upper

75 100

77 33.9 26.4 39.6

39 47.6 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 47.185 ug/l

RT: 8.47 min Scan# 795

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

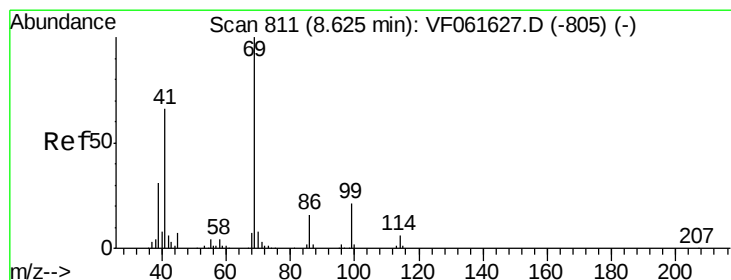
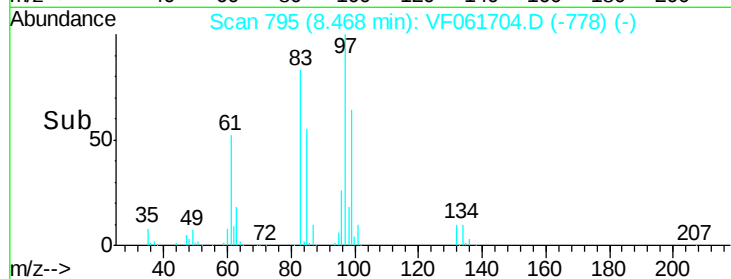
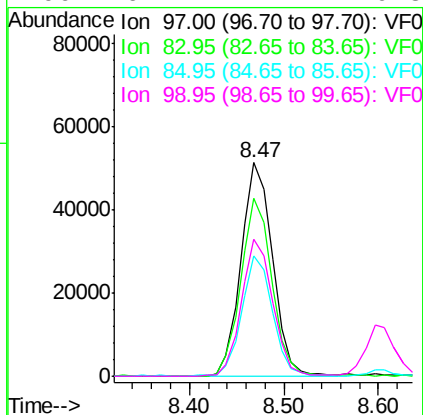
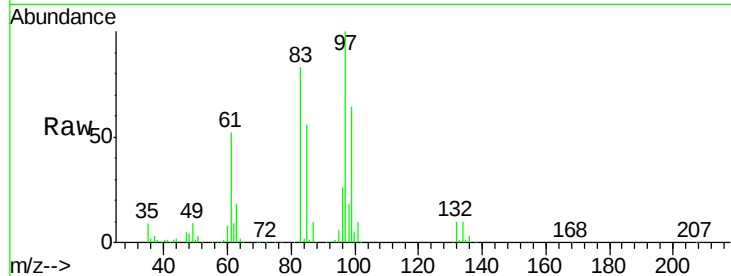
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		118845		
83	83.4	69.2	103.8		
85	56.1	43.0	64.4		
99	64.1	47.2	70.8		

Manual Integrations
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#56

Ethyl methacrylate

Concen: 47.338 ug/l

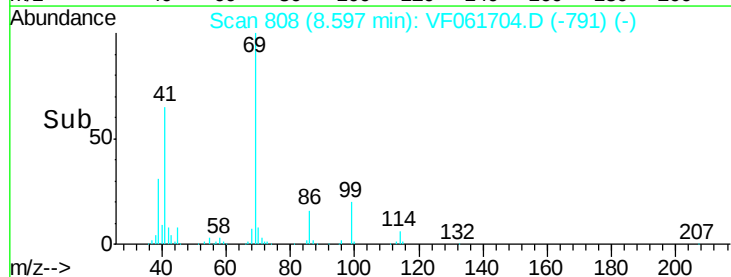
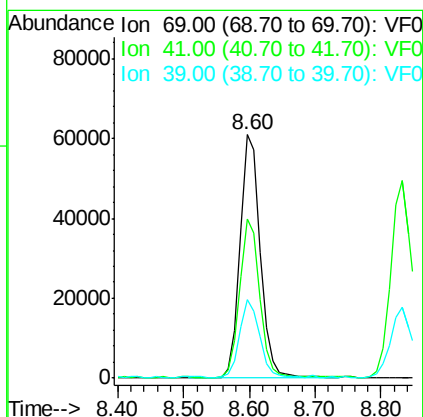
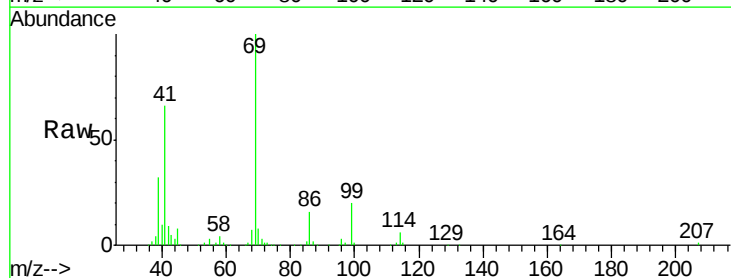
RT: 8.60 min Scan# 808

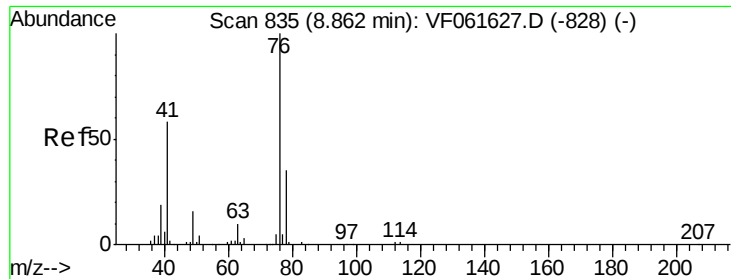
Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		132747		
41	65.6	52.9	79.3		
39	32.1	24.5	36.7		





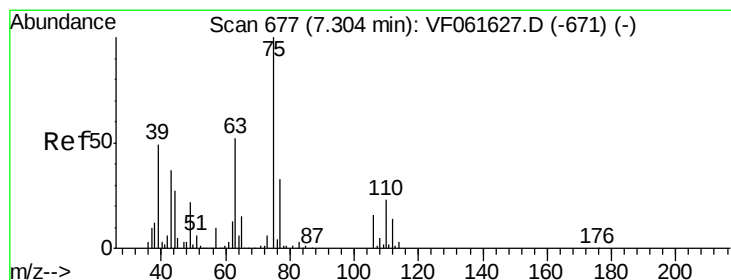
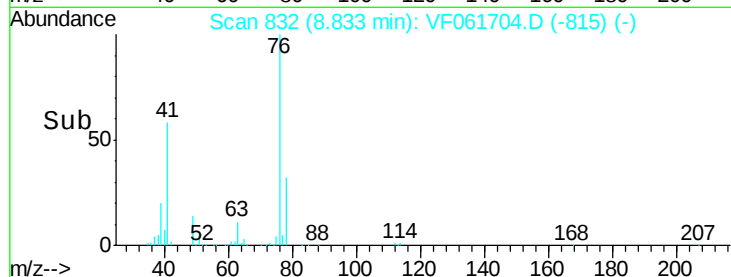
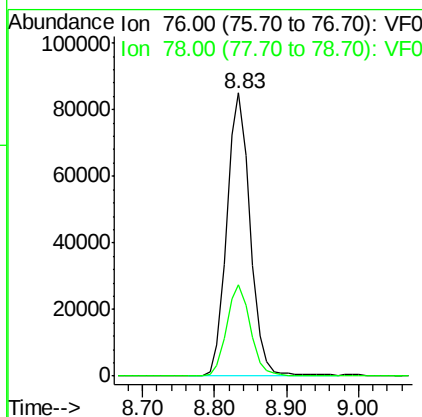
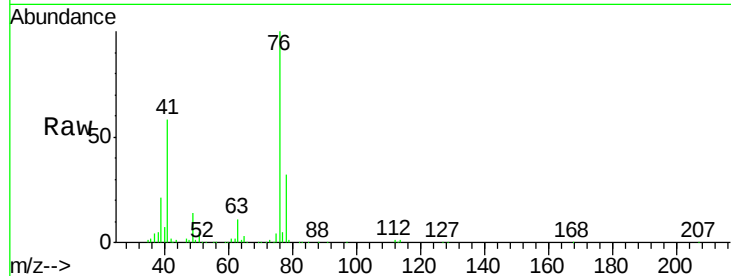
#57
 1,3-Dichloropropane
 Concen: 45.657 ug/l
 RT: 8.83 min Scan# 832
 Delta R.T. -0.03 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 191944
 Ion Ratio Lower Upper
 76 100
 78 32.2 27.8 41.6

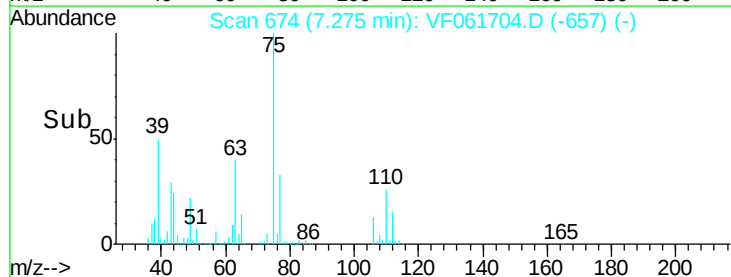
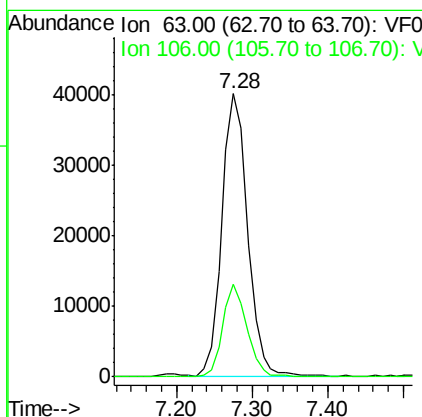
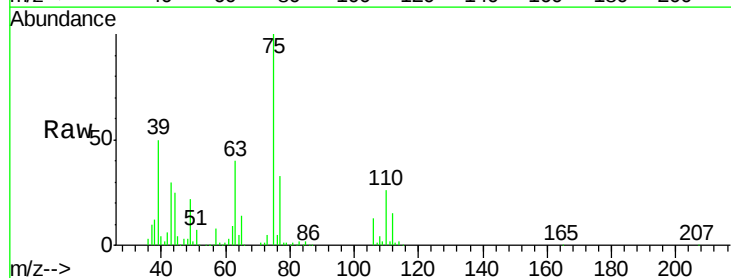
Manual Integrations
 APPROVED

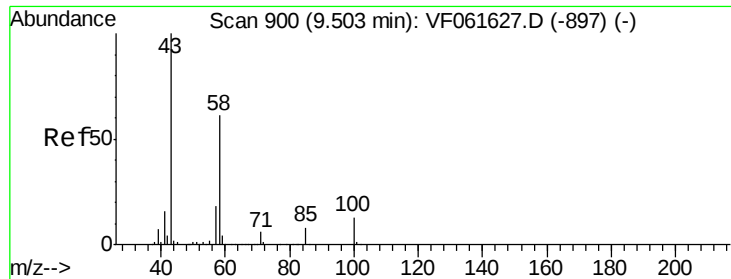
MMDadoda
 2/27/2019 5:40:29 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 194.319 ug/l
 RT: 7.28 min Scan# 674
 Delta R.T. -0.03 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Tgt Ion: 63 Resp: 94018
 Ion Ratio Lower Upper
 63 100
 106 32.5 24.6 36.8





#59

2-Hexanone

Concen: 204.491 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 304306

Ion Ratio Lower Upper

43 100

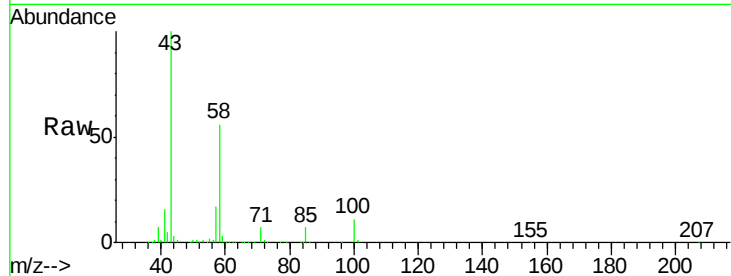
58 55.5 28.5 85.5

Manual Integrations

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2/27/2019 5:40:29 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.47

150000

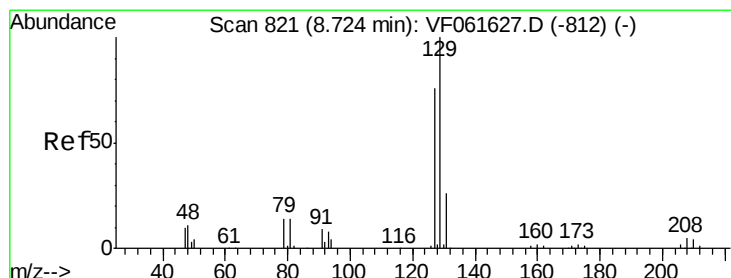
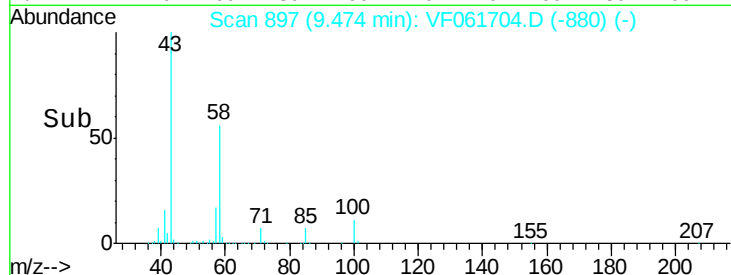
100000

