

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052919\
 Data File : VF062774.D
 Acq On : 29 May 2019 10:24
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

mmdadoda
 5/30/2019 11:01:51 AM

Quant Time: May 30 08:47:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	761716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.80	114	1202127	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	925680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	455656	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	231307	42.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.94%	
35) Dibromofluoromethane	4.33	113	420446	45.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.42%	
50) Toluene-d8	7.73	98	994815	45.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.60%	
62) 4-Bromofluorobenzene	11.50	95	398915	47.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.78%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.01	85	437269	42.184	ug/l	98
3) Chloromethane	1.15	50	367151	38.467	ug/l	97
4) Vinyl Chloride	1.19	62	354450	40.344	ug/l	97
5) Bromomethane	1.40	94	243360	50.633	ug/l	96
6) Chloroethane	1.47	64	153916	47.701	ug/l	92
7) Trichlorofluoromethane	1.57	101	587322m	49.787	ug/l	
8) Diethyl Ether	1.71	74	121983	52.196	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	1.93	101	352235	46.892	ug/l	97
10) Methyl Iodide	2.01	142	699900m	47.432	ug/l	
11) Tert butyl alcohol	2.70	59	85472	240.517	ug/l	96
12) 1,1-Dichloroethene	1.89	96	346930	50.701	ug/l	94
13) Acrolein	2.11	56	63572	171.375	ug/l	91
14) Allyl chloride	2.21	41	263334m	42.521	ug/l	
15) Acrylonitrile	3.10	53	463667	462.543	ug/l #	86
16) Acetone	2.36	43	395259	283.049	ug/l	93
17) Carbon Disulfide	1.93	76	908704	44.805	ug/l	96
18) Methyl Acetate	2.47	43	111608	50.860	ug/l	95
19) Methyl tert-butyl Ether	2.56	73	625234	51.113	ug/l	99
20) Methylene Chloride	2.37	84	329057m	47.011	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	355497m	53.153	ug/l	
22) Diisopropyl ether	2.95	45	753406	49.325	ug/l	97
23) Vinyl Acetate	3.36	43	2596491	251.996	ug/l	99
24) 1,1-Dichloroethane	3.03	63	813947	72.640	ug/l	97
25) 2-Butanone	4.54	43	786567	263.641	ug/l	98
26) 2,2-Dichloropropane	3.79	77	336816	52.535	ug/l	94
27) cis-1,2-Dichloroethene	3.67	96	600773	54.609	ug/l	93
28) Bromochloromethane	3.92	49	301343	47.951	ug/l	95
29) Tetrahydrofuran	4.29	42	299979	248.469	ug/l	98
30) Chloroform	4.07	83	797441	51.258	ug/l	99
31) Cyclohexane	3.88	56	727018m	48.322	ug/l	
32) 1,1,1-Trichloroethane	4.31	97	547318m	52.973	ug/l	
36) 1,1-Dichloropropene	4.49	75	642059	52.123	ug/l	98
37) Ethyl Acetate	4.33	43	258008	51.299	ug/l #	77
38) Carbon Tetrachloride	4.21	117	424983	45.874	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052919\
 Data File : VF062774.D
 Acq On : 29 May 2019 10:24
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050

Manual Integrations
 APPROVED

mmdadoda
 5/30/2019 11:01:51 AM

Quant Time: May 30 08:47:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	822406	55.486	ug/l	97
40) Benzene	4.84	78	1870899	55.751	ug/l	100
41) Methacrylonitrile	4.95	41	135851	51.521	ug/l	95
42) 1,2-Dichloroethane	5.15	62	364399	54.453	ug/l	93
43) Isopropyl Acetate	7.13	43	303070	46.512	ug/l	92
44) Trichloroethene	5.71	130	536039	56.835	ug/l	72
45) 1,2-Dichloropropane	6.43	63	483689	57.098	ug/l	100
46) Dibromomethane	6.28	93	282954	57.796	ug/l	96
47) Bromodichloromethane	6.57	83	575125	56.587	ug/l	96
48) Methyl methacrylate	6.90	41	165915	48.716	ug/l	98
49) 1,4-Dioxane	6.89	88	42905	983.595	ug/l	87
51) 4-Methyl-2-Pentanone	8.42	43	1148580	257.884	ug/l	97
52) Toluene	7.80	92	1047634	59.527	ug/l	98
53) t-1,3-Dichloropropene	8.44	75	463014	55.684	ug/l	95
54) cis-1,3-Dichloropropene	7.47	75	664388	57.080	ug/l	99
55) 1,1,2-Trichloroethane	8.65	97	312675	60.004	ug/l	97
56) Ethyl methacrylate	8.77	69	317022	51.066	ug/l	97
57) 1,3-Dichloropropane	9.01	76	507757	57.207	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.46	63	537189	265.836	ug/l	97
59) 2-Hexanone	9.64	43	859371	300.141	ug/l	93
60) Dibromochloromethane	8.87	129	406215	59.812	ug/l	96
61) 1,2-Dibromoethane	9.15	107	321374	58.065	ug/l	99
64) Tetrachloroethene	8.32	164	404574	55.168	ug/l	95
65) Chlorobenzene	9.95	112	1044799	57.466	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.07	131	422082	57.829	ug/l	97
67) Ethyl Benzene	10.04	91	1774946	56.196	ug/l	99
68) m/p-Xylenes	10.27	106	1353720	114.036	ug/l	96
69) o-Xylene	10.83	106	713870	58.384	ug/l	95
70) Styrene	10.90	104	1083262	58.288	ug/l	99
71) Bromoform	10.89	173	221505	60.595	ug/l #	98
73) Isopropylbenzene	11.23	105	1911345	58.527	ug/l	96
74) N-amyl acetate	11.45	43	485269	59.417	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.78	83	404337	60.584	ug/l	98
76) 1,2,3-Trichloropropane	11.88	75	250116	57.036	ug/l	85
77) Bromobenzene	11.59	156	473820	58.369	ug/l	99
78) n-propylbenzene	11.68	91	2225981	57.594	ug/l	97
79) 2-Chlorotoluene	11.81	91	1290128	59.231	ug/l	96
80) 1,3,5-Trimethylbenzene	11.91	105	1496705	57.156	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.95	75	114534m	58.757	ug/l	
82) 4-Chlorotoluene	11.99	91	1219810	56.790	ug/l	100
83) tert-Butylbenzene	12.20	119	1569104	59.061	ug/l	97
84) 1,2,4-Trimethylbenzene	12.28	105	1444320	56.987	ug/l	97
85) sec-Butylbenzene	12.38	105	2017314	56.580	ug/l	99
86) p-Isopropyltoluene	12.53	119	1711223	56.951	ug/l	97
87) 1,3-Dichlorobenzene	12.55	146	832877	56.710	ug/l	98
88) 1,4-Dichlorobenzene	12.64	146	775777	56.288	ug/l	97
89) n-Butylbenzene	12.90	91	1631012	55.054	ug/l	98
90) Hexachloroethane	12.98	117	429910	59.643	ug/l	89
91) 1,2-Dichlorobenzene	13.01	146	749449	57.247	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.70	75	48120	60.438	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052919\
Data File : VF062774.D
Acq On : 29 May 2019 10:24
Operator : FY/SY
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM

Quant Time: May 30 08:47:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	510651	54.494	ug/l	96
94) Hexachlorobutadiene	14.23	225	370472	56.650	ug/l	94
95) Naphthalene	14.50	128	855613	50.259	ug/l	100
96) 1,2,3-Trichlorobenzene	14.65	180	467333	52.650	ug/l	96

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

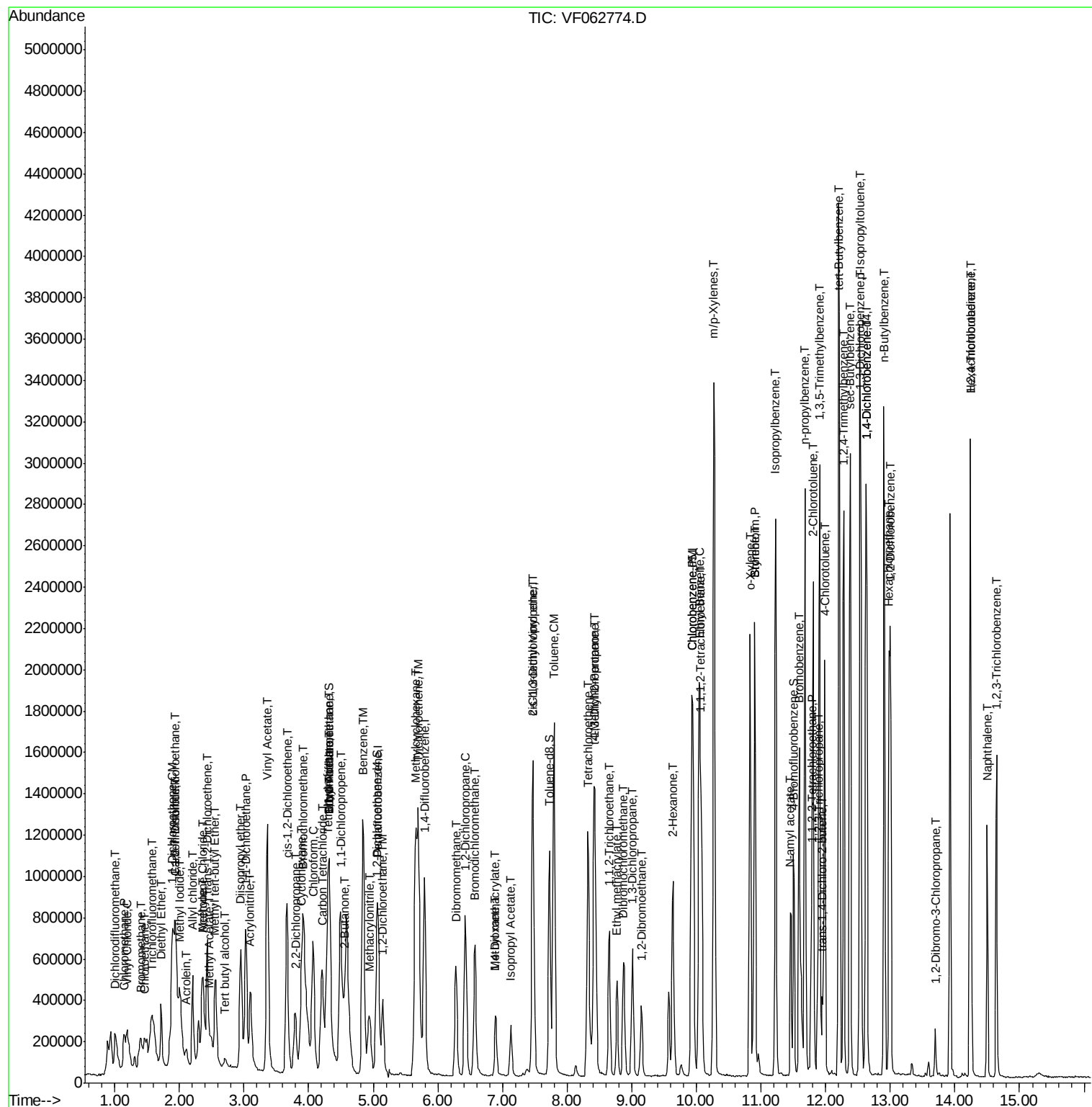
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF052919\
 Data File : VF062774.D
 Acq On : 29 May 2019 10:24
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

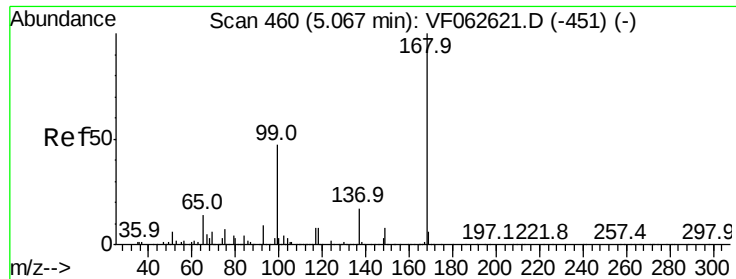
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

mmdadoda
 5/30/2019 11:01:51 AM

Quant Time: May 30 08:47:46 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration





#1

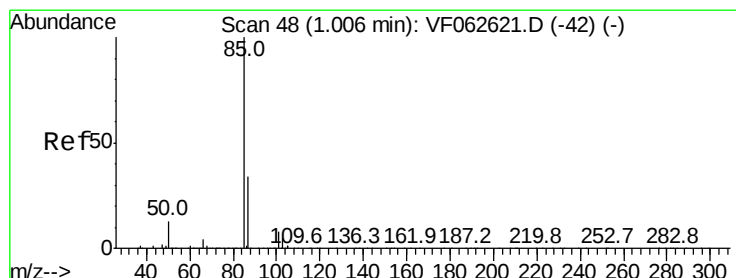
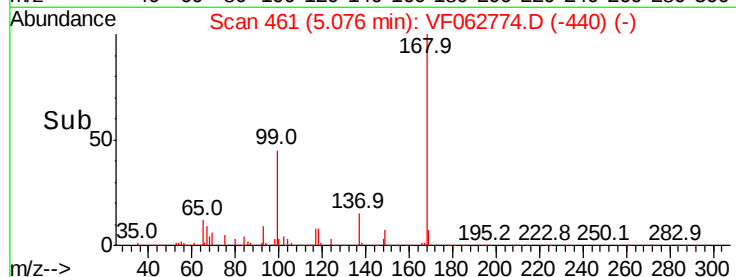
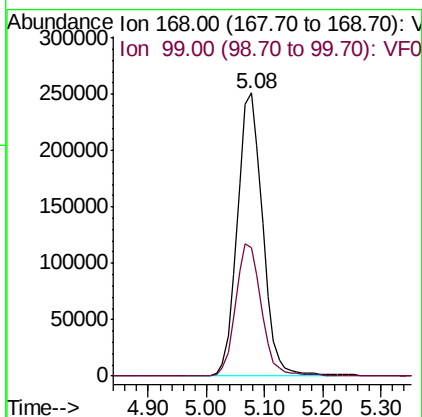
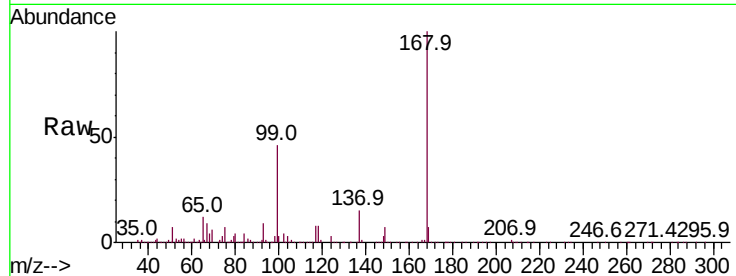
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.08 min Scan# 461
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
168	100		
99	45.6	37.8	56.8

Manual Integrations
 APPROVED

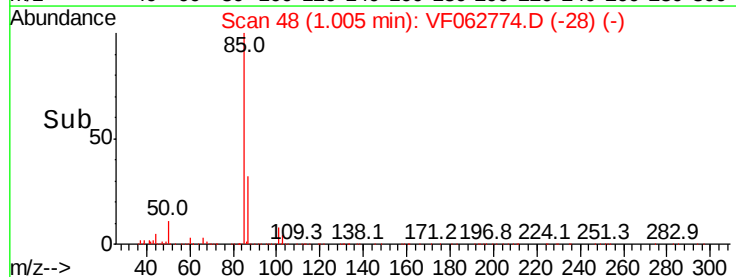
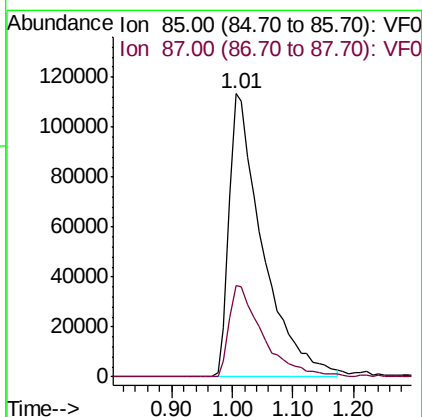
mmdadoda
 5/30/2019 11:01:51 AM

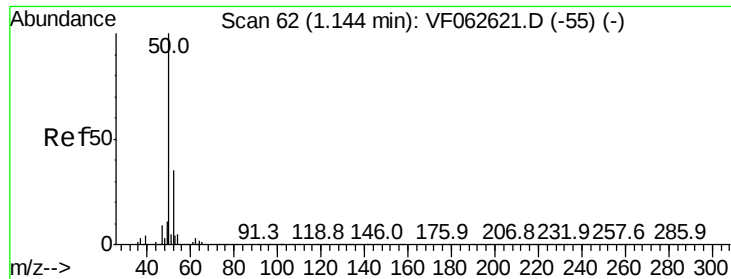


#2

Dichlorodifluoromethane
 Concen: 42.184 ug/l
 RT: 1.01 min Scan# 48
 Delta R.T. -0.00 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.8	50.3





#3

Chloromethane

Concen: 38.467 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 367151

Ion Ratio Lower Upper

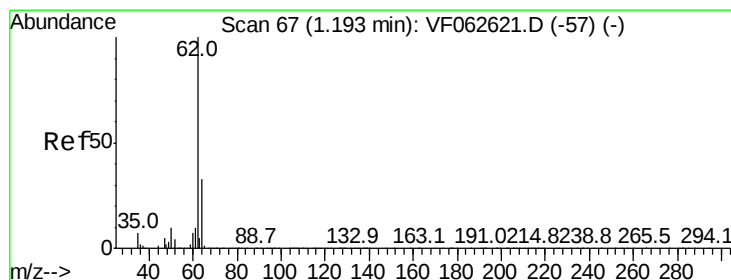
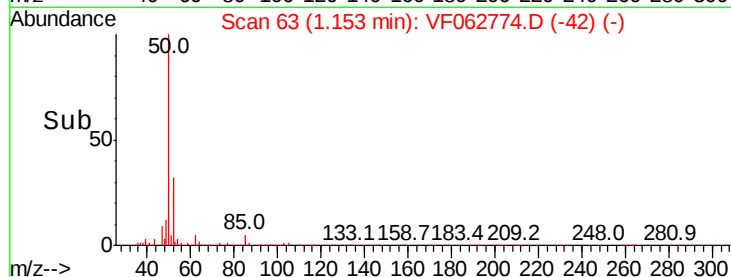
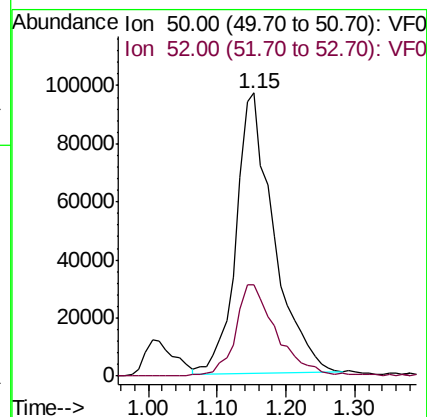
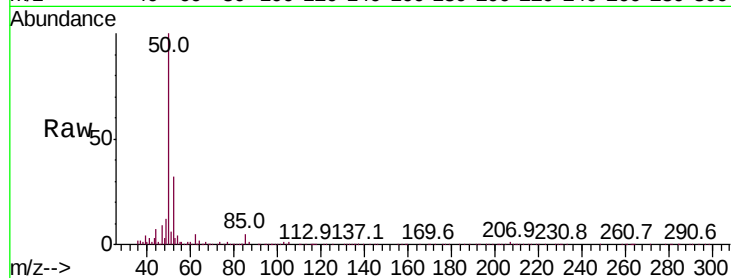
50 100

52 32.4 27.5 41.3

Manual Integrations
APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#4

Vinyl Chloride

Concen: 40.344 ug/l

RT: 1.19 min Scan# 67

Delta R.T. -0.00 min

Lab File: VF062774.D

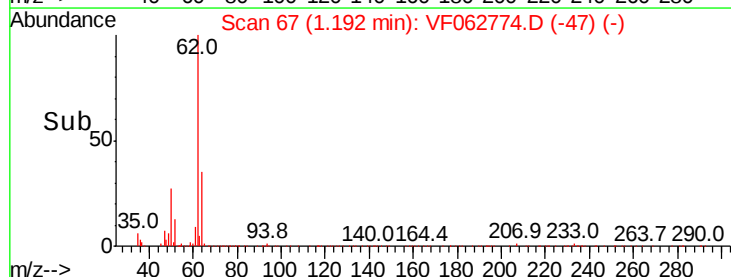
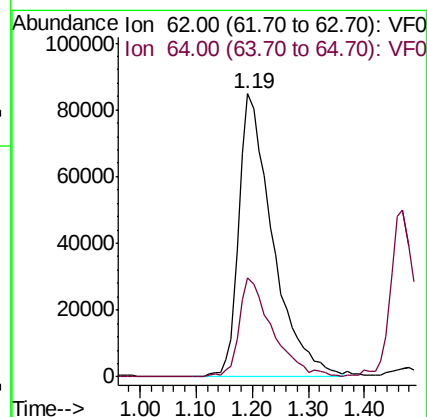
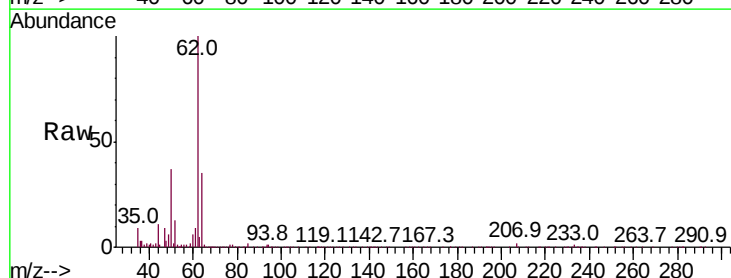
Acq: 29 May 2019 10:24

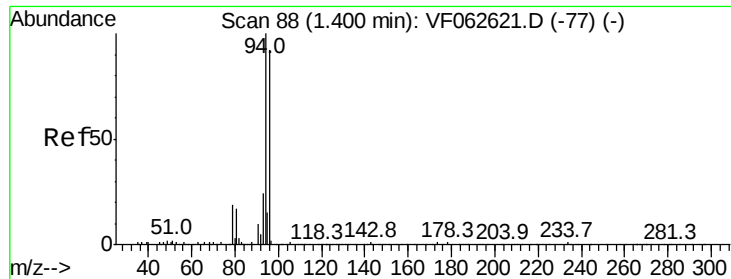
Tgt Ion: 62 Resp: 354450

Ion Ratio Lower Upper

62 100

64 35.1 26.7 40.1





#5

Bromomethane

Concen: 50.633 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 243360

Ion Ratio Lower Upper

94 100

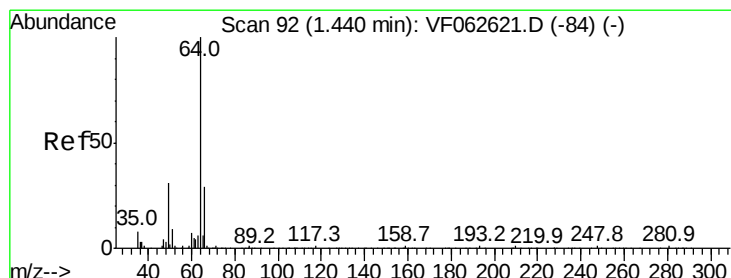
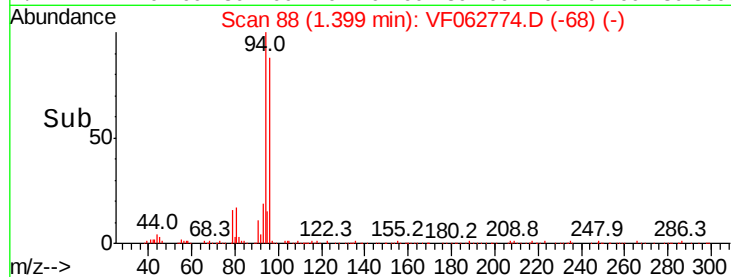
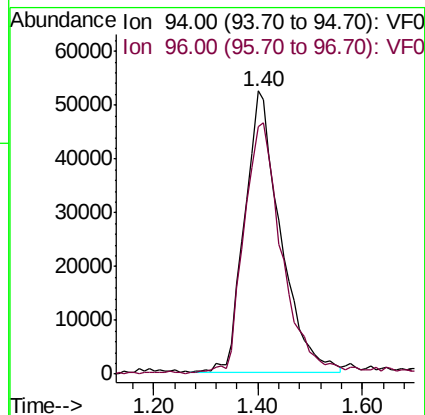
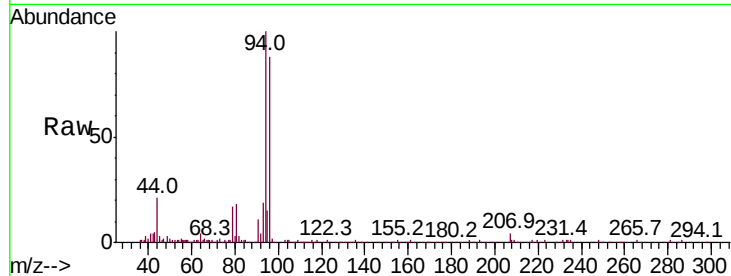
96 87.6 73.2 109.8

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#6

Chloroethane

Concen: 47.701 ug/l

RT: 1.47 min Scan# 95

Delta R.T. 0.03 min

Lab File: VF062774.D

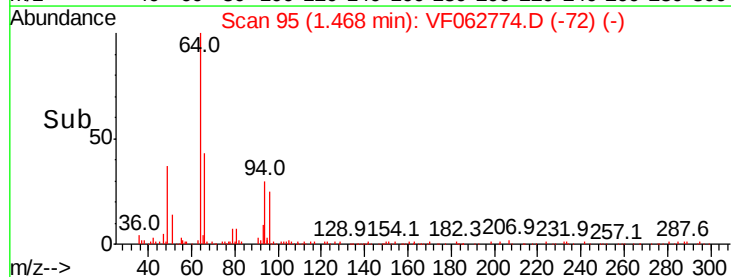
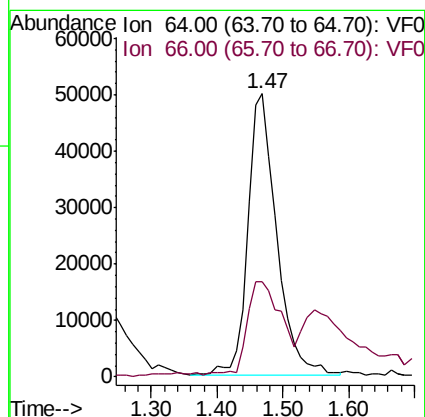
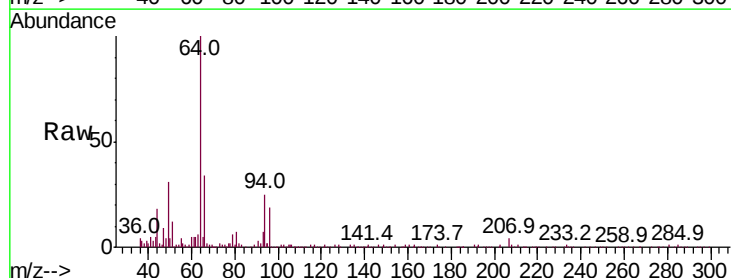
Acq: 29 May 2019 10:24

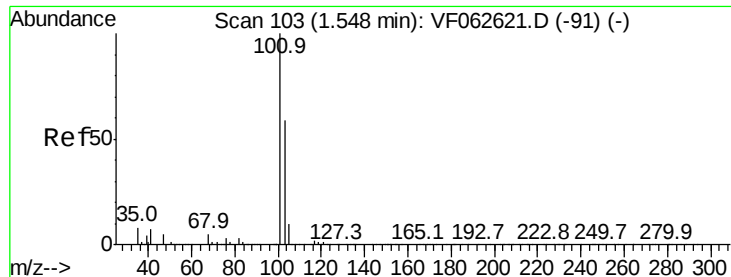
Tgt Ion: 64 Resp: 153916

Ion Ratio Lower Upper

64 100

66 33.6 23.4 35.2





#7

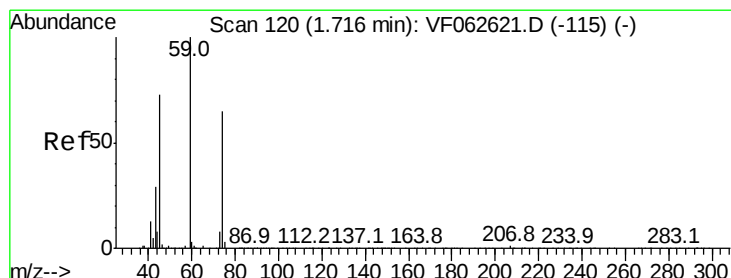
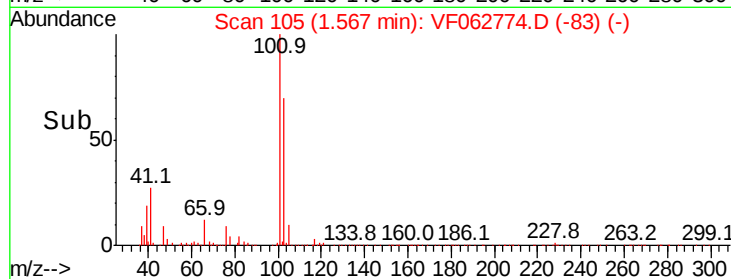
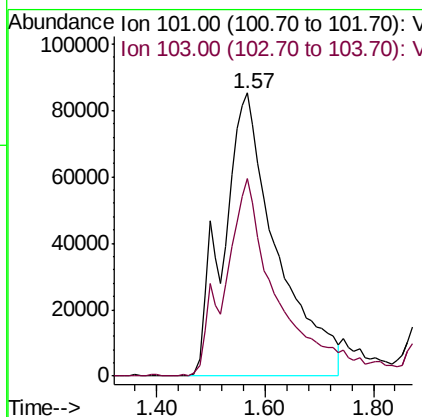
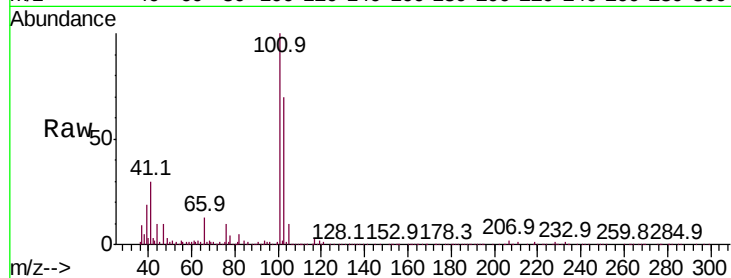
Trichlorofluoromethane
Concen: 49.787 ug/l m
RT: 1.57 min Scan# 105
Delta R.T. 0.02 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	69.8	47.3	70.9

Manual Integrations
APPROVED

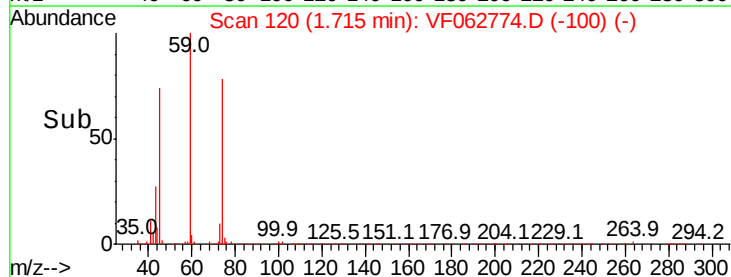
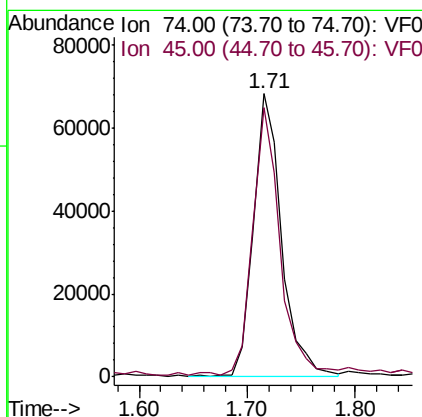
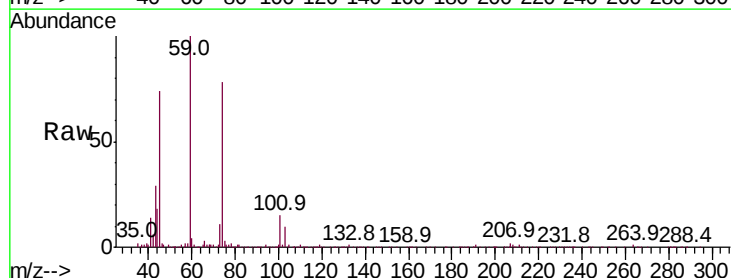
mmdadoda
5/30/2019 11:01:51 AM

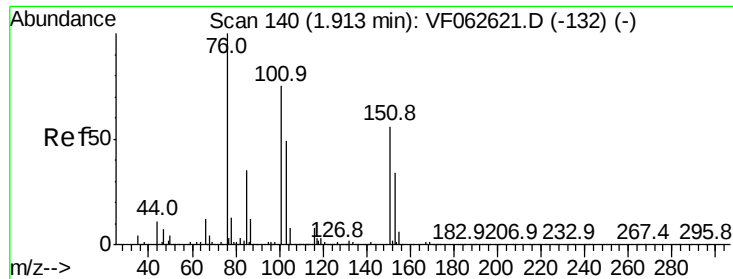


#8

Diethyl Ether
Concen: 52.196 ug/l
RT: 1.71 min Scan# 120
Delta R.T. -0.00 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.1	57.0	170.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.892 ug/l

