

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060571.D
 Acq On : 5 Nov 2018 14:01
 Operator : VA/AP
 Sample : VF1105SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/6/2018 12:53:47 PM

Quant Time: Nov 05 13:45:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	260651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	434164	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	403433	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	221468	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	131819	50.05	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	100.10%	
35) Dibromofluoromethane	4.10	113	168380	50.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.40%	
50) Toluene-d8	7.54	98	474097	47.71	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	95.42%	
62) 4-Bromofluorobenzene	11.40	95	231755	53.32	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	106.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	92002	32.368	ug/l	97
3) Chloromethane	1.09	50	69756	30.579	ug/l	99
4) Vinyl Chloride	1.14	62	62959	29.951	ug/l	94
5) Bromomethane	1.30	94	29081	24.646	ug/l	91
6) Chloroethane	1.37	64	19688	23.678	ug/l	99
7) Trichlorofluoromethane	1.47	101	94388	23.991	ug/l	94
8) Diethyl Ether	1.62	74	15418	21.144	ug/l	67
9) 1,1,2-Trichlorotrifluoroet	1.81	101	53447	23.773	ug/l	93
10) Methyl Iodide	1.87	142	92570	25.021	ug/l	91
11) Tert butyl alcohol	2.56	59	15645	109.630	ug/l #	90
12) 1,1-Dichloroethene	1.77	96	42516	22.453	ug/l	99
13) Acrolein	2.00	56	13048	135.641	ug/l	97
14) Allyl chloride	2.09	41	81876	26.481	ug/l	97
15) Acrylonitrile	2.93	53	33152	105.626	ug/l	98
16) Acetone	2.22	43	78107	125.864	ug/l	97
17) Carbon Disulfide	1.76	76	143159m	26.840	ug/l	
18) Methyl Acetate	2.33	43	19659	20.678	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	94272	21.297	ug/l	99
20) Methylene Chloride	2.17	84	53904	26.756	ug/l	96
21) trans-1,2-Dichloroethene	2.30	96	53040	26.699	ug/l	93
22) Diisopropyl ether	2.79	45	160307	24.471	ug/l #	98
23) Vinyl Acetate	3.17	43	424438	107.837	ug/l	96
24) 1,1-Dichloroethane	2.86	63	85687	22.602	ug/l	99
25) 2-Butanone	4.32	43	133359	94.290	ug/l	100
26) 2,2-Dichloropropane	3.59	77	71062	25.051	ug/l	99
27) cis-1,2-Dichloroethene	3.46	96	83627	22.052	ug/l	99
28) Bromochloromethane	3.71	49	49861	20.957	ug/l	96
29) Tetrahydrofuran	4.05	42	51929	106.758	ug/l	99
30) Chloroform	3.84	83	136020	22.678	ug/l	93
31) Cyclohexane	3.68	56	119041	22.754	ug/l	98
32) 1,1,1-Trichloroethane	4.08	97	103509	24.709	ug/l	98
36) 1,1-Dichloropropene	4.27	75	107422	22.471	ug/l	99
37) Ethyl Acetate	4.10	43	42500	18.520	ug/l	89
38) Carbon Tetrachloride	3.97	117	93396	22.864	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060571.D
 Acq On : 5 Nov 2018 14:01
 Operator : VA/AP
 Sample : VF1105SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF1105SBSD01

Manual Integrations
 APPROVED

MMDadoda
 11/6/2018 12:53:47 PM

Quant Time: Nov 05 13:45:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	145552	24.950	ug/l	94
40) Benzene	4.62	78	269506	23.226	ug/l	99
41) Methacrylonitrile	4.73	41	25514	19.633	ug/l	99
42) 1,2-Dichloroethane	4.93	62	67564	20.287	ug/l	95
43) Isopropyl Acetate	6.95	43	65192	22.459	ug/l #	94
44) Trichloroethene	5.49	130	76679	21.987	ug/l	95
45) 1,2-Dichloropropane	6.22	63	65610	22.108	ug/l	99
46) Dibromomethane	6.07	93	40127	21.313	ug/l	95
47) Bromodichloromethane	6.37	83	98433	21.675	ug/l #	98
48) Methyl methacrylate	6.70	41	40131	21.998	ug/l	89
49) 1,4-Dioxane	6.69	88	7615	399.023	ug/l #	88
51) 4-Methyl-2-Pentanone	8.24	43	234307	120.036	ug/l	99
52) Toluene	7.61	92	164641	21.781	ug/l	99
53) t-1,3-Dichloropropene	8.26	75	81863	20.741	ug/l	98
54) cis-1,3-Dichloropropene	7.28	75	112232	22.506	ug/l	98
55) 1,1,2-Trichloroethane	8.48	97	46949	21.344	ug/l	94
56) Ethyl methacrylate	8.61	69	62526	22.094	ug/l	95
57) 1,3-Dichloropropane	8.84	76	81009	20.989	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.61	63	21972	109.665	ug/l	100
59) 2-Hexanone	9.47	43	187535	133.124	ug/l	99
60) Dibromochloromethane	8.71	129	63042	20.493	ug/l	88
61) 1,2-Dibromoethane	8.97	107	49717	21.493	ug/l	93
64) Tetrachloroethene	8.14	164	64412	20.372	ug/l	99
65) Chlorobenzene	9.79	112	175755	21.303	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	75267	21.591	ug/l	97
67) Ethyl Benzene	9.89	91	341430	22.805	ug/l	100
68) m/p-Xylenes	10.12	106	249467	44.235	ug/l	96
69) o-Xylene	10.70	106	137780	22.374	ug/l	95
70) Styrene	10.78	104	190479	21.351	ug/l	96
71) Bromoform	10.77	173	34358	19.083	ug/l #	96
73) Isopropylbenzene	11.11	105	391085	22.643	ug/l	94
74) N-amyl acetate	11.36	43	108651	22.894	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.68	83	70155	22.253	ug/l	97
76) 1,2,3-Trichloropropane	11.86	75	33824	21.831	ug/l	96
77) Bromobenzene	11.49	156	80242	21.232	ug/l	93
78) n-propylbenzene	11.59	91	453118	22.423	ug/l	100
79) 2-Chlorotoluene	11.71	91	255835	22.168	ug/l	100
80) 1,3,5-Trimethylbenzene	11.81	105	313834	22.044	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.86	75	26176m	21.497	ug/l	
82) 4-Chlorotoluene	11.89	91	267293	22.199	ug/l	97
83) tert-Butylbenzene	12.12	119	332226	22.843	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	310975	22.305	ug/l	98
85) sec-Butylbenzene	12.30	105	451806	22.582	ug/l	99
86) p-Isopropyltoluene	12.45	119	372923	22.634	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	163730	22.072	ug/l	94
88) 1,4-Dichlorobenzene	12.56	146	152221	21.635	ug/l	97
89) n-Butylbenzene	12.84	91	378680	21.116	ug/l	96
90) Hexachloroethane	12.91	117	90081	21.499	ug/l	77
91) 1,2-Dichlorobenzene	12.94	146	145778	21.006	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8045	14.688	ug/l	79