50000

0

9.40 9.50 9.60

Time-->



#60

Dibromochloromethane

Concen: 48.002 ug/l

RT: 8.70 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061704.D

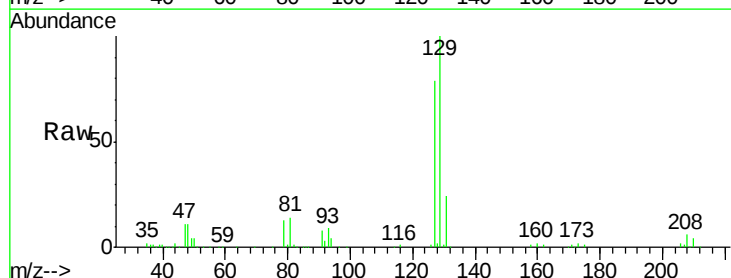
Acq: 22 Feb 2019 12:36

Tgt Ion: 129 Resp: 168282

Ion Ratio Lower Upper

129 100

127 78.7 37.8 113.4



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.70

80000

60000

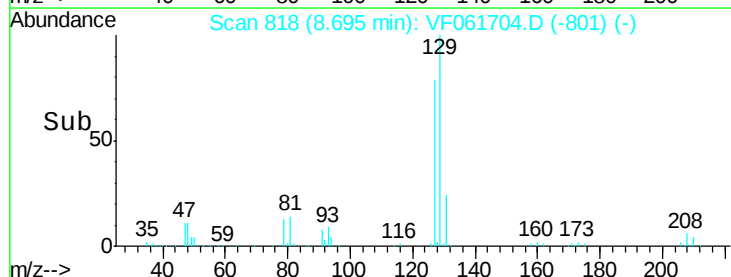
40000

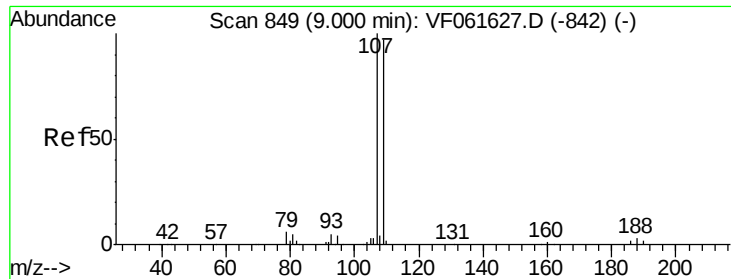
20000

0

8.60 8.70 8.80

Time-->





#61

1,2-Dibromoethane

Concen: 47.510 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.04 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 129792

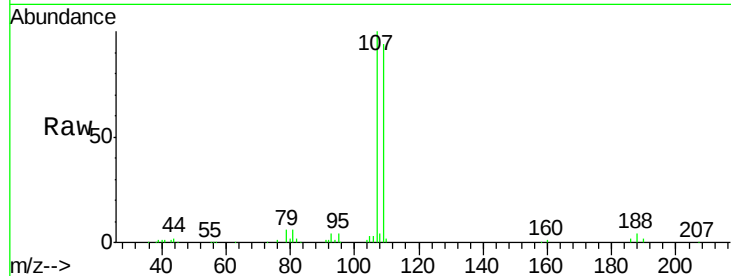
Ion Ratio Lower Upper

107 100

109 93.6 77.4 116.0

Manual Integrations
APPROVED

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.96

60000

50000

40000

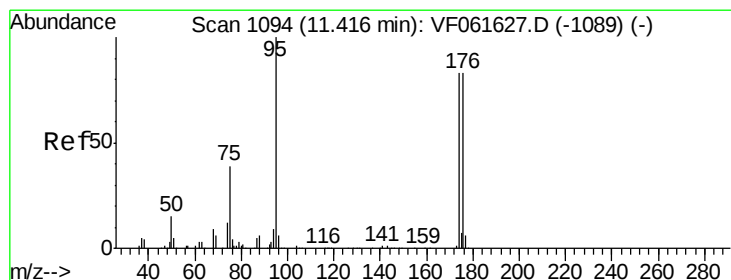
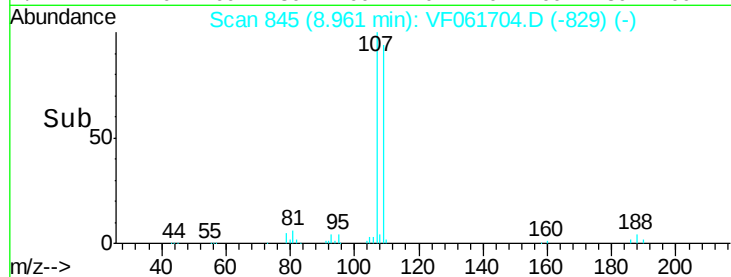
30000

20000

10000

0

Time--> 8.80 8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 48.838 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

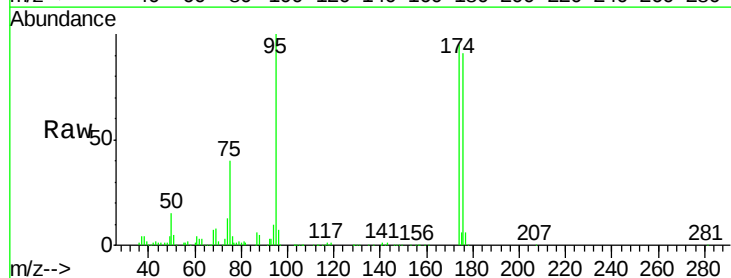
Tgt Ion: 95 Resp: 230125

Ion Ratio Lower Upper

95 100

174 95.1 0.0 165.8

176 91.3 0.0 167.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.40

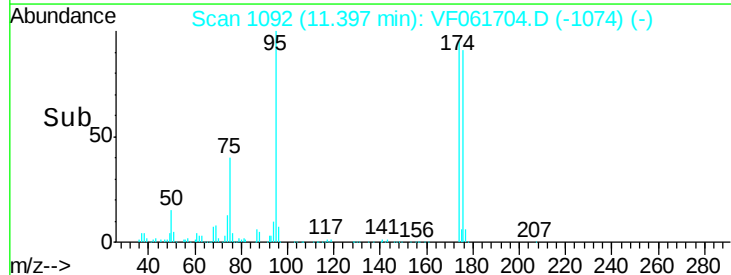
150000

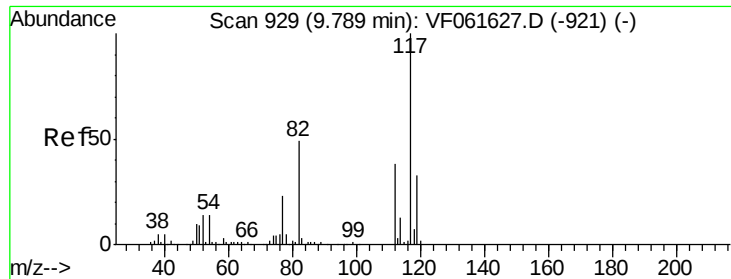
100000

50000

0

Time--> 11.30 11.40 11.50





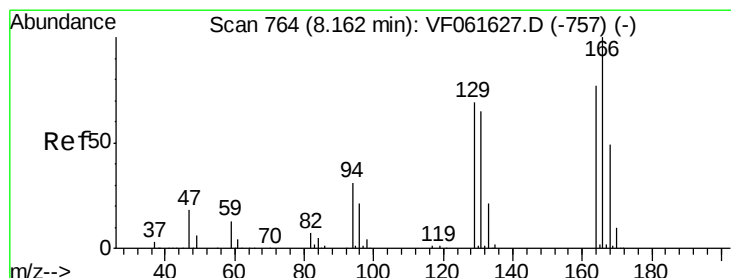
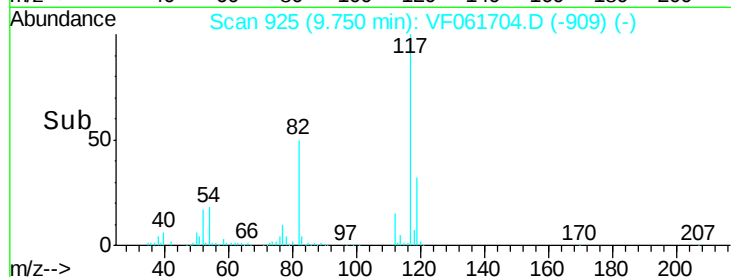
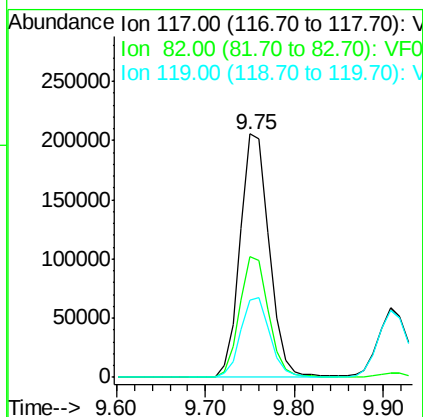
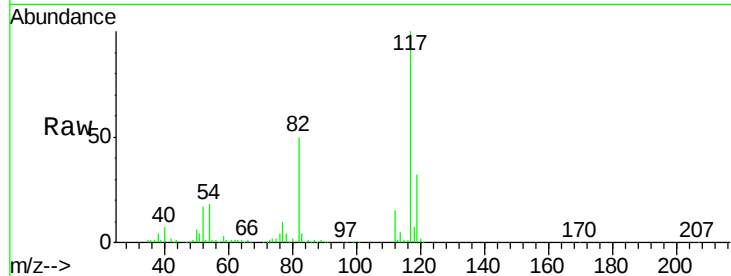
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.04 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	466425		
82	49.6	39.3	58.9	
119	31.5	26.6	40.0	

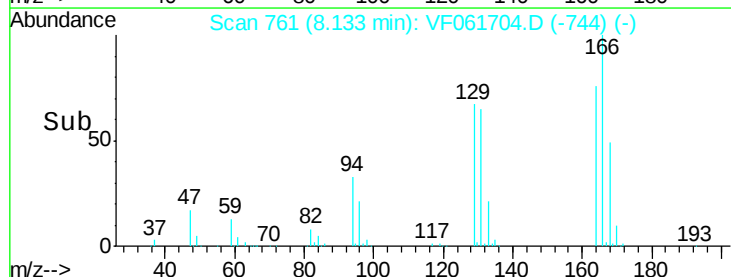
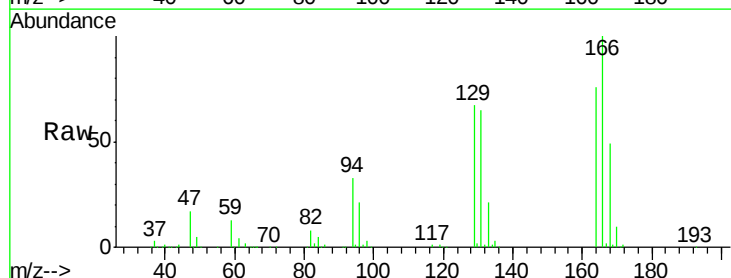
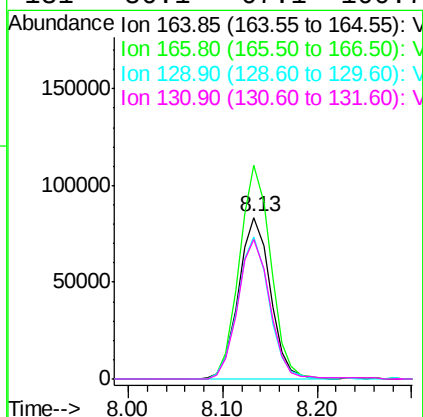
Manual Integrations
APPROVED

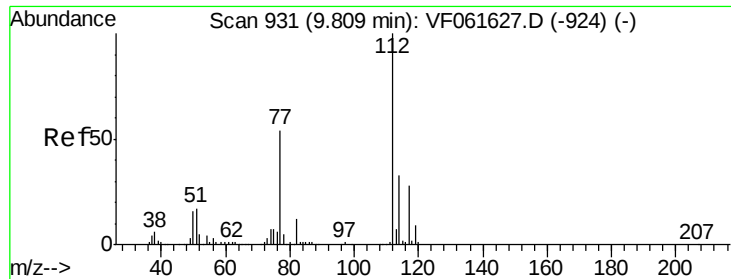
MMDadoda
2/27/2019 5:40:29 PM



#64
Tetrachloroethene
Concen: 51.178 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	195116		
166	132.3	103.9	155.9	
129	88.4	71.3	106.9	
131	86.1	67.1	100.7	





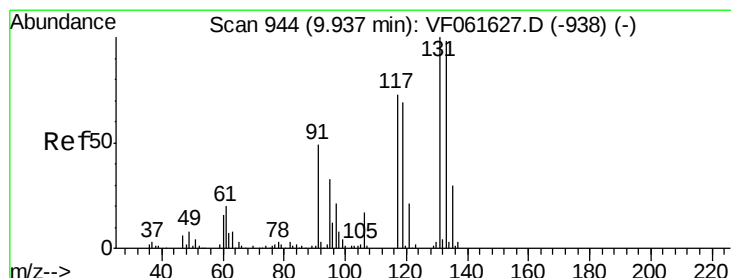
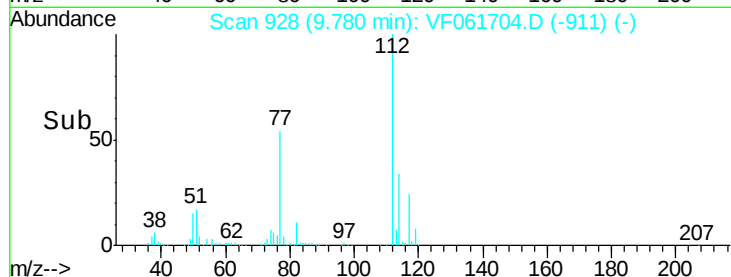
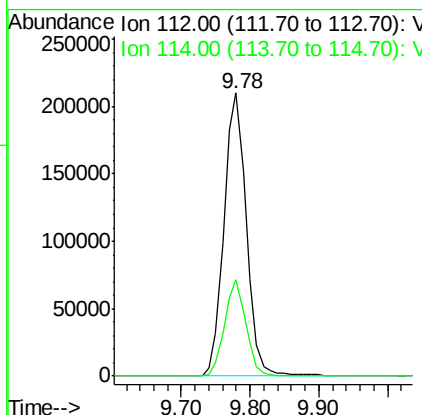
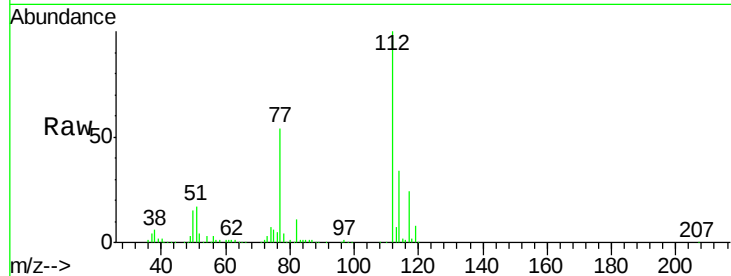
#65
Chlorobenzene
Concen: 50.050 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 473713
Ion Ratio Lower Upper
112 100
114 34.0 26.2 39.2