RT: 1.93 min Scan# 142

Delta R.T. 0.02 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

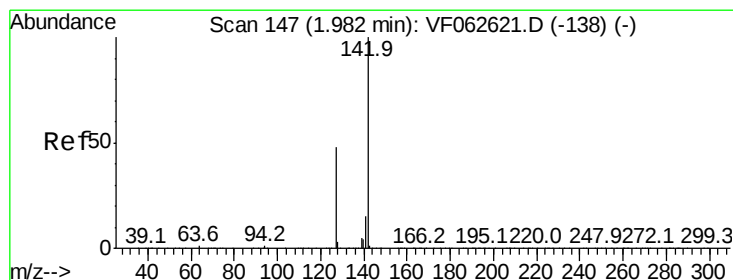
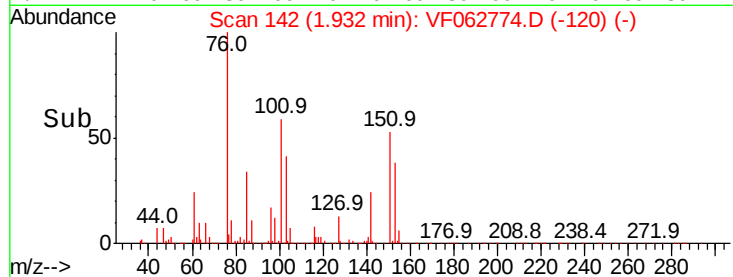
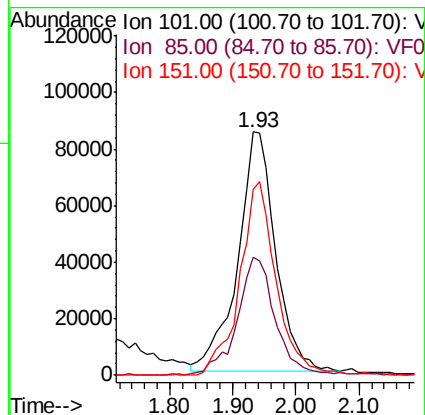
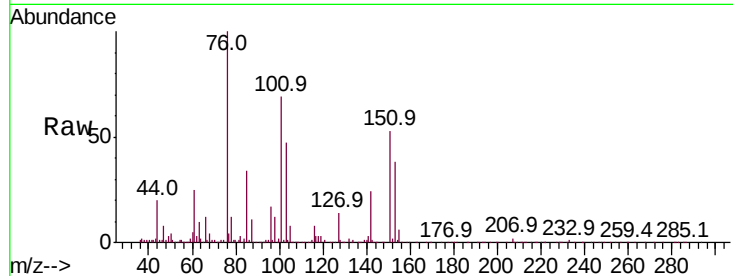
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	352235
Ion Ratio	Lower	Upper	
101	100		
85	48.7	37.1	55.7
151	76.4	58.8	88.2

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#10

Methyl Iodide

Concen: 47.432 ug/l m

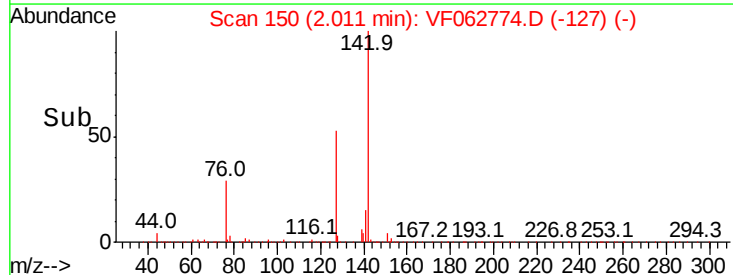
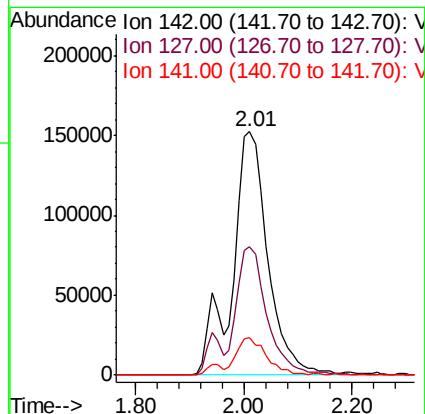
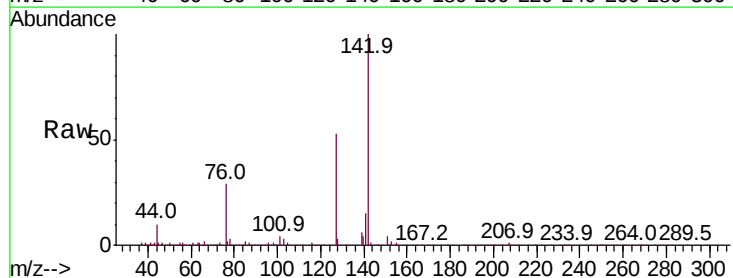
RT: 2.01 min Scan# 150

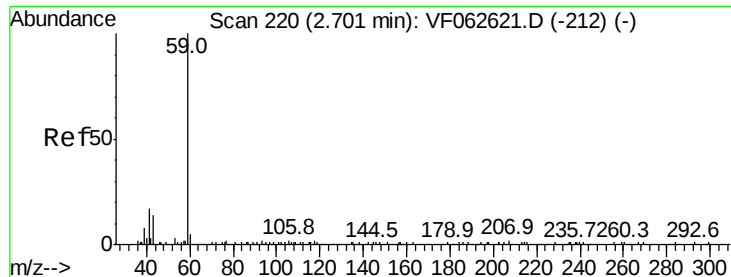
Delta R.T. 0.03 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion:	142	Resp:	699900
Ion Ratio	Lower	Upper	
142	100		
127	52.5	38.1	57.1
141	15.2	11.7	17.5





#11

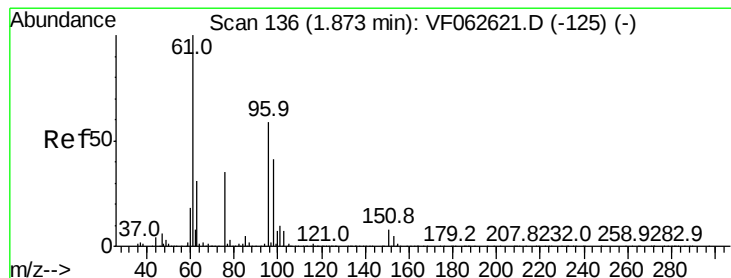
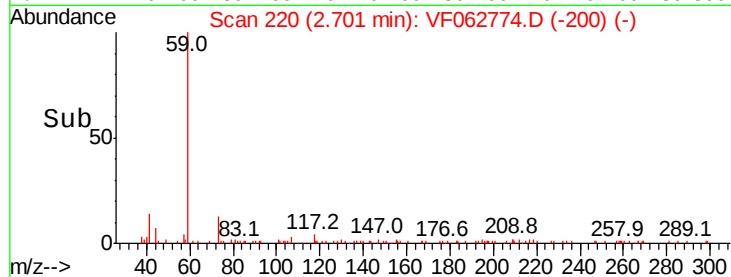
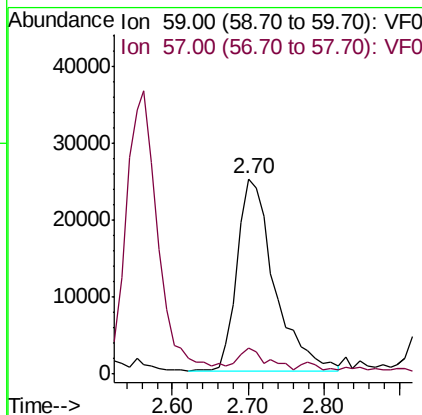
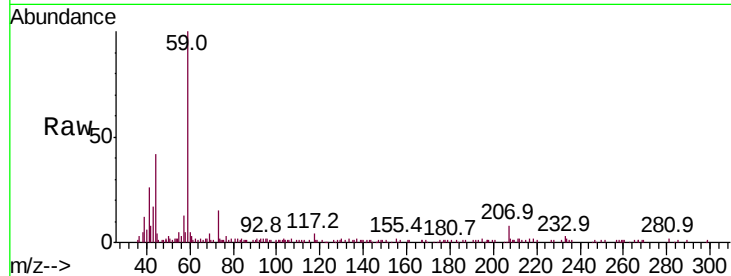
Tert butyl alcohol
Concen: 240.517 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.00 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	85472
Ion Ratio	100	Lower	Upper
57	13.1	9.3	13.9

Manual Integrations
APPROVED

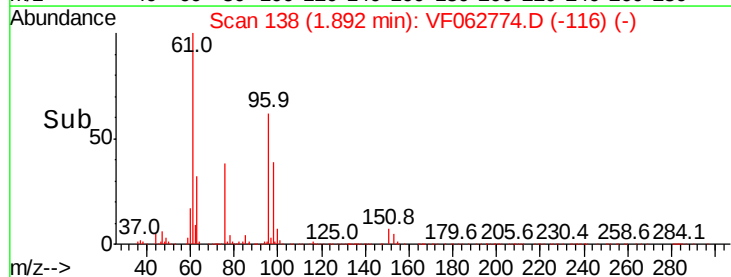
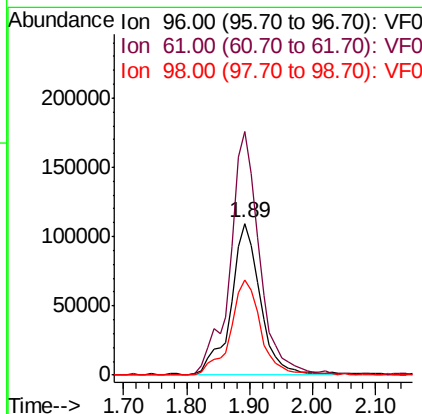
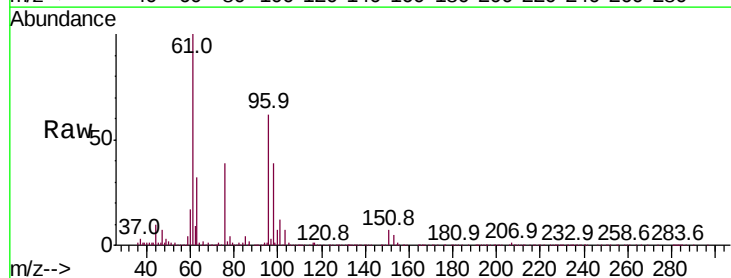
mmdadoda
5/30/2019 11:01:51 AM

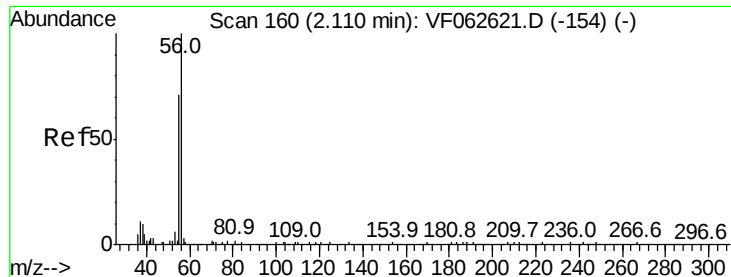


#12

1,1-Dichloroethene
Concen: 50.701 ug/l
RT: 1.89 min Scan# 138
Delta R.T. 0.02 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	96	Resp	346930
Ion Ratio	100	Lower	Upper
61	160.7	134.3	201.5
98	62.5	55.0	82.6





#13

Acrolein

Concen: 171.375 ug/l

RT: 2.11 min Scan# 160

Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 63572

Ion Ratio Lower Upper

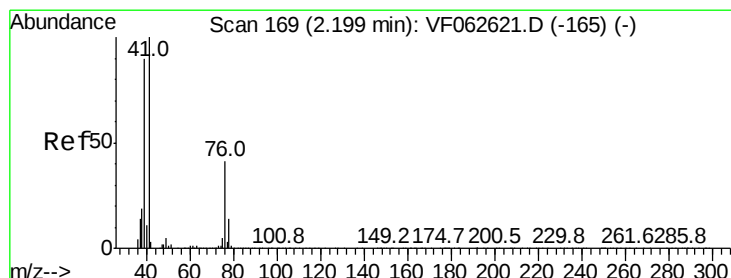
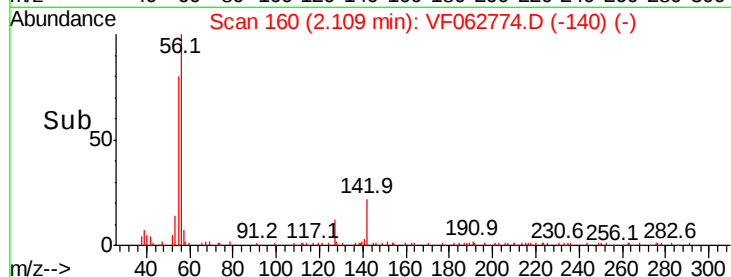
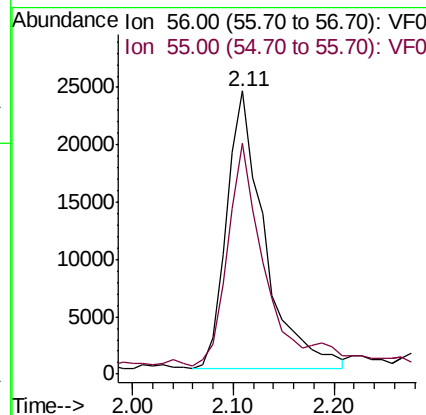
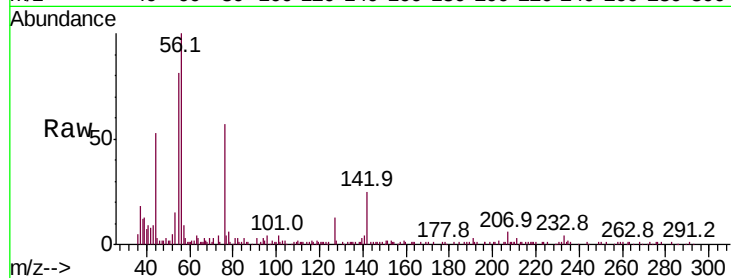
56 100

55 81.4 59.4 89.0

Manual Integrations
APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#14

Allyl chloride

Concen: 42.521 ug/l m

RT: 2.21 min Scan# 170

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

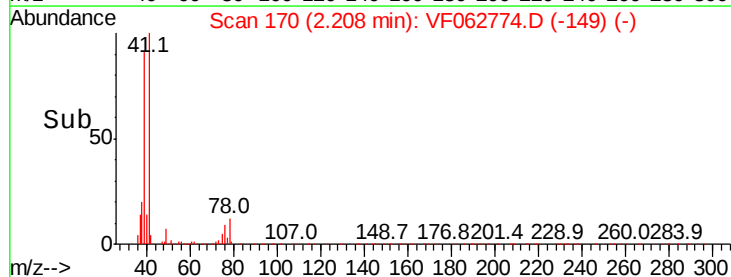
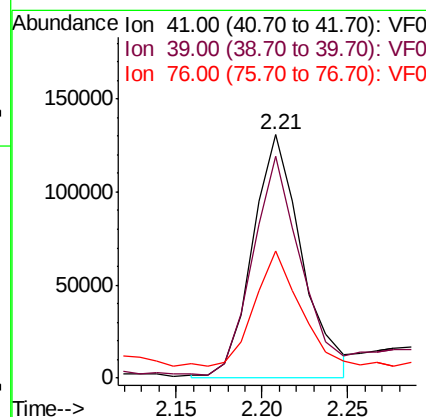
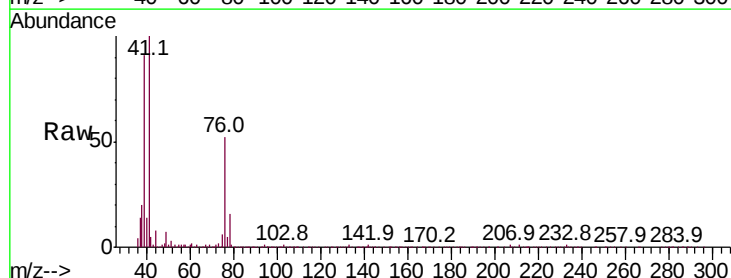
Tgt Ion: 41 Resp: 263334

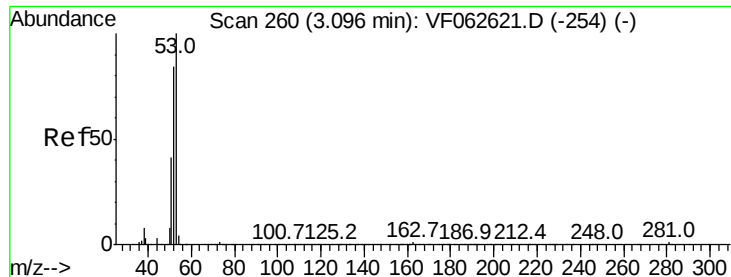
Ion Ratio Lower Upper

41 100

39 91.2 72.0 108.0

76 52.3 34.8 52.2#





#15

Acrylonitrile

Concen: 462.543 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

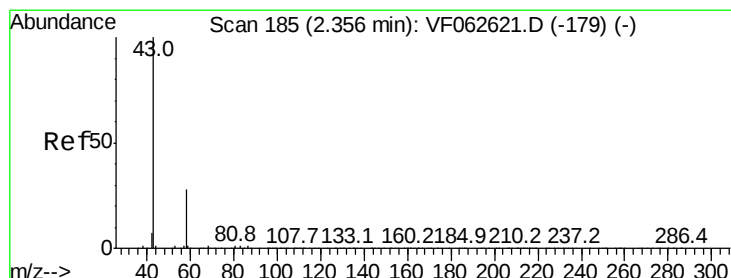
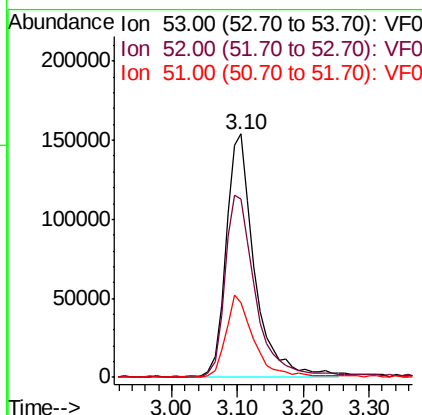
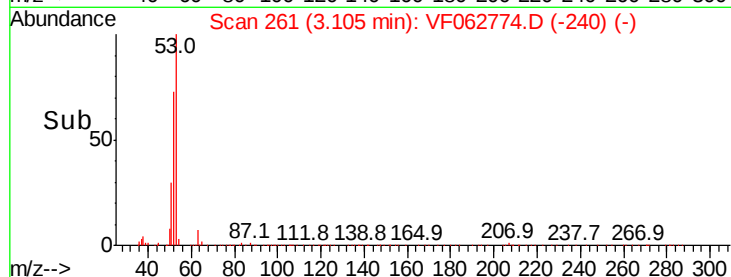
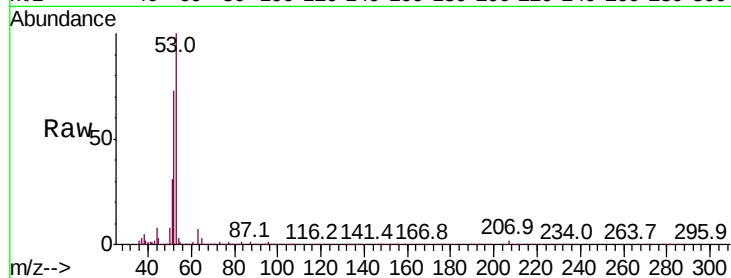
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	463667
Ion Ratio		Lower	Upper
53	100		
52	73.3	67.3	100.9
51	30.5	33.0	49.6#

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#16

Acetone

Concen: 283.049 ug/l

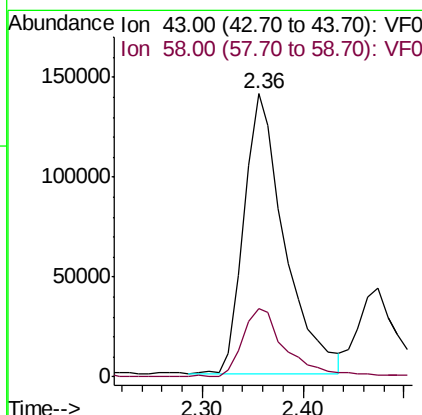
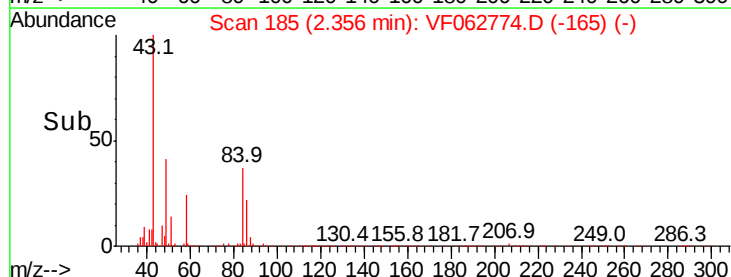
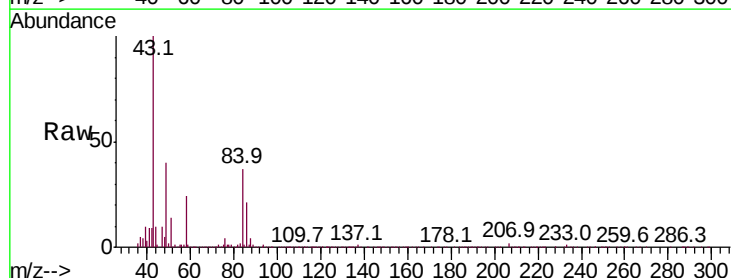
RT: 2.36 min Scan# 185

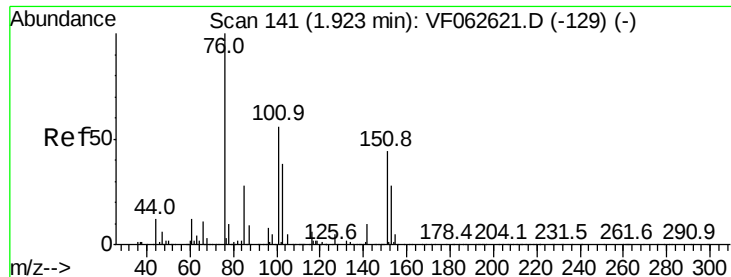
Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion:	43	Resp:	395259
Ion Ratio		Lower	Upper
43	100		
58	24.2	22.6	33.8





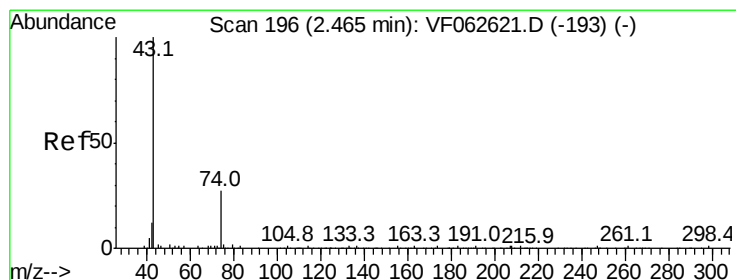
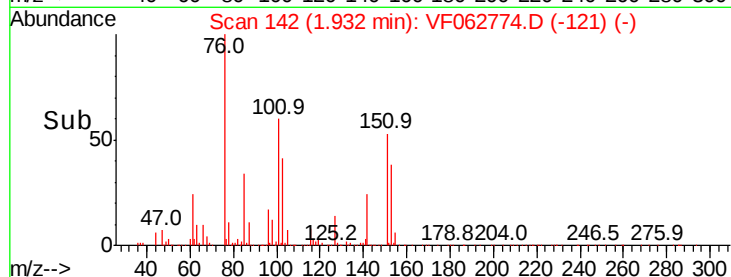
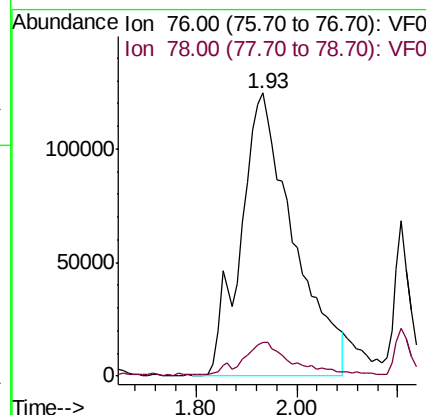
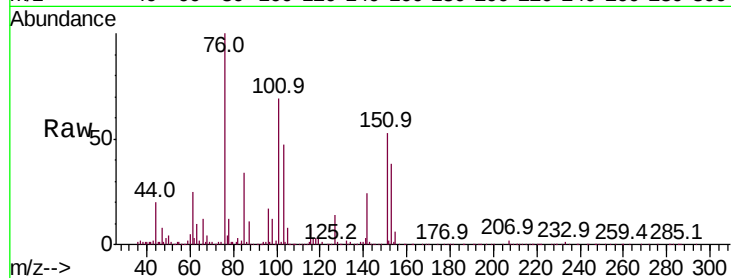
#17
Carbon Disulfide
Concen: 44.805 ug/l
RT: 1.93 min Scan# 142
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.1	8.4	12.6

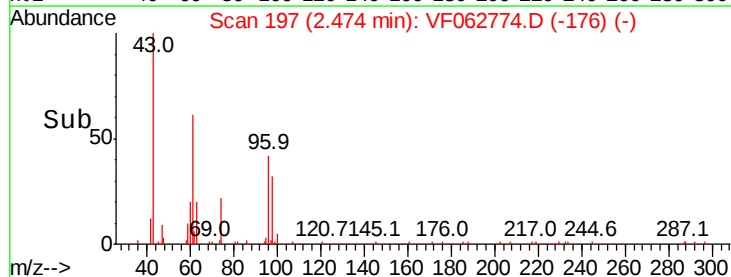
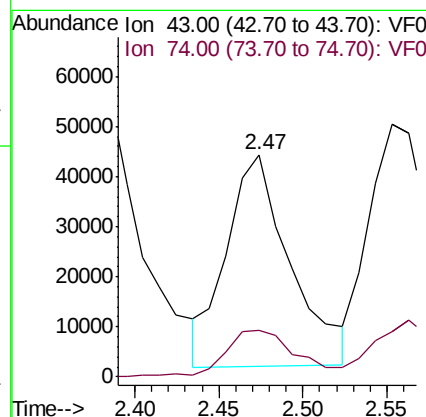
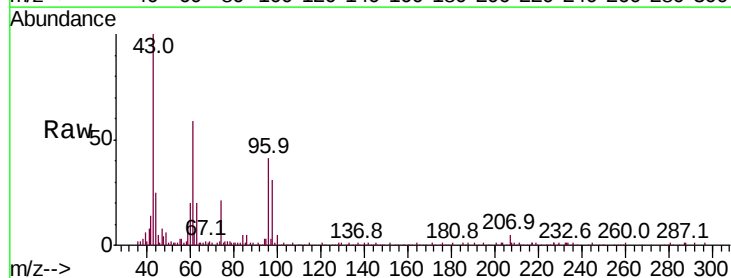
Manual Integrations
APPROVED

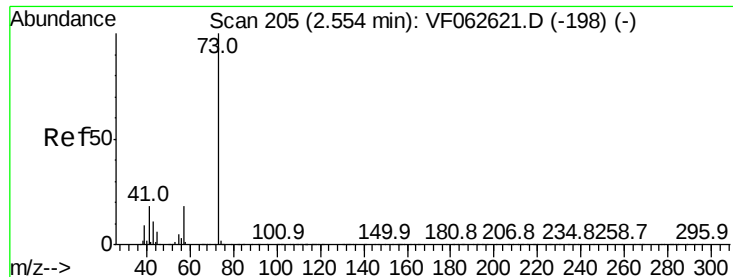
mmdadoda
5/30/2019 11:01:51 AM



#18
Methyl Acetate
Concen: 50.860 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.2	18.9	28.3





#19

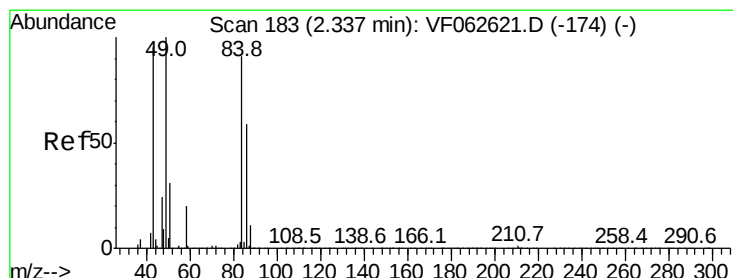
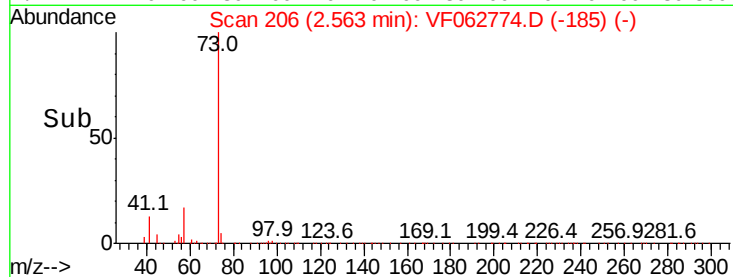
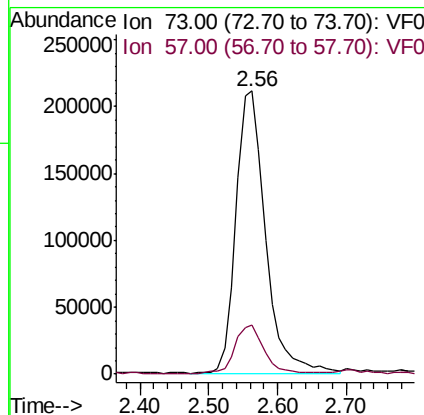
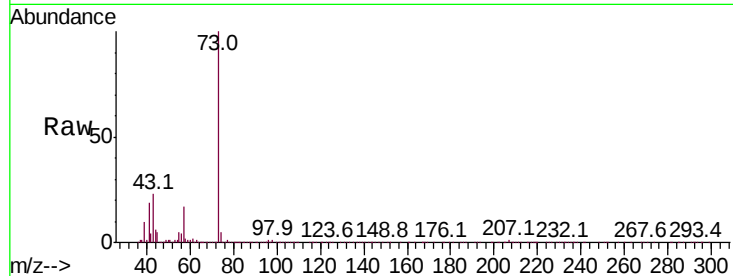
Methyl tert-butyl Ether
Concen: 51.113 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.4	14.2	21.4

Manual Integrations
APPROVED

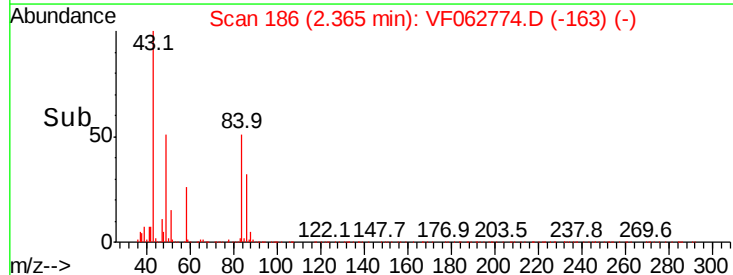
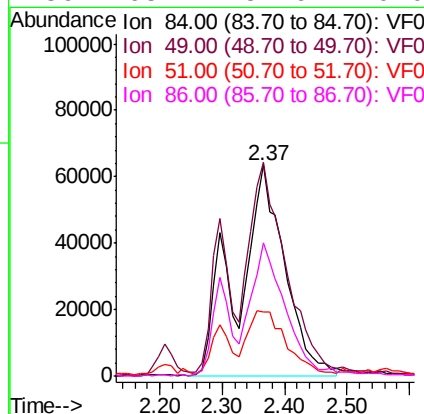
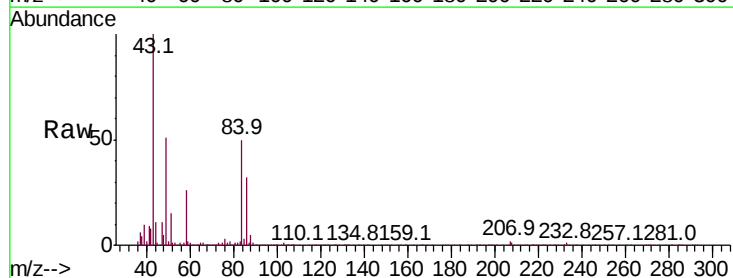
mmdadoda
5/30/2019 11:01:51 AM

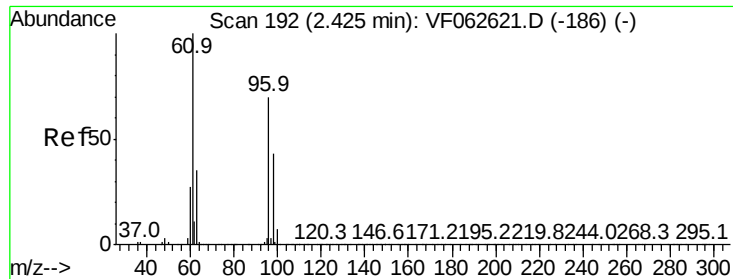


#20

Methylene Chloride
Concen: 47.011 ug/l m
RT: 2.37 min Scan# 186
Delta R.T. 0.03 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
84	100		
49	101.3	89.8	134.8
51	30.5	28.4	42.6
86	63.1	52.6	79.0