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF110518\
Data File : VF060571.D
Acq On : 5 Nov 2018 14:01
Operator : VA/AP
Sample : VF1105SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

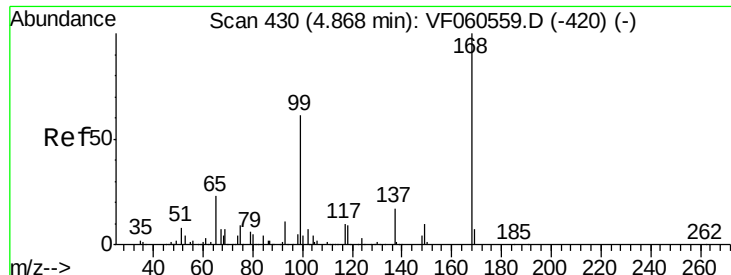
Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM

Quant Time: Nov 05 13:45:52 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	97477	20.675	ug/l	95
94) Hexachlorobutadiene	14.18	225	60263	19.726	ug/l	97
95) Naphthalene	14.45	128	192129	20.360	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	88018	19.763	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion:168 Resp: 260651

Ion Ratio Lower Upper

168 100

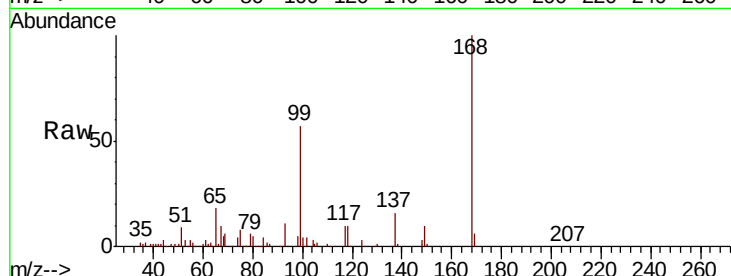
99 57.3 48.6 72.8

Manual Integrations

APPROVED

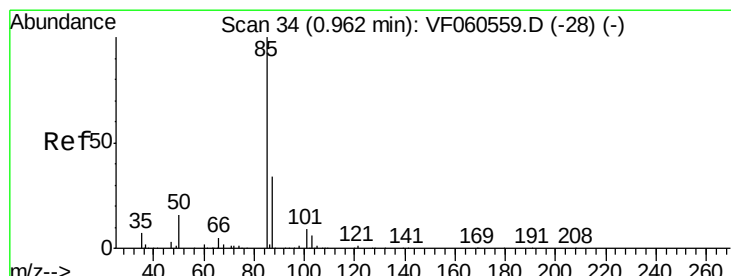
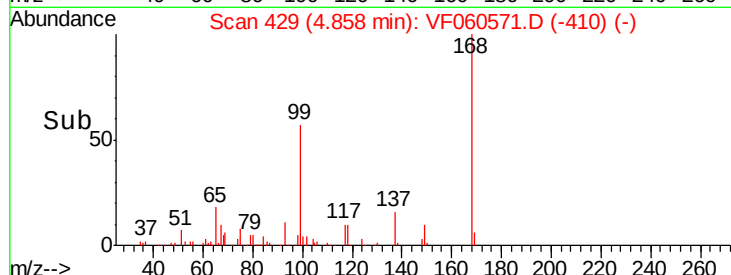
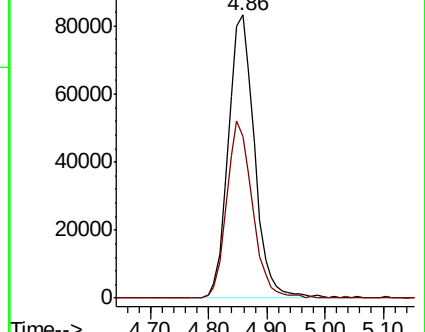
MMDadoda

11/6/2018 12:53:47 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 32.368 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060571.D

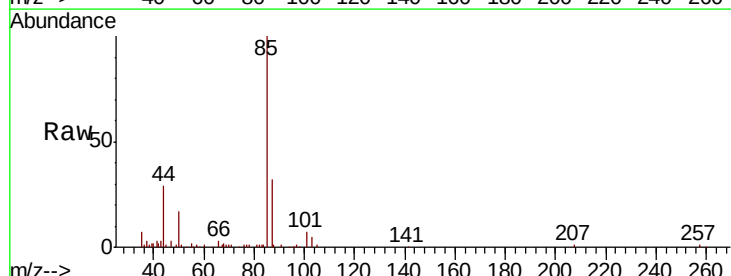
Acq: 5 Nov 2018 14:01

Tgt Ion: 85 Resp: 92002

Ion Ratio Lower Upper

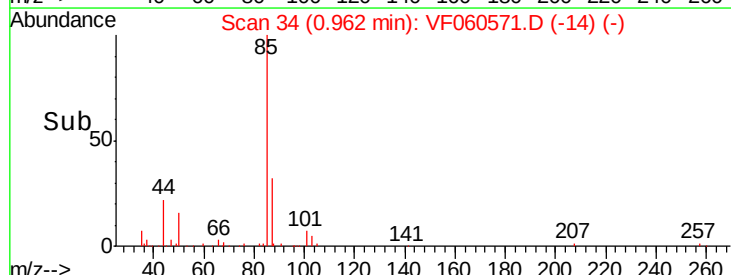
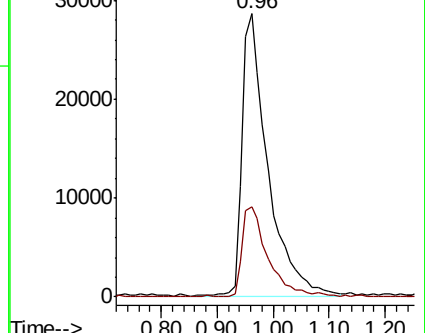
85 100