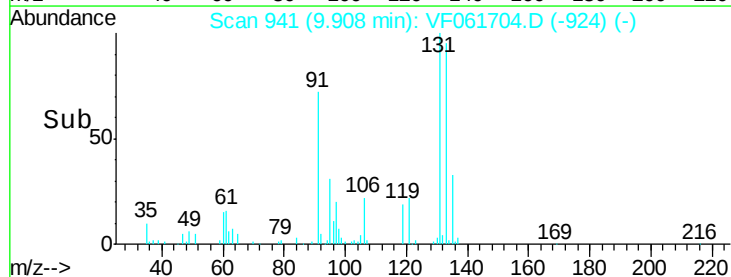
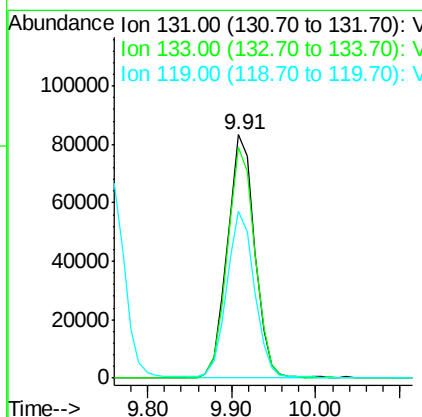
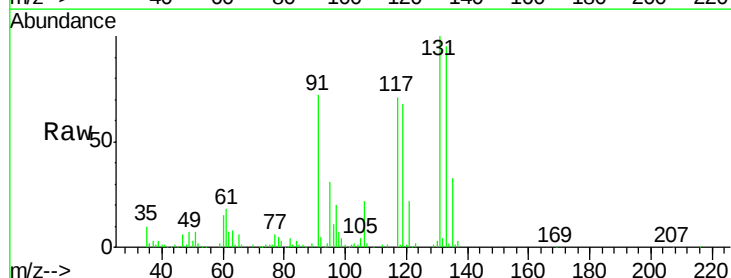
Manual Integrations
APPROVED

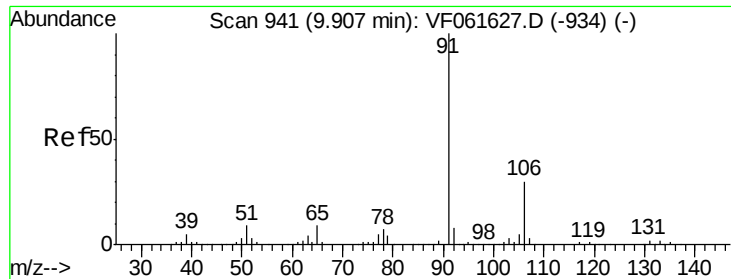
MMDadoda
2/27/2019 5:40:29 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.978 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion:131 Resp: 189066
Ion Ratio Lower Upper
131 100
133 94.6 48.9 146.6
119 68.4 34.8 104.3





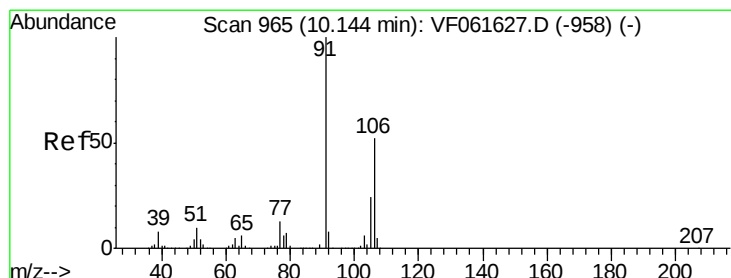
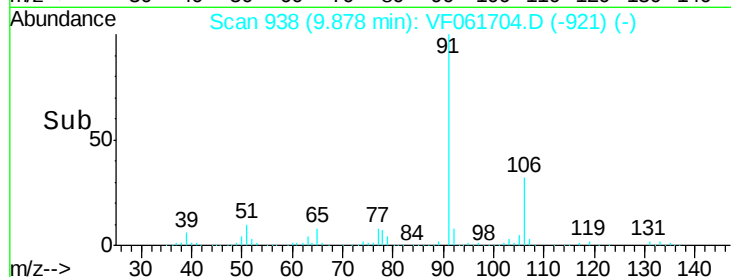
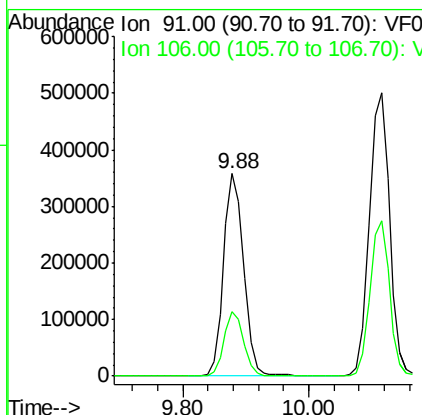
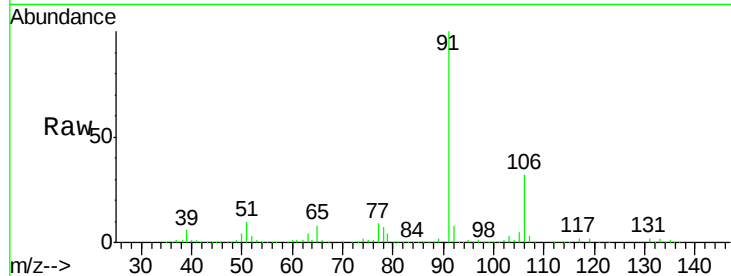
#67
Ethyl Benzene
Concen: 50.742 ug/l
RT: 9.88 min Scan# 938
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 798680
Ion Ratio Lower Upper
91 100
106 31.6 24.1 36.1

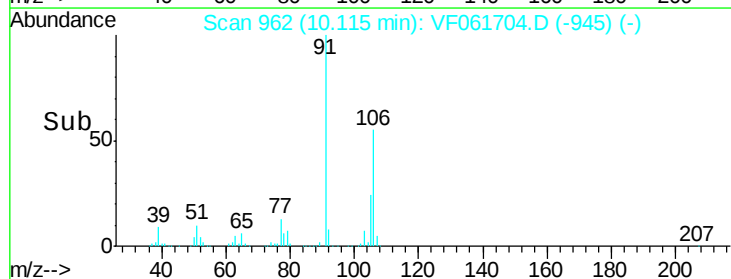
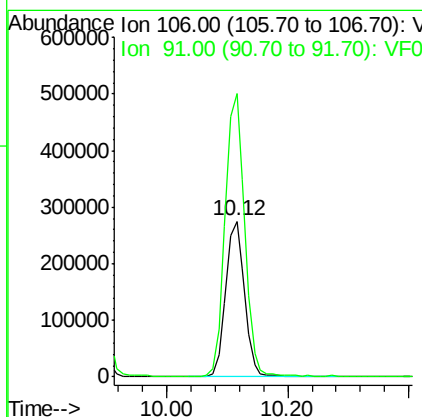
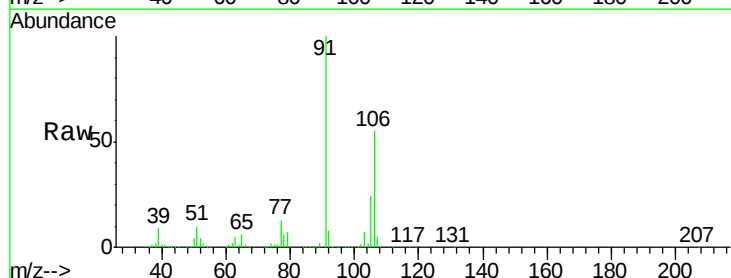
Manual Integrations
APPROVED

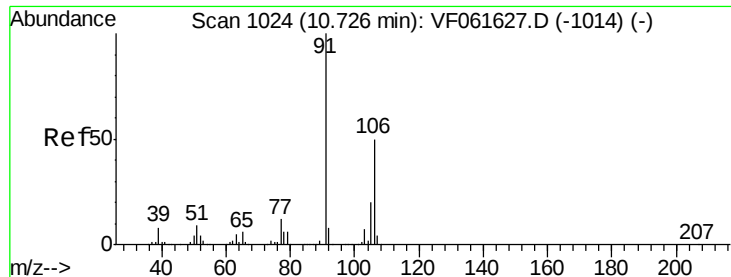
MMDadoda
2/27/2019 5:40:29 PM



#68
m/p-Xylenes
Concen: 99.668 ug/l
RT: 10.12 min Scan# 962
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion: 106 Resp: 600389
Ion Ratio Lower Upper
106 100
91 181.8 153.0 229.6





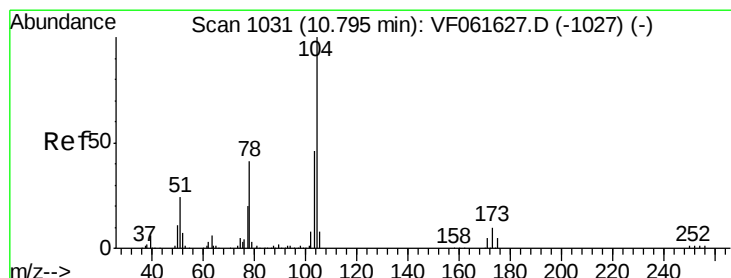
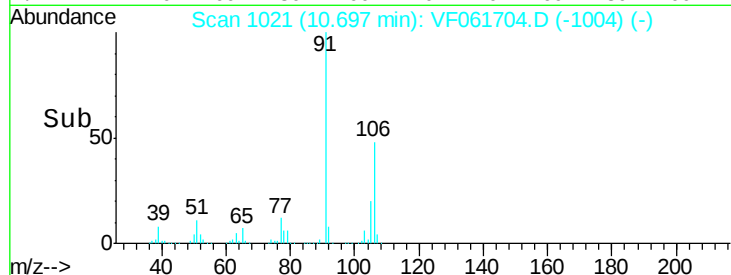
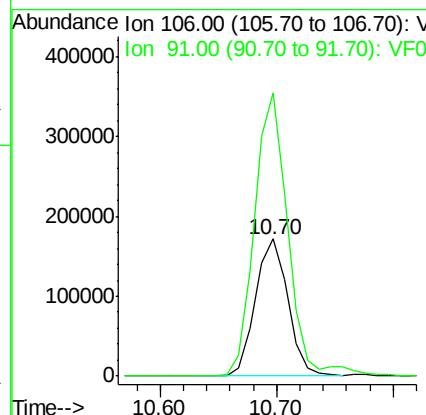
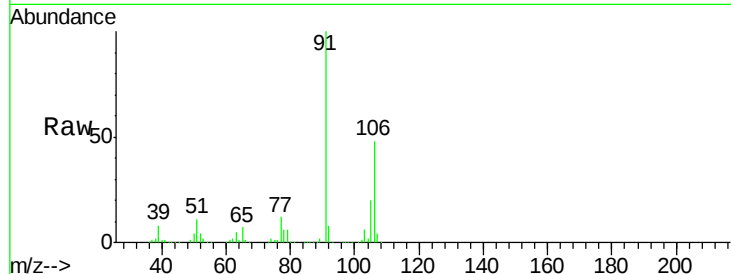
#69
o-Xylene
Concen: 51.618 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	206.7	100.1	331789	300.1	

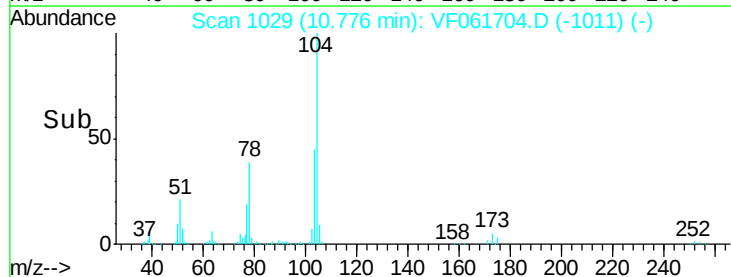
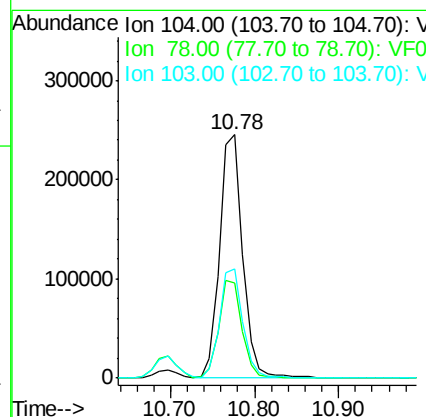
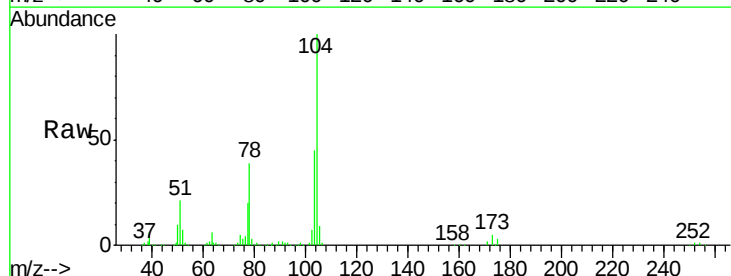
Manual Integrations
APPROVED