#21

trans-1,2-Dichloroethene

Concen: 53.153 ug/l m

RT: 2.43 min Scan# 193

Delta R.T. 0.01 min

Lab File: VF062774.D

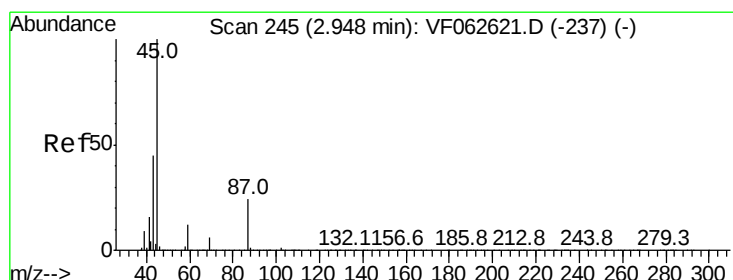
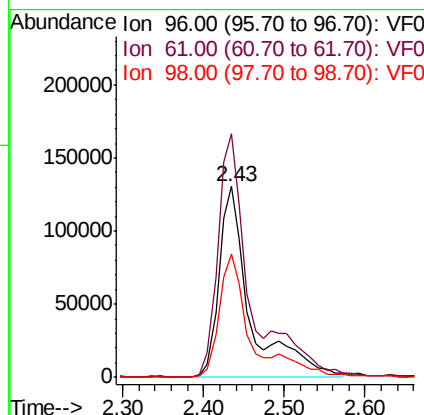
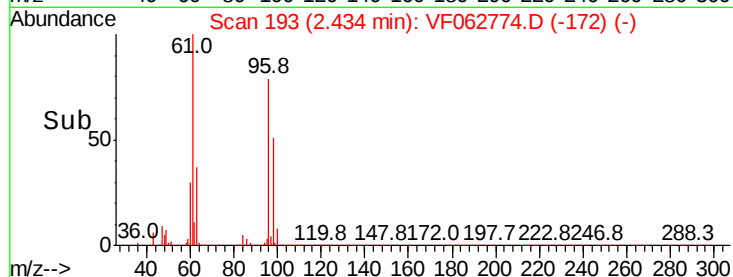
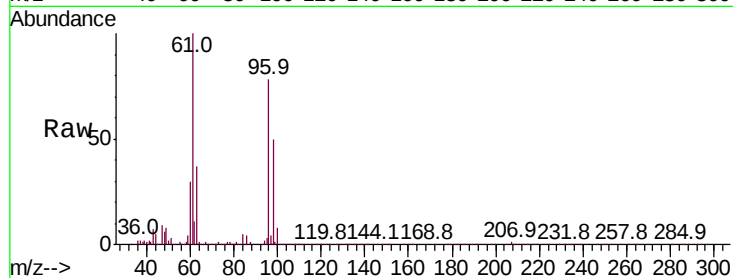
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	127.5	114.6	171.8
98	64.2	49.5	74.3

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#22

Diisopropyl ether

Concen: 49.325 ug/l

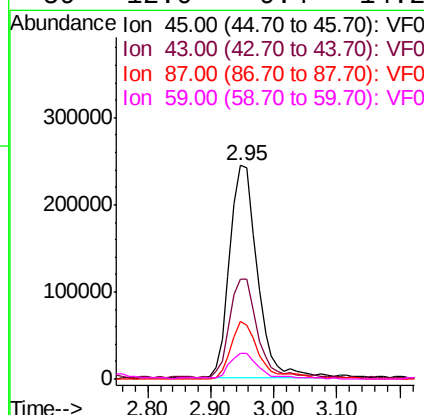
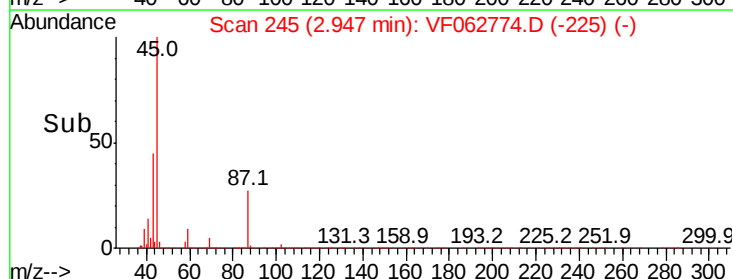
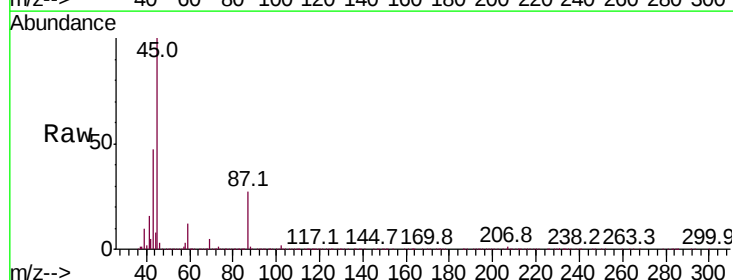
RT: 2.95 min Scan# 245

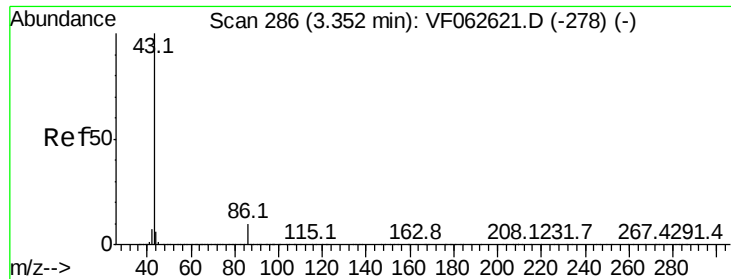
Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
45	100		
43	46.8	36.4	54.6
87	27.1	19.3	28.9
59	12.0	9.4	14.2





#23

Vinyl Acetate

Concen: 251.996 ug/l

RT: 3.36 min Scan# 287

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2596491

Ion Ratio Lower Upper

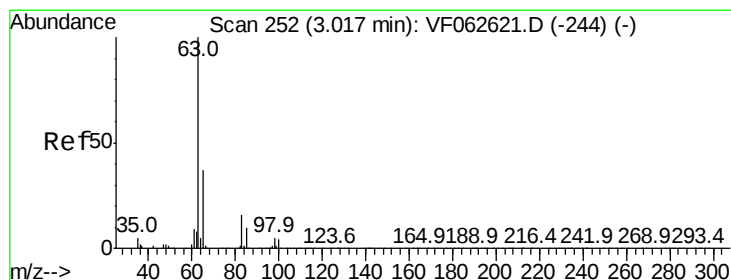
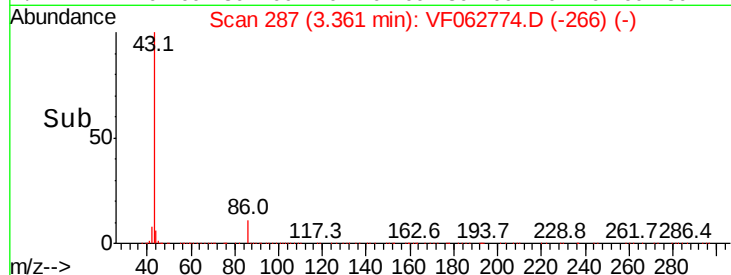
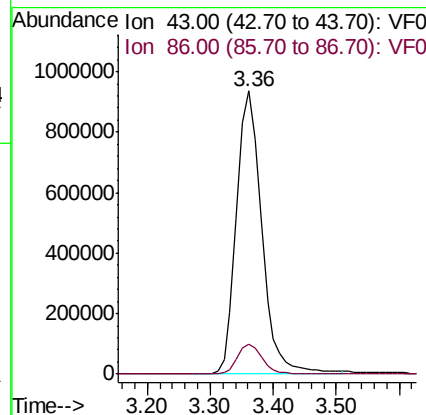
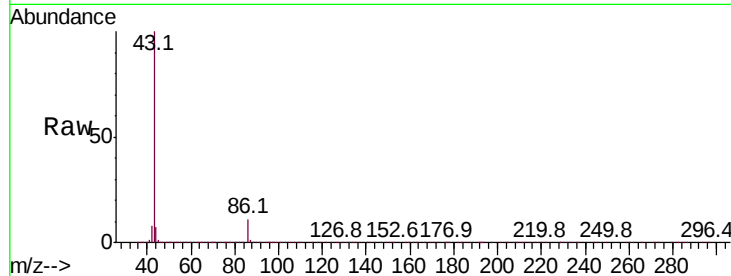
43 100

86 10.7 8.2 12.2

Manual Integrations
APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#24

1,1-Dichloroethane

Concen: 72.640 ug/l

RT: 3.03 min Scan# 253

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

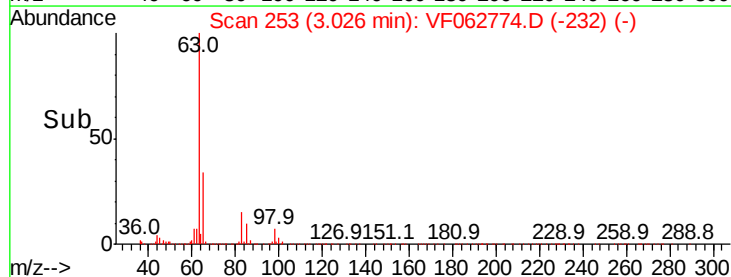
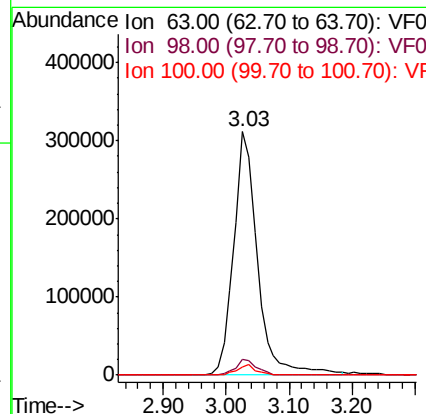
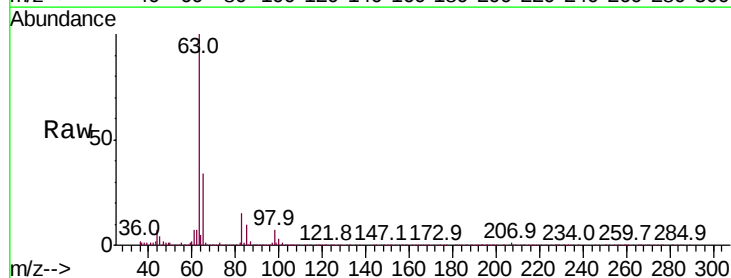
Tgt Ion: 63 Resp: 813947

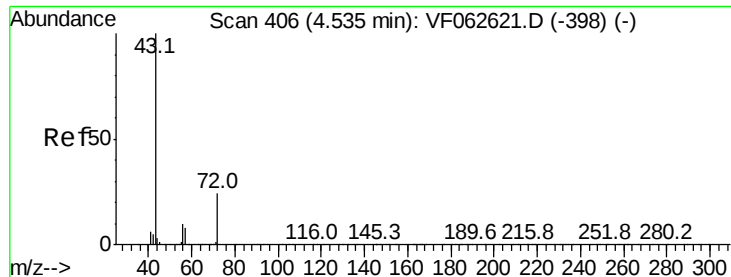
Ion Ratio Lower Upper

63 100

98 6.6 2.8 8.3

100 3.3 1.9 5.7





#25

2-Butanone

Concen: 263.641 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 786567

Ion Ratio Lower Upper

43 100

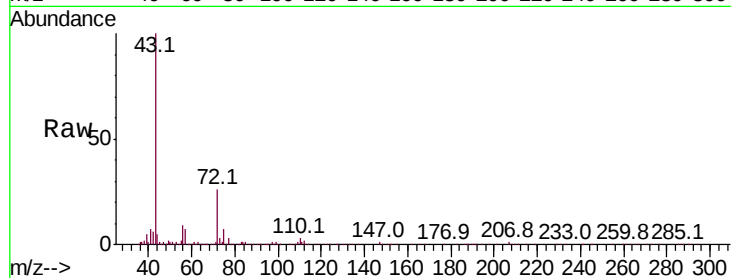
72 26.2 20.1 30.1

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.54

200000

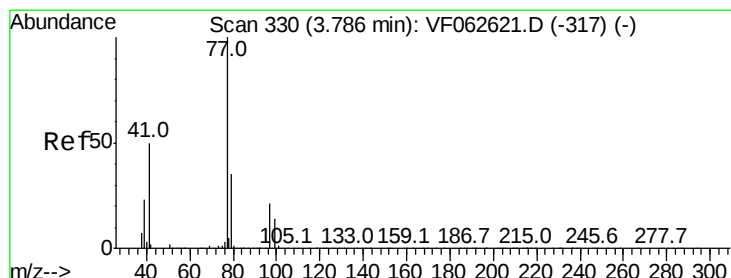
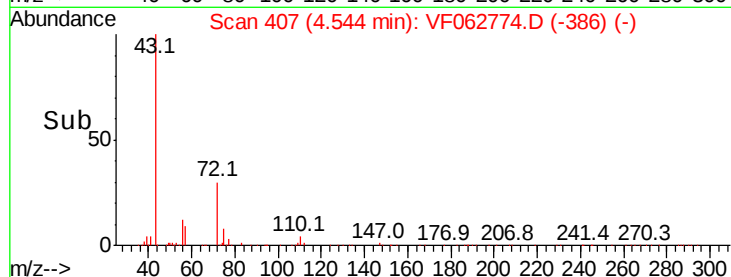
150000

100000

50000

0

Time-->



#26

2,2-Dichloropropane

Concen: 52.535 ug/l

RT: 3.79 min Scan# 331

Delta R.T. 0.01 min

Lab File: VF062774.D

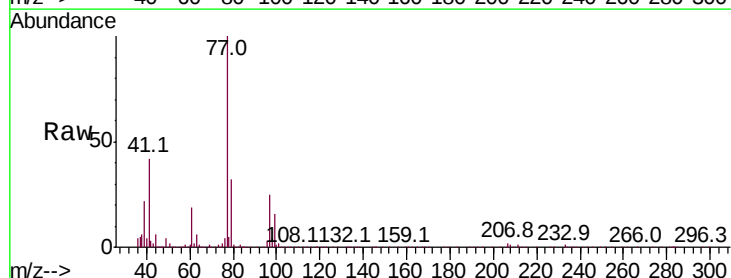
Acq: 29 May 2019 10:24

Tgt Ion: 77 Resp: 336816

Ion Ratio Lower Upper

77 100

97 25.3 14.1 42.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.79

100000

80000

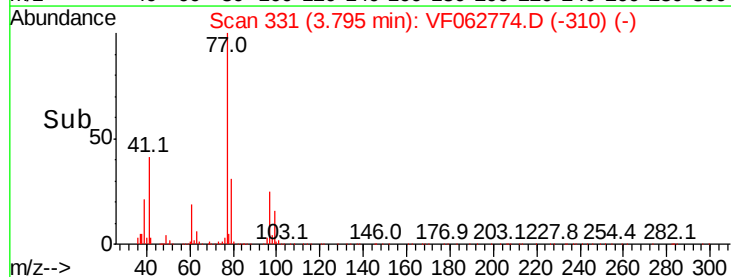
60000

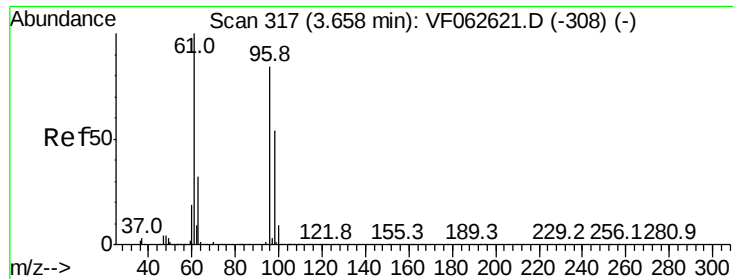
40000

20000

0

Time-->





#27

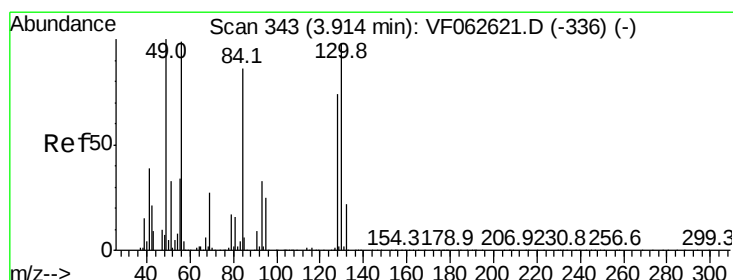
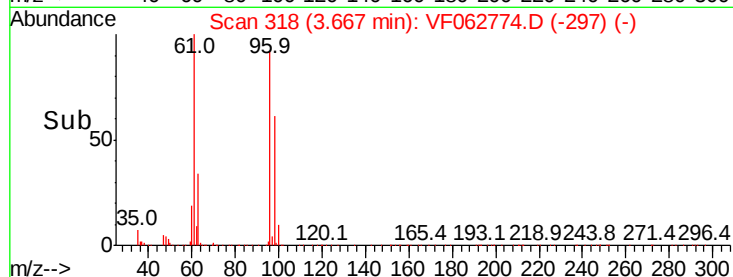
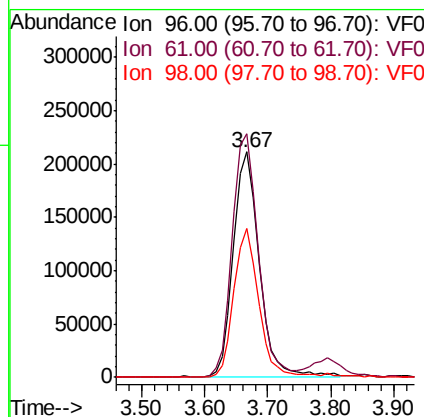
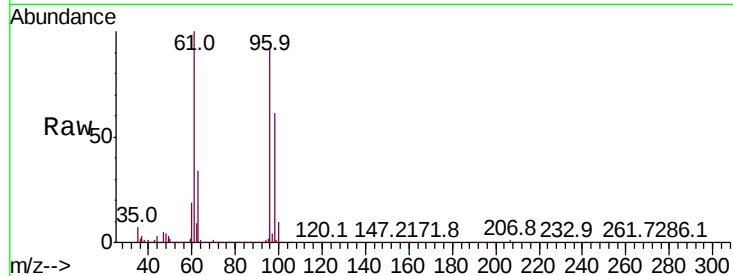
cis-1,2-Dichloroethene
Concen: 54.609 ug/l
RT: 3.67 min Scan# 318
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	600773		
61	108.1	0.0	237.4	
98	66.3	0.0	129.0	

Manual Integrations
APPROVED

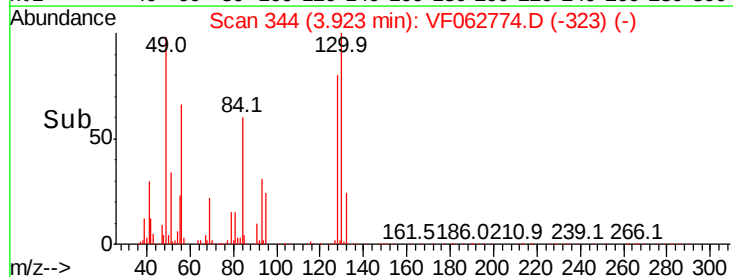
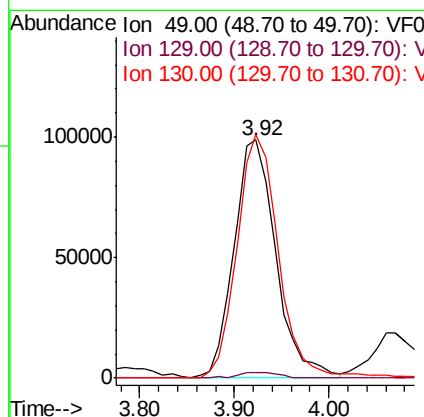
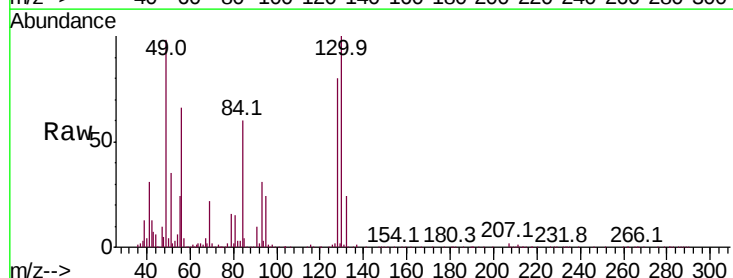
mmdadoda
5/30/2019 11:01:51 AM

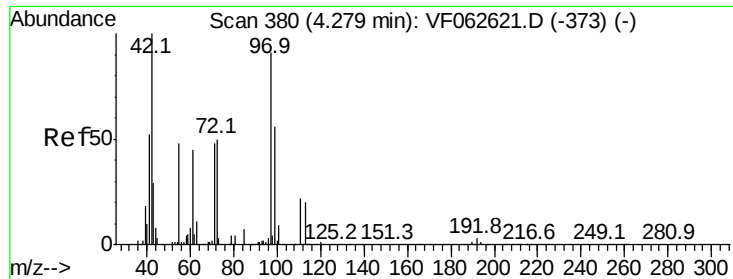


#28

Bromochloromethane
Concen: 47.951 ug/l
RT: 3.92 min Scan# 344
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	301343		
129	2.2	0.0	4.0	
130	102.2	77.8	116.8	





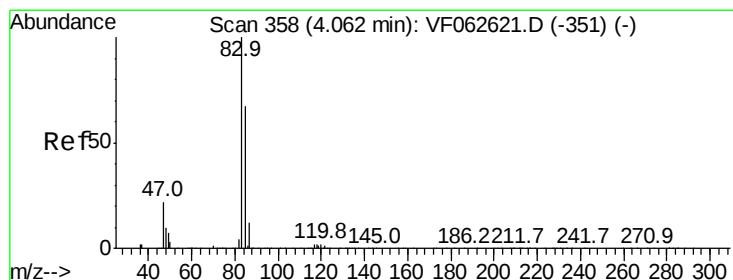
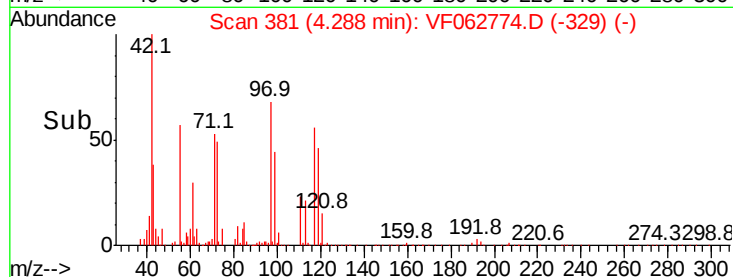
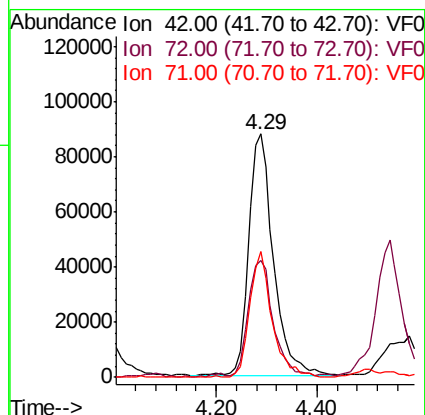
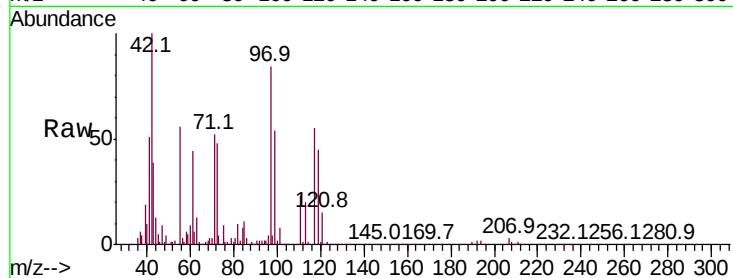
#29
Tetrahydrofuran
Concen: 248.469 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	49.2	38.2	57.2
71	46.1	35.8	53.6

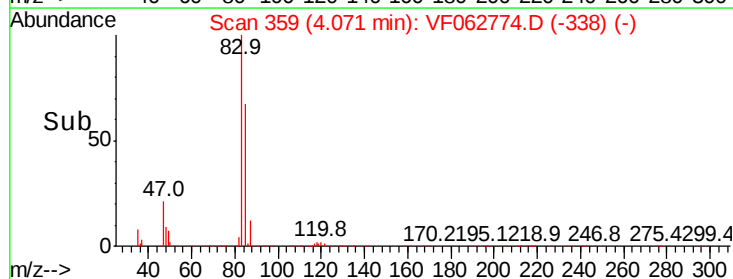
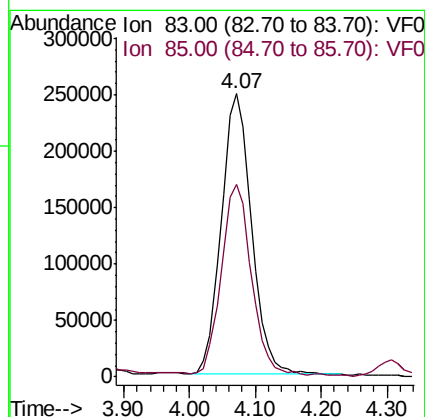
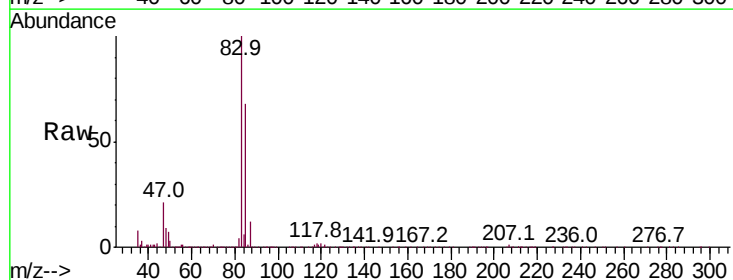
Manual Integrations
APPROVED

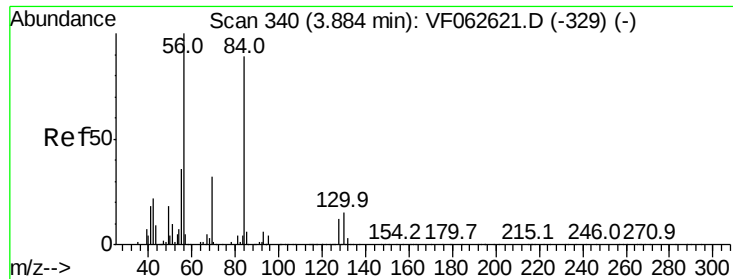
mmdadoda
5/30/2019 11:01:51 AM



#30
Chloroform
Concen: 51.258 ug/l
RT: 4.07 min Scan# 359
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.0	53.6	80.4





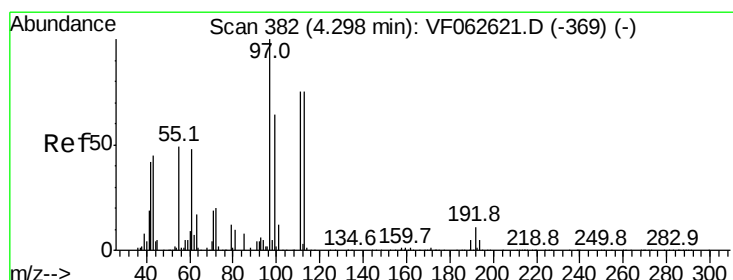
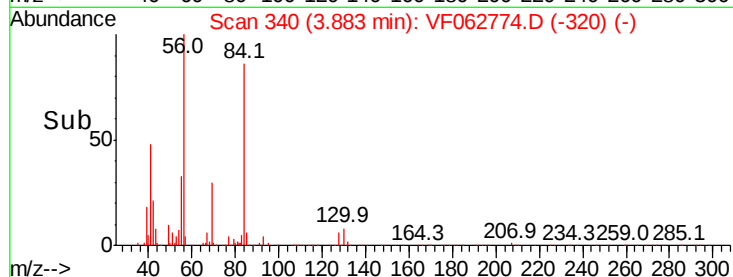
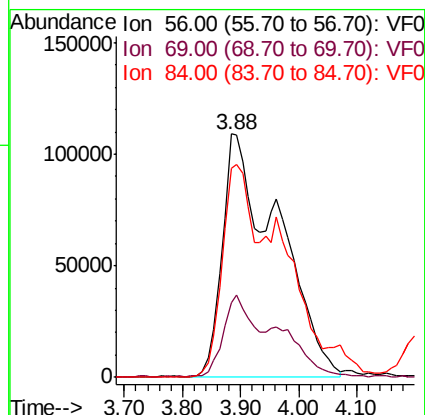
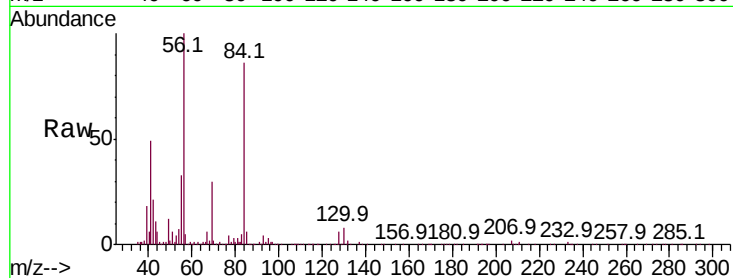
#31
Cyclohexane
Concen: 48.322 ug/l m
RT: 3.88 min Scan# 340
Delta R.T. -0.00 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.5	25.3	37.9
84	85.6	71.0	106.4

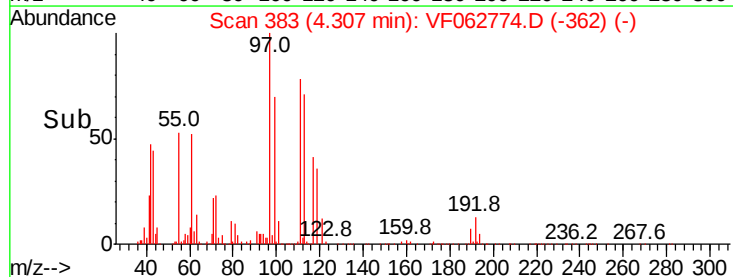
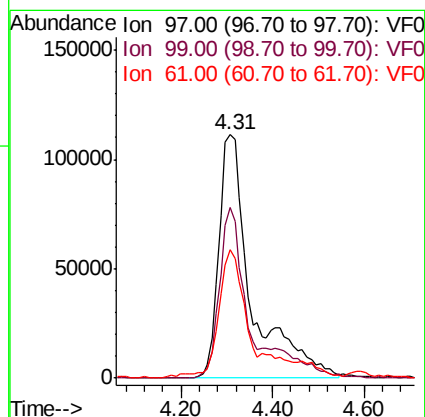
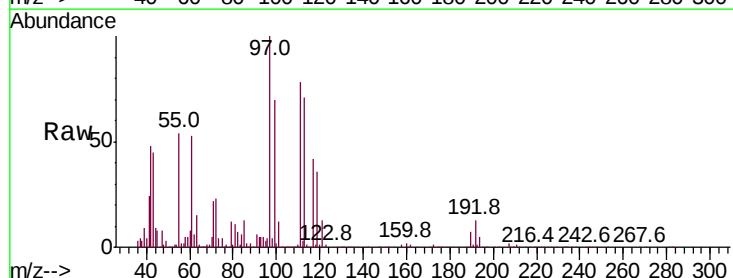
Manual Integrations
APPROVED

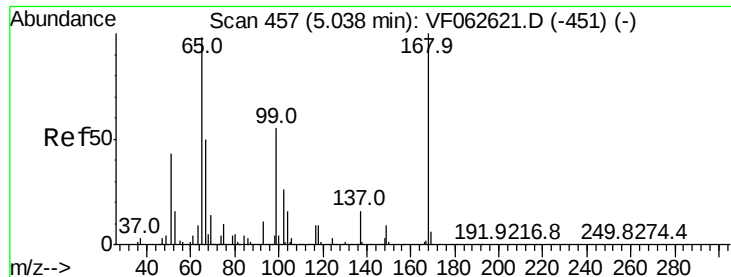
mmdadoda
5/30/2019 11:01:51 AM



#32
1,1,1-Trichloroethane
Concen: 52.973 ug/l m
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	69.9	51.3	76.9
61	52.5	38.2	57.2





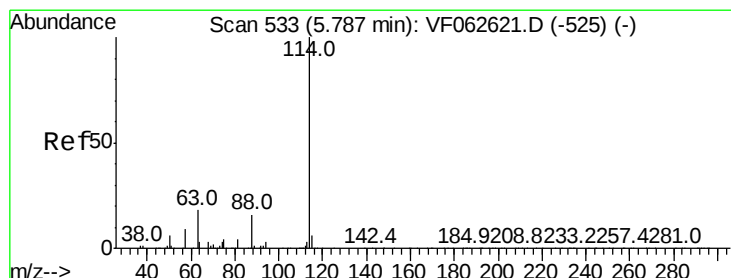
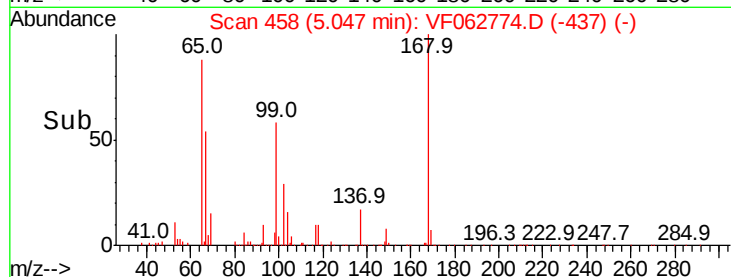
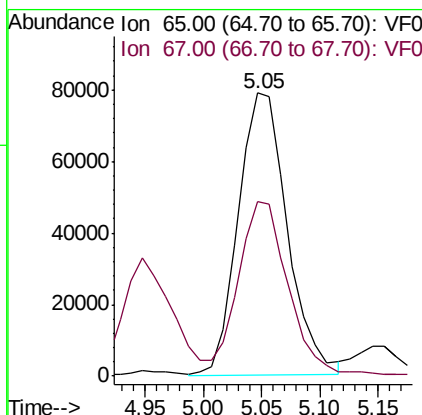
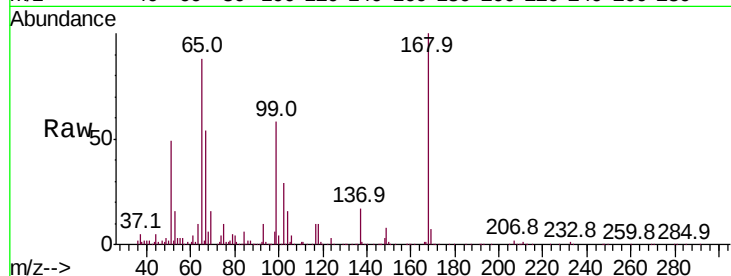
#33
 1,2-Dichloroethane-d4
 Concen: 42.973 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	61.8	0.0	117.6