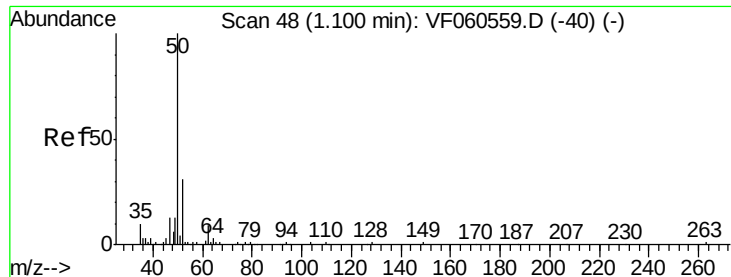
87 32.0 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 30.579 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion: 50 Resp: 69756

Ion Ratio Lower Upper

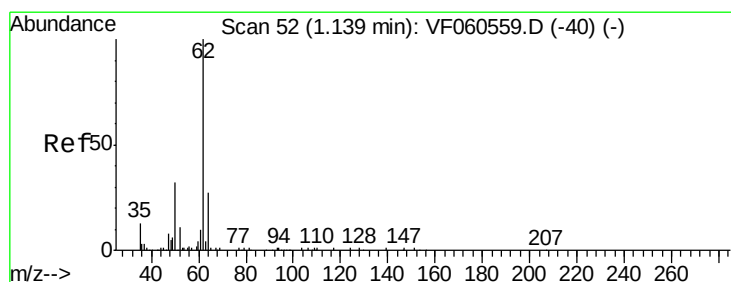
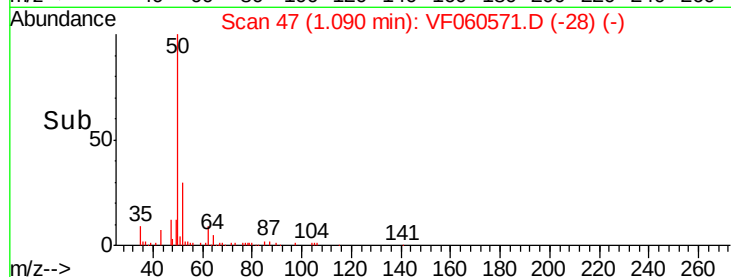
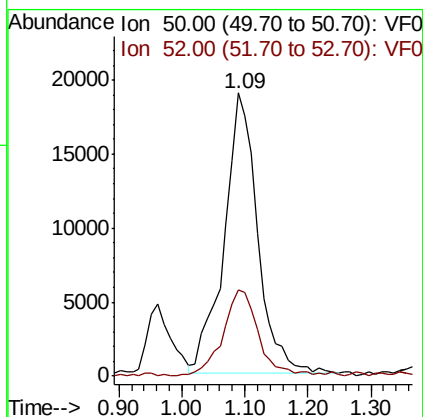
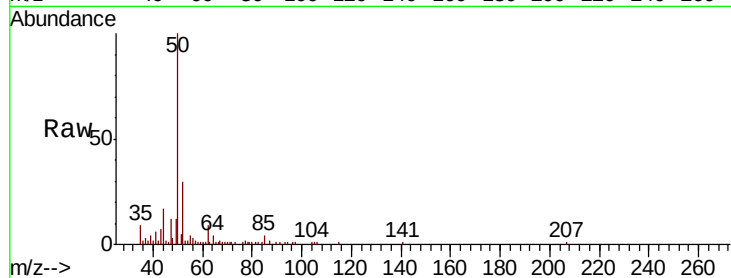
50 100

52 30.4 24.0 36.0

Manual Integrations
APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#4

Vinyl Chloride

Concen: 29.951 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF060571.D

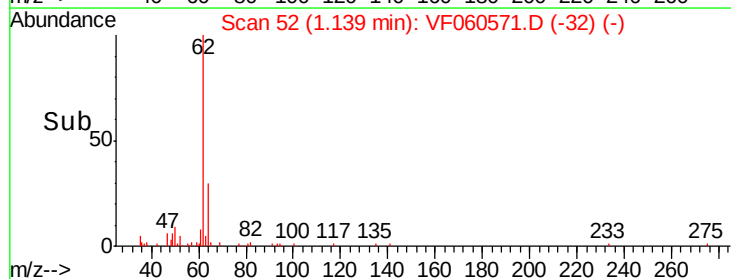
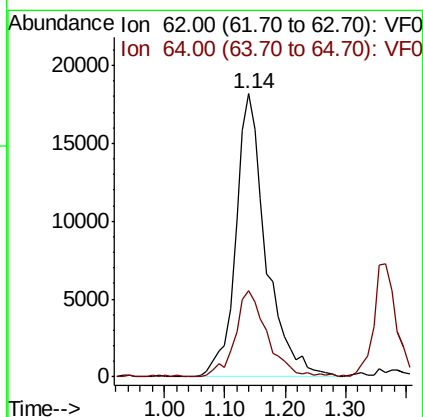
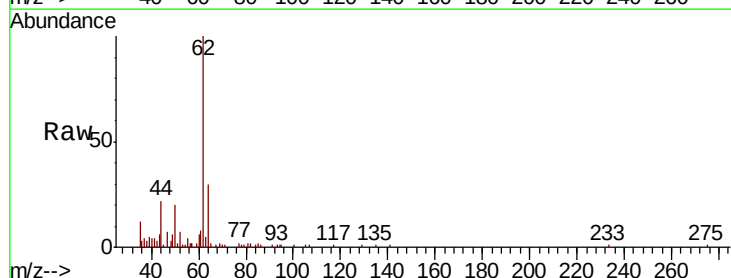
Acq: 5 Nov 2018 14:01