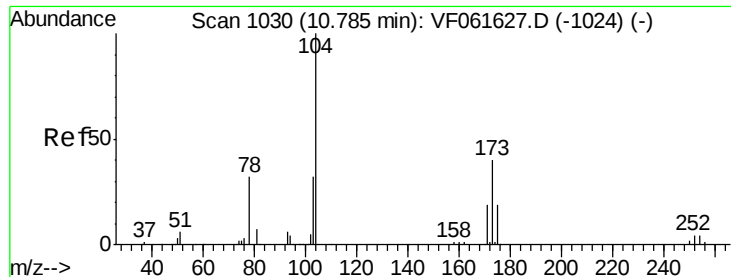
MMDadoda
2/27/2019 5:40:29 PM



#70
Styrene
Concen: 51.183 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	39.2	33.2	465423	49.8	
103	45.0	37.2		55.8	





#71

Bromoform

Concen: 47.002 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 94659

Ion Ratio Lower Upper

173 100

175 50.4 24.0 72.0

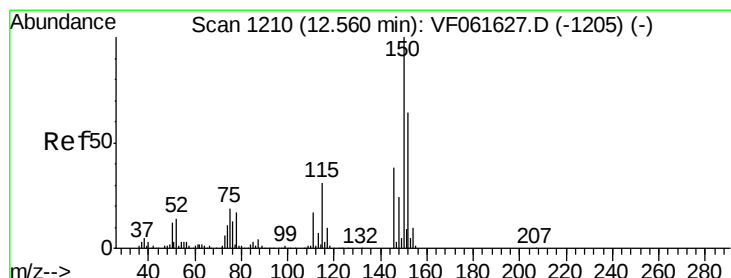
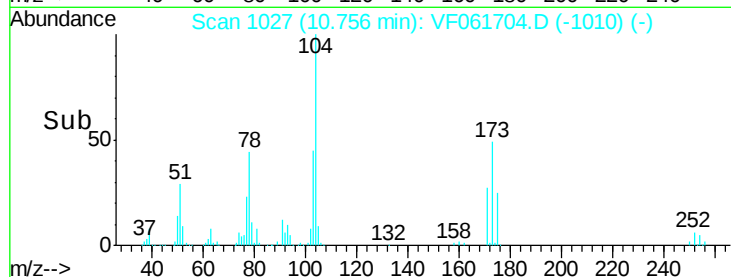
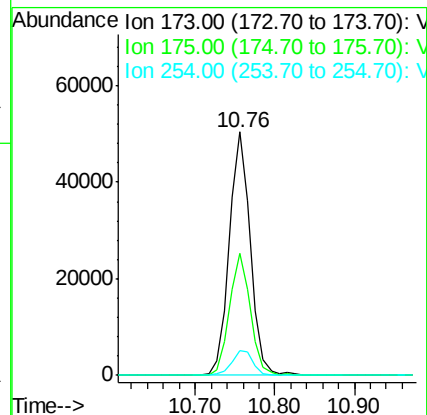
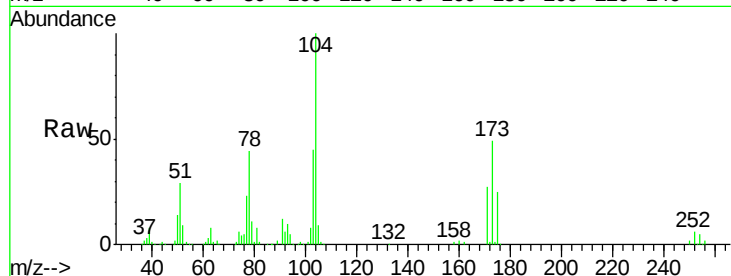
254 10.3 8.2 12.2

Manual Integrations

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2/27/2019 5:40:29 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

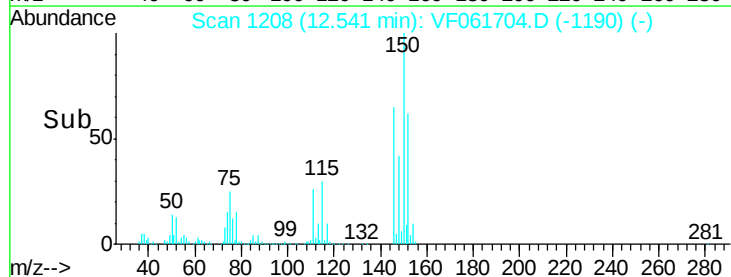
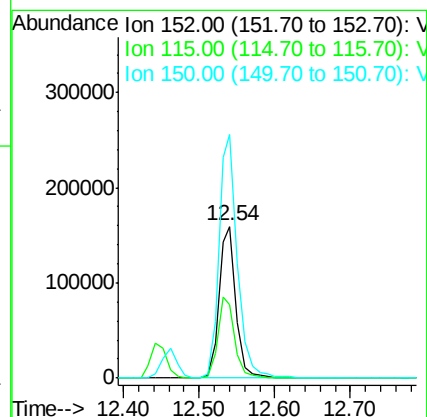
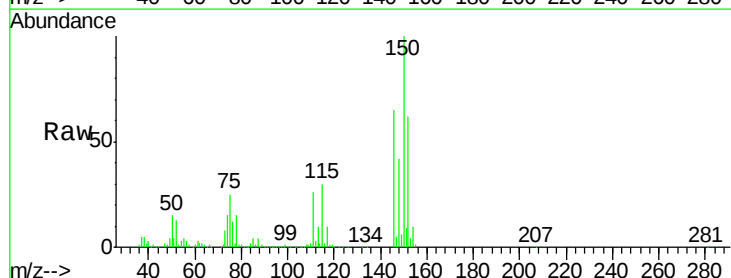
Tgt Ion:152 Resp: 252688

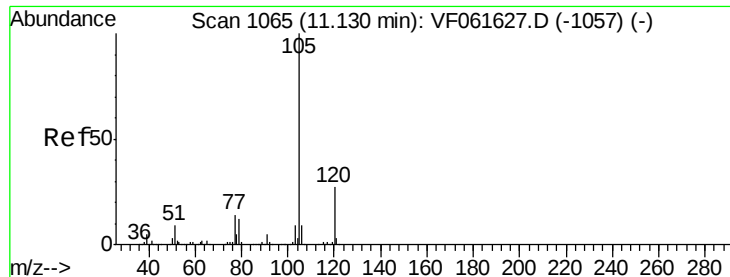
Ion Ratio Lower Upper

152 100

115 48.2 24.3 72.8

150 160.7 0.0 312.0





#73

Isopropylbenzene

Concen: 51.055 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 918532

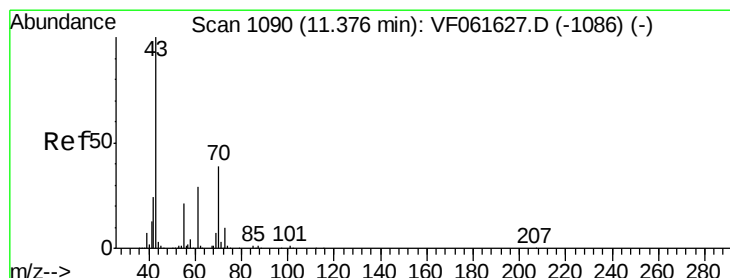
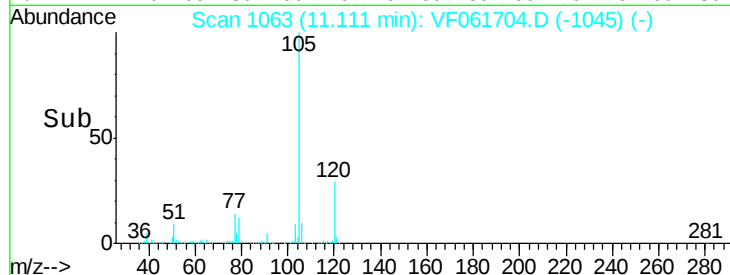
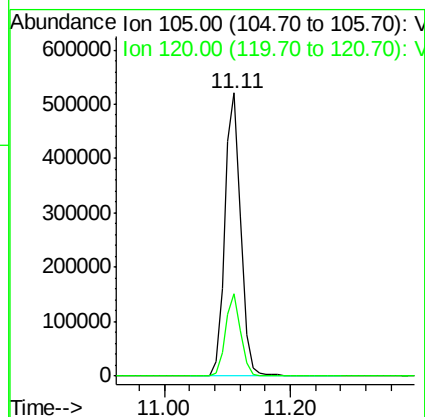
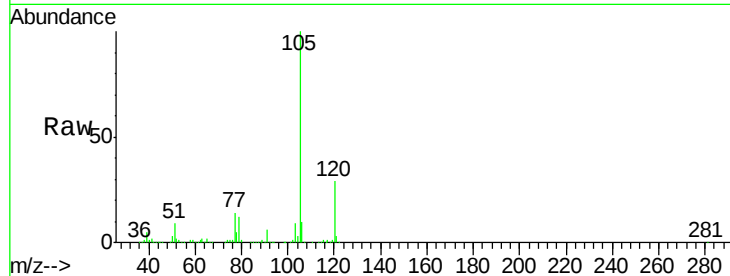
Ion Ratio Lower Upper

105 100

120 29.2 13.4 40.1

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:29 PM



#74

N-ethyl acetate

Concen: 45.131 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion: 43 Resp: 194887

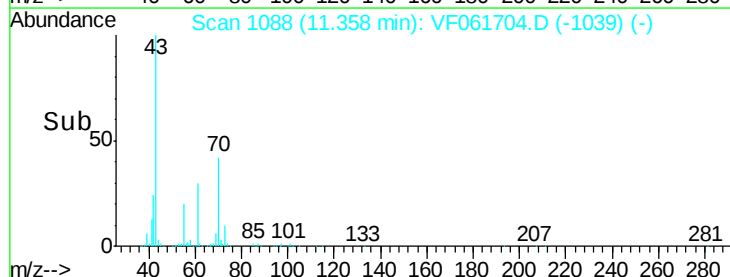
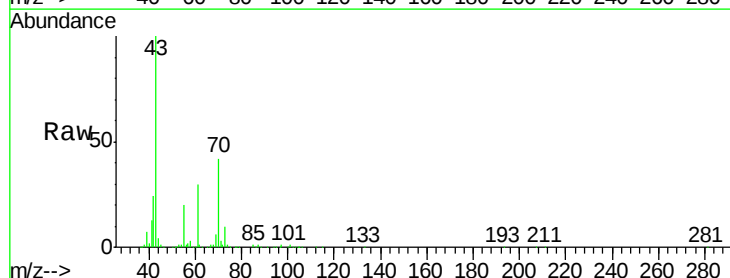
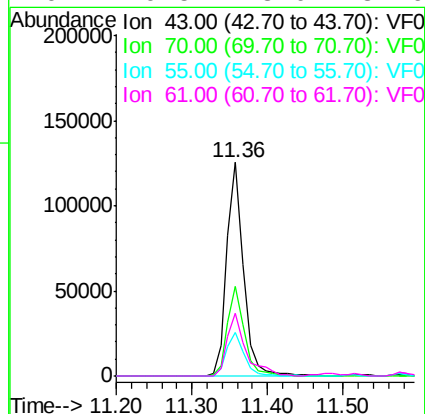
Ion Ratio Lower Upper

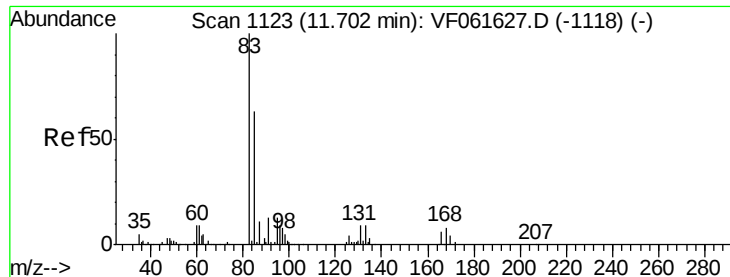
43 100

70 41.9 31.5 47.3

55 20.2 16.7 25.1

61 29.5 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 44.127 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

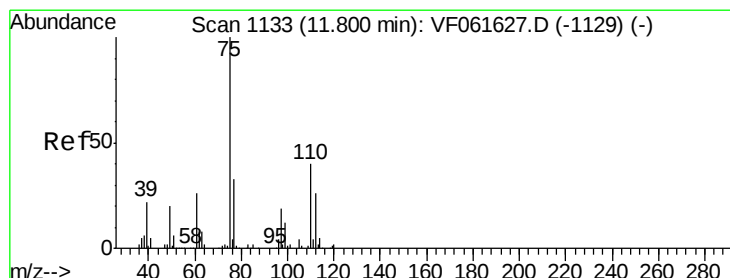
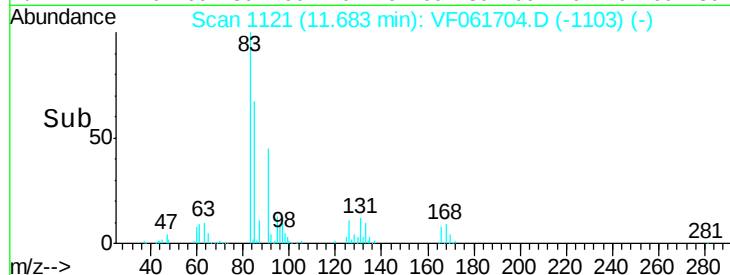
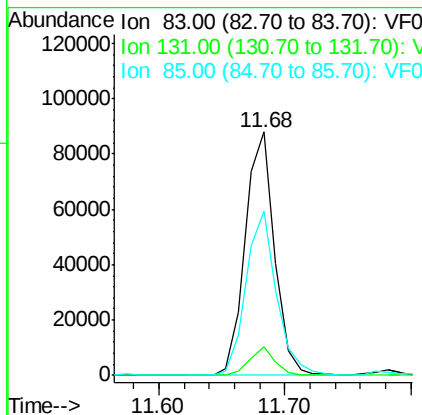
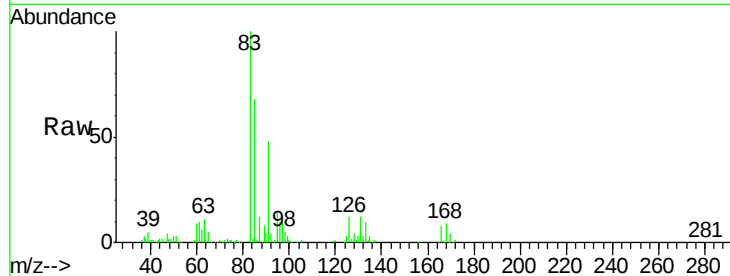
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	142228
Ion Ratio	Lower	Upper	
83	100		
131	11.7	4.4	13.2
85	67.5	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 45.280 ug/l