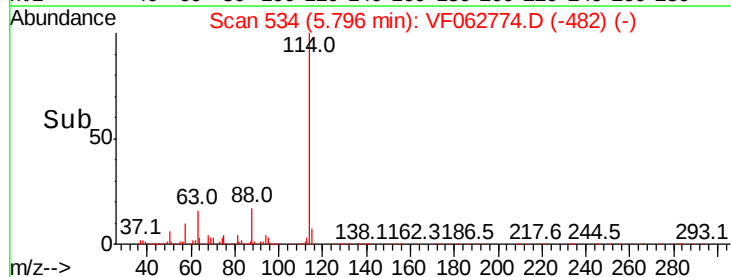
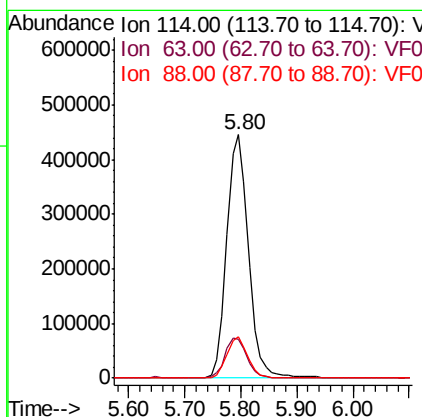
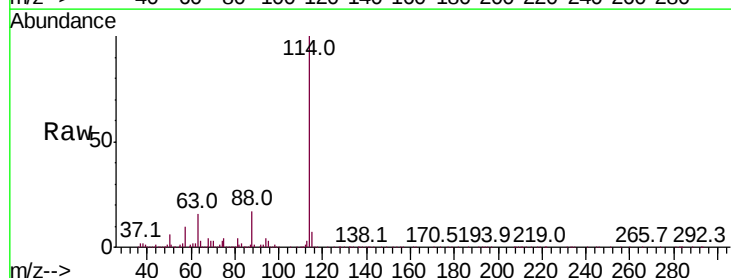
Manual Integrations
 APPROVED

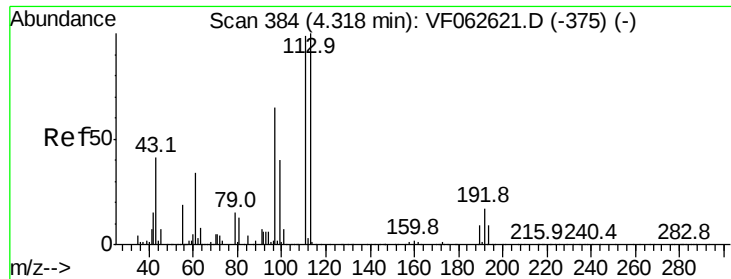
mmdadoda
 5/30/2019 11:01:51 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	16.1	0.0	35.4
88	16.9	0.0	32.4





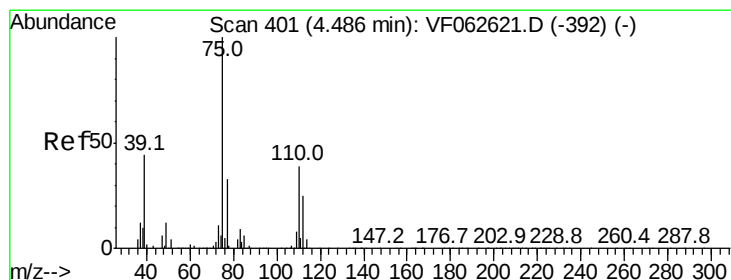
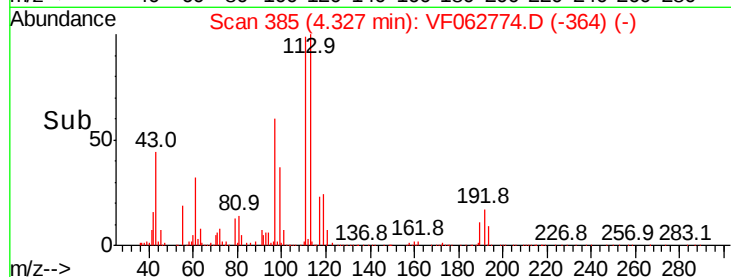
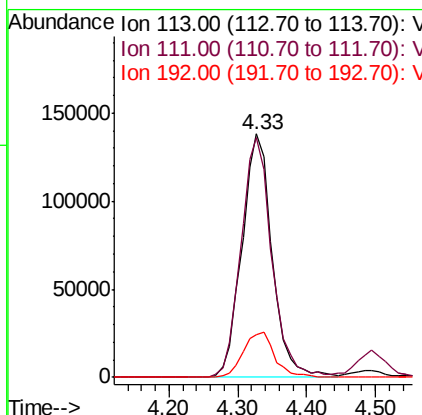
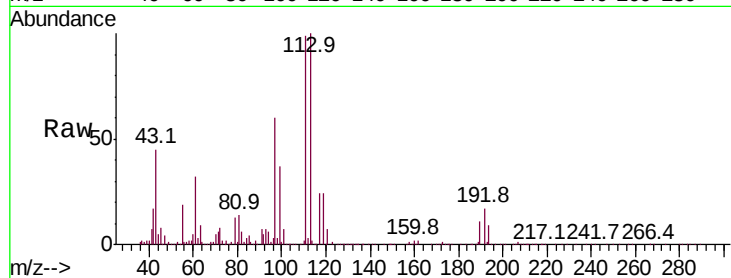
#35
 Dibromofluoromethane
 Concen: 45.707 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	98.7	79.4	119.2
192	17.5	13.4	20.2

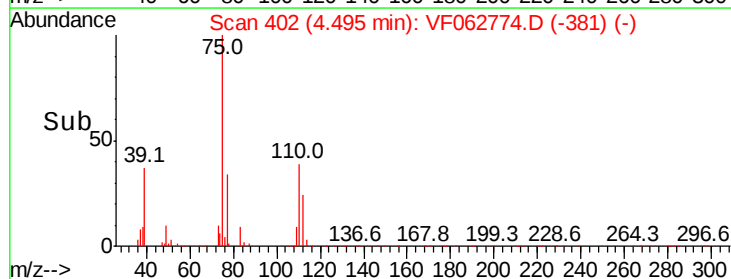
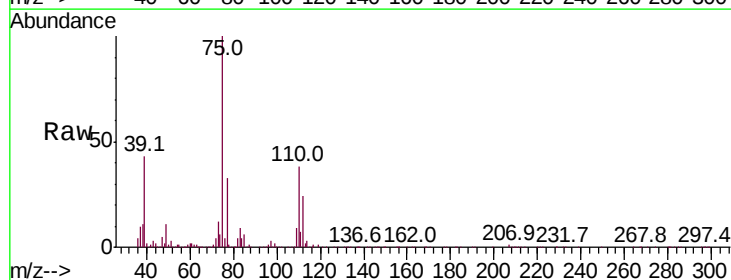
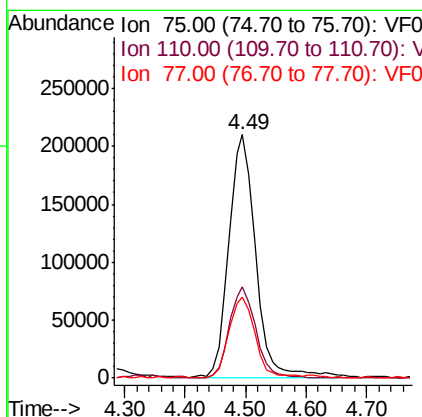
Manual Integrations
 APPROVED

mmdadoda
 5/30/2019 11:01:51 AM



#36
 1,1-Dichloropropene
 Concen: 52.123 ug/l
 RT: 4.49 min Scan# 402
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.6	19.7	59.1
77	33.4	26.3	39.5





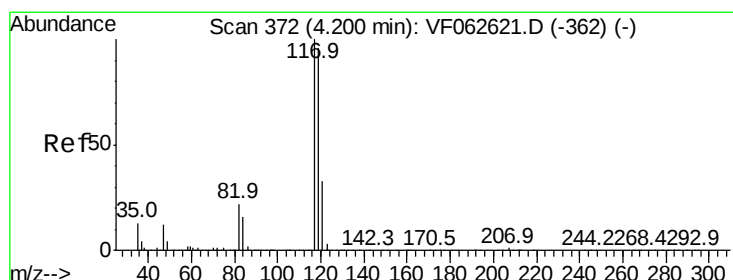
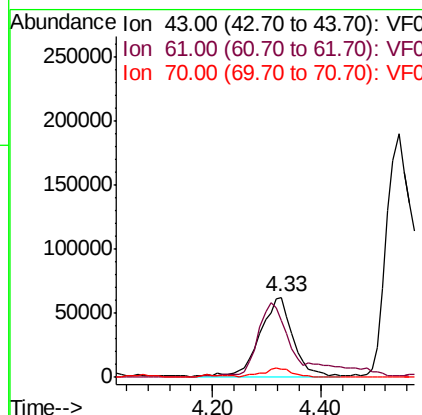
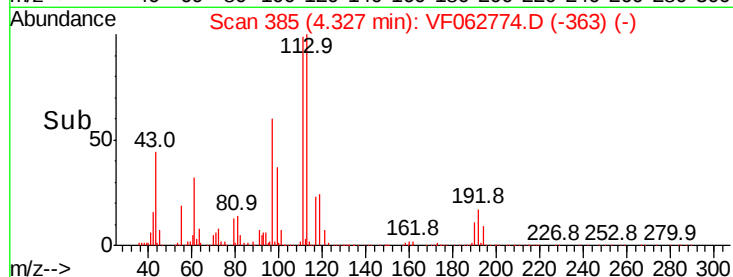
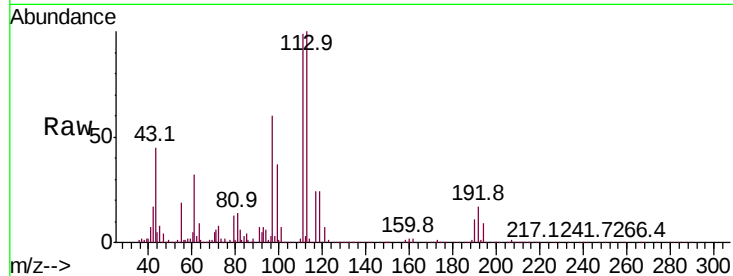
#37
Ethyl Acetate
Concen: 51.299 ug/l
RT: 4.33 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	71.0	76.9	115.3#
70	10.6	8.8	13.2

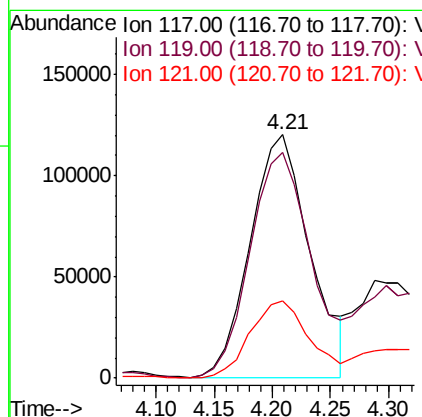
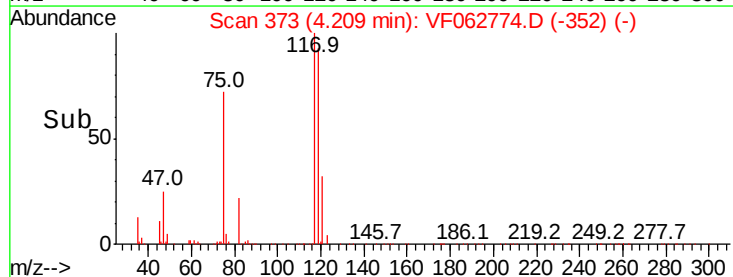
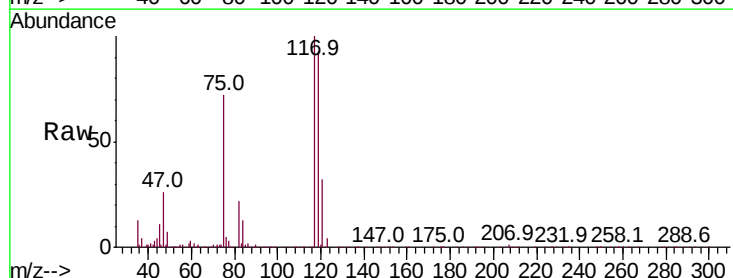
Manual Integrations
APPROVED

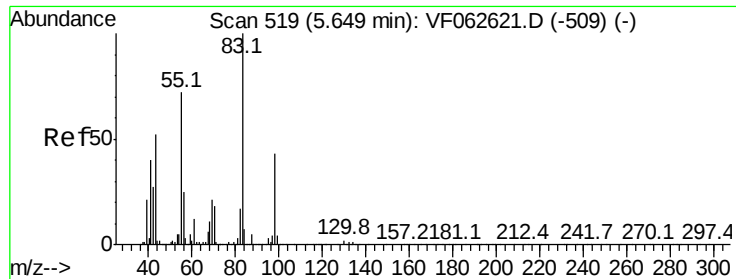
mmdadoda
5/30/2019 11:01:51 AM



#38
Carbon Tetrachloride
Concen: 45.874 ug/l
RT: 4.21 min Scan# 373
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.6	76.7	115.1
121	31.6	26.6	40.0





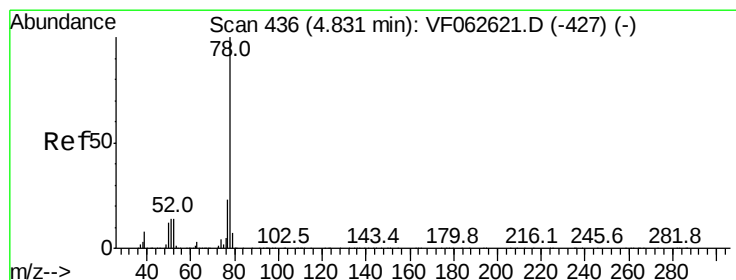
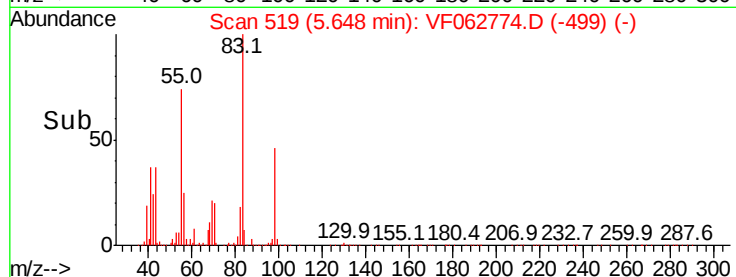
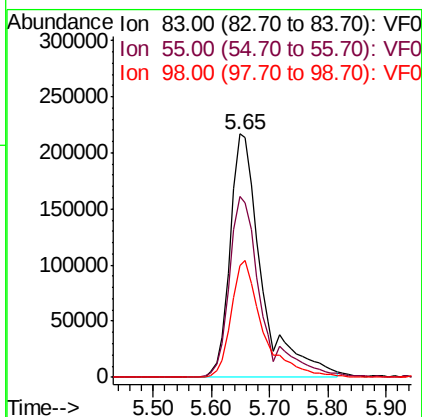
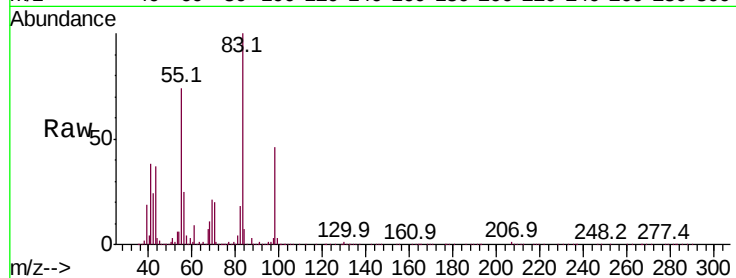
#39
Methvlcvclohexane
Concen: 55.486 ug/l
RT: 5.65 min Scan# 519
Delta R.T. -0.00 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	822406		
55	74.4	57.9	86.9	
98	45.7	34.6	52.0	

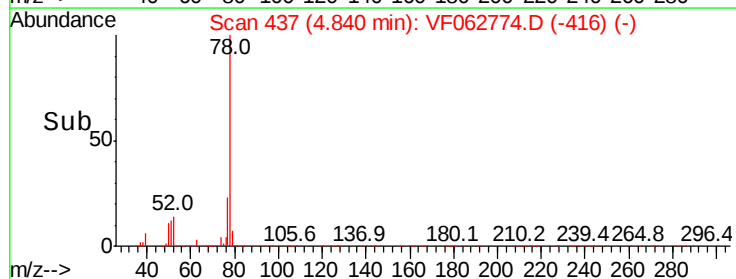
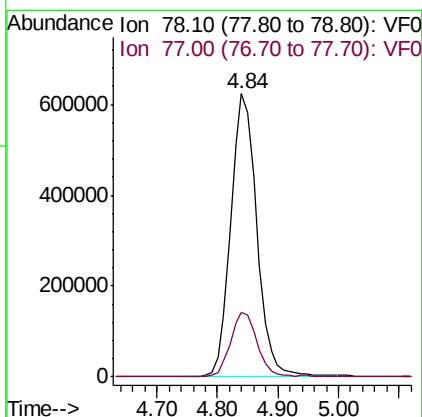
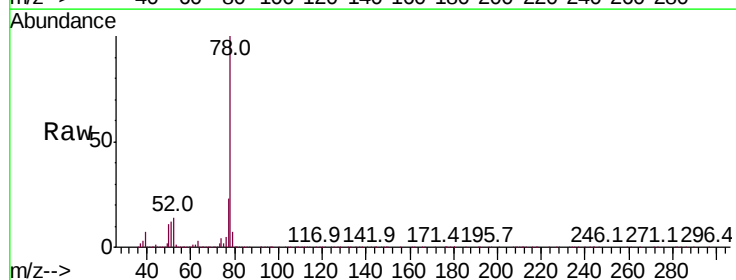
Manual Integrations
APPROVED

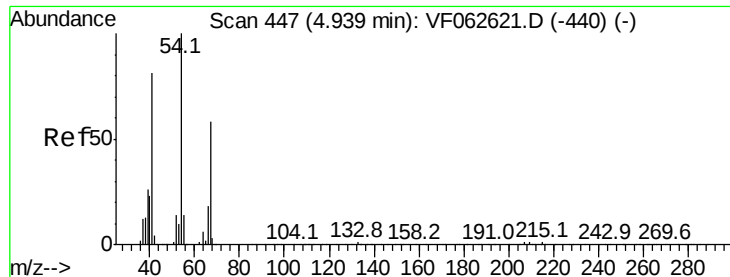
mmdadoda
5/30/2019 11:01:51 AM



#40
Benzene
Concen: 55.751 ug/l
RT: 4.84 min Scan# 437
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	1870899		
77	22.8	18.2	27.2	





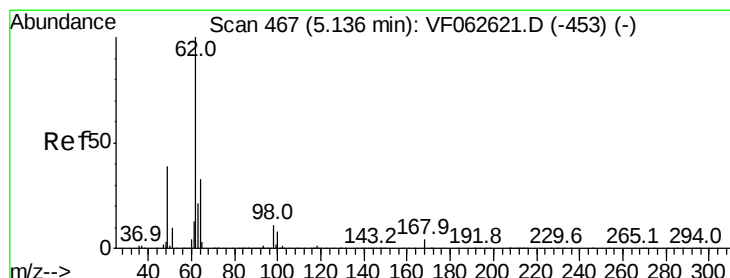
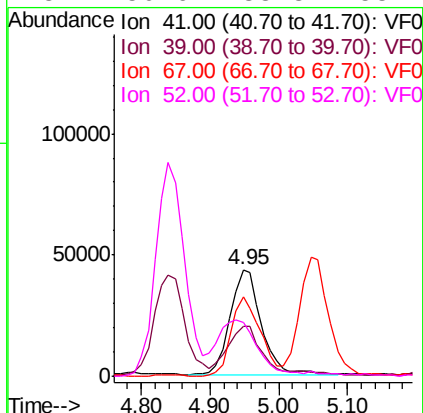
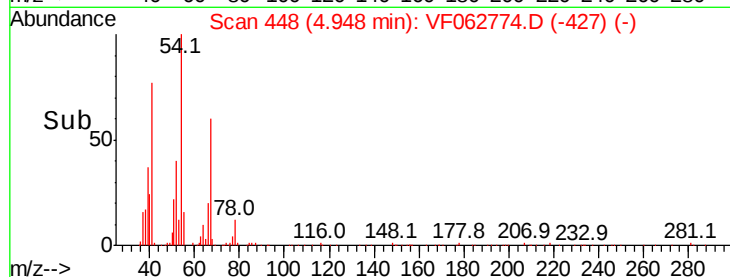
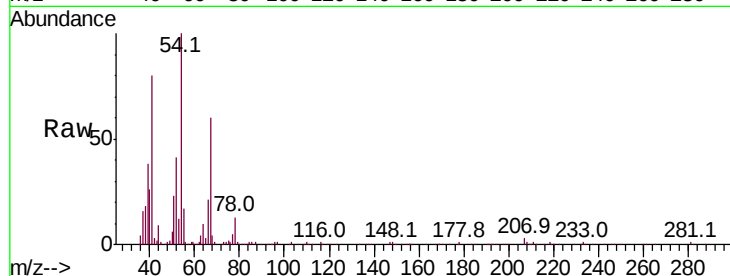
#41
Methacrylonitrile
Concen: 51.521 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	47.3	42.2	63.2
67	75.1	56.4	84.6
52	50.6	38.8	58.2

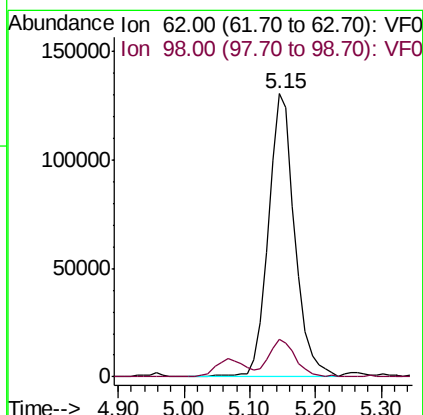
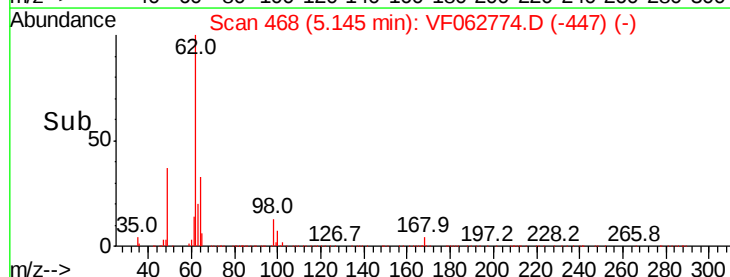
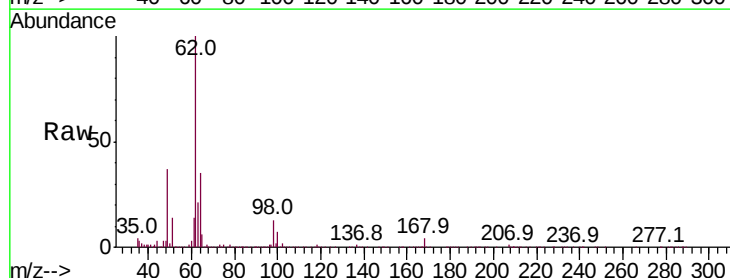
Manual Integrations
APPROVED

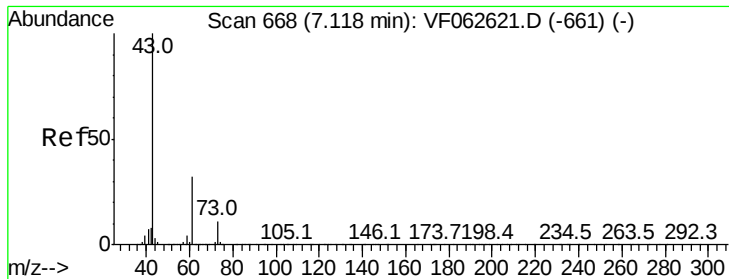
mmdadoda
5/30/2019 11:01:51 AM



#42
1,2-Dichloroethane
Concen: 54.453 ug/l
RT: 5.15 min Scan# 468
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
62	100		
98	13.5	0.0	21.6





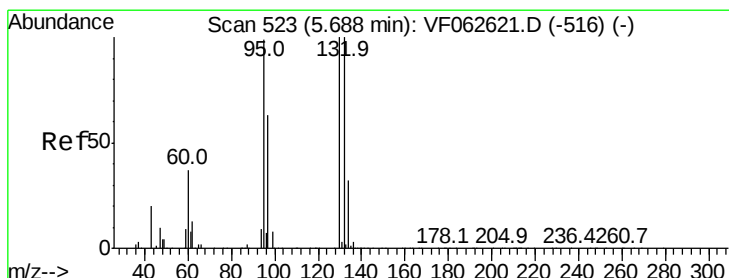
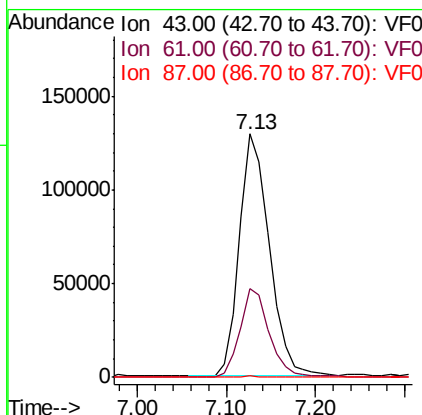
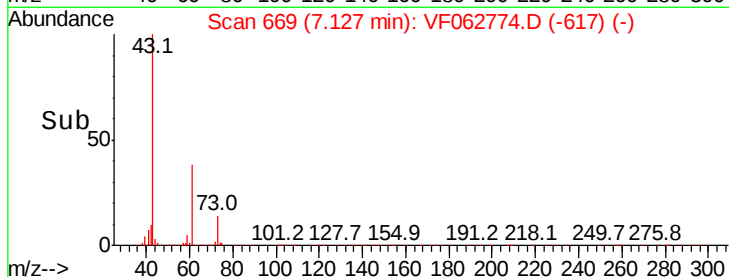
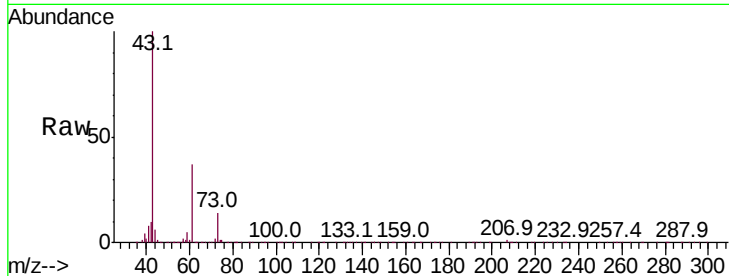
#43
Isopropyl Acetate
Concen: 46.512 ug/l
RT: 7.13 min Scan# 669
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	36.6	25.8	38.8
87	0.4	0.4	0.6

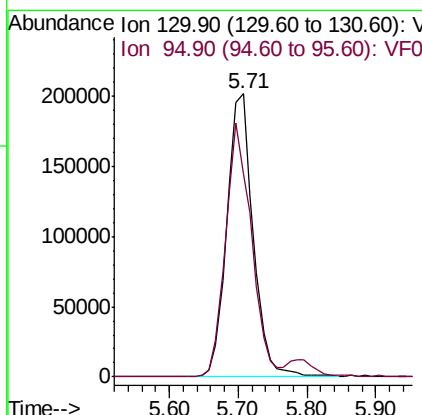
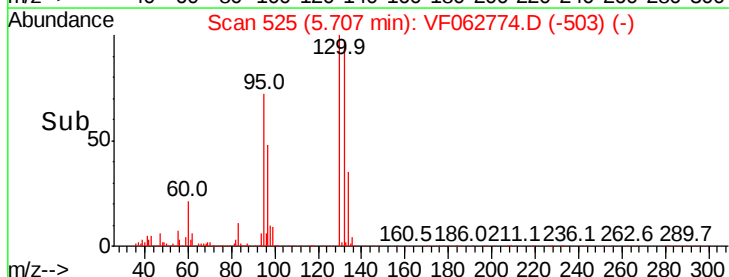
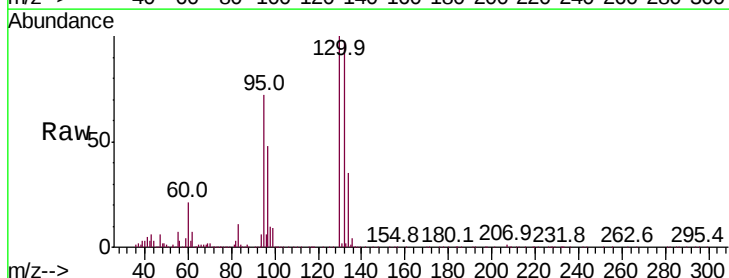
Manual Integrations
APPROVED

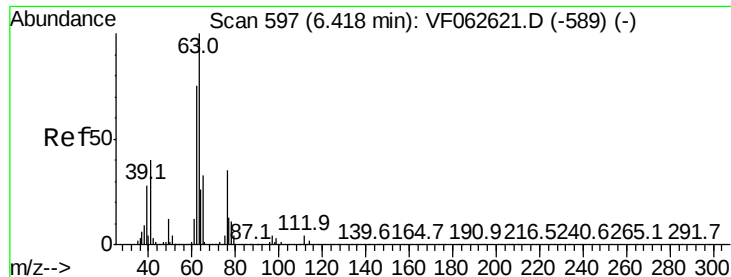
mmdadoda
5/30/2019 11:01:51 AM



#44
Trichloroethene
Concen: 56.835 ug/l
RT: 5.71 min Scan# 525
Delta R.T. 0.02 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	71.8	0.0	199.4





#45

1,2-Dichloropropane

Concen: 57.098 ug/l

RT: 6.43 min Scan# 598

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 483689

Ion Ratio Lower Upper

63 100

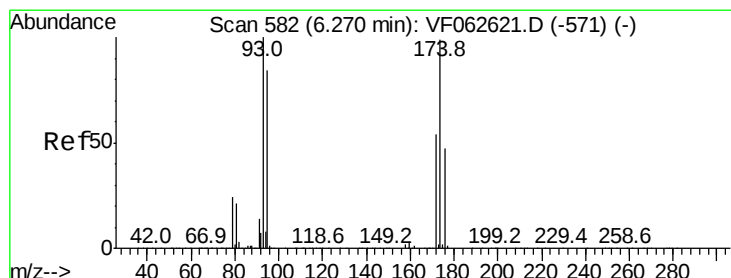
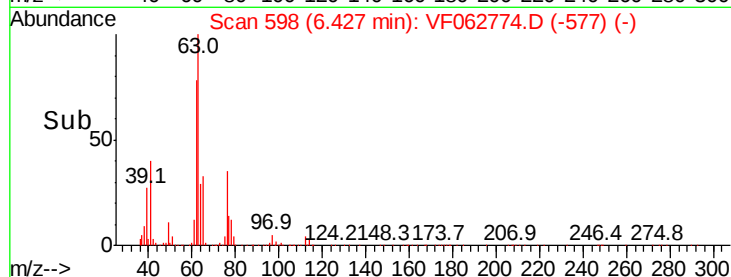
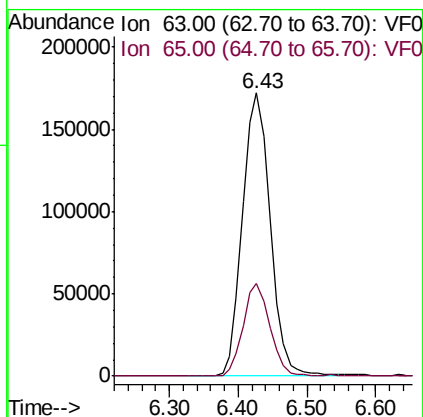
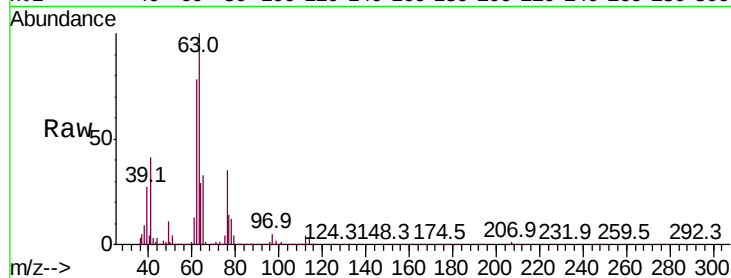
65 32.8 26.3 39.5