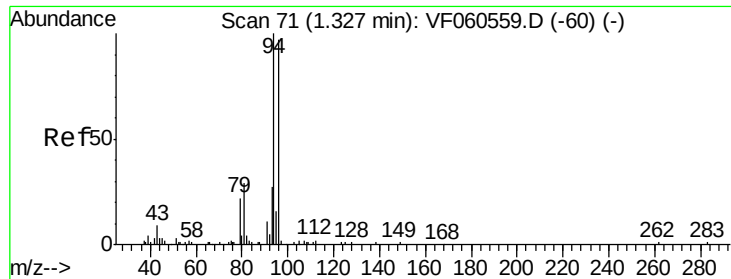
Tgt Ion: 62 Resp: 62959

Ion Ratio Lower Upper

62 100

64 30.4 21.8 32.6





#5

Bromomethane

Concen: 24.646 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.03 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBSD01

Tot Ion: 94 Resp: 29081

Ion Ratio Lower Upper

94 100

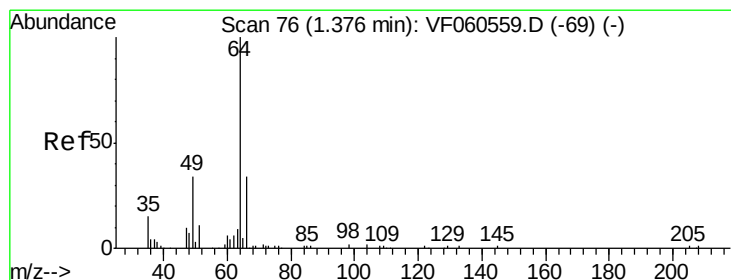
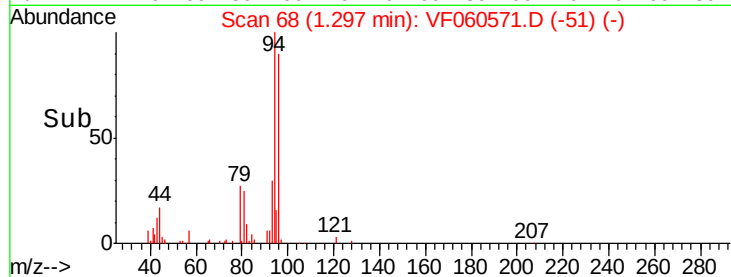
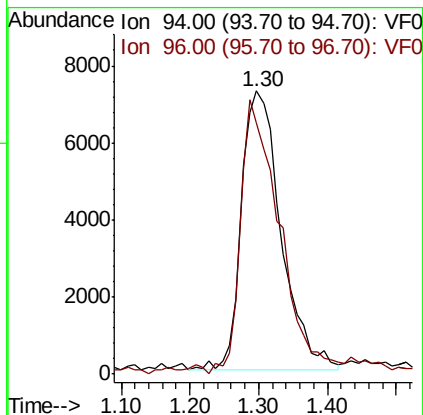
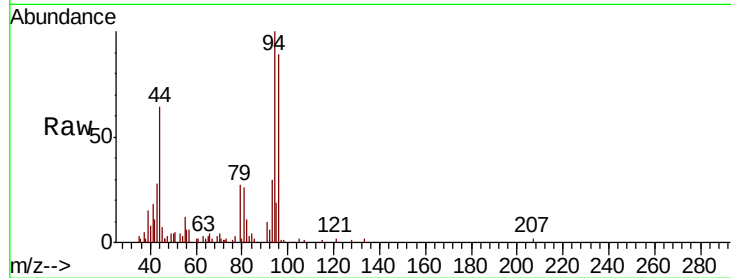
96 88.8 77.9 116.9

Manual Integrations

APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#6

Chloroethane

Concen: 23.678 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.01 min

Lab File: VF060571.D

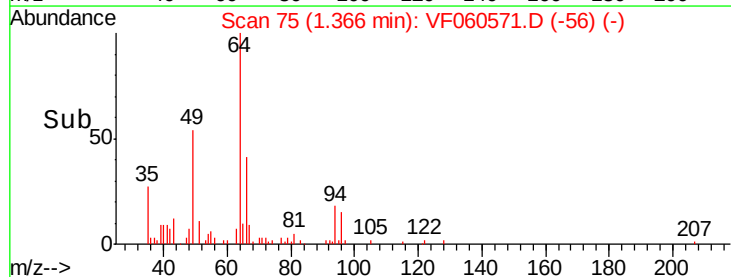
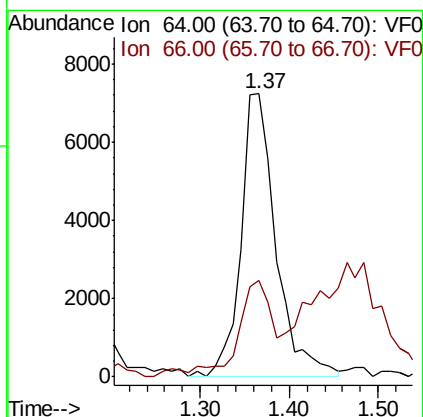
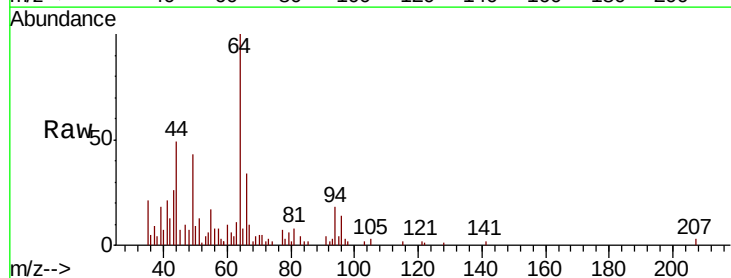
Acq: 5 Nov 2018 14:01