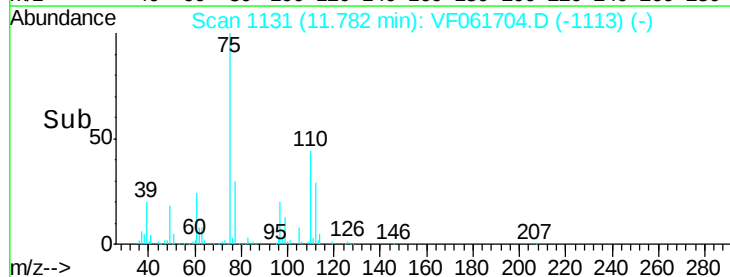
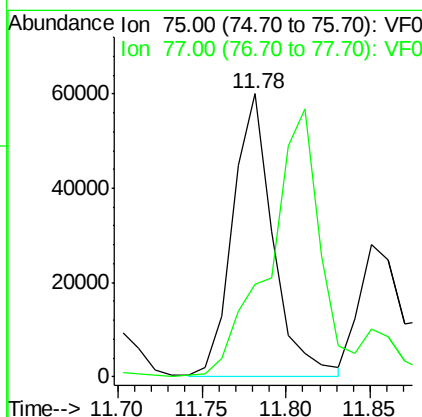
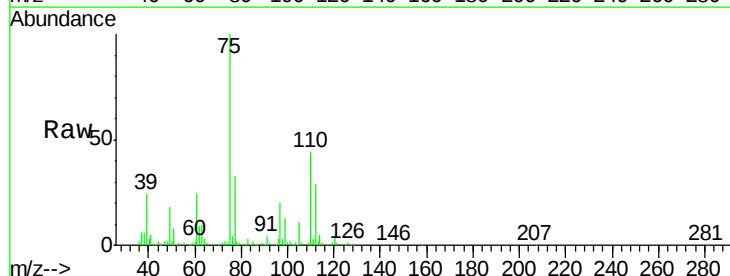
RT: 11.78 min Scan# 1131

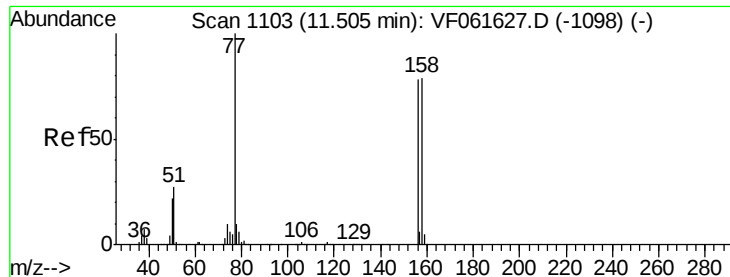
Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion:	75	Resp:	99226
Ion Ratio	Lower	Upper	
75	100		
77	32.8	16.6	49.7





#77

Bromobenzene

Concen: 50.700 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

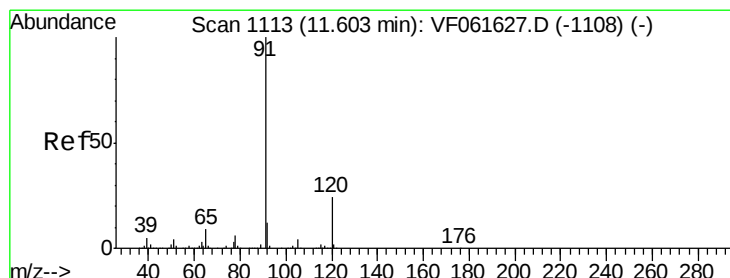
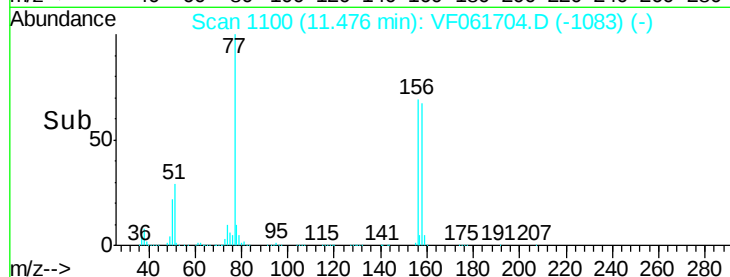
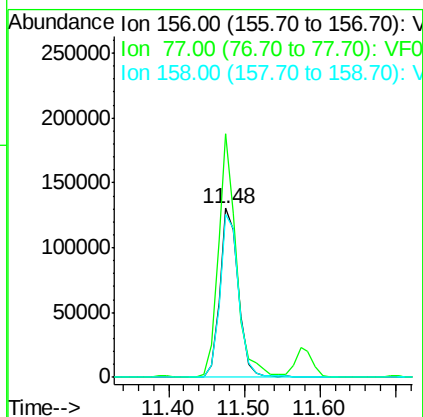
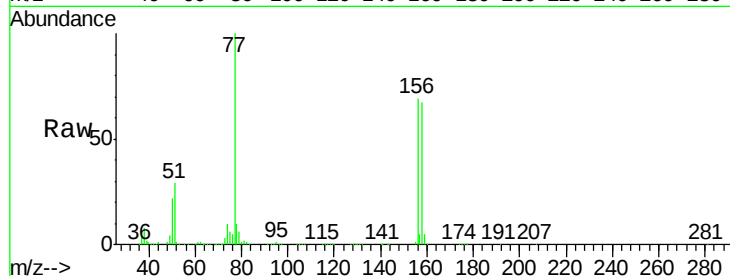
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	225339
Ion Ratio	Lower	Upper	
156	100		
77	144.0	64.3	192.7
158	96.7	50.9	152.7

Manual Integrations
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#78

n-propylbenzene

Concen: 49.746 ug/l

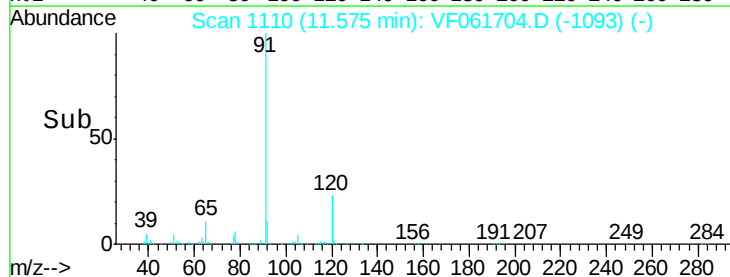
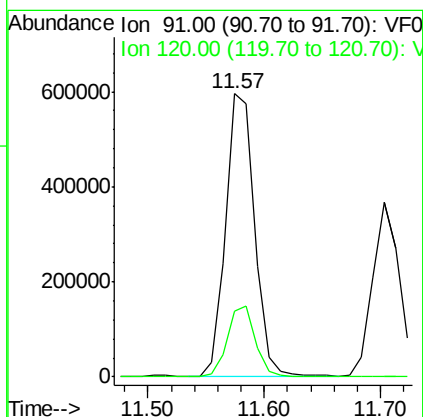
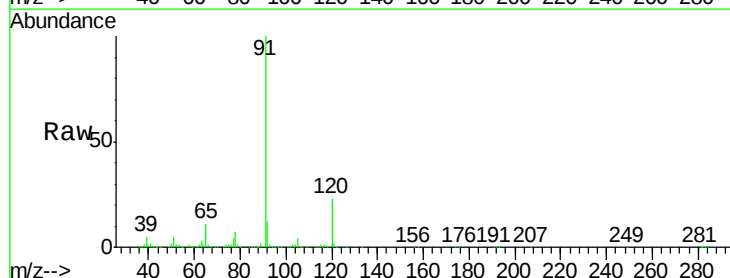
RT: 11.57 min Scan# 1110

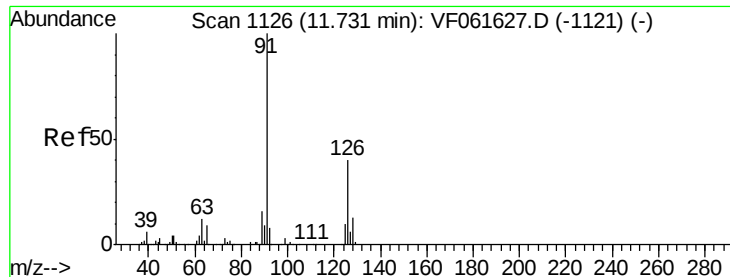
Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Tgt Ion:	91	Resp:	1027015
Ion Ratio	Lower	Upper	
91	100		
120	23.4	12.1	36.3





#79

2-Chlorotoluene

Concen: 50.135 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.03 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 579675

Ion Ratio Lower Upper

91 100

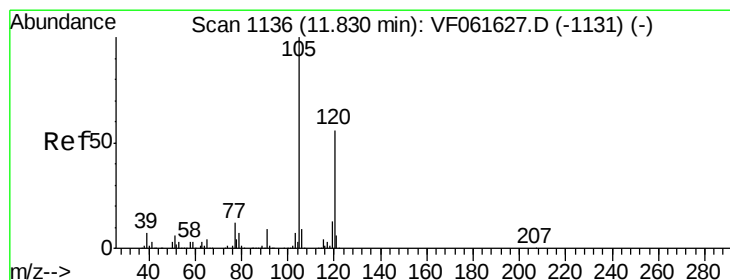
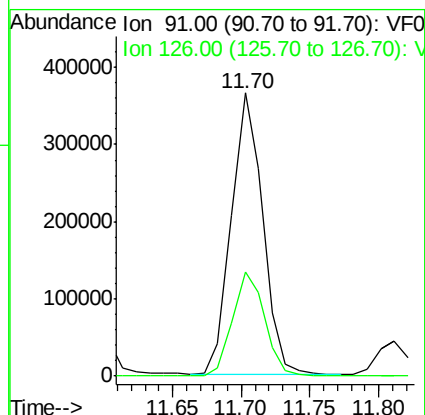
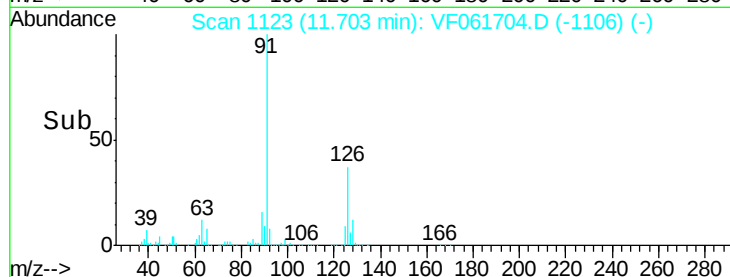
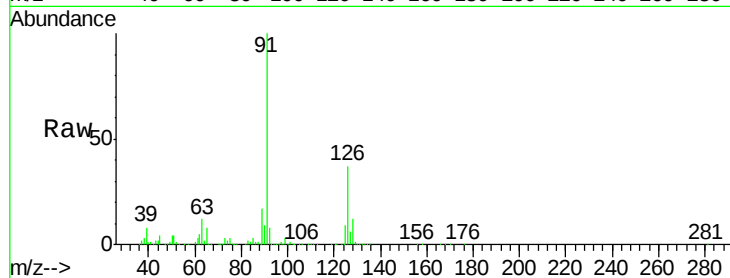
126 36.9 19.8 59.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 50.290 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF061704.D

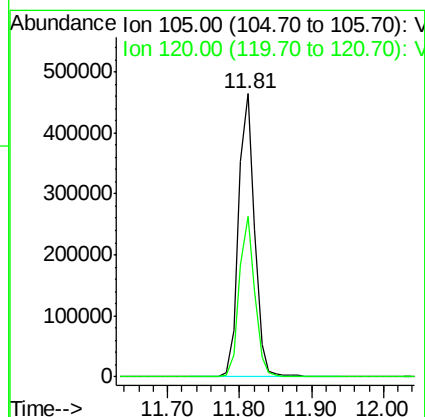
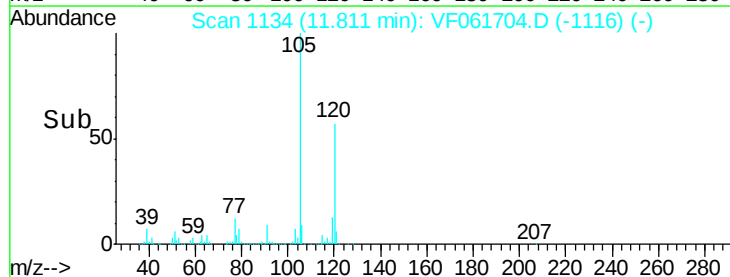
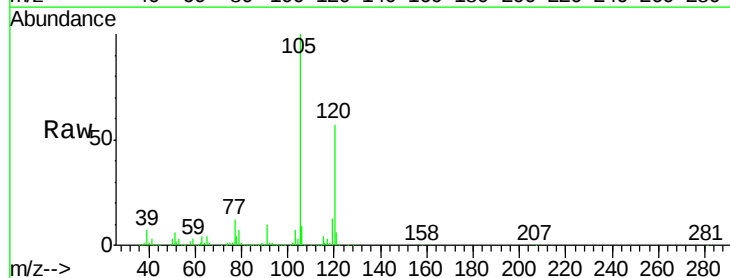
Acq: 22 Feb 2019 12:36