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#46

Dibromomethane

Concen: 57.796 ug/l

RT: 6.28 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

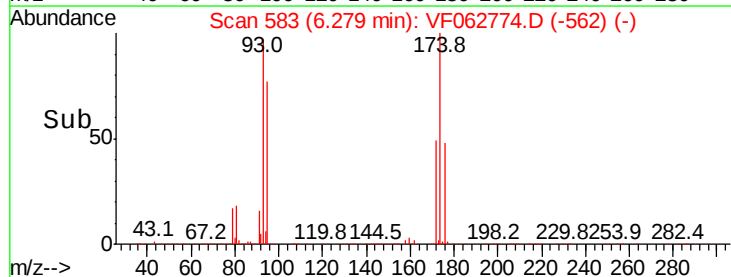
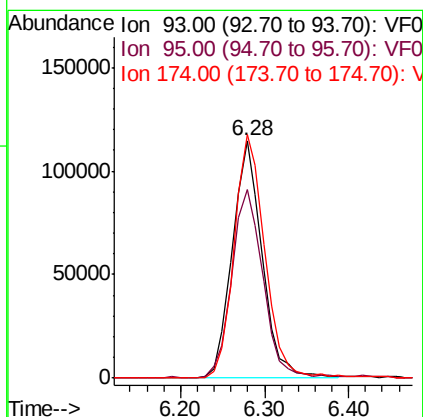
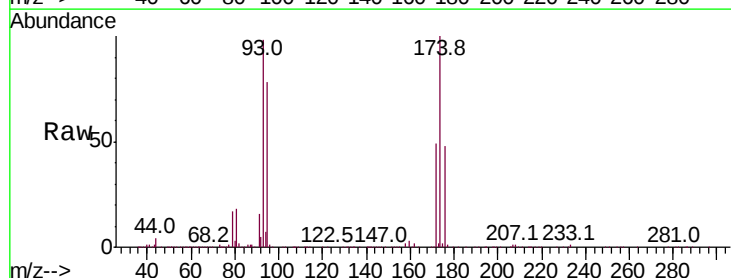
Tgt Ion: 93 Resp: 282954

Ion Ratio Lower Upper

93 100

95 79.4 67.4 101.2

174 102.5 79.4 119.2





#47

Bromodichloromethane

Concen: 56.587 ug/l

RT: 6.57 min Scan# 613

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

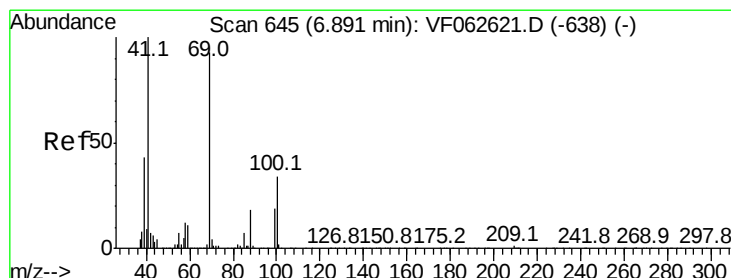
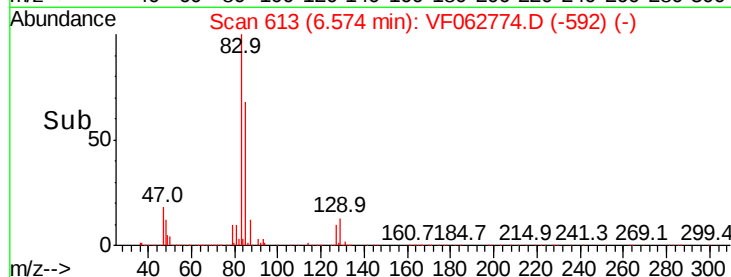
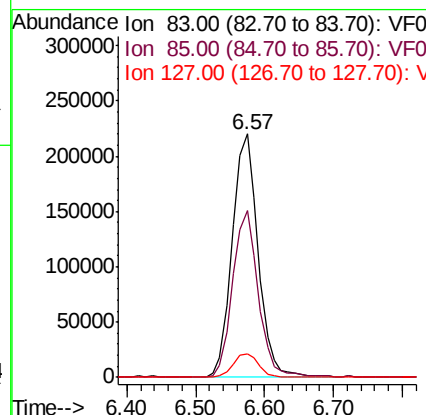
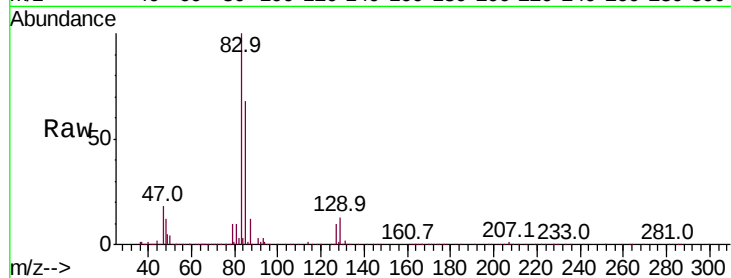
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	575125
Ion Ratio	Lower	Upper	
83	100		
85	68.4	52.0	78.0
127	9.8	7.7	11.5

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#48

Methyl methacrylate

Concen: 48.716 ug/l

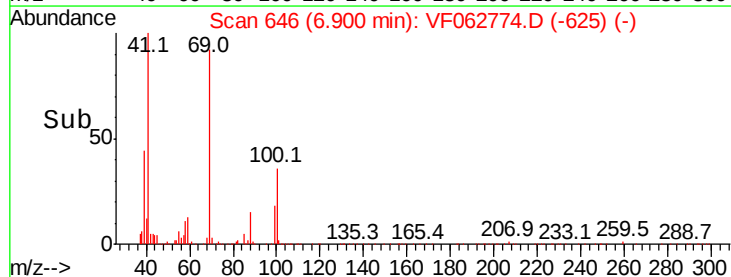
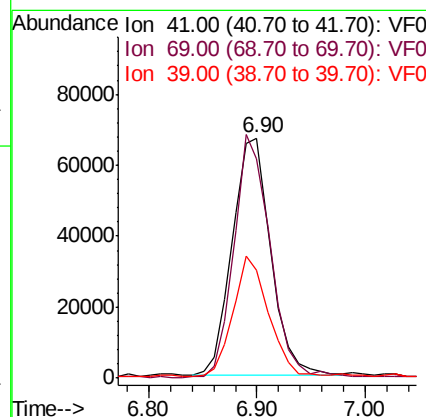
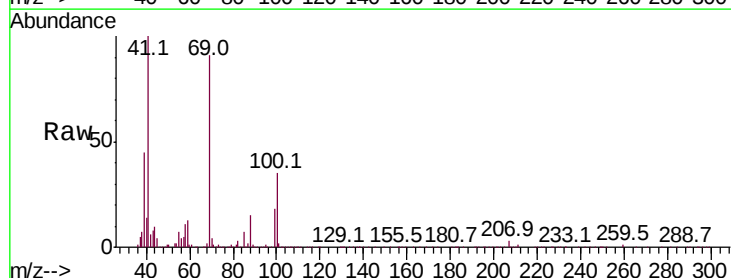
RT: 6.90 min Scan# 646

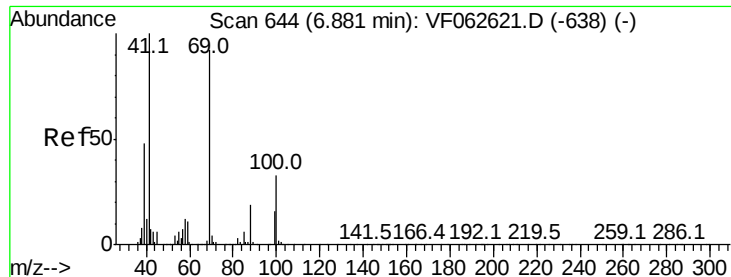
Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion:	41	Resp:	165915
Ion Ratio	Lower	Upper	
41	100		
69	91.2	74.2	111.2
39	44.8	34.2	51.4





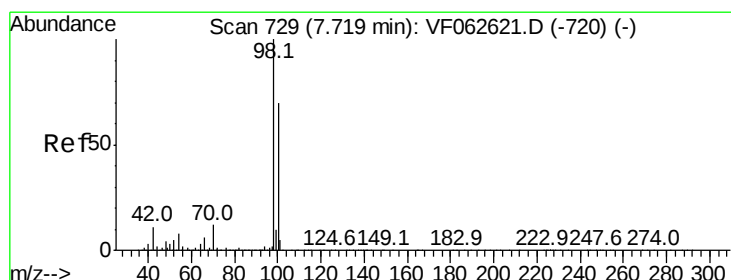
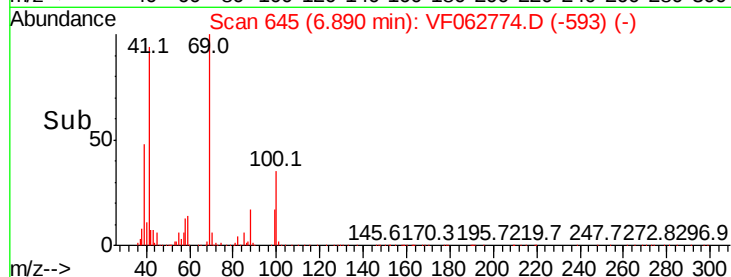
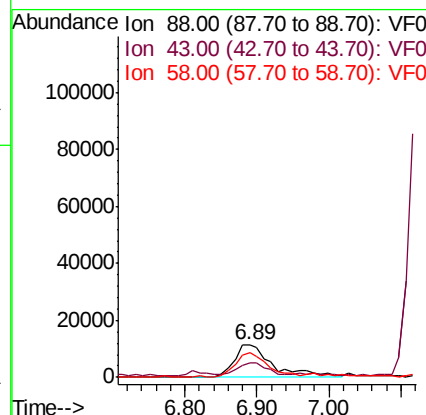
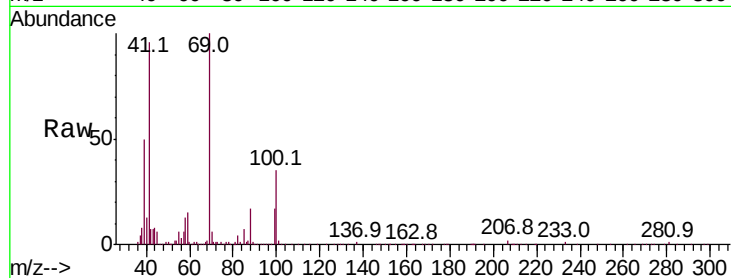
#49
1,4-Dioxane
Concen: 983.595 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	43.6	30.0	45.0
58	75.1	51.1	76.7

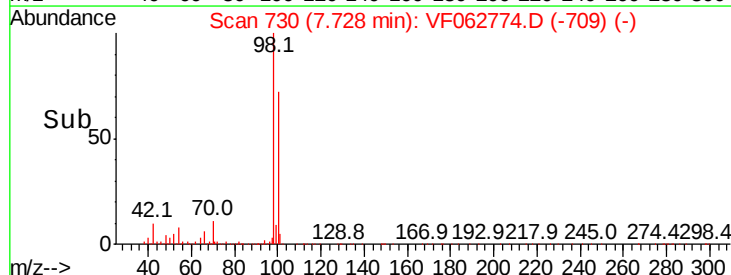
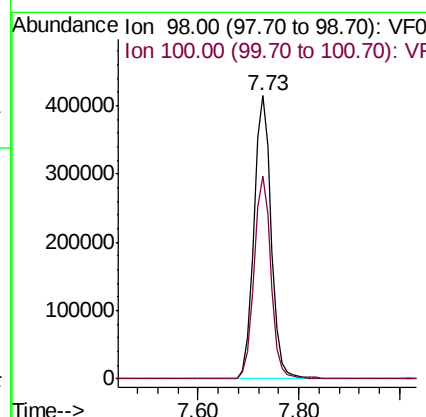
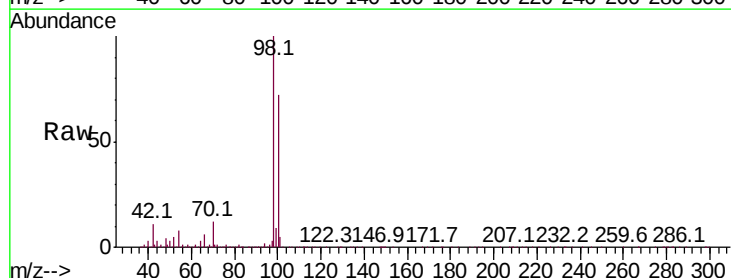
Manual Integrations
APPROVED

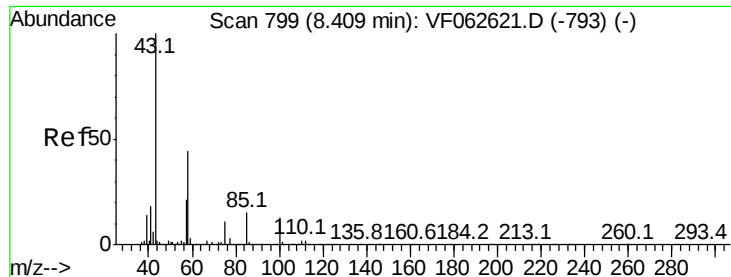
mmdadoda
5/30/2019 11:01:51 AM



#50
Toluene-d8
Concen: 45.295 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.5	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 257.884 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1148580

Ion Ratio Lower Upper

43 100

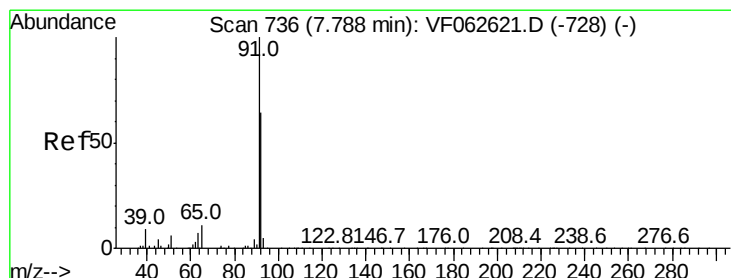
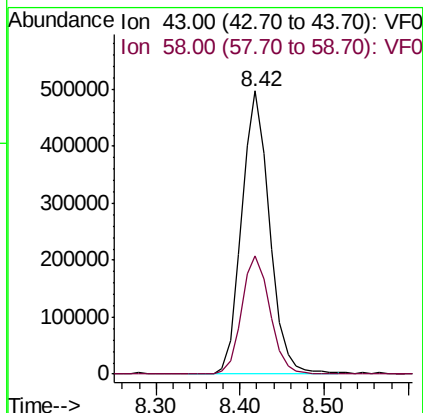
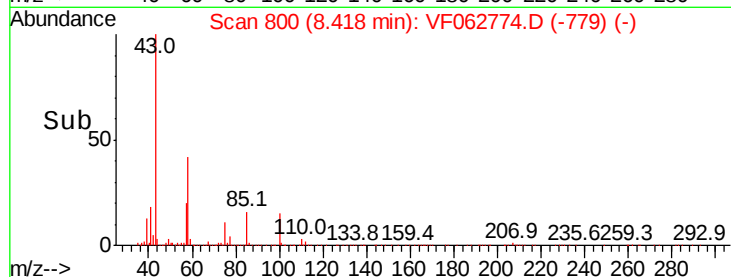
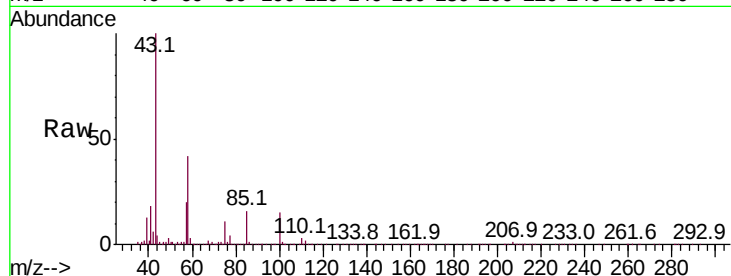
58 41.9 34.9 52.3

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#52

Toluene

Concen: 59.527 ug/l

RT: 7.80 min Scan# 737

Delta R.T. 0.01 min

Lab File: VF062774.D

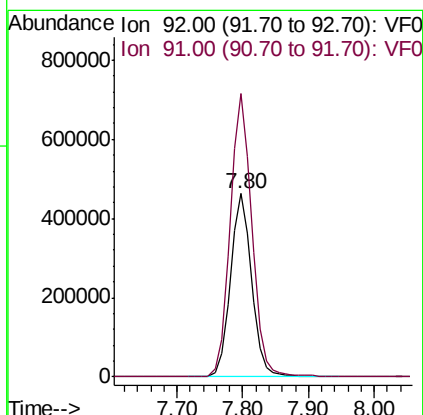
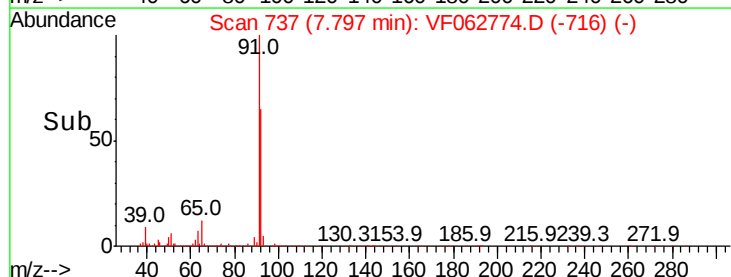
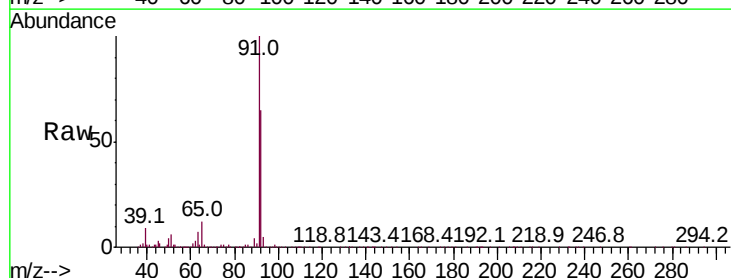
Acq: 29 May 2019 10:24

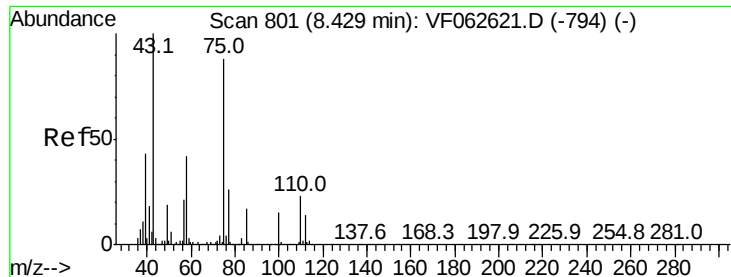
Tgt Ion: 92 Resp: 1047634

Ion Ratio Lower Upper

92 100

91 154.5 125.4 188.0





#53

t-1,3-Dichloropropene

Concen: 55.684 ug/l

RT: 8.44 min Scan# 802

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 463014

Ion Ratio Lower Upper

75 100

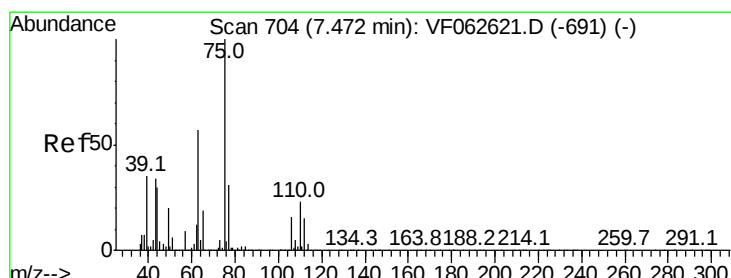
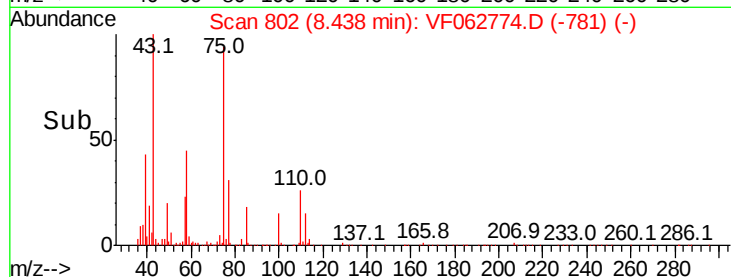
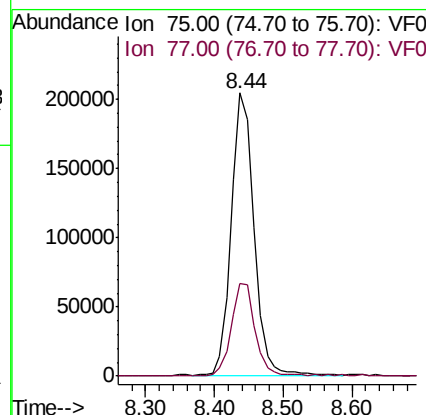
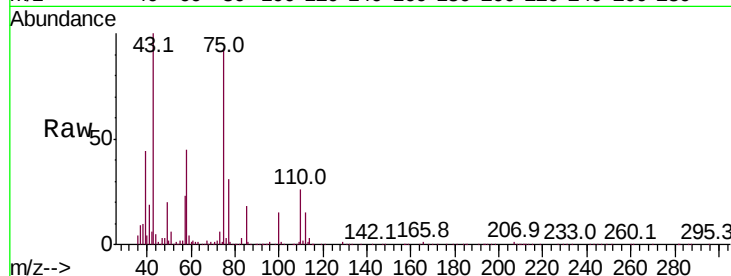
77 32.9 24.2 36.4

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#54

cis-1,3-Dichloropropene

Concen: 57.080 ug/l

RT: 7.47 min Scan# 704

Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

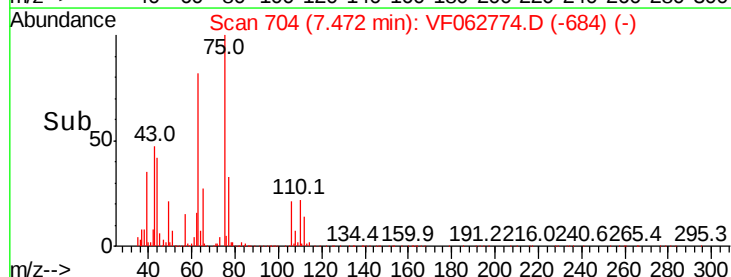
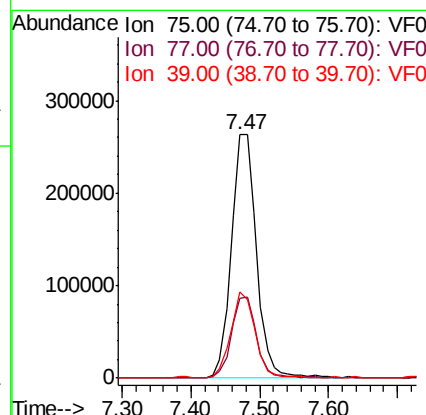
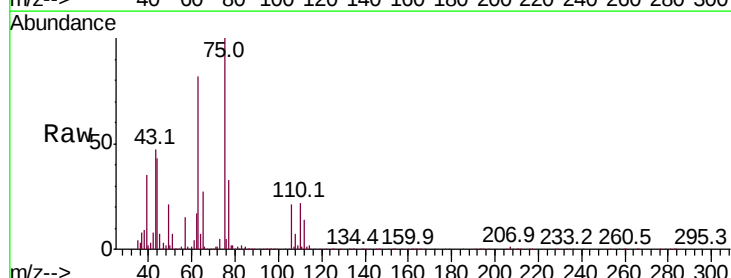
Tgt Ion: 75 Resp: 664388

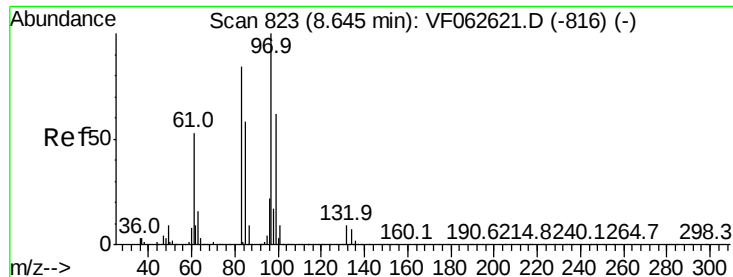
Ion Ratio Lower Upper

75 100

77 32.9 25.3 37.9

39 35.3 28.2 42.2





#55

1,1,2-Trichloroethane

Concen: 60.004 ug/l

RT: 8.65 min Scan# 824

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

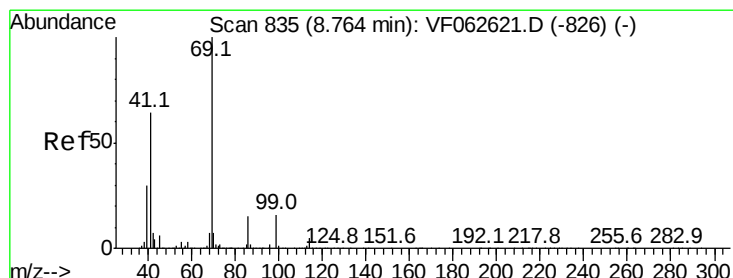
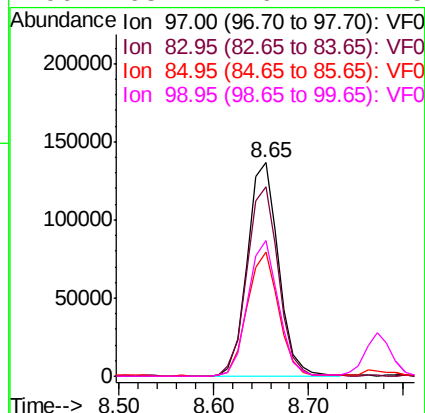
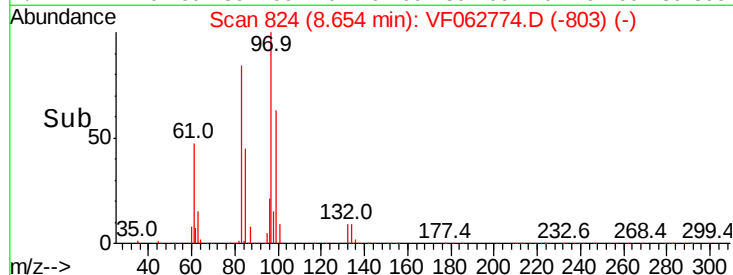
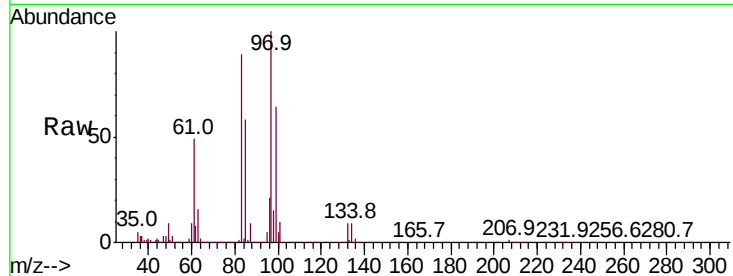
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		312675		
83	88.6	67.3	100.9		
85	58.4	46.6	69.8		
99	63.7	49.7	74.5		

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#56

Ethyl methacrylate

Concen: 51.066 ug/l

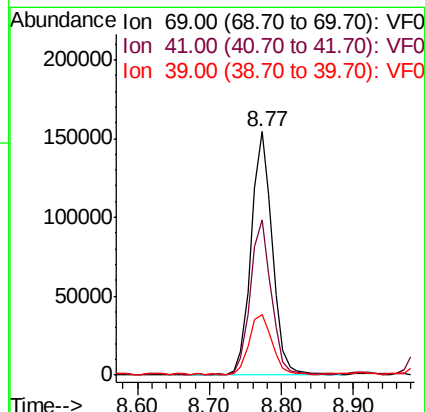
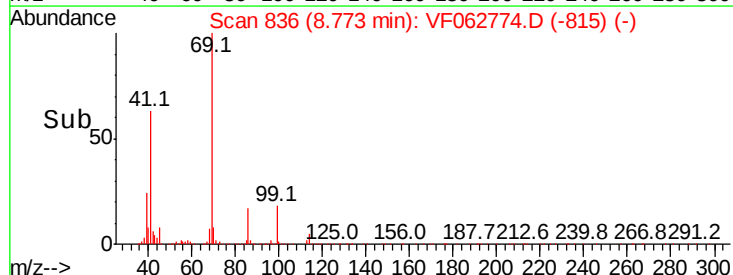
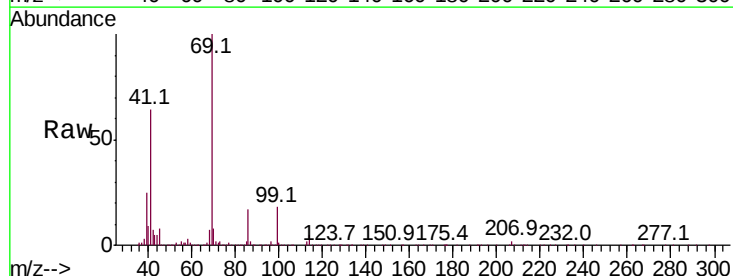
RT: 8.77 min Scan# 836

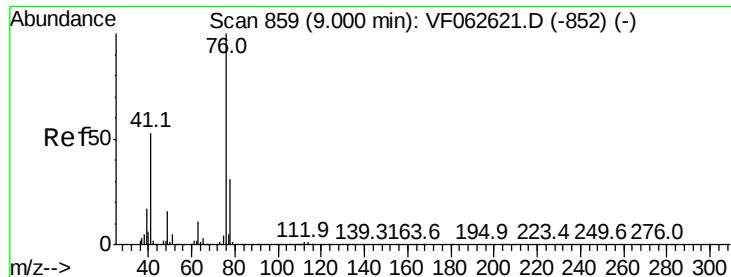
Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		317022		
41	63.6	51.4	77.2		
39	25.0	23.6	35.4		





#57

1,3-Dichloropropane

Concen: 57.207 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.01 min

Lab File: VF062774.D

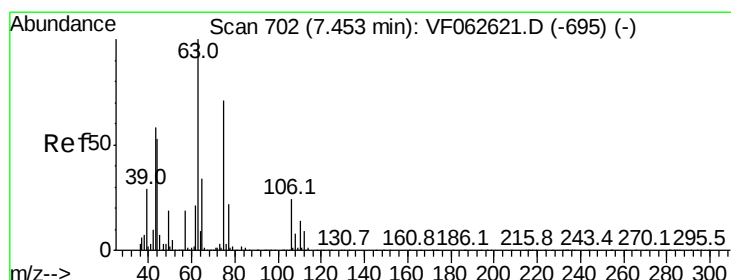
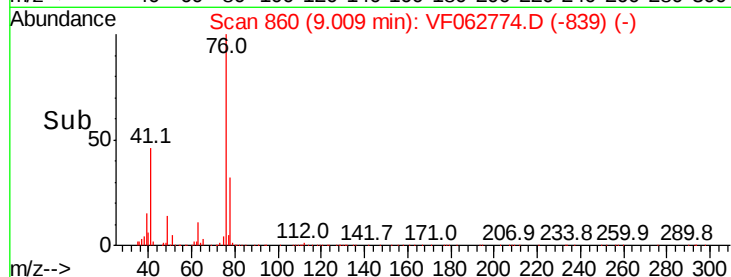
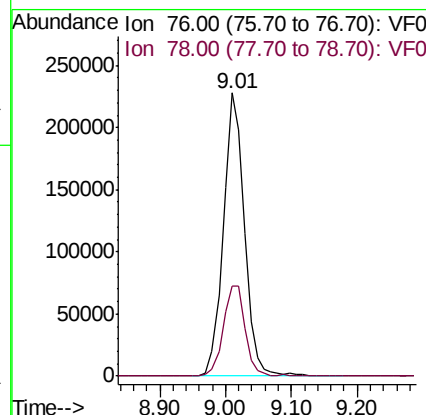
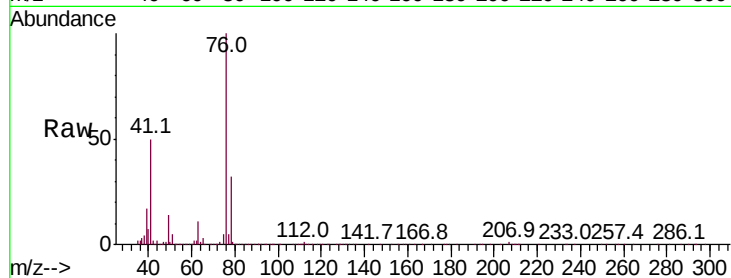
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.4	38.0

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#58

2-Chloroethyl Vinyl ether

Concen: 265.836 ug/l

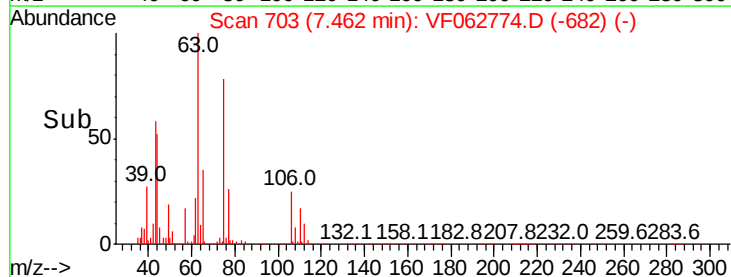
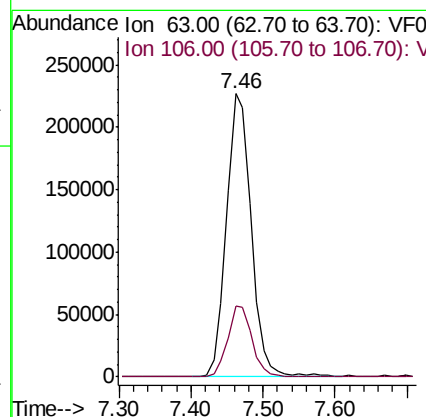
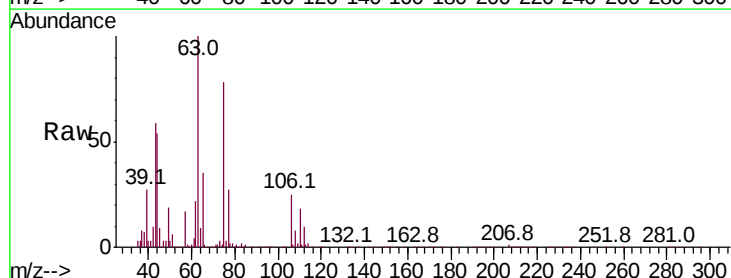
RT: 7.46 min Scan# 703