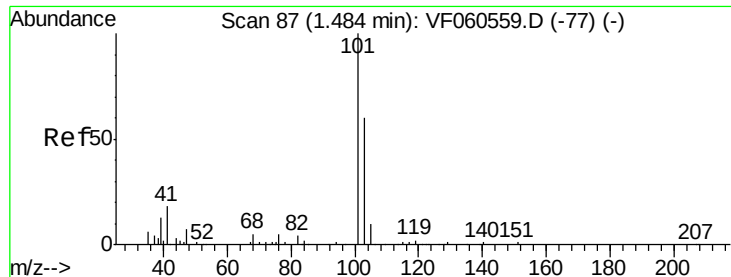
Tgt Ion: 64 Resp: 19688

Ion Ratio Lower Upper

64 100

66 34.3 27.8 41.8





#7

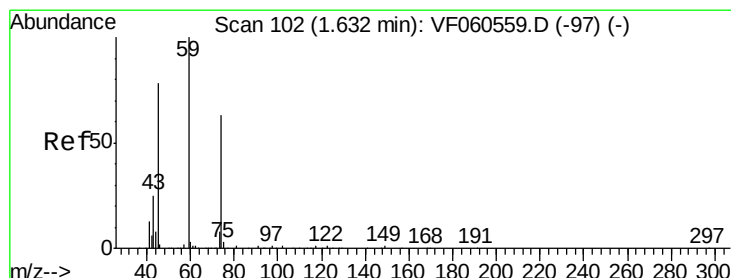
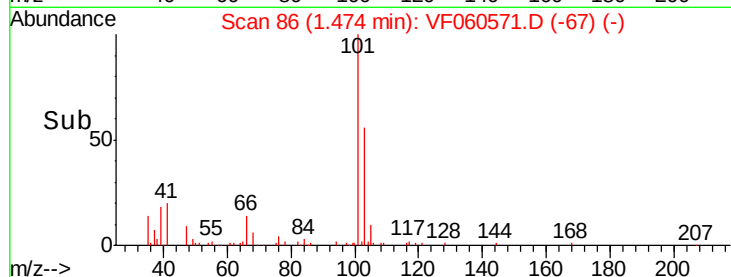
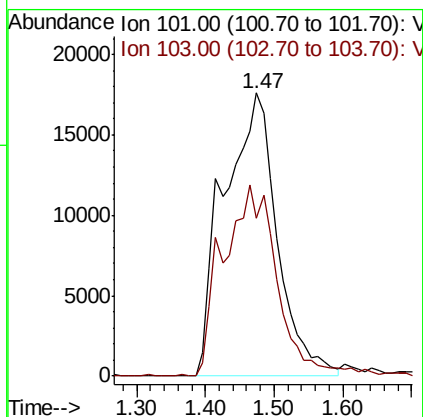
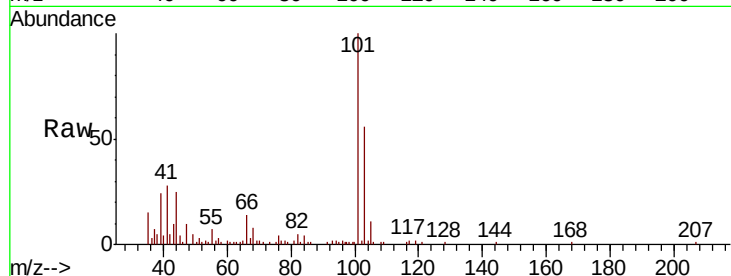
Trichlorofluoromethane
Concen: 23.991 ug/l
RT: 1.47 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	55.6	48.0	72.0

Manual Integrations
APPROVED

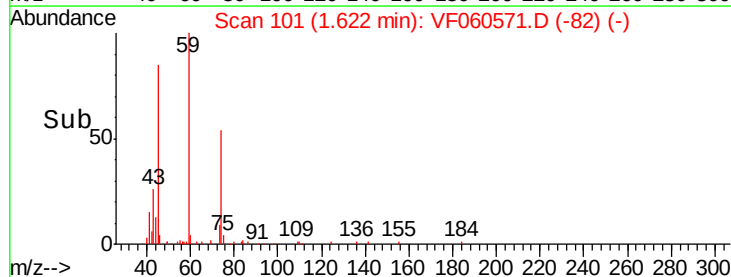
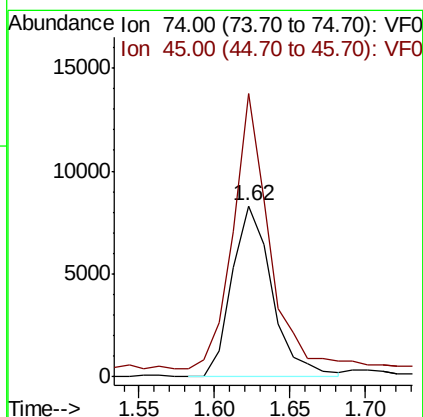
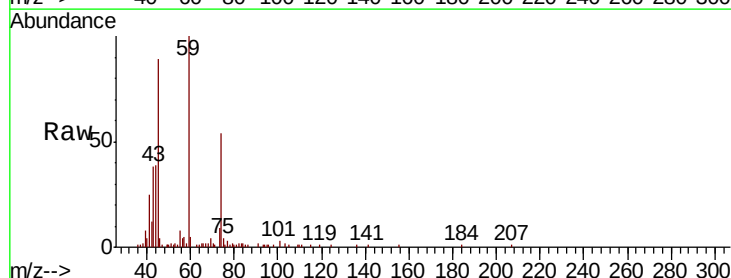
MMDadoda
11/6/2018 12:53:47 PM

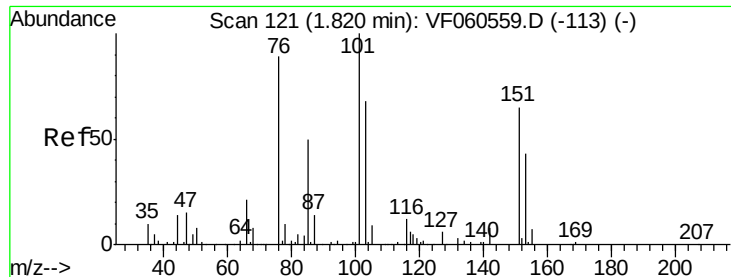


#8

Diethyl Ether
Concen: 21.144 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
74	100		
45	165.5	63.8	191.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.773 ug/l