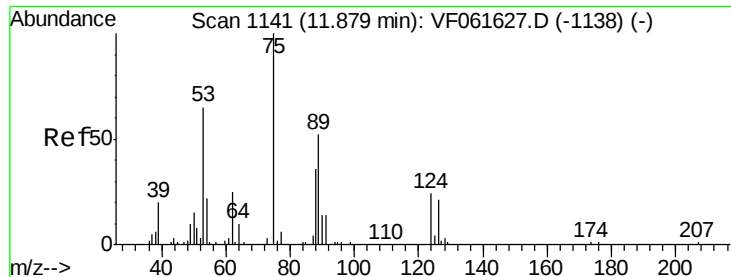
Tgt Ion: 105 Resp: 723128

Ion Ratio Lower Upper

105 100

120 56.9 27.9 83.6





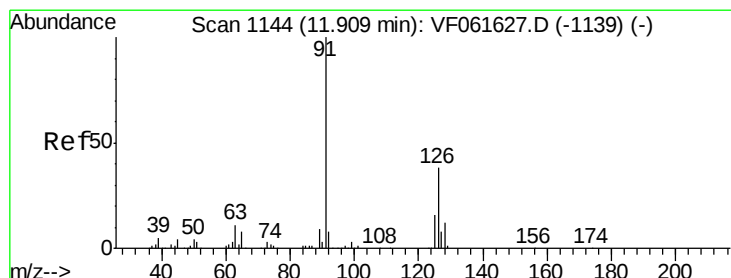
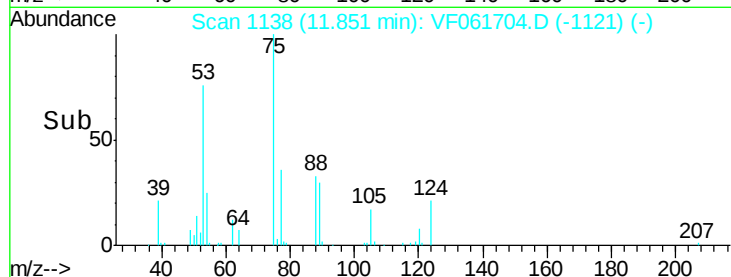
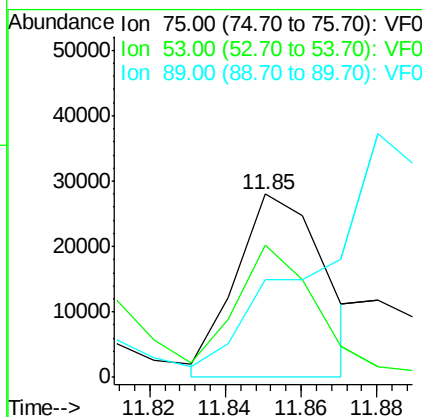
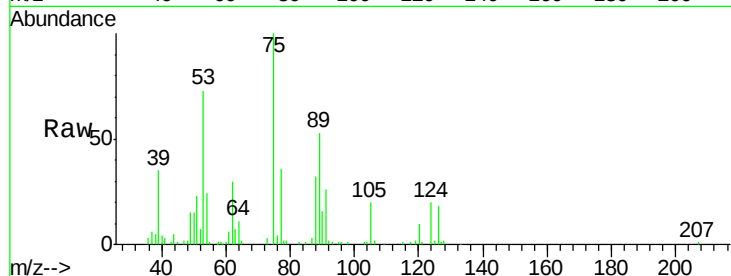
#81
trans-1,4-Dichloro-2-butene
Concen: 42.901 ug/l m
RT: 11.85 min Scan# 1138
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	72.5	53.7	80.5
89	53.3	41.6	62.4

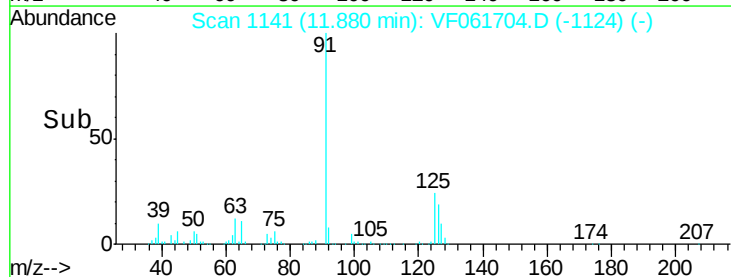
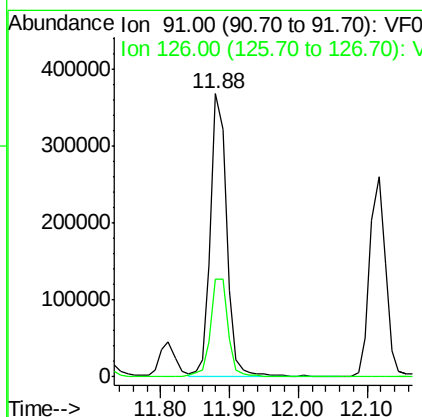
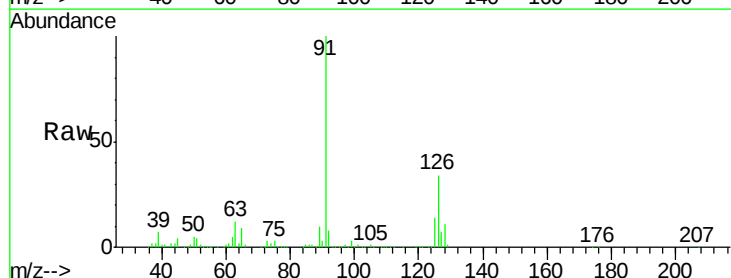
Manual Integrations
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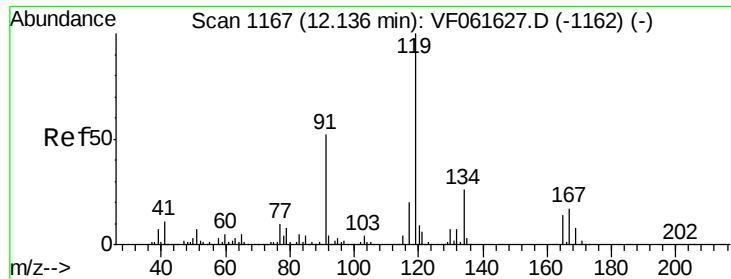
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#82
4-Chlorotoluene
Concen: 50.084 ug/l
RT: 11.88 min Scan# 1141
Delta R.T. -0.03 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	19.1	57.1





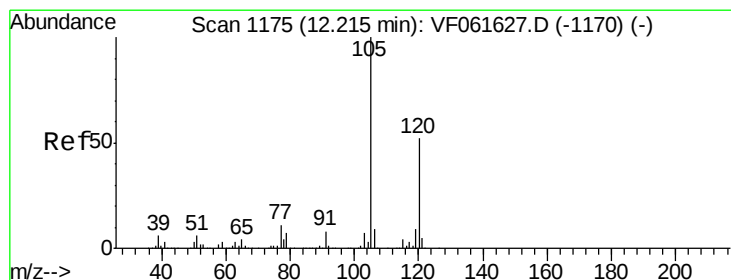
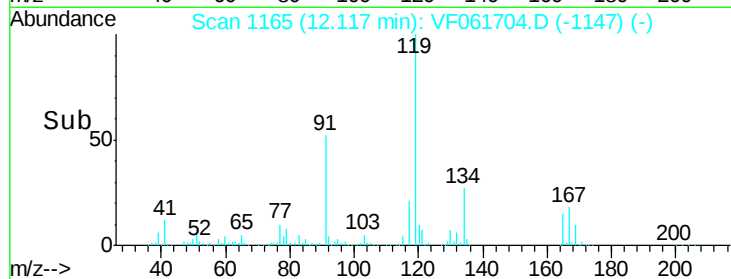
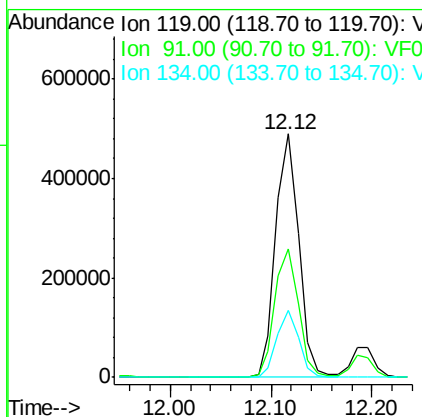
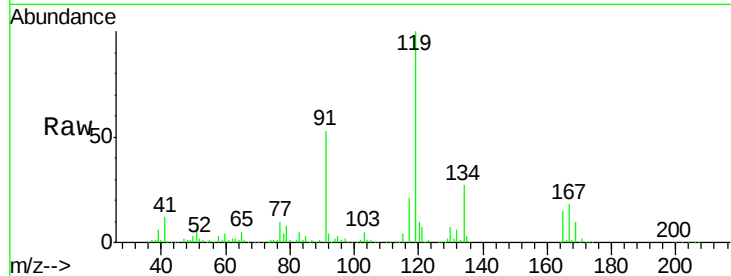
#83
 tert-Butylbenzene
 Concen: 49.102 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.02 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	782018		
91	53.0	26.3	78.8	
134	27.5	12.9	38.7	

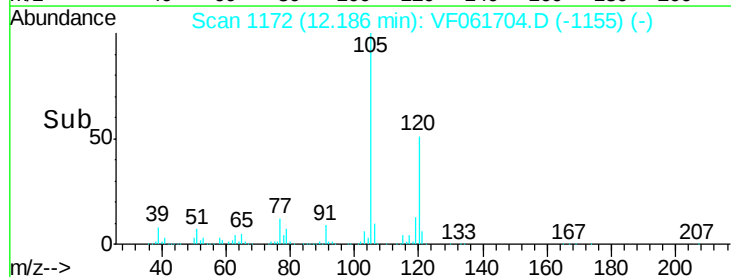
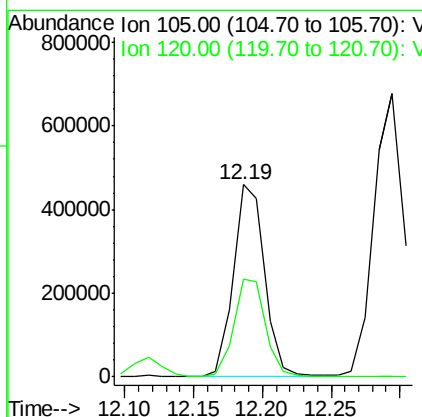
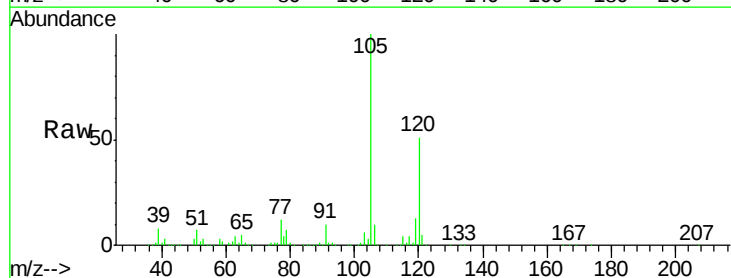
Manual Integrations
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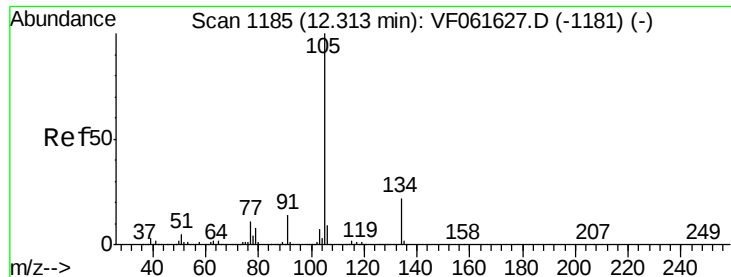
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 50.885 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.03 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	726909		
120	51.1	26.1	78.3	





#85

sec-Butylbenzene

Concen: 51.032 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1051028

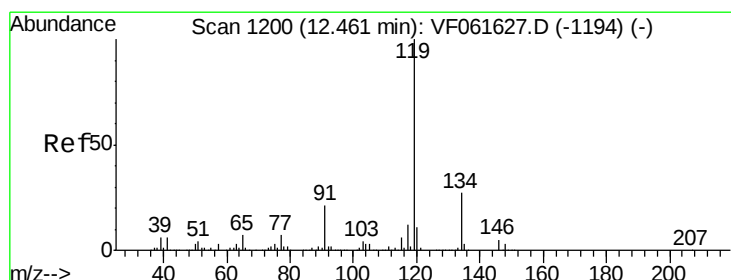
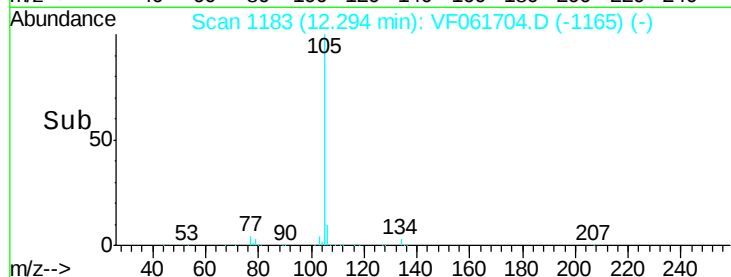
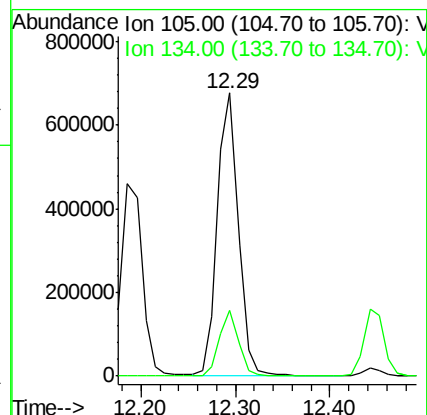
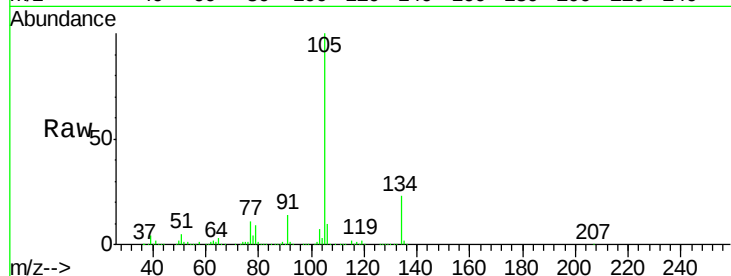
Ion Ratio Lower Upper