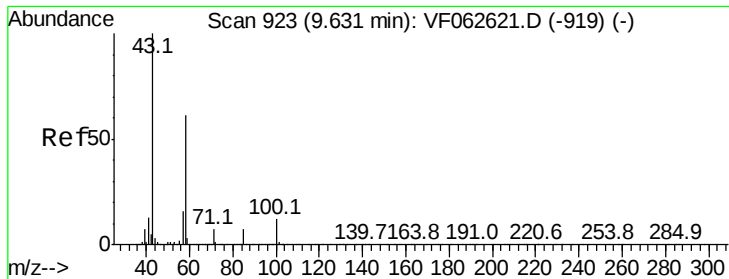
Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
63	100		
106	25.3	19.1	28.7





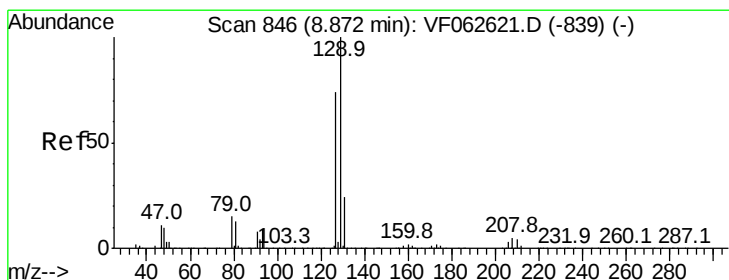
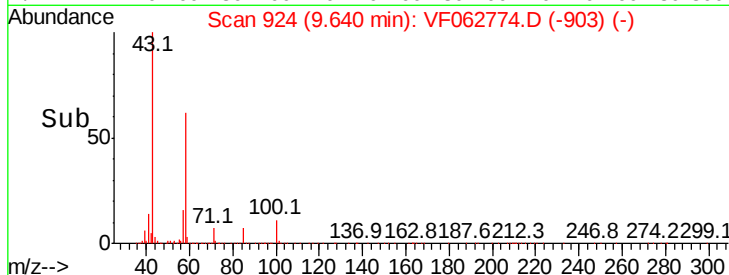
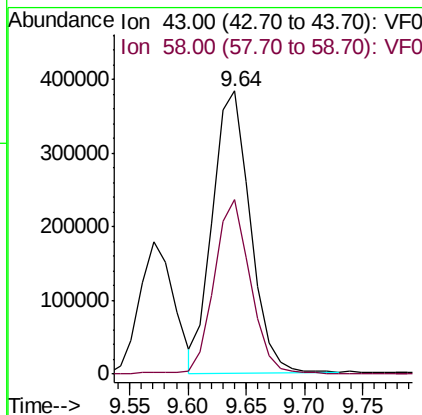
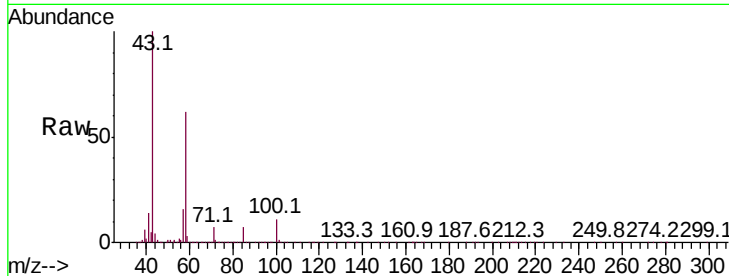
#59
2-Hexanone
Concen: 300.141 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 859371
Ion Ratio Lower Upper
43 100
58 61.6 28.1 84.4

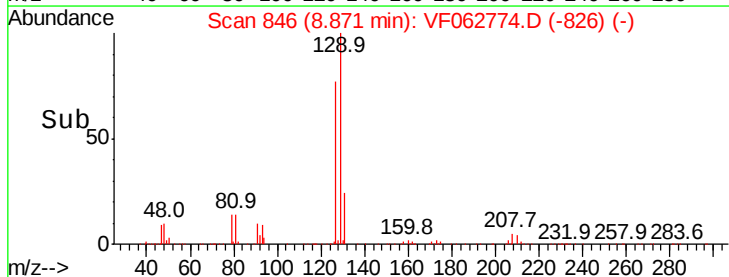
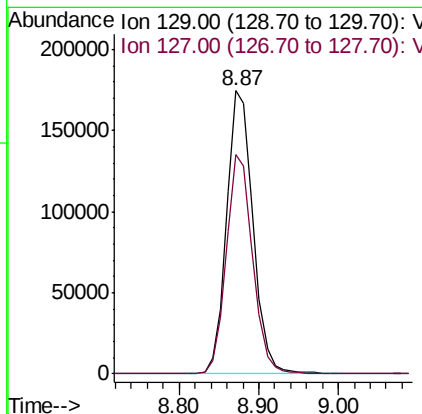
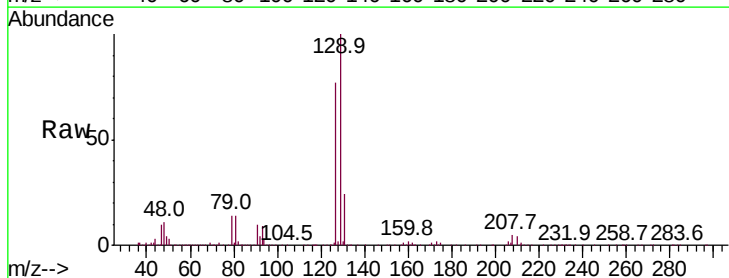
Manual Integrations
APPROVED

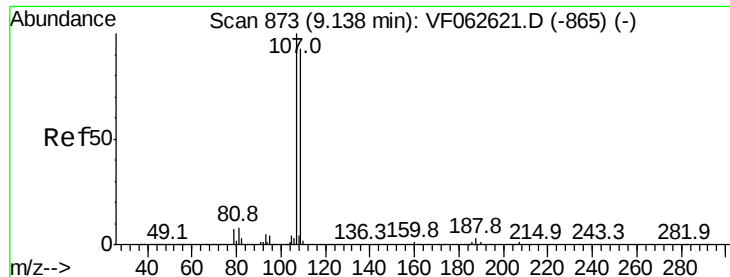
mmdadoda
5/30/2019 11:01:51 AM



#60
Dibromochloromethane
Concen: 59.812 ug/l
RT: 8.87 min Scan# 846
Delta R.T. -0.00 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion: 129 Resp: 406215
Ion Ratio Lower Upper
129 100
127 77.4 37.2 111.6





#61

1,2-Dibromoethane

Concen: 58.065 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 321374

Ion Ratio Lower Upper

107 100

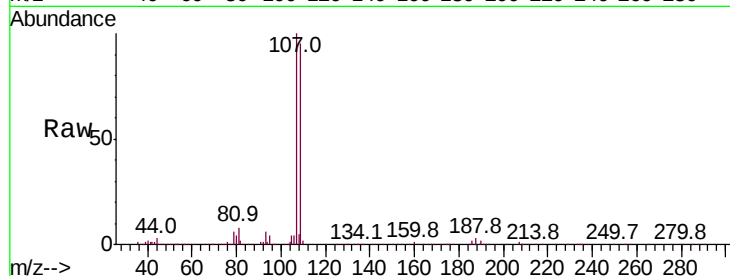
109 94.6 74.8 112.2

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.15

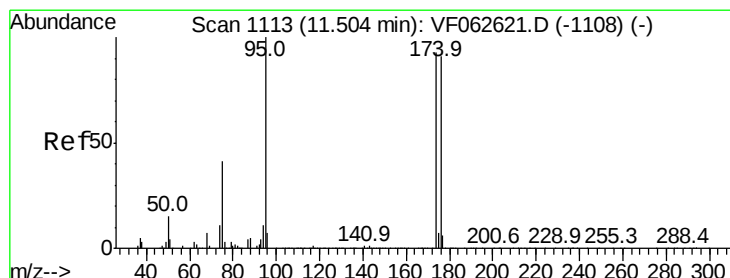
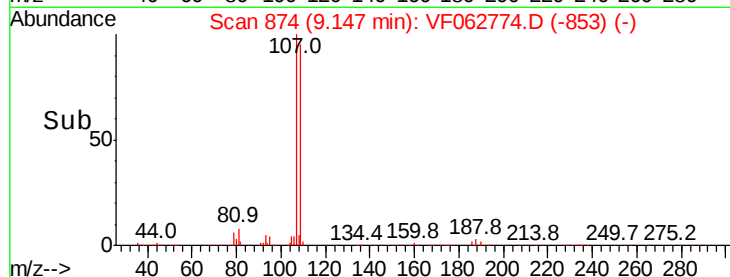
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.890 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

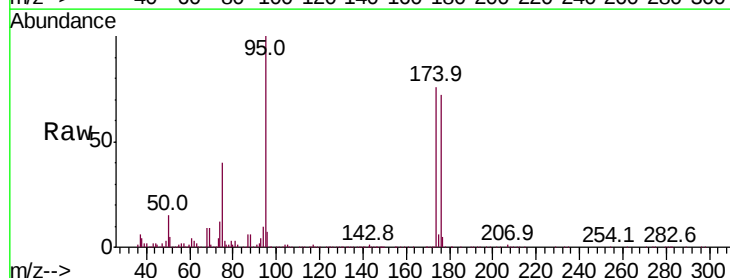
Tgt Ion: 95 Resp: 398915

Ion Ratio Lower Upper

95 100

174 75.6 0.0 185.6

176 72.0 0.0 182.4



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

300000

250000

200000

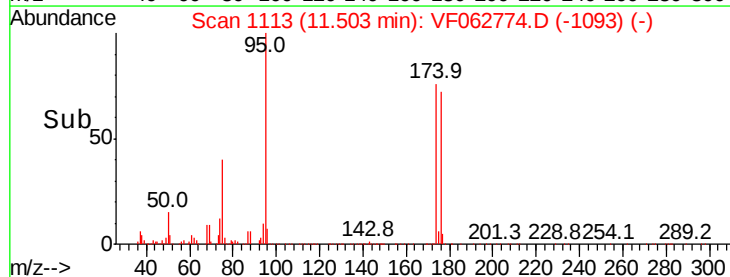
150000

100000

50000

0

Time-->





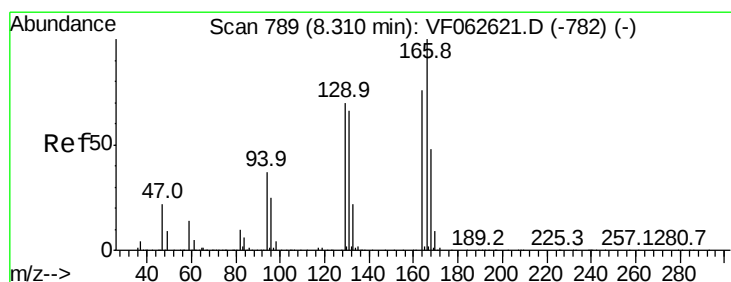
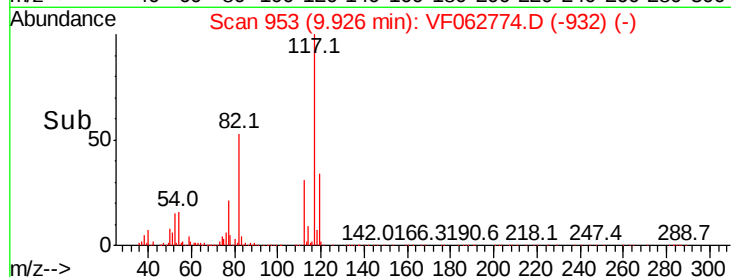
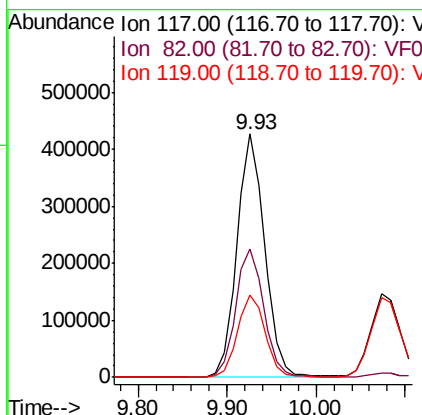
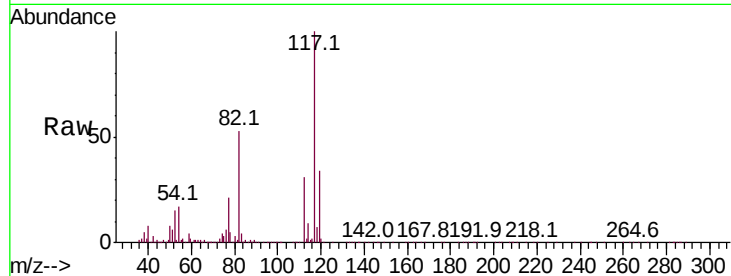
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	925680		
82	53.0		43.3	64.9
119	33.9		27.4	41.0

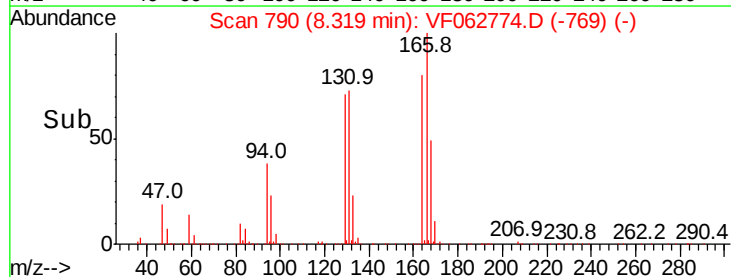
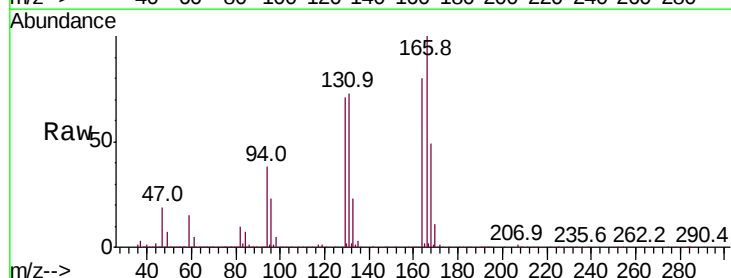
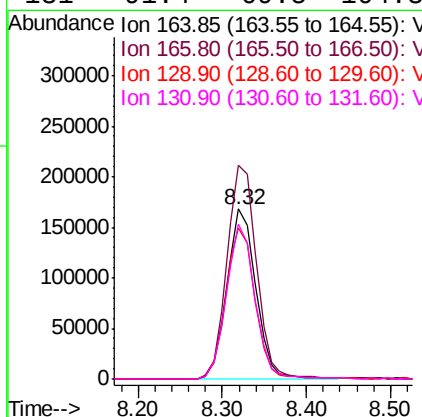
Manual Integrations
APPROVED

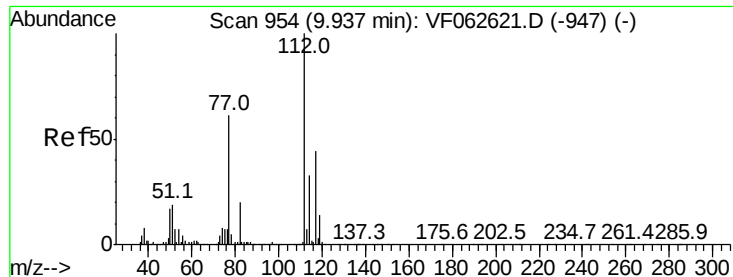
mmdadoda
5/30/2019 11:01:51 AM



#64
Tetrachloroethene
Concen: 55.168 ug/l
RT: 8.32 min Scan# 790
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	404574		
166	125.7		105.5	158.3
129	88.8		73.8	110.6
131	91.4		69.5	104.3





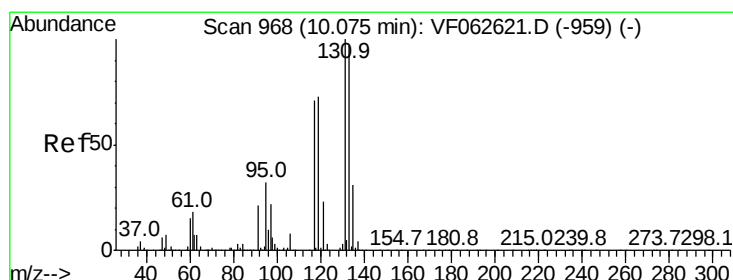
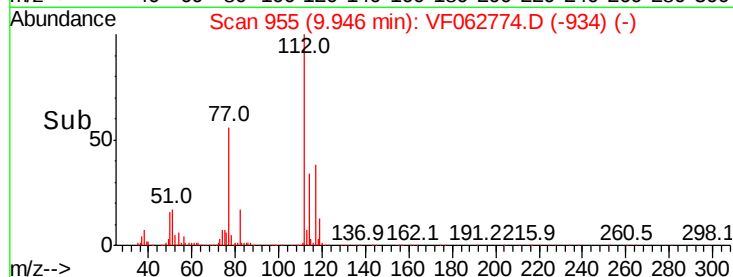
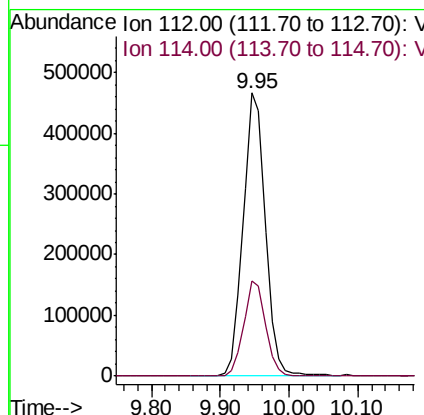
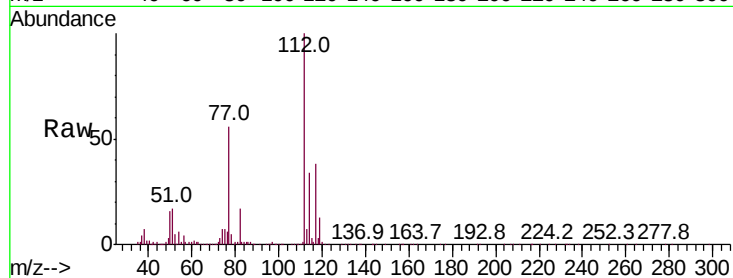
#65
Chlorobenzene
Concen: 57.466 ug/l
RT: 9.95 min Scan# 955
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1044799
Ion Ratio Lower Upper
112 100
114 33.7 26.8 40.2

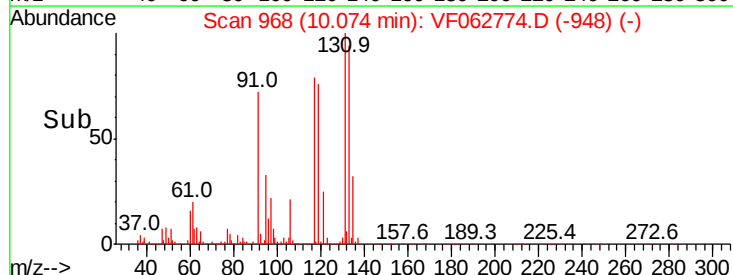
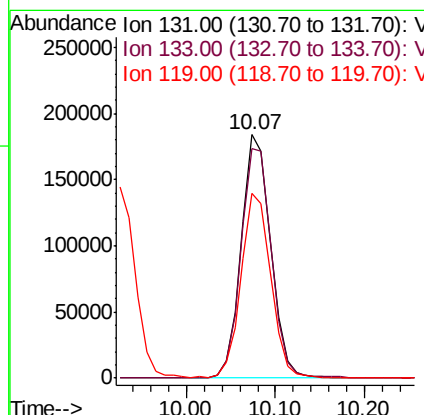
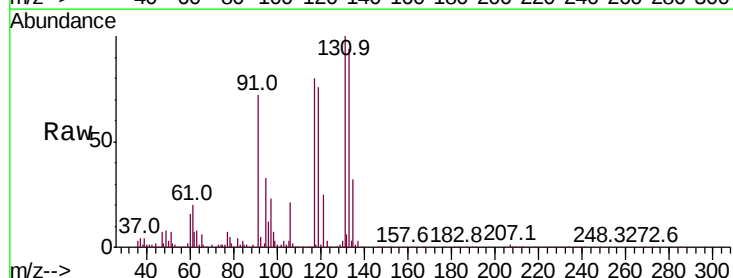
Manual Integrations
APPROVED

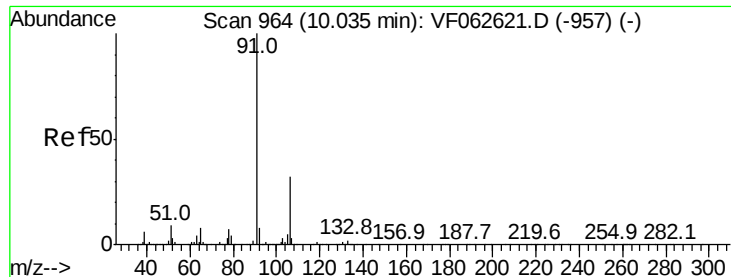
mmdadoda
5/30/2019 11:01:51 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 57.829 ug/l
RT: 10.07 min Scan# 968
Delta R.T. -0.00 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion:131 Resp: 422082
Ion Ratio Lower Upper
131 100
133 94.1 48.5 145.5
119 75.9 36.8 110.4





#67

Ethyl Benzene

Concen: 56.196 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1774946

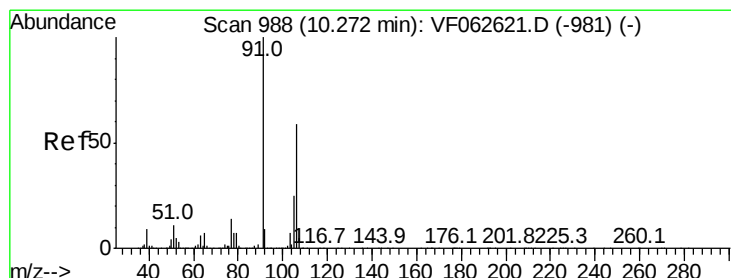
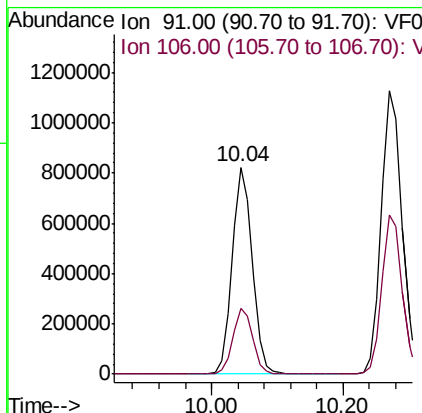
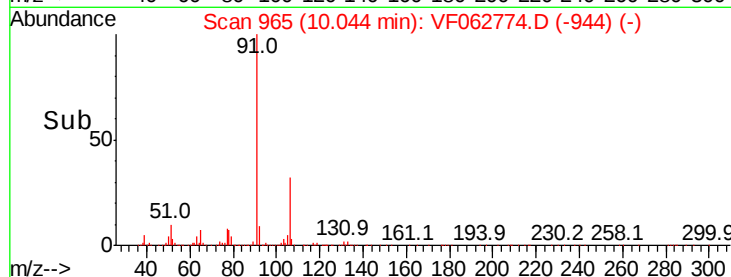
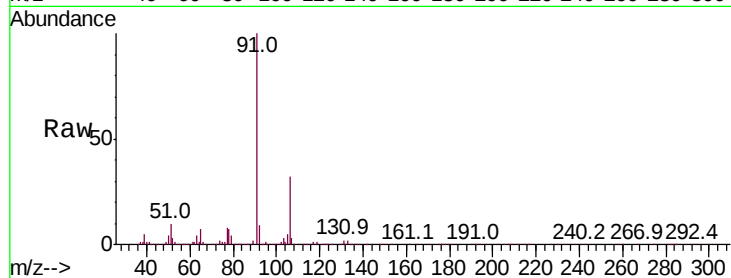
Ion Ratio Lower Upper

91 100

106 31.6 25.8 38.8

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#68

m/p-Xylenes

Concen: 114.036 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.00 min

Lab File: VF062774.D

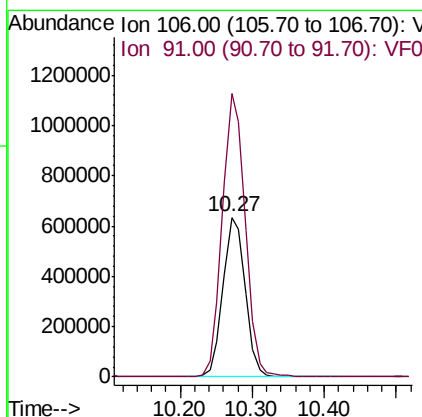
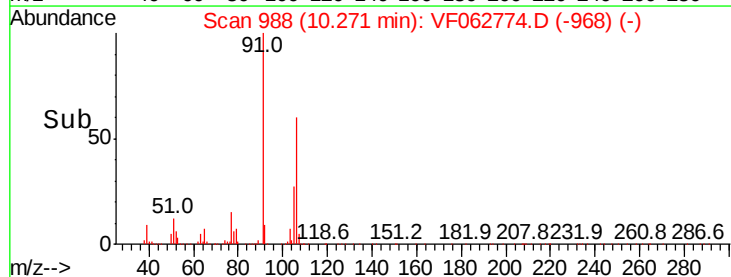
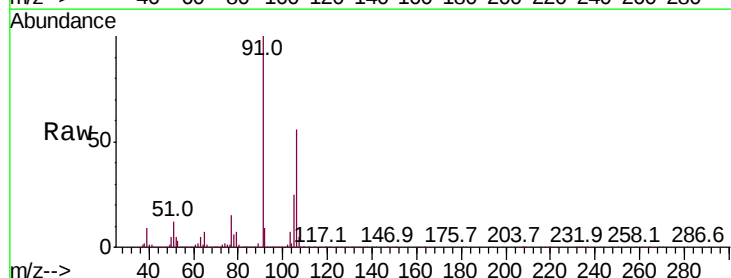
Acq: 29 May 2019 10:24

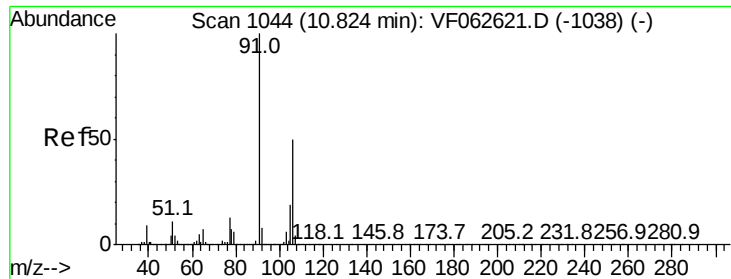
Tgt Ion: 106 Resp: 1353720

Ion Ratio Lower Upper

106 100

91 177.3 136.9 205.3





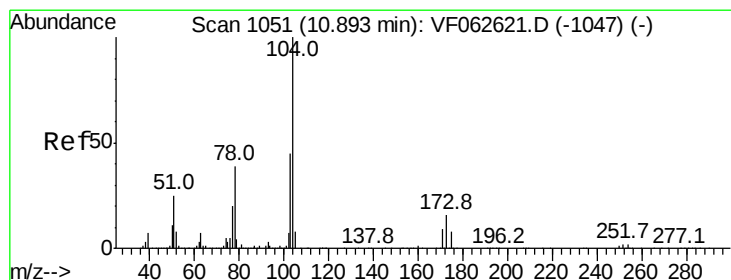
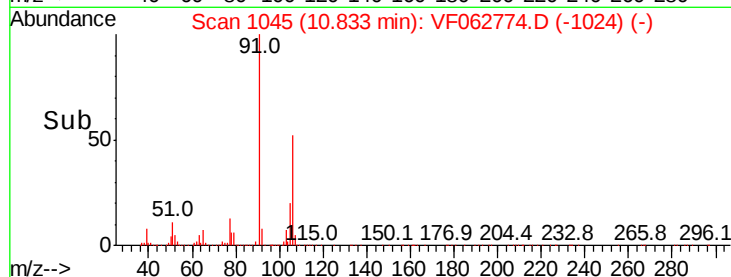
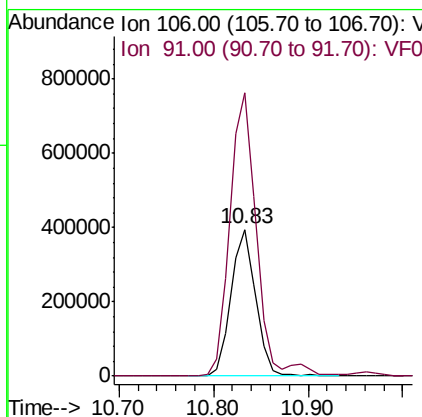
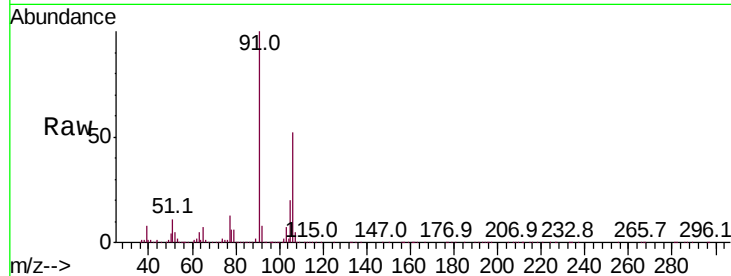
#69
o-Xylene
Concen: 58.384 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
106	100		
91	193.0	100.2	300.5

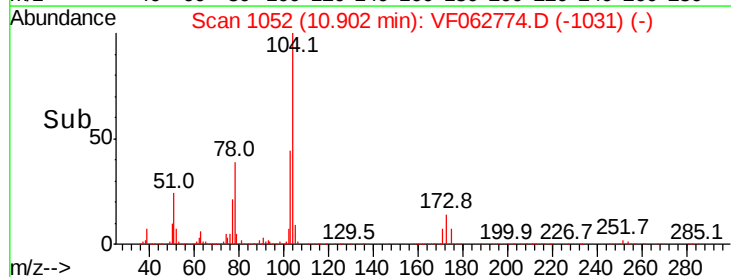
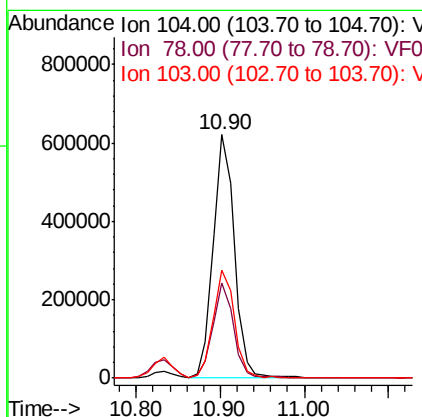
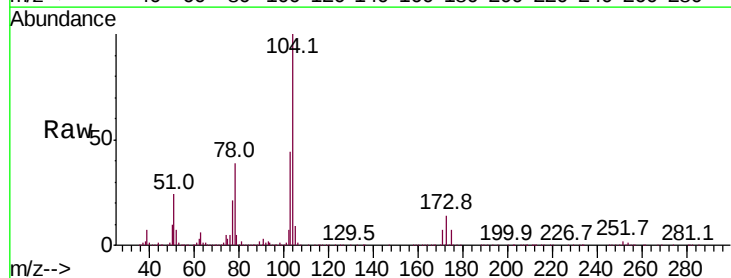
Manual Integrations
APPROVED

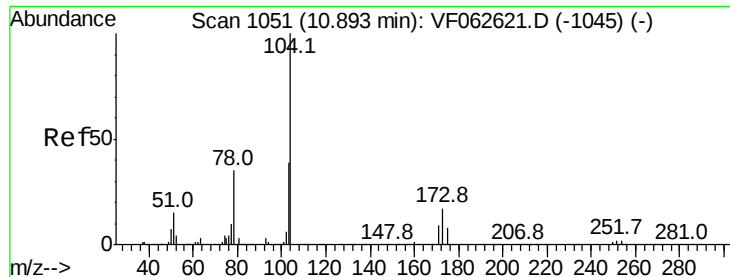
mmdadoda
5/30/2019 11:01:51 AM



#70
Styrene
Concen: 58.288 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
104	100		
78	39.3	31.9	47.9
103	44.1	36.1	54.1





#71

Bromoform

Concen: 60.595 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

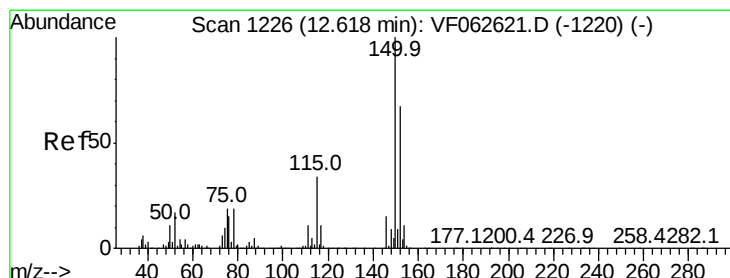
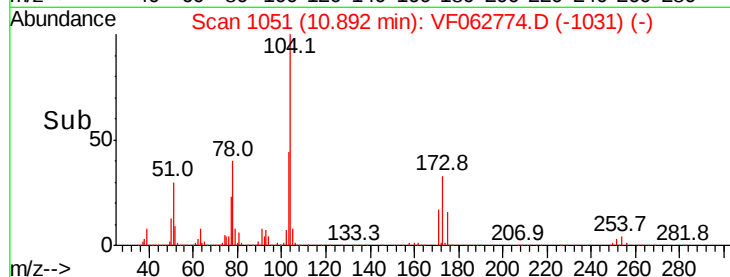
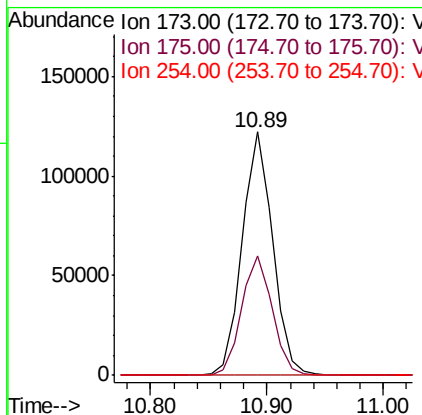
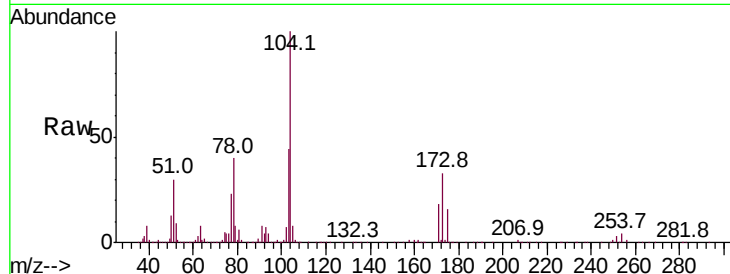
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	25.3	75.9
254	0.0	0.2	0.2#