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

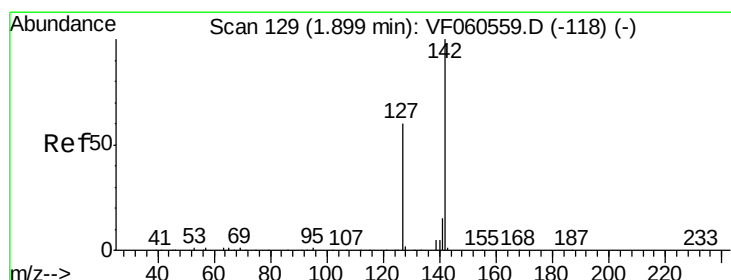
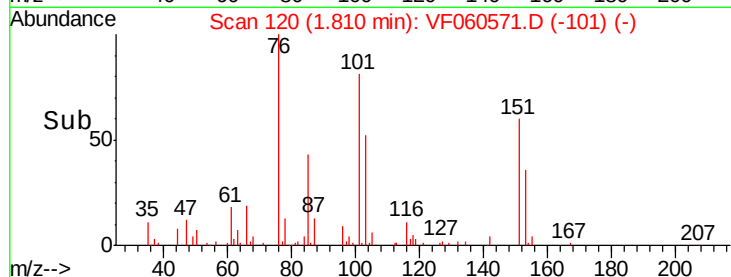
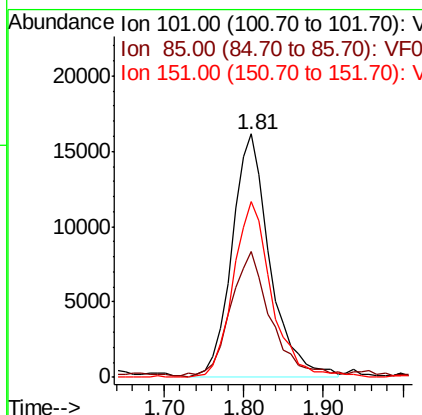
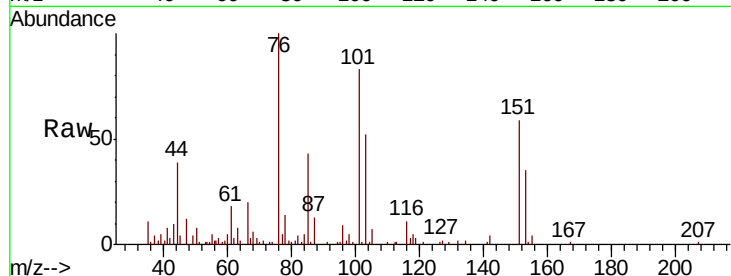
ClientSampleId :

VF1105SBS01

Tot Ion:	101	Resp:	53447
Ion Ratio	Lower	Upper	
101	100		
85	51.7	39.8	59.6
151	72.0	50.8	76.2

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#10

Methyl Iodide

Concen: 25.021 ug/l

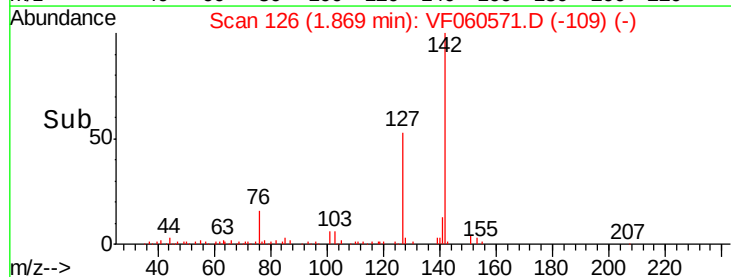
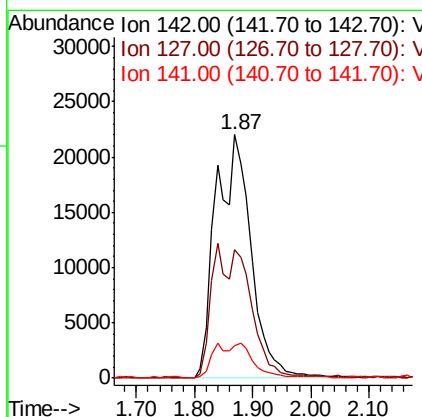
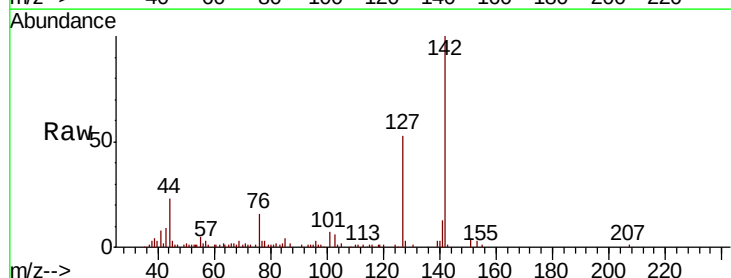
RT: 1.87 min Scan# 126

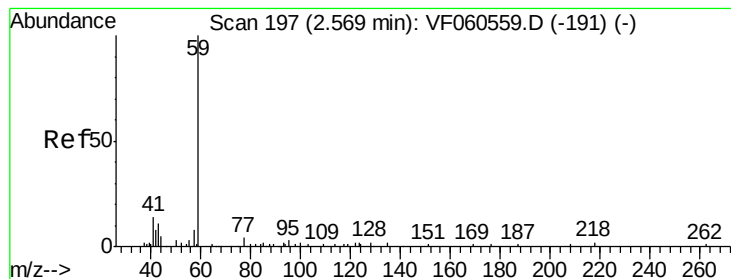
Delta R.T. -0.03 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	142	Resp:	92570
Ion Ratio	Lower	Upper	
142	100		
127	52.6	47.8	71.6
141	13.2	12.7	19.1