105 100

134 23.2 10.8 32.4

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 51.313 ug/l

RT: 12.44 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061704.D

Acq: 22 Feb 2019 12:36

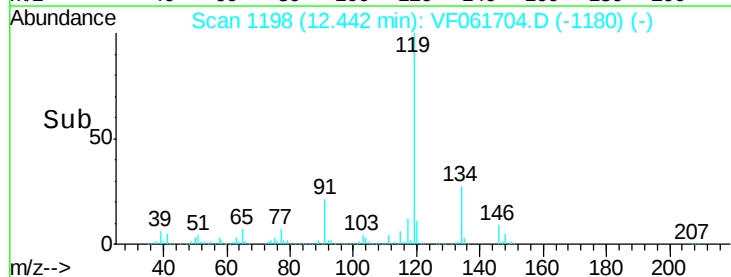
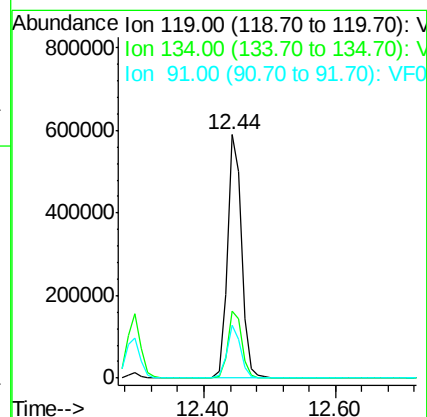
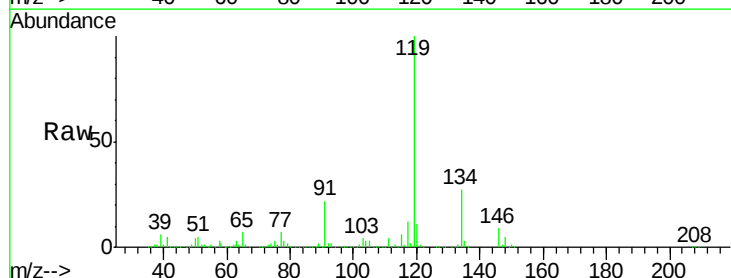
Tgt Ion:119 Resp: 886921

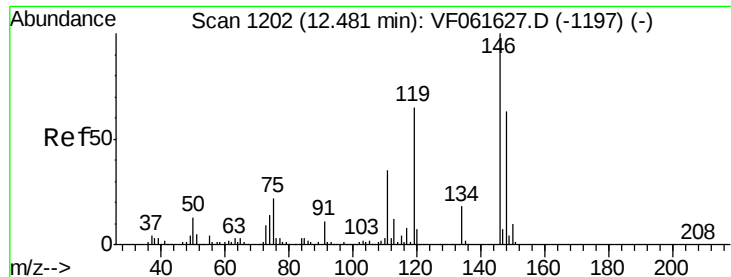
Ion Ratio Lower Upper

119 100

134 27.3 13.7 41.1

91 21.7 10.8 32.4





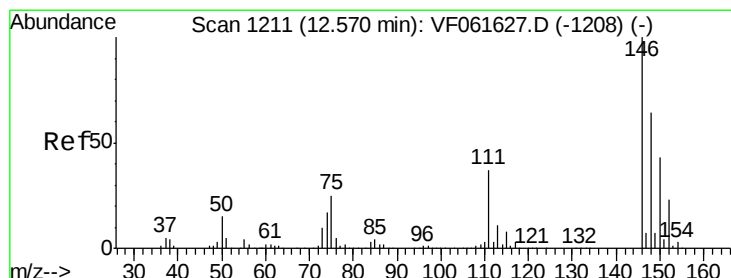
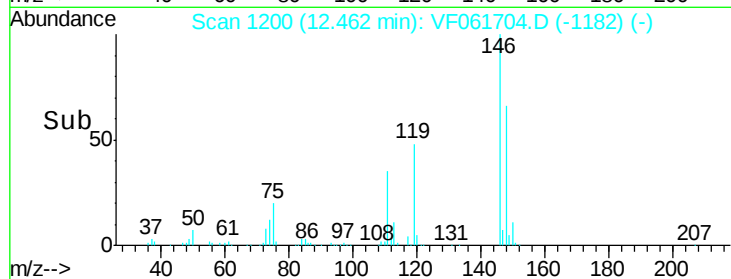
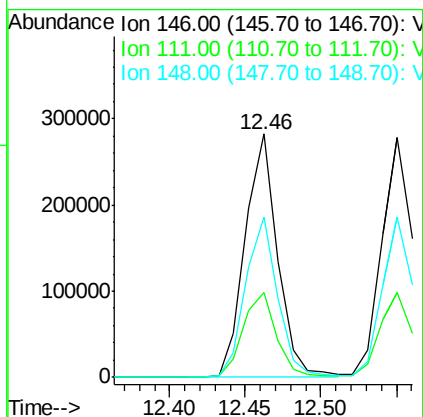
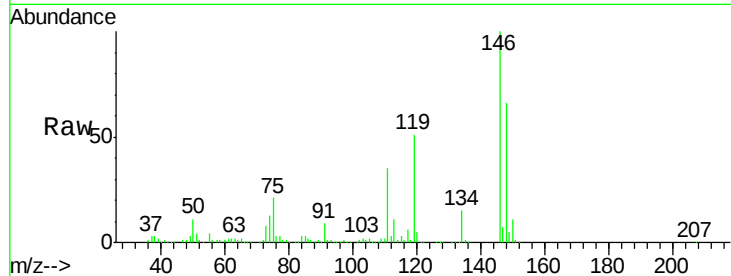
#87
 1,3-Dichlorobenzene
 Concen: 48.885 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.8	17.5	52.6
148	66.1	31.4	94.3

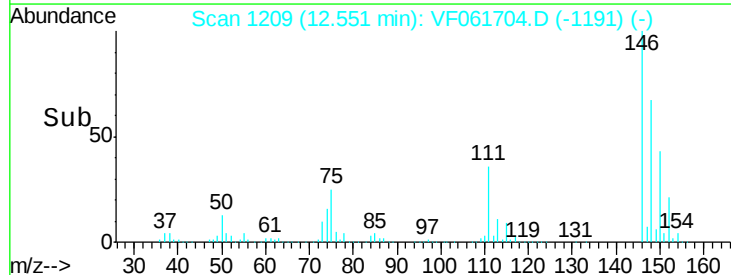
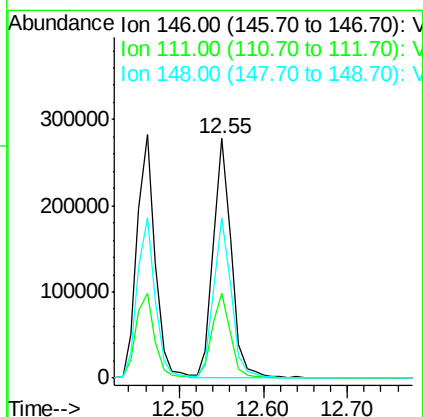
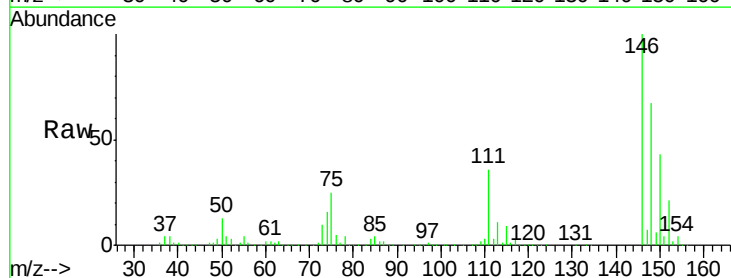
Manual Integrations
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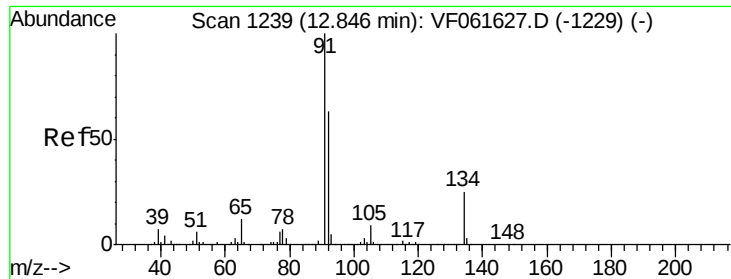
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#88
 1,4-Dichlorobenzene
 Concen: 50.252 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.5	18.4	55.4
148	67.2	32.2	96.6





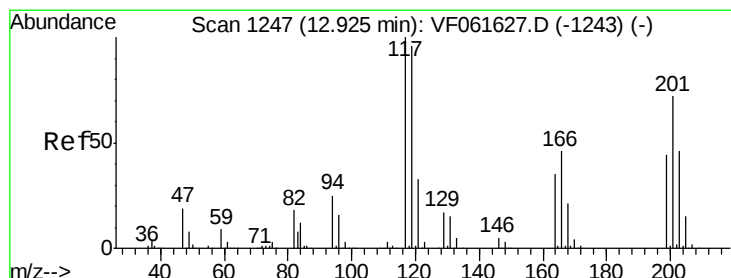
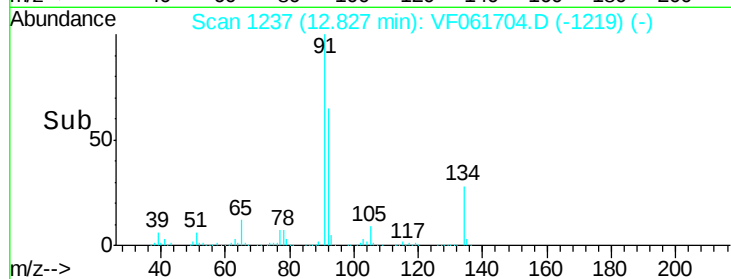
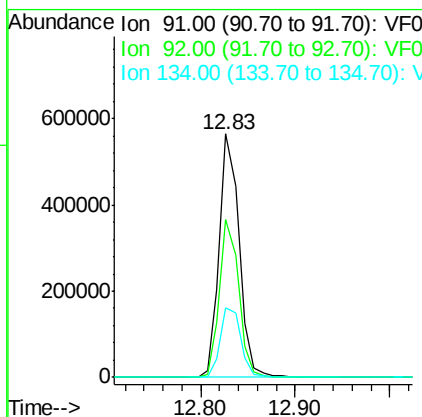
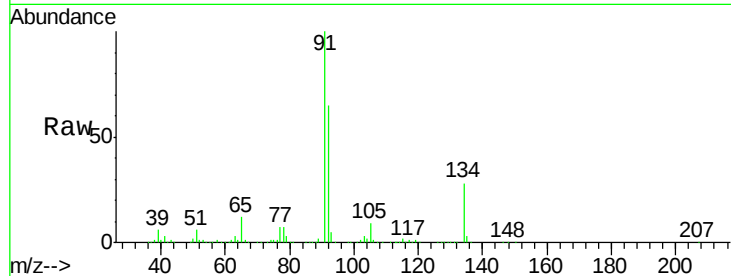
#89
n-Butylbenzene
Concen: 50.394 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100	822500		
92	64.7		31.4	94.3
134	28.5		12.3	36.9

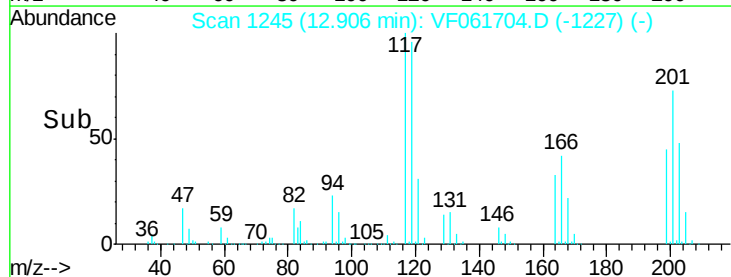
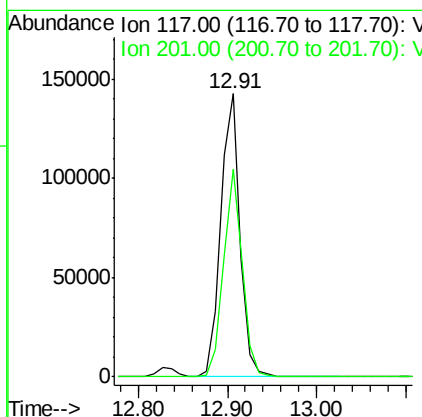
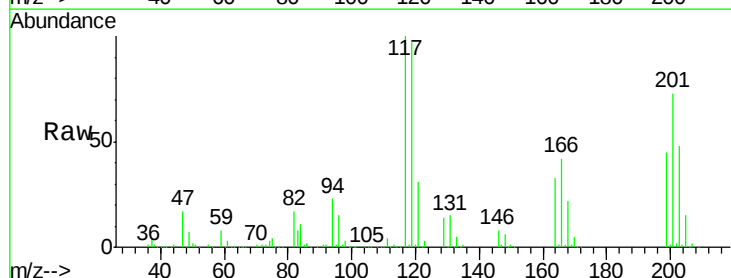
Manual Integrations
APPROVED

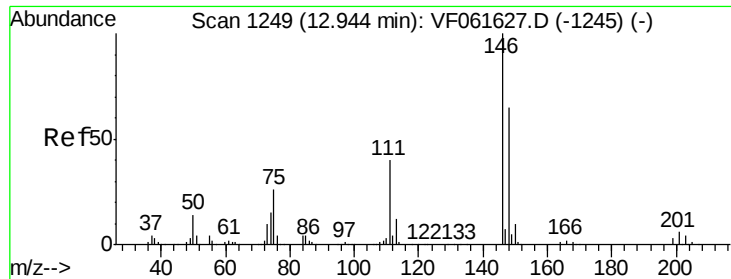
MMDadoda
2/27/2019 5:40:29 PM



#90
Hexachloroethane
Concen: 54.117 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	217545		
201	73.2		36.2	108.6