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

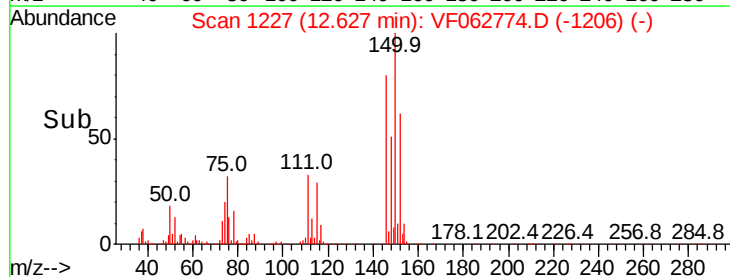
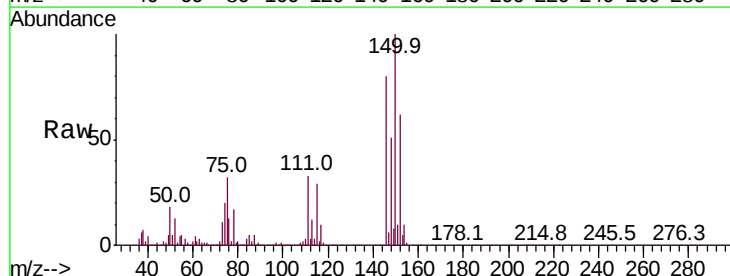
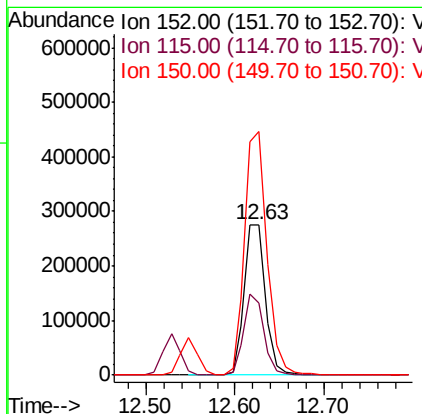
RT: 12.63 min Scan# 1227

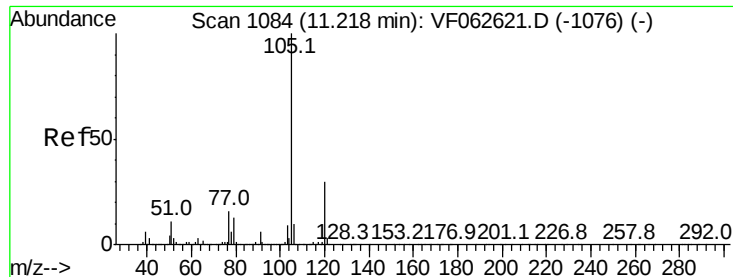
Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	47.6	25.2	75.6
150	161.5	0.0	306.2





#73

Isopropylbenzene

Concen: 58.527 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1911345

Ion Ratio Lower Upper

105 100

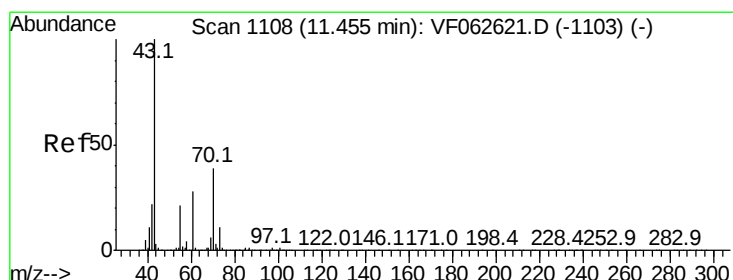
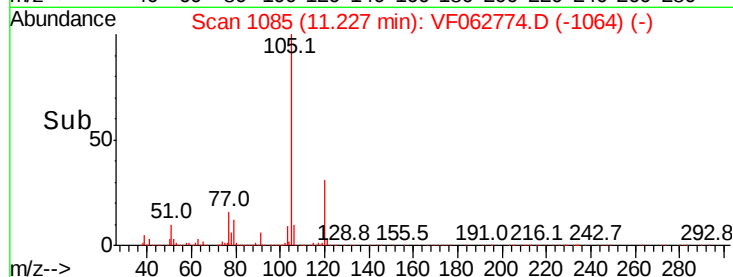
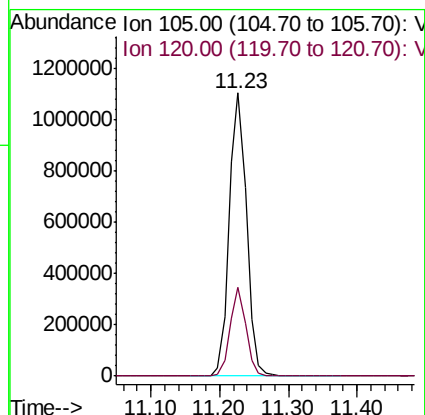
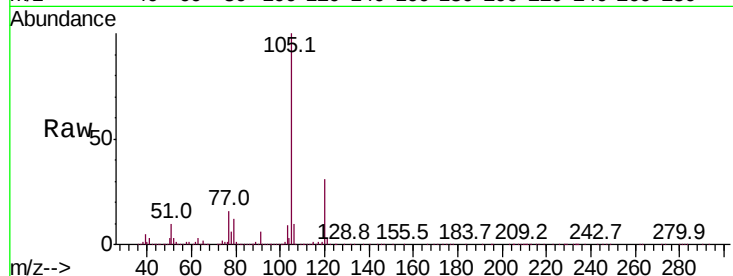
120 31.5 14.8 44.4

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#74

N-ethyl acetate

Concen: 59.417 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion: 43 Resp: 485269

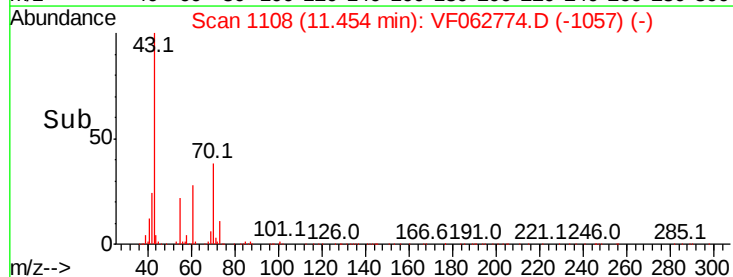
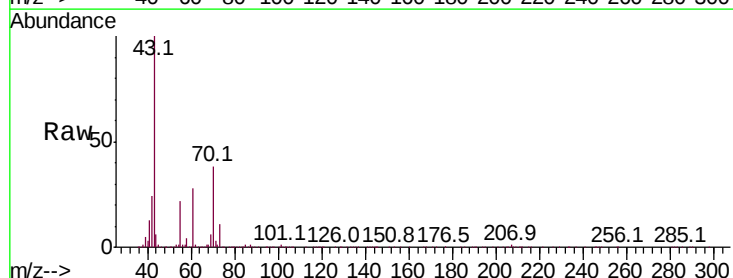
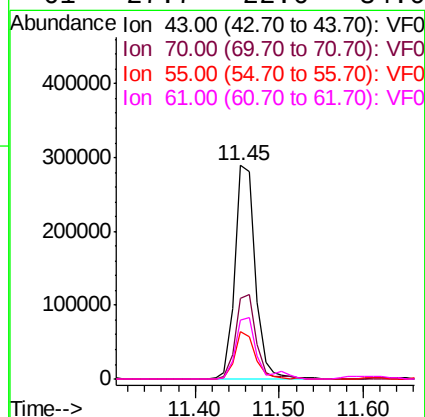
Ion Ratio Lower Upper

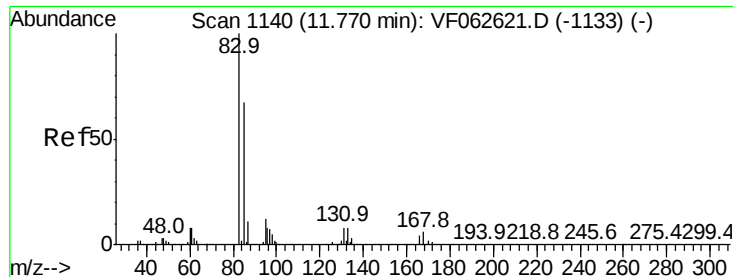
43 100

70 38.0 30.9 46.3

55 22.1 17.0 25.4

61 27.7 22.6 34.0





#75

1,1,2,2-Tetrachloroethane

Concen: 60.584 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

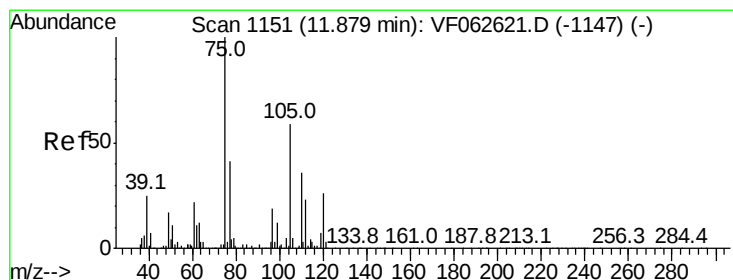
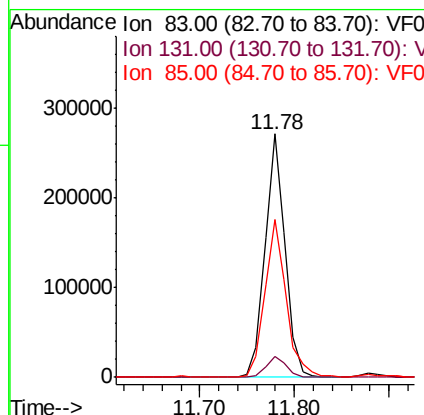
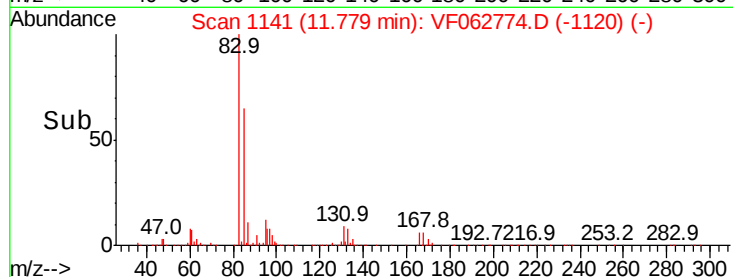
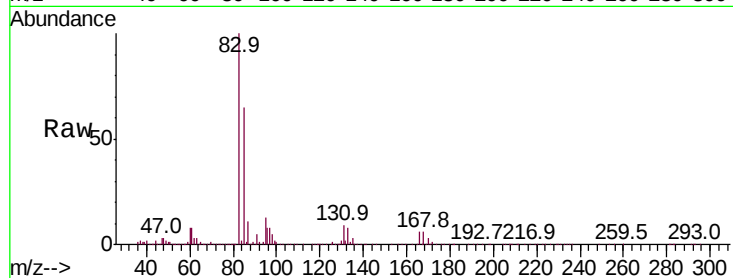
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	404337
Ion Ratio	Lower	Upper	
83	100		
131	8.8	4.0	12.0
85	65.1	33.5	100.5

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#76

1,2,3-Trichloropropane

Concen: 57.036 ug/l

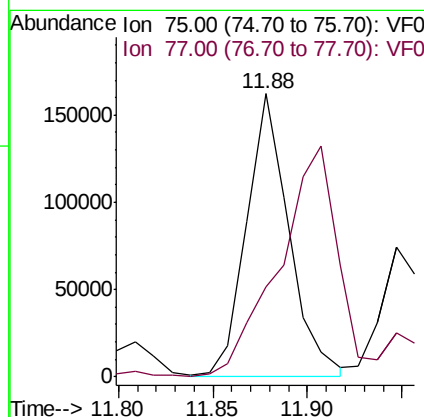
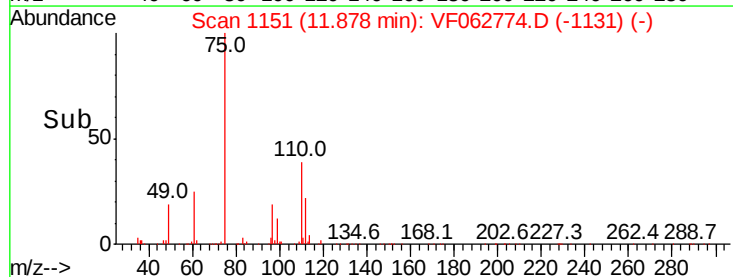
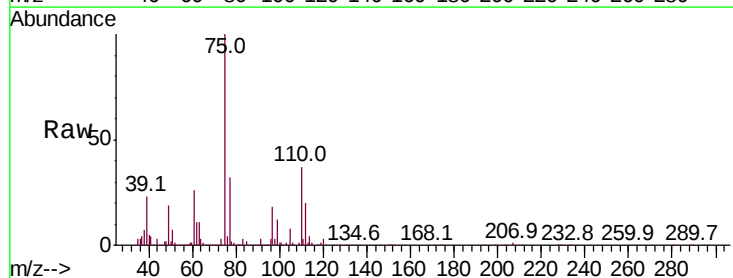
RT: 11.88 min Scan# 1151

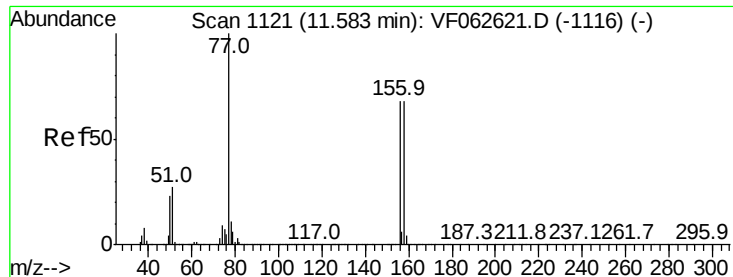
Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion:	75	Resp:	250116
Ion Ratio	Lower	Upper	
75	100		
77	32.0	20.6	61.8





#77

Bromobenzene

Concen: 58.369 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

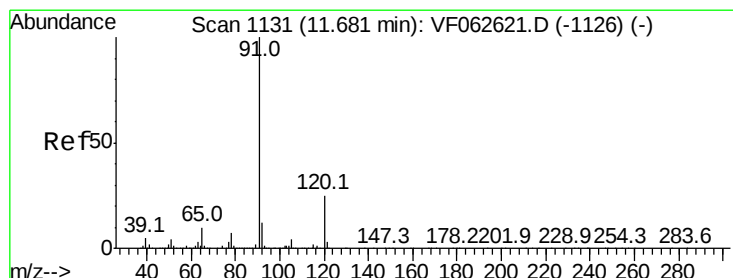
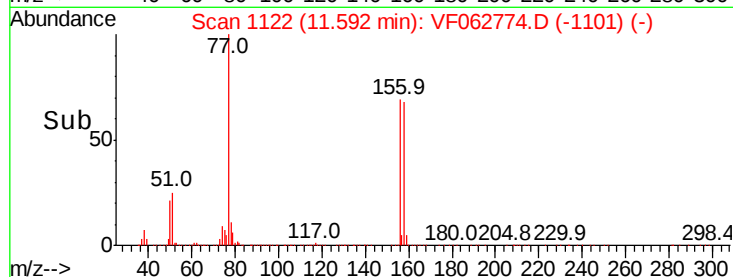
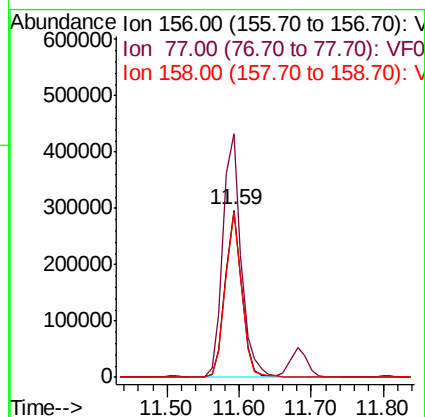
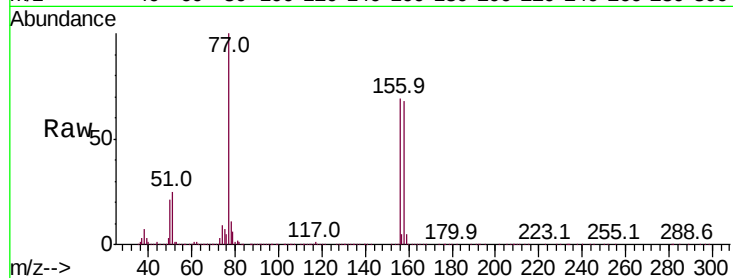
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	473820
Ion Ratio	Lower	Upper	
156	100		
77	145.4	73.6	220.8
158	98.9	49.6	148.8

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#78

n-propylbenzene

Concen: 57.594 ug/l

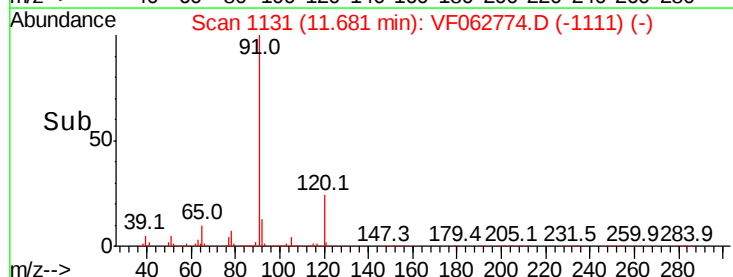
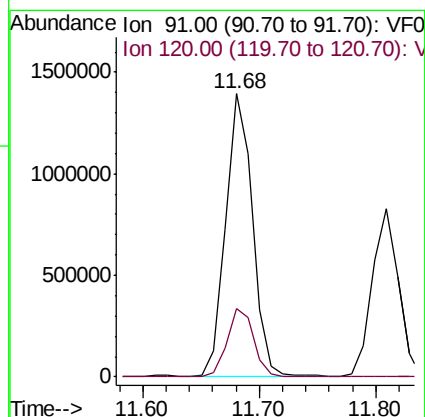
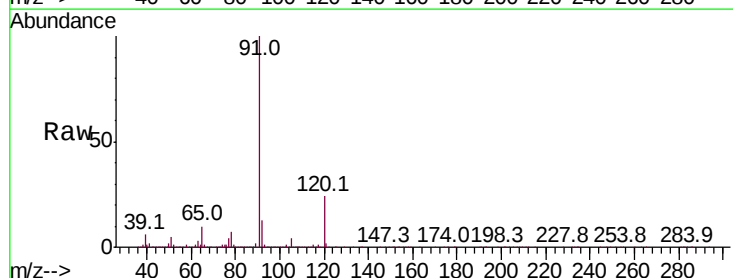
RT: 11.68 min Scan# 1131

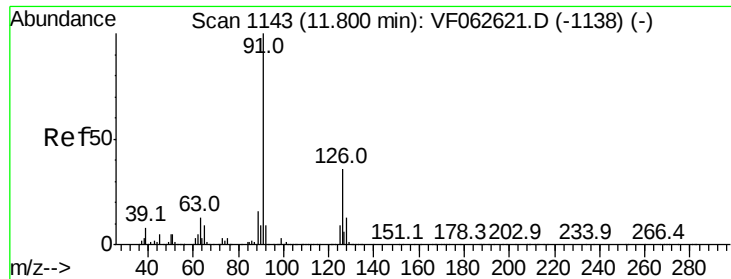
Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion:	91	Resp:	2225981
Ion Ratio	Lower	Upper	
91	100		
120	24.0	12.7	38.1





#79

2-Chlorotoluene

Concen: 59.231 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1290128

Ion Ratio Lower Upper

91 100

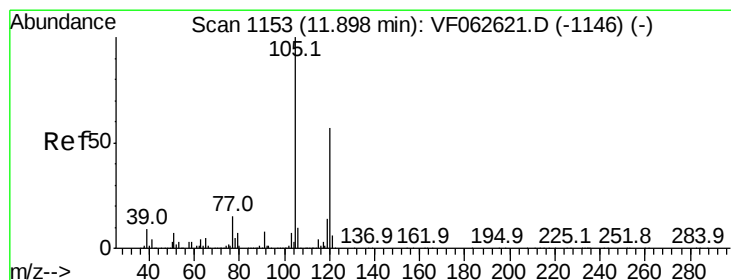
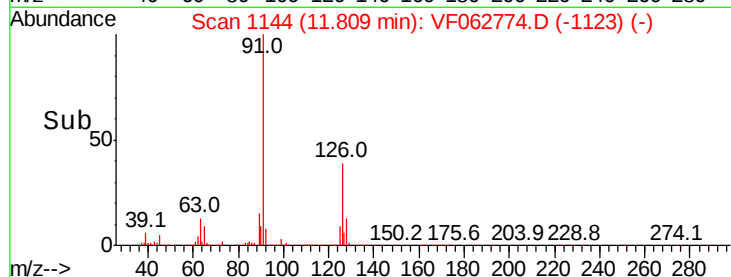
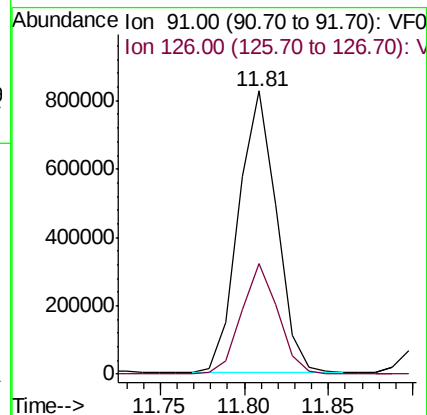
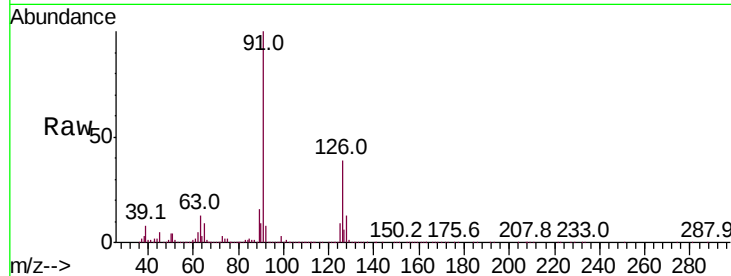
126 38.9 18.1 54.4

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#80

1,3,5-Trimethylbenzene

Concen: 57.156 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF062774.D

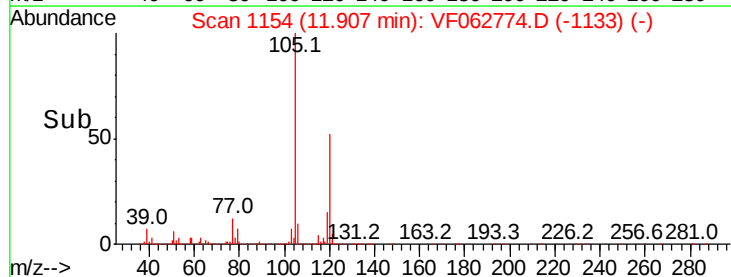
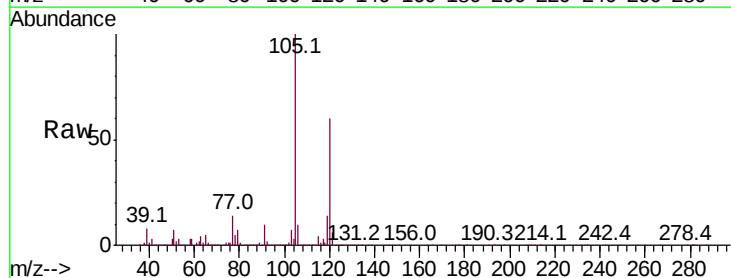
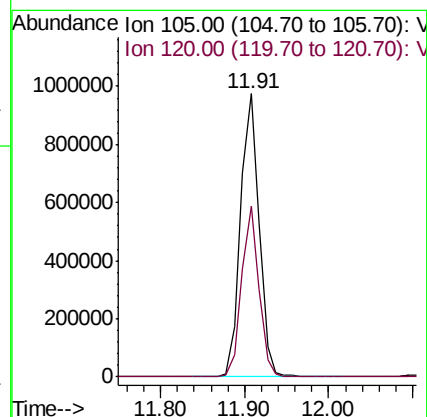
Acq: 29 May 2019 10:24

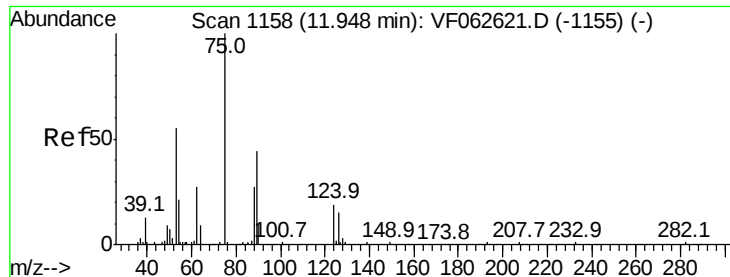
Tgt Ion:105 Resp: 1496705

Ion Ratio Lower Upper

105 100

120 60.2 28.7 86.3





#81

trans-1,4-Dichloro-2-butene

Concen: 58.757 ug/l m

RT: 11.95 min Scan# 1158

Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

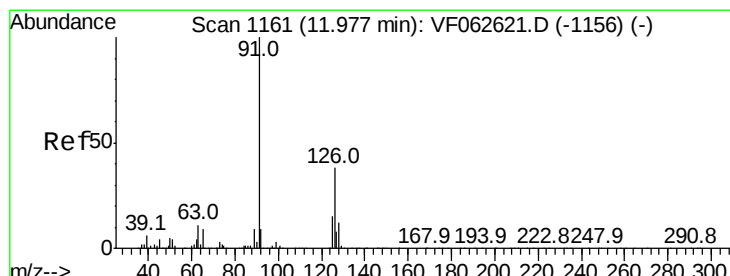
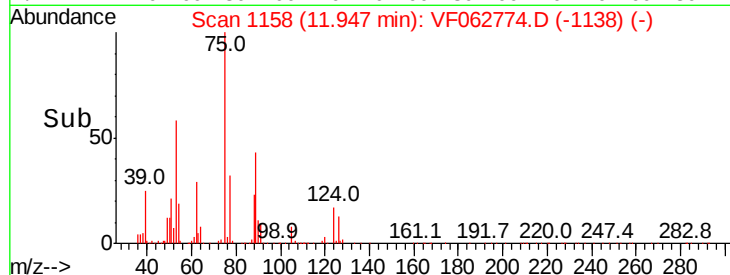
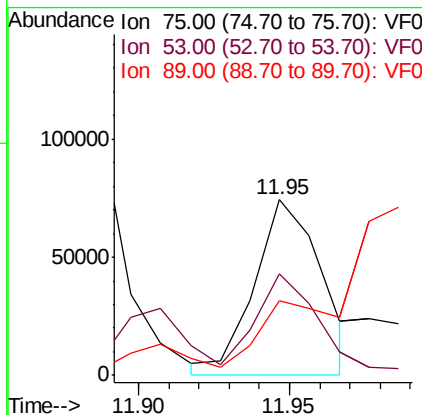
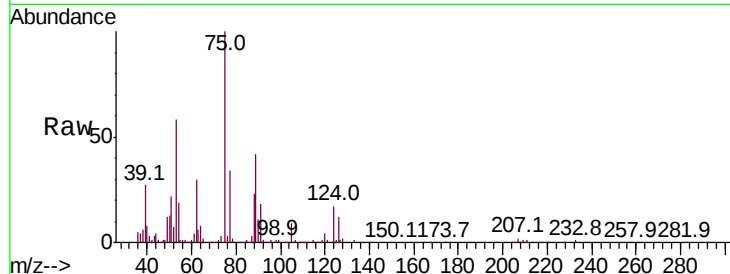
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	114534
Ion	Ratio	Lower	Upper
75	100		
53	57.8	46.9	70.3
89	42.4	36.4	54.6

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#82

4-Chlorotoluene

Concen: 56.790 ug/l

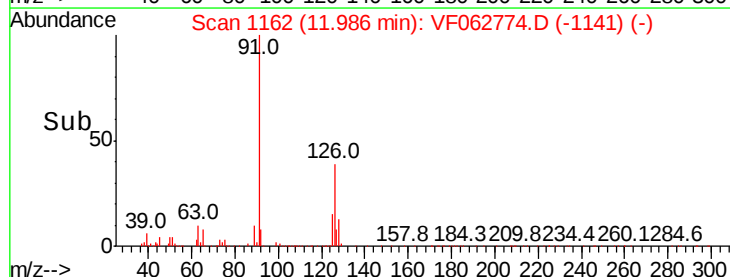
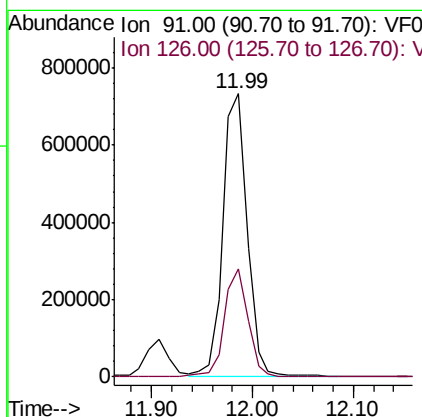
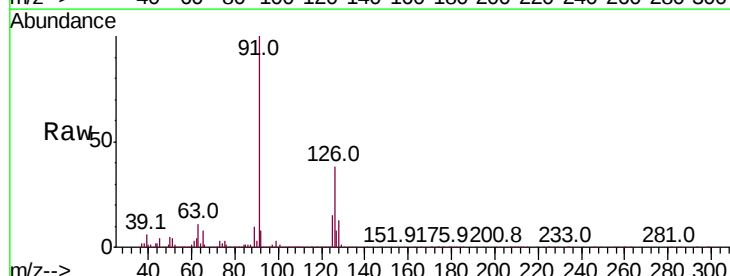
RT: 11.99 min Scan# 1162

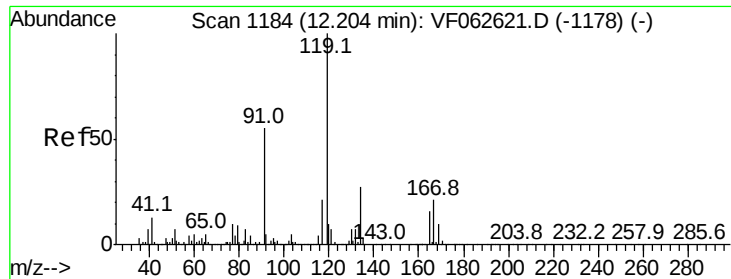
Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion:	91	Resp:	1219810
Ion	Ratio	Lower	Upper
91	100		
126	38.3	19.1	57.1





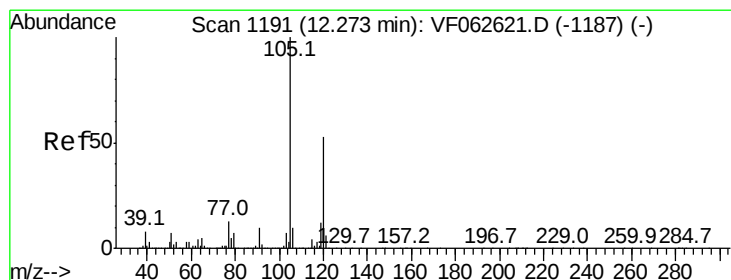
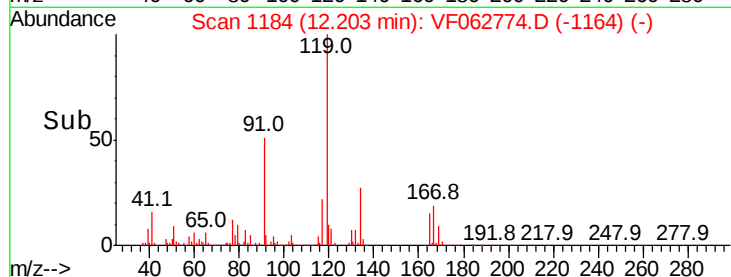
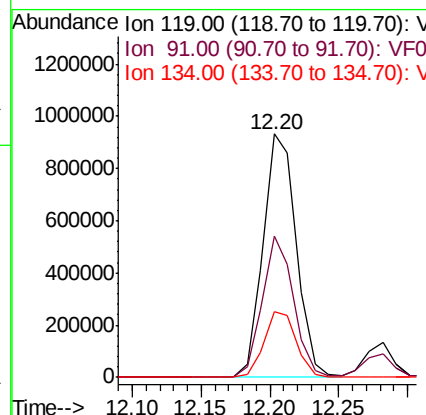
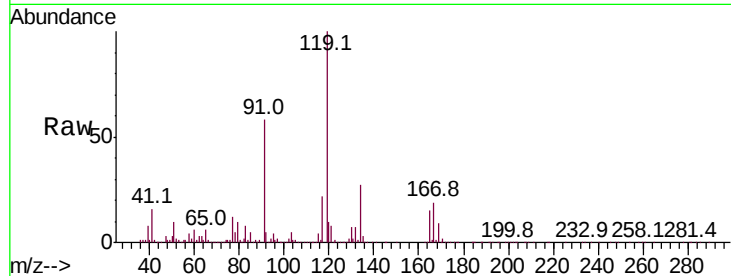
#83
tert-Butylbenzene
Concen: 59.061 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. -0.00 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	58.1	27.3	81.9
134	26.9	13.6	40.7