#11

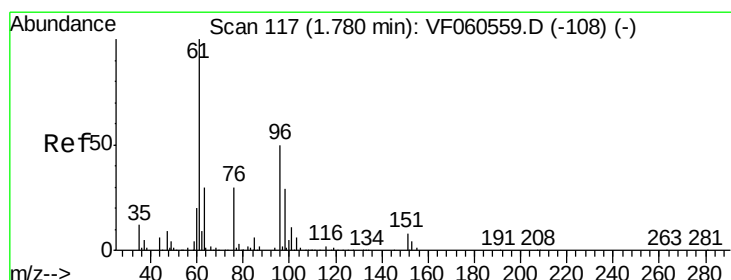
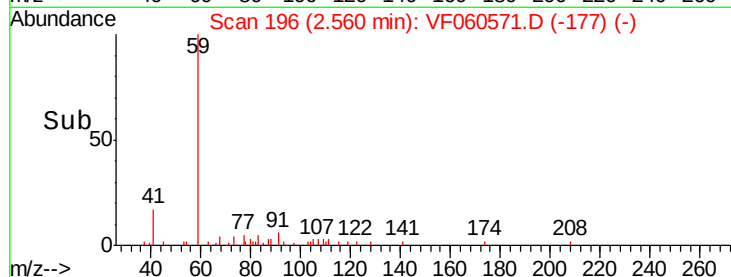
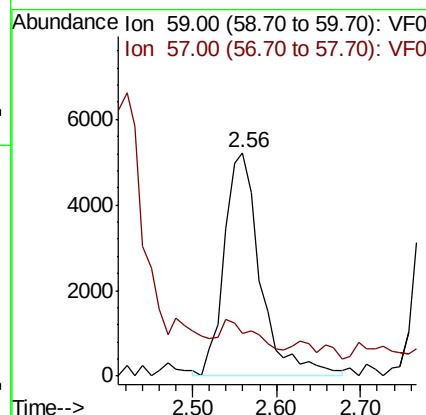
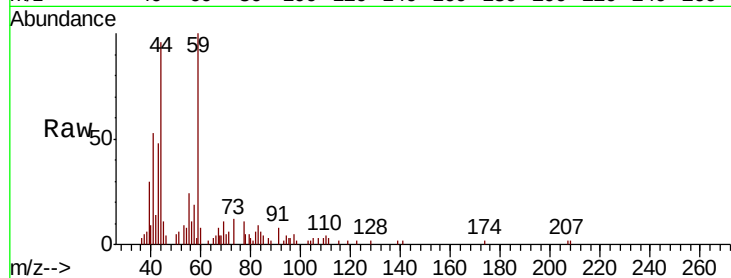
Tert butyl alcohol
Concen: 109.630 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	18.9	19.0	28.4#

Manual Integrations
APPROVED

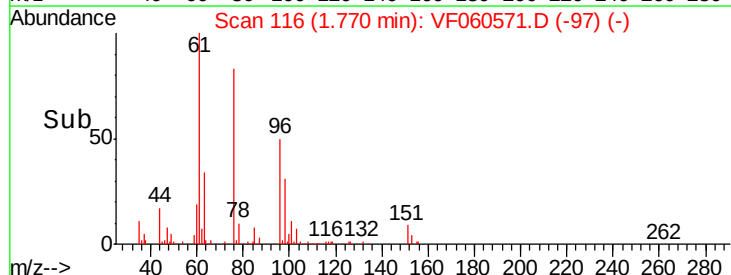
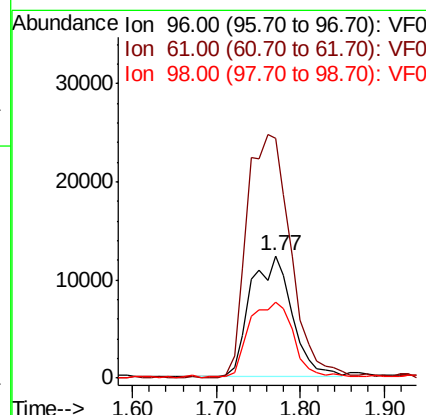
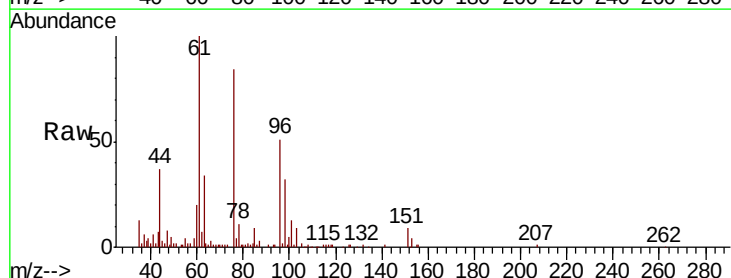
MMDadoda
11/6/2018 12:53:47 PM

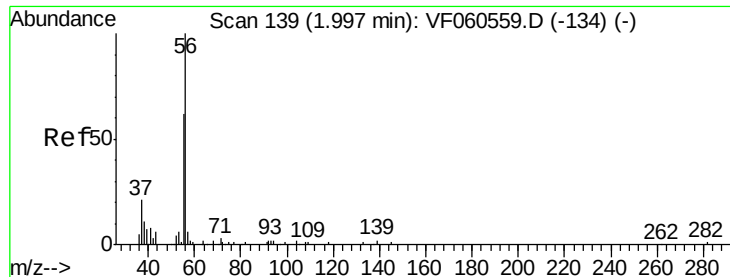


#12

1,1-Dichloroethene
Concen: 22.453 ug/l
RT: 1.77 min Scan# 116
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	196.8	158.1	237.1
98	62.1	47.0	70.6