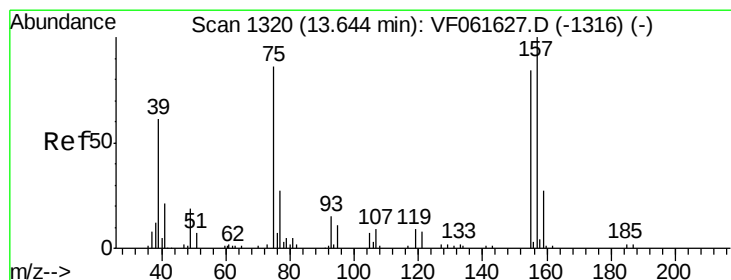
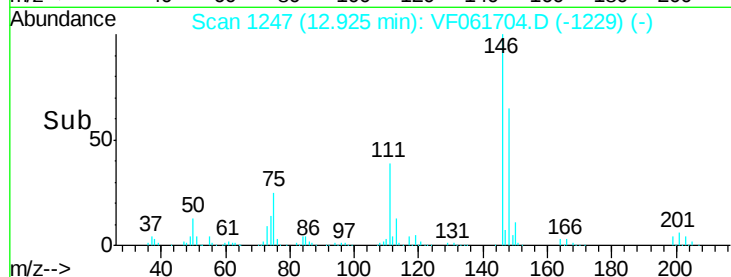
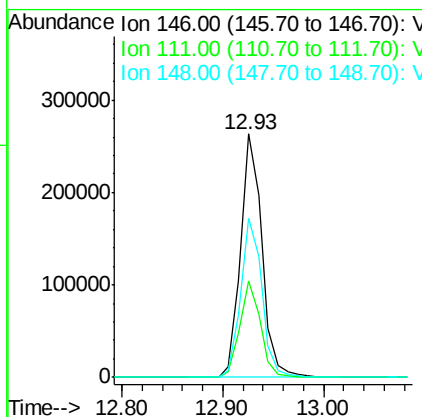
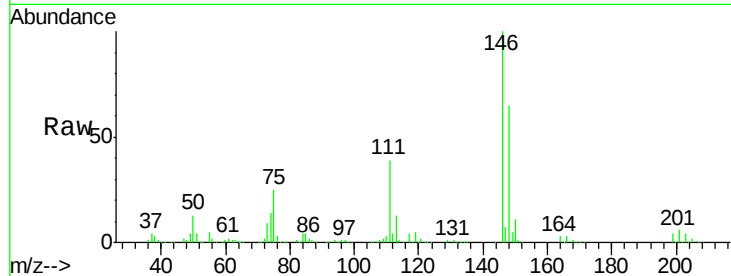
#91
 1,2-Dichlorobenzene
 Concen: 46.886 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	386410		
111	39.5	20.2	60.5	
148	65.5	32.3	96.9	

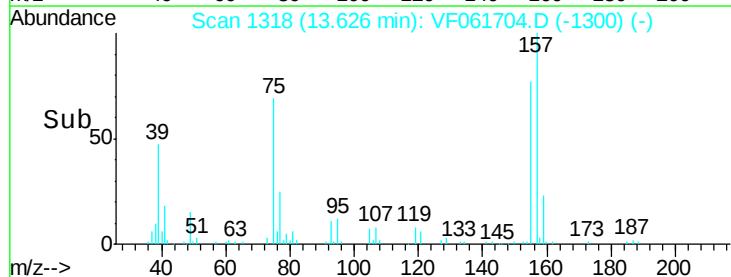
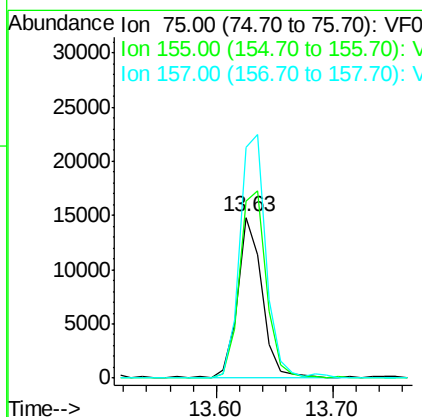
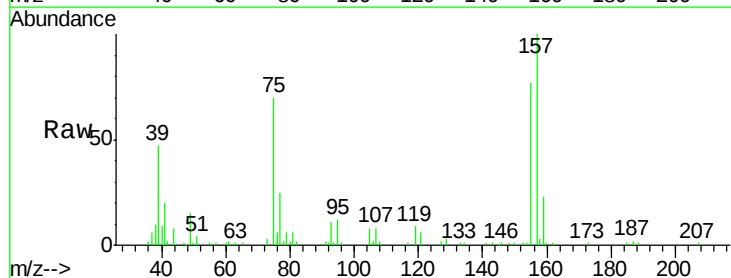
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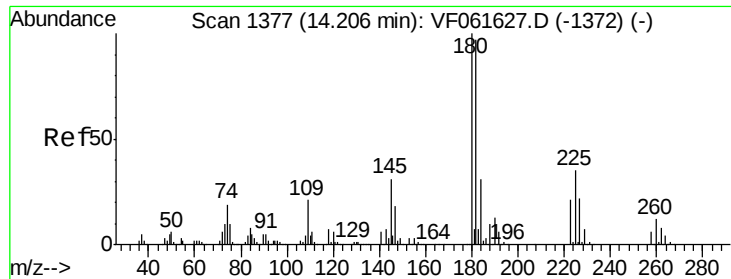
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 42.308 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	21620		
155	110.3	48.9	146.8	
157	143.8	58.3	174.8	





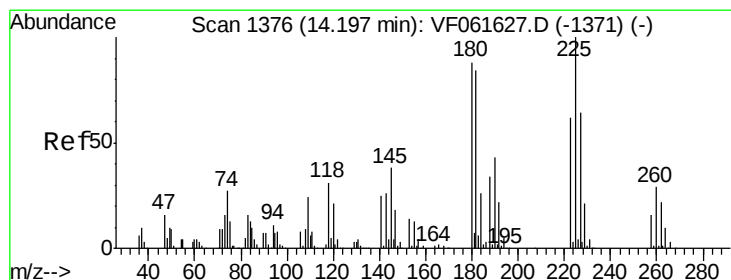
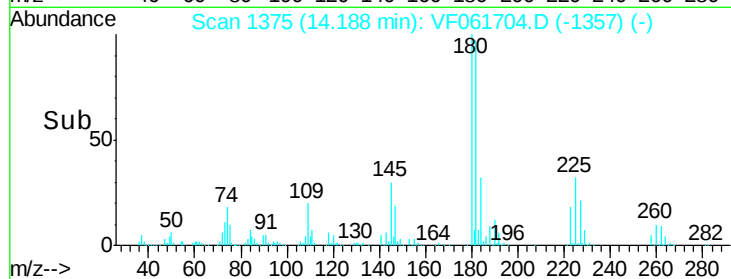
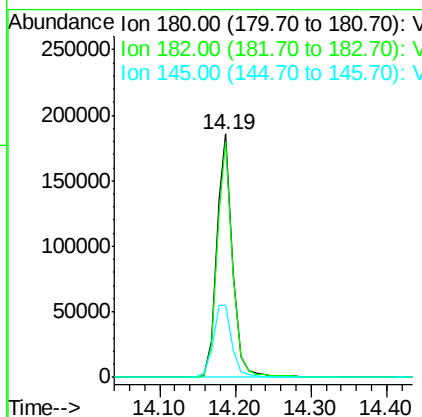
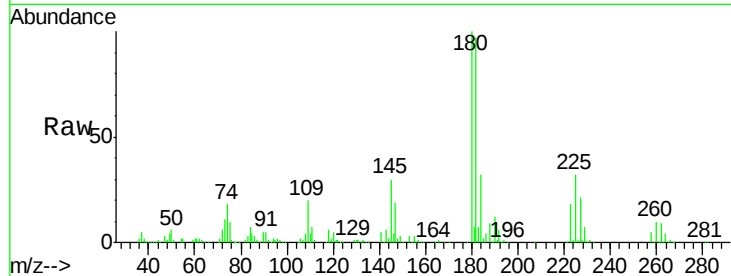
#93
 1,2,4-Trichlorobenzene
 Concen: 46.431 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	274283		
182	96.9	48.6	145.9	
145	29.5	15.3	45.9	

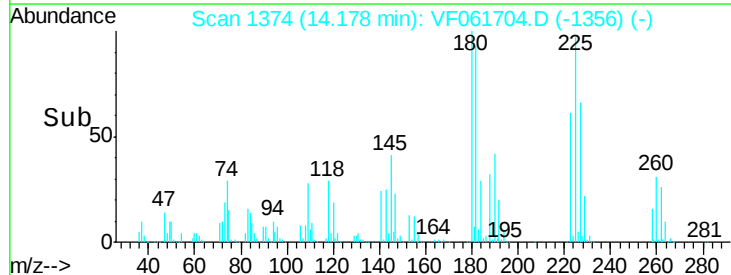
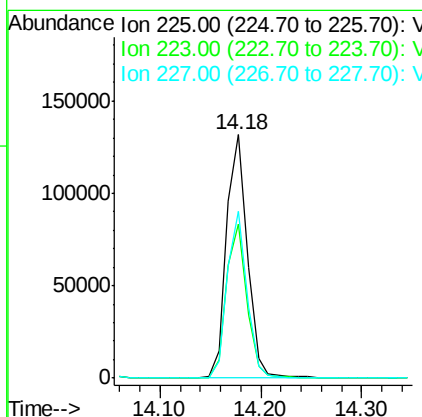
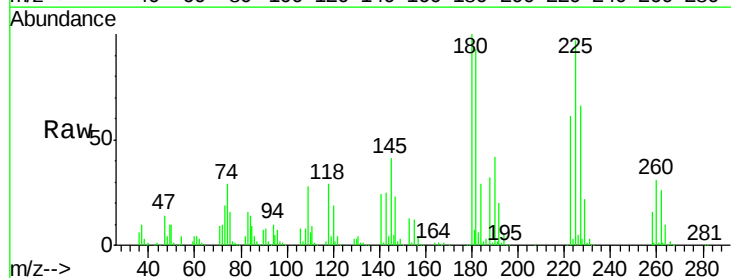
Manual Integrations
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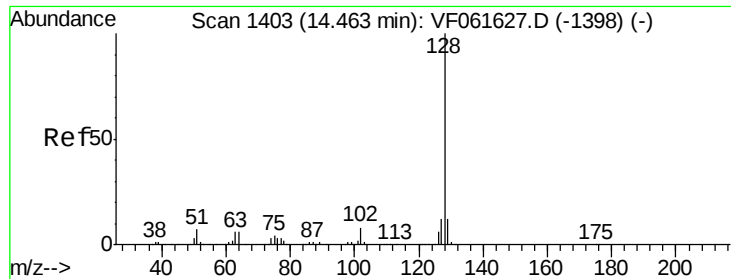
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#94
 Hexachlorobutadiene
 Concen: 51.934 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061704.D
 Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	189472		
223	63.2	30.9	92.7	
227	68.4	32.1	96.3	





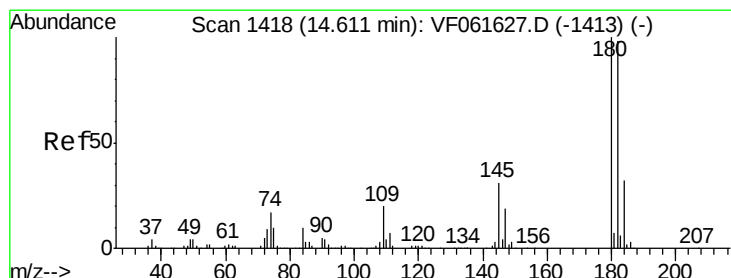
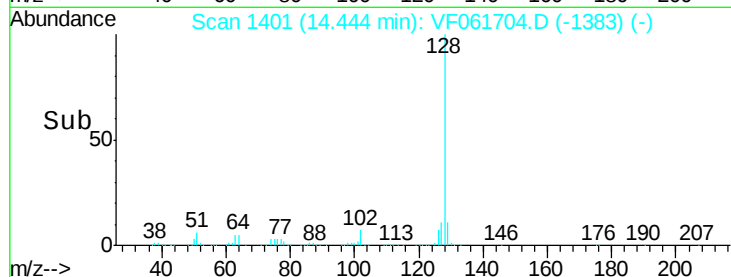
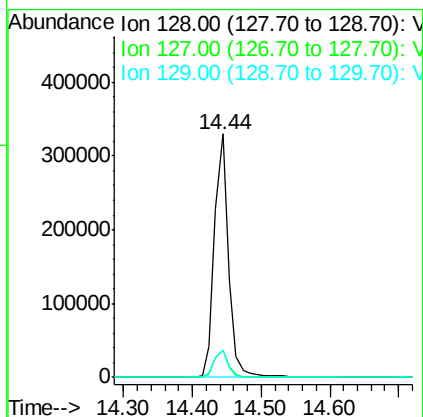
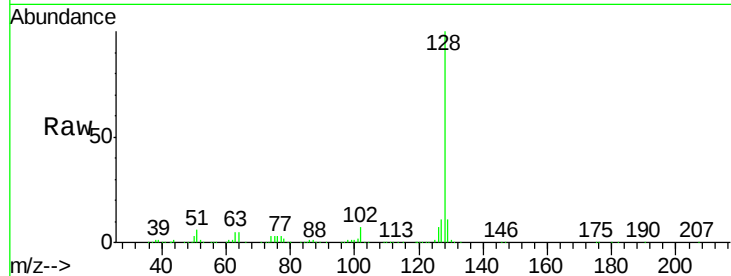
#95
Naphthalene
Concen: 45.585 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
128	100	471150		
127	11.3		9.8	14.6
129	11.0		9.4	14.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 48.549 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061704.D
Acq: 22 Feb 2019 12:36

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	263236		
182	96.5		49.0	147.2
145	29.7		15.4	46.1