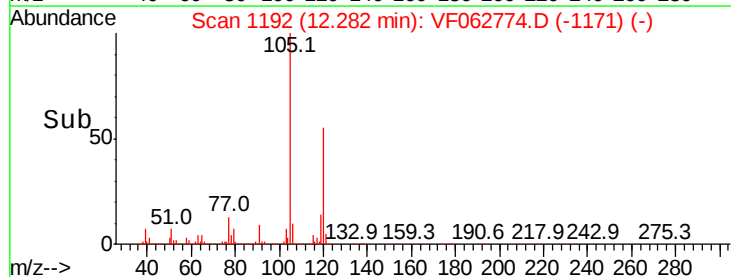
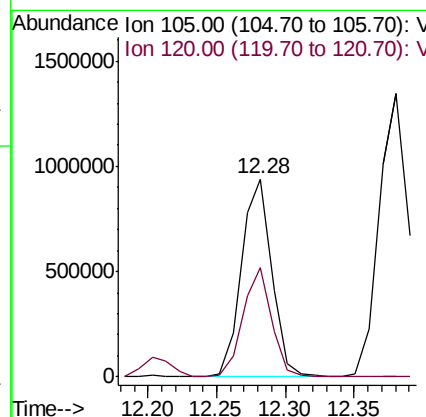
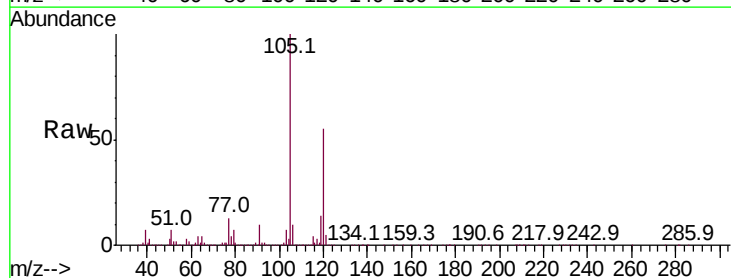
Manual Integrations
APPROVED

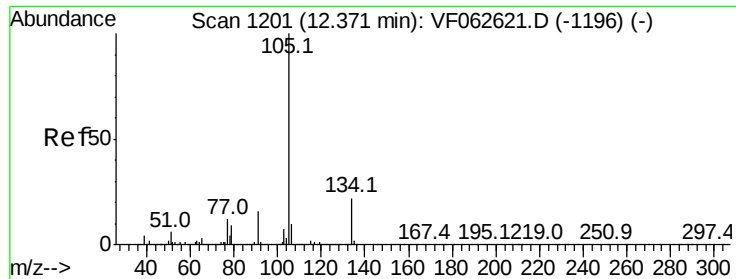
mmdadoda
5/30/2019 11:01:51 AM



#84
1,2,4-Trimethylbenzene
Concen: 56.987 ug/l
RT: 12.28 min Scan# 1192
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	55.5	26.7	80.1





#85

sec-Butylbenzene

Concen: 56.580 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2017314

Ion Ratio Lower Upper

105 100

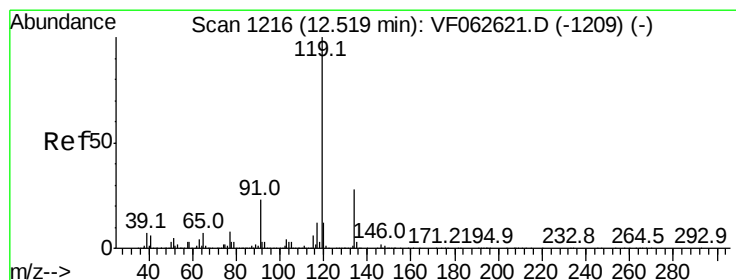
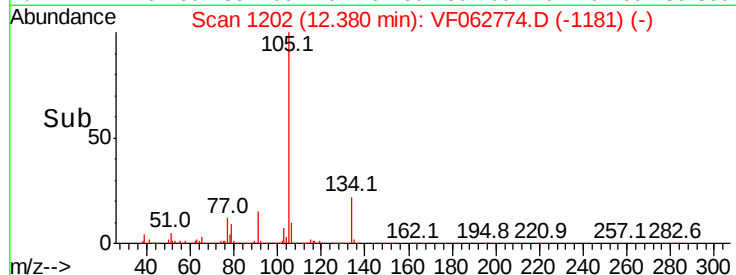
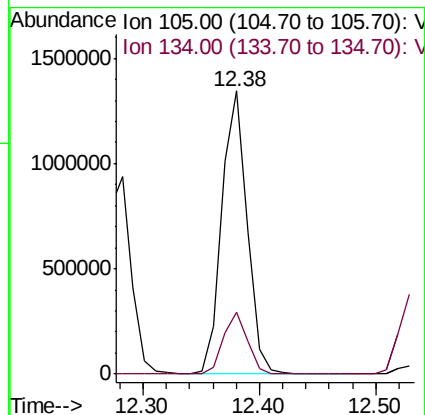
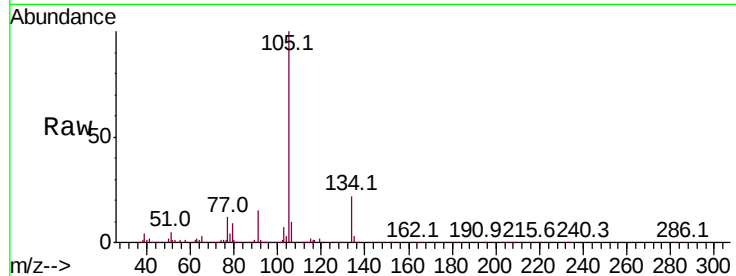
134 22.1 10.8 32.4

Manual Integrations

APPROVED

mmdadoda

5/30/2019 11:01:51 AM



#86

p-Isopropyltoluene

Concen: 56.951 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

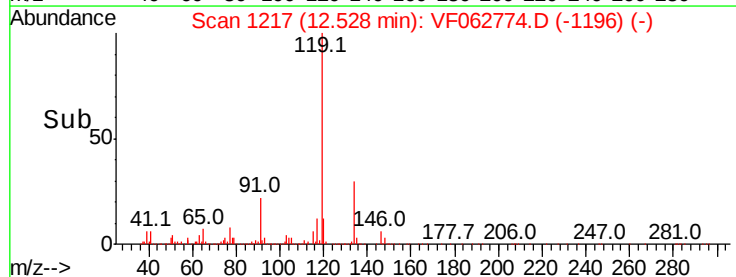
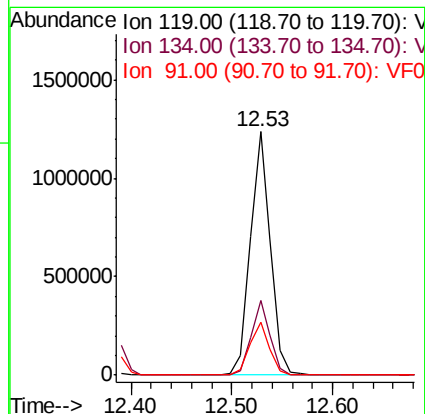
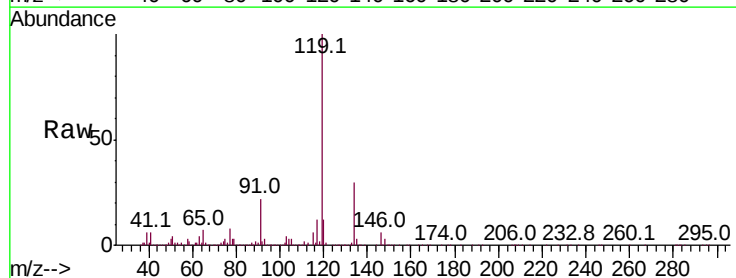
Tgt Ion:119 Resp: 1711223

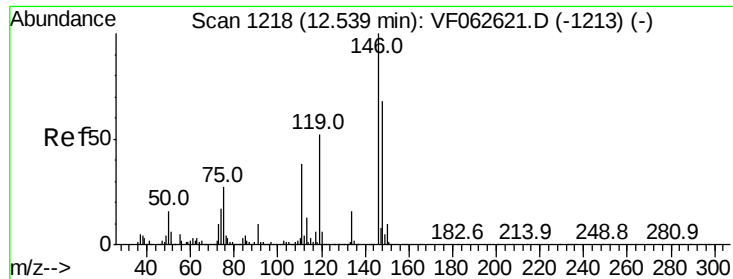
Ion Ratio Lower Upper

119 100

134 30.5 14.1 42.3

91 21.6 11.4 34.2





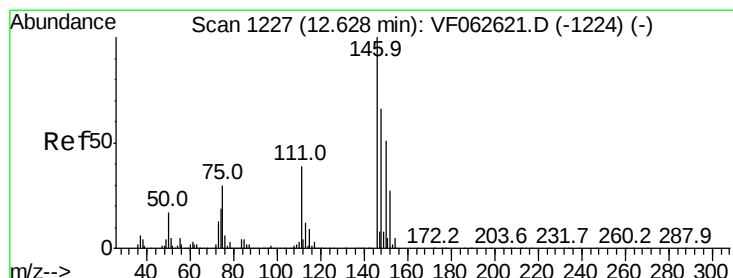
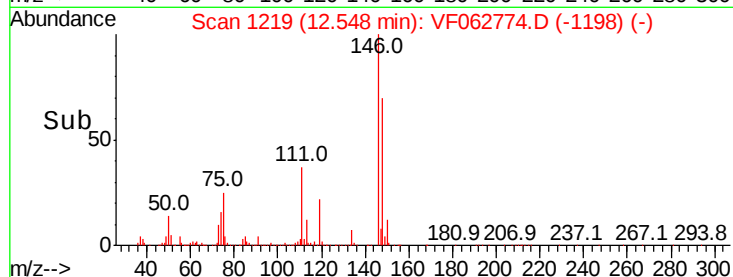
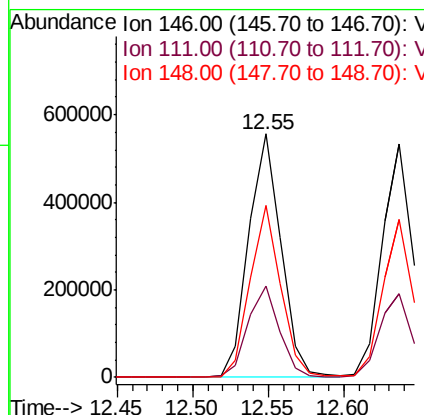
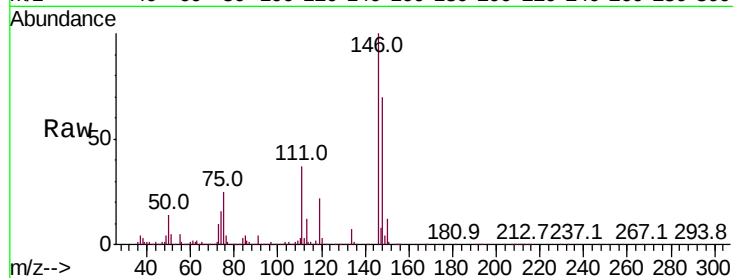
#87
 1,3-Dichlorobenzene
 Concen: 56.710 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.9	56.9
148	70.4	34.0	101.8

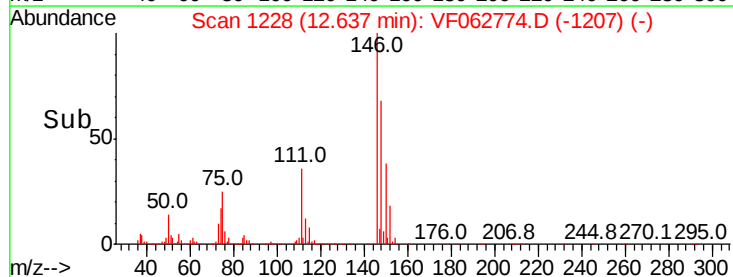
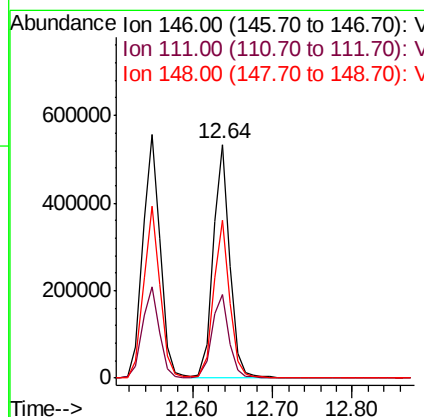
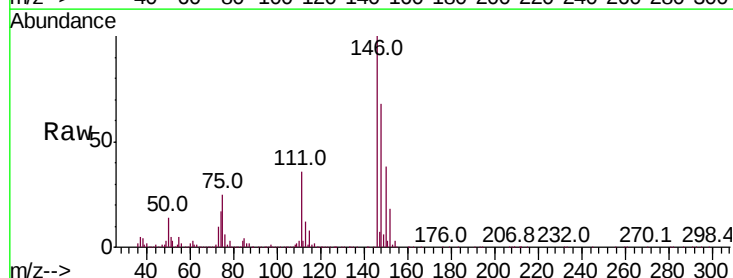
Manual Integrations
 APPROVED

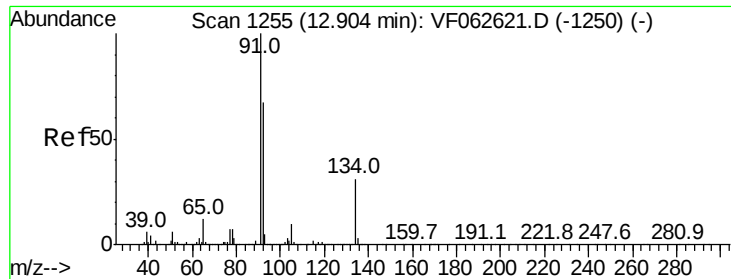
mmdadoda
 5/30/2019 11:01:51 AM



#88
 1,4-Dichlorobenzene
 Concen: 56.288 ug/l
 RT: 12.64 min Scan# 1228
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.6	19.4	58.2
148	67.8	33.2	99.6





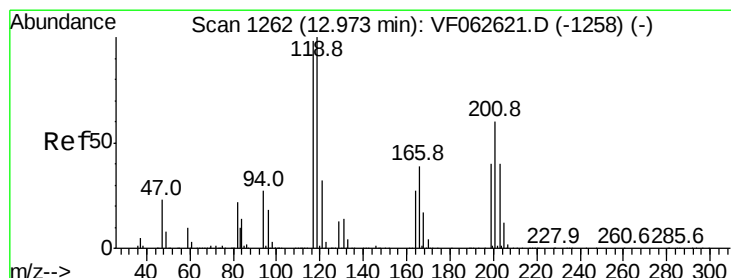
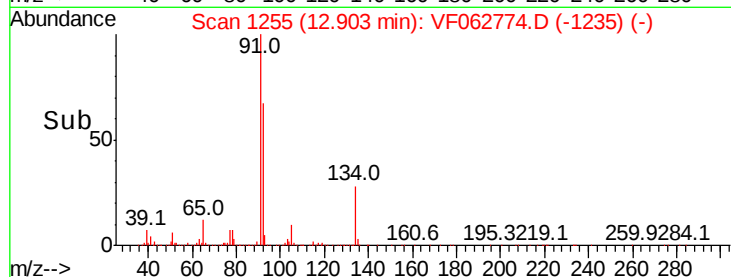
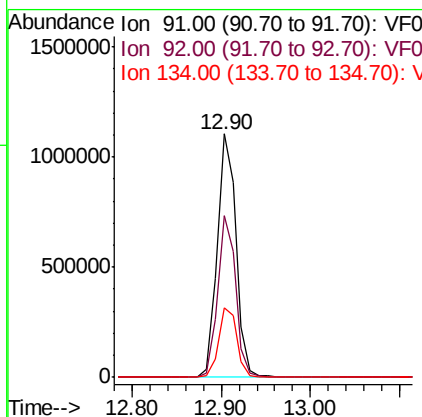
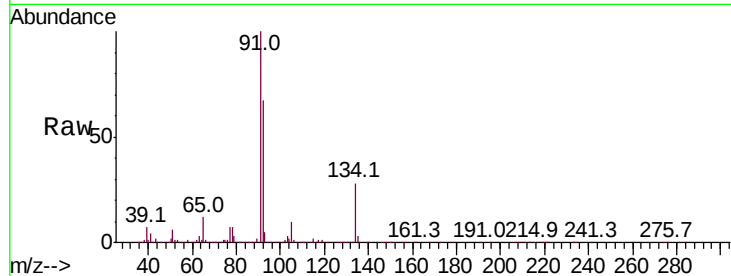
#89
n-Butylbenzene
Concen: 55.054 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	66.6	33.3	99.8
134	28.4	15.4	46.4

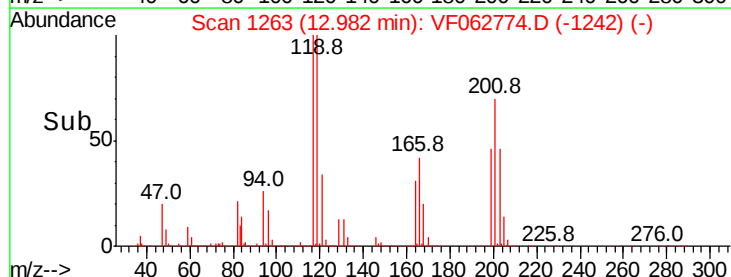
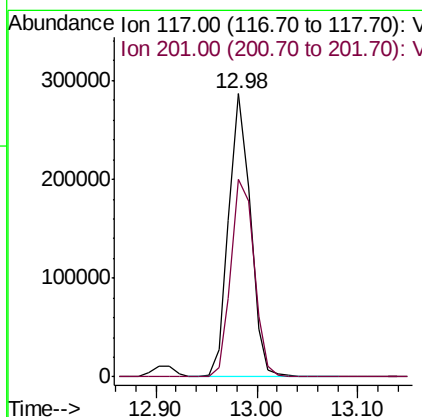
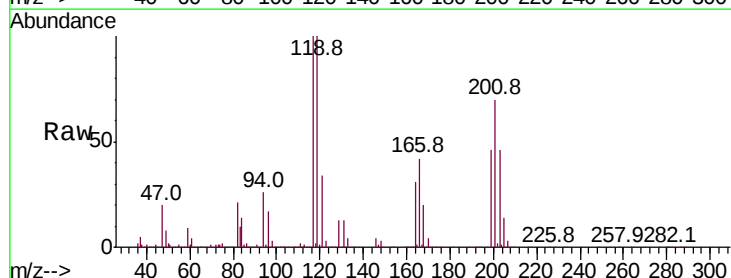
Manual Integrations
APPROVED

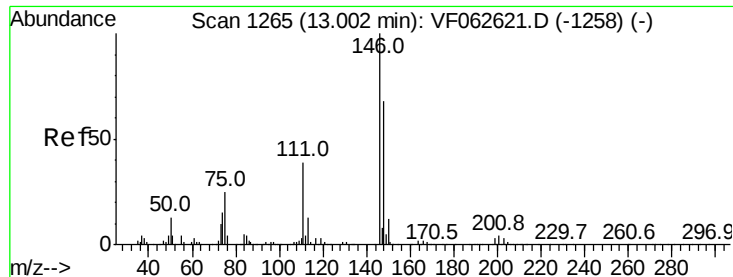
mmdadoda
5/30/2019 11:01:51 AM



#90
Hexachloroethane
Concen: 59.643 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VF062774.D
Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.9	30.7	92.1





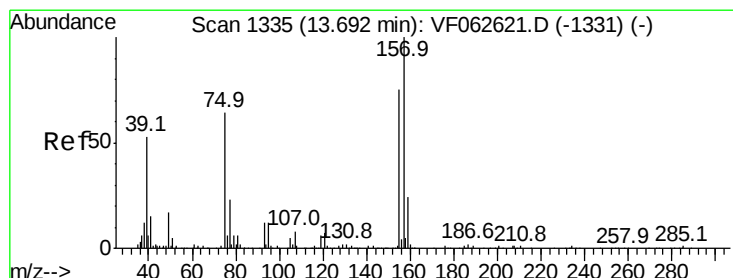
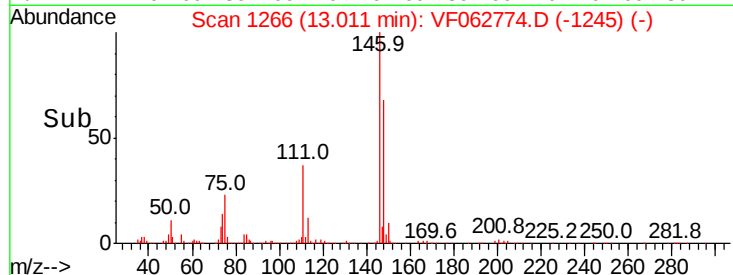
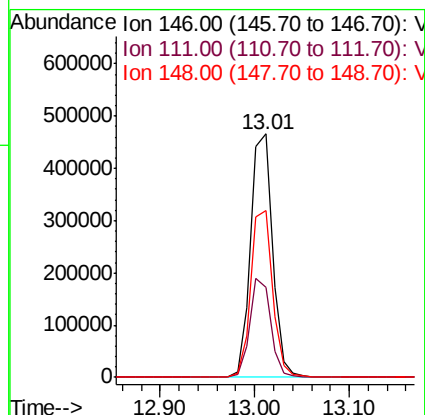
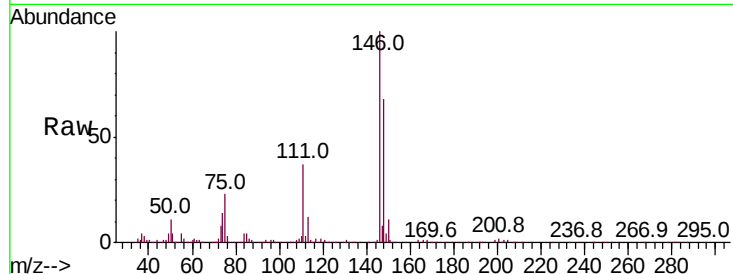
#91
 1,2-Dichlorobenzene
 Concen: 57.247 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	19.8	59.3
148	68.5	34.1	102.2

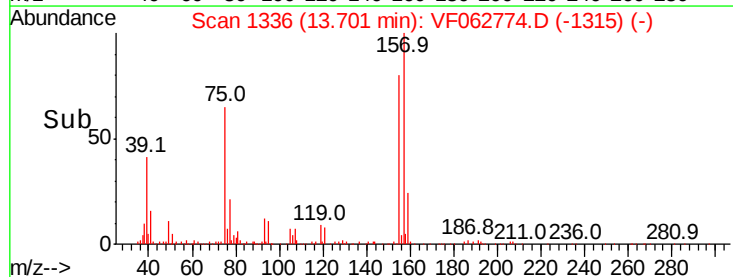
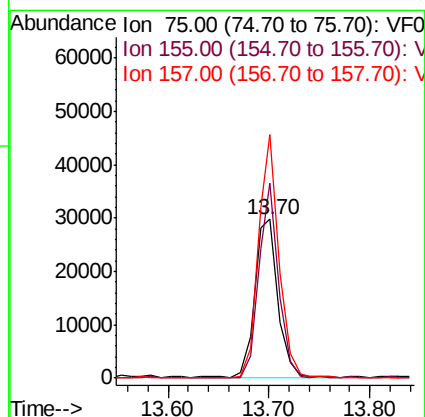
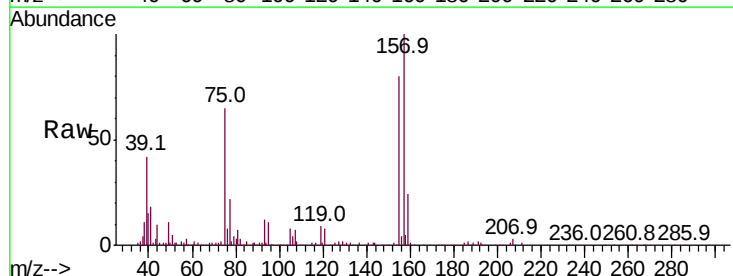
Manual Integrations
 APPROVED

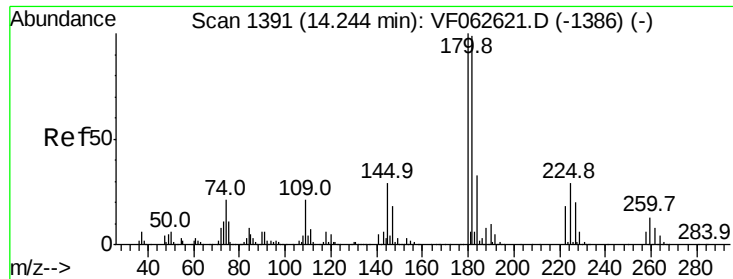
mmdadoda
 5/30/2019 11:01:51 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 60.438 ug/l
 RT: 13.70 min Scan# 1336
 Delta R.T. 0.01 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	122.6	58.1	174.3
157	153.0	77.8	233.4





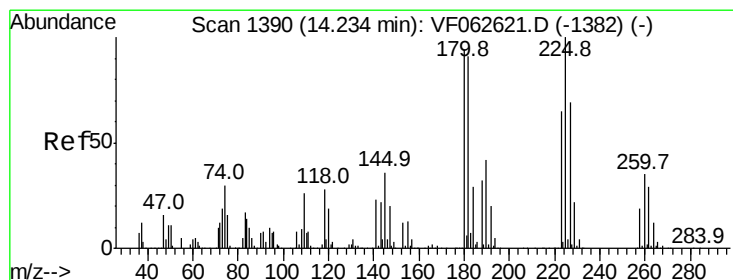
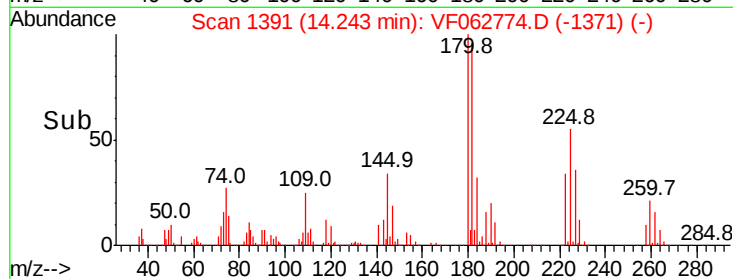
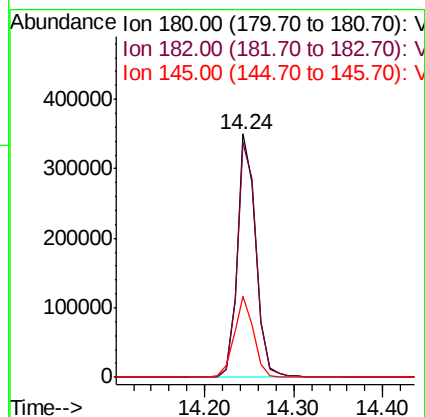
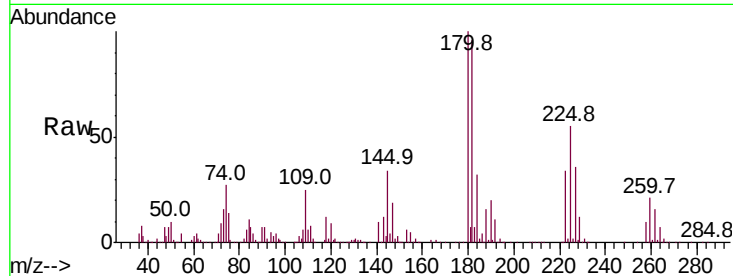
#93
 1,2,4-Trichlorobenzene
 Concen: 54.494 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:	180	Resp:	510651
Ion Ratio	Lower	Upper	
180	100		
182	96.2	49.7	149.1
145	33.5	14.6	44.0

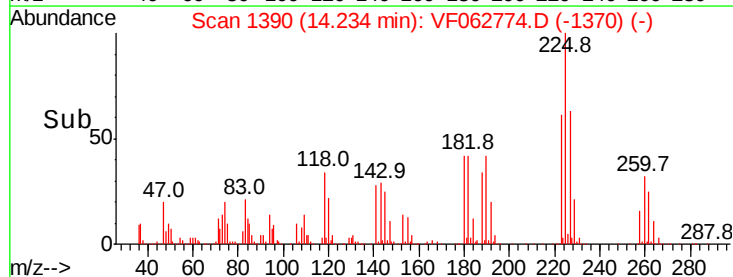
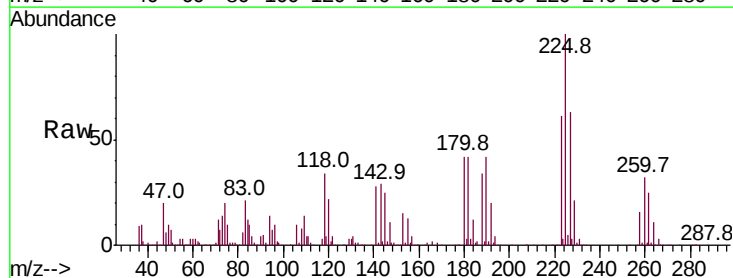
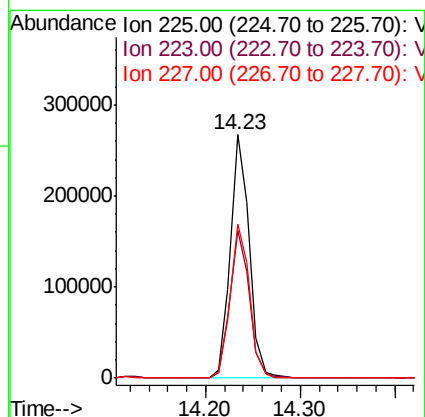
Manual Integrations
 APPROVED

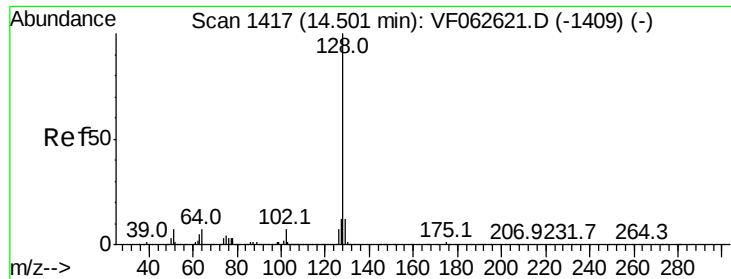
mmdadoda
 5/30/2019 11:01:51 AM



#94
 Hexachlorobutadiene
 Concen: 56.650 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062774.D
 Acq: 29 May 2019 10:24

Tgt Ion:	225	Resp:	370472
Ion Ratio	Lower	Upper	
225	100		
223	60.7	32.5	97.4
227	63.1	34.5	103.5





#95

Naphthalene

Concen: 50.259 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Instrument :

MSVOA_F

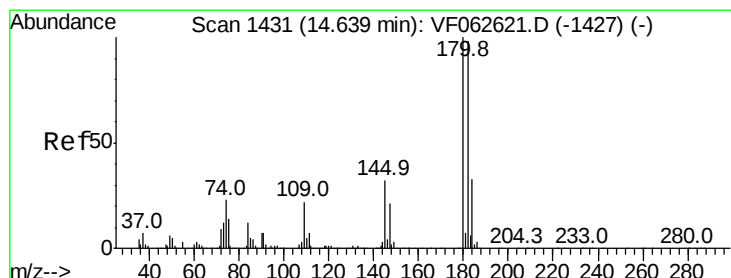
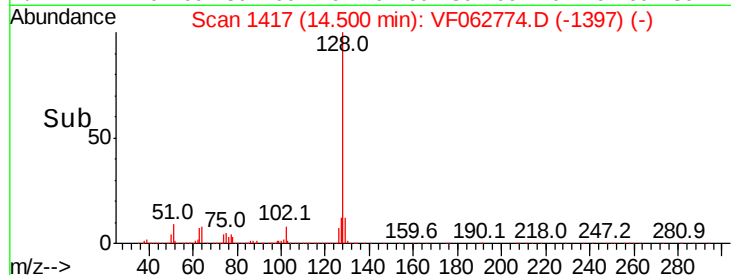
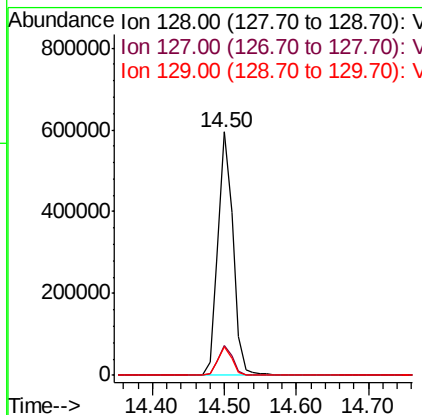
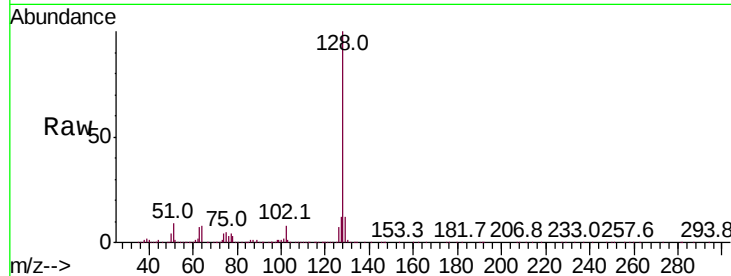
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	855613
Ion Ratio	Lower	Upper	
128	100		
127	12.3	9.7	14.5
129	11.7	9.3	13.9

Manual Integrations
APPROVED

mmdadoda
5/30/2019 11:01:51 AM



#96

1,2,3-Trichlorobenzene

Concen: 52.650 ug/l

RT: 14.65 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VF062774.D

Acq: 29 May 2019 10:24

Tgt Ion:	180	Resp:	467333
Ion Ratio	Lower	Upper	
180	100		
182	100.9	48.9	146.7
145	29.1	16.1	48.2