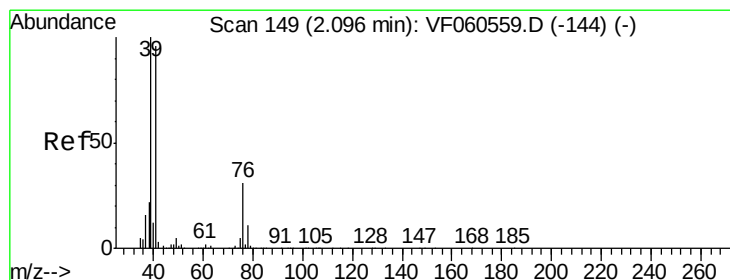
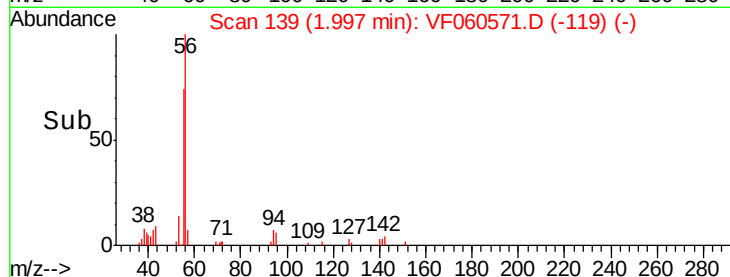
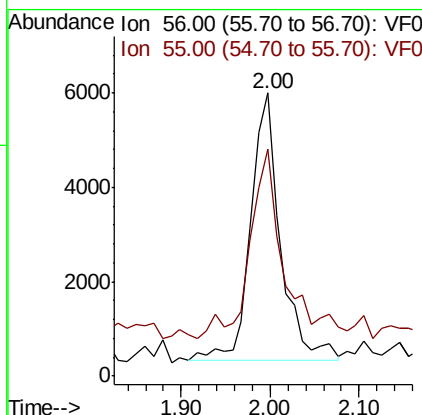
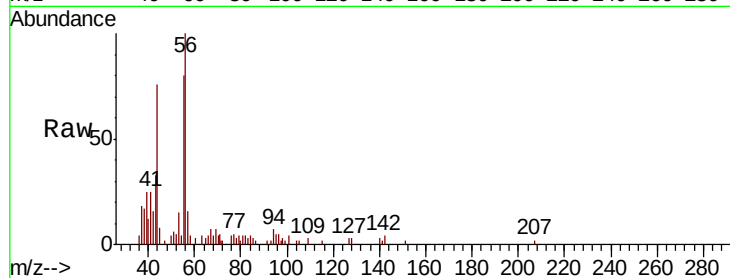
#13
Acrolein
Concen: 135.641 ug/l
RT: 2.00 min Scan# 139
Delta R.T. 0.00 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	56	Resp	13048
Ion Ratio	100	Lower	Upper
55	80.1	61.8	92.6

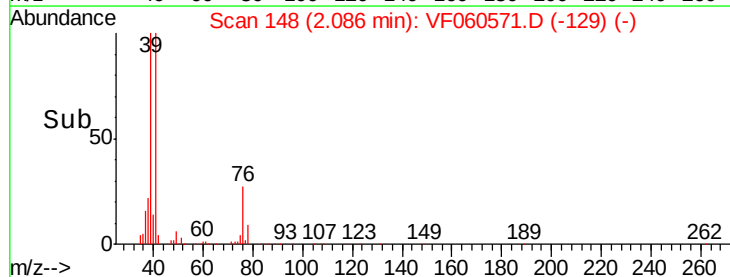
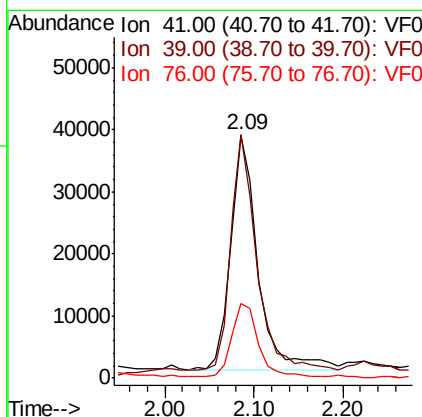
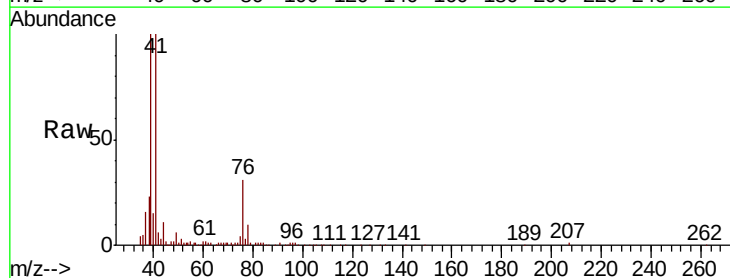
Manual Integrations
APPROVED

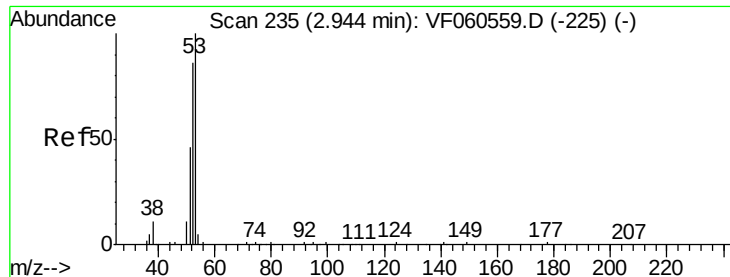
MMDadoda
11/6/2018 12:53:47 PM



#14
Allyl chloride
Concen: 26.481 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	41	Resp	81876
Ion Ratio	100	Lower	Upper
39	100.3	82.6	124.0
76	30.8	26.7	40.1





#15

Acrylonitrile

Concen: 105.626 ug/l

RT: 2.93 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

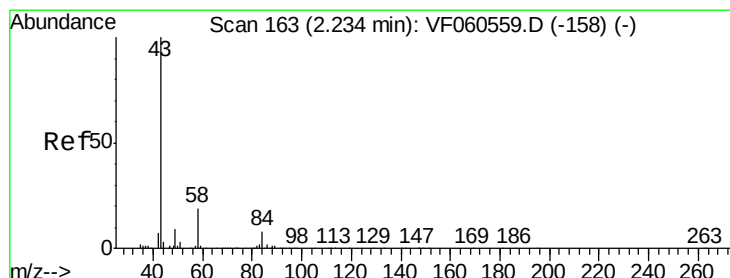
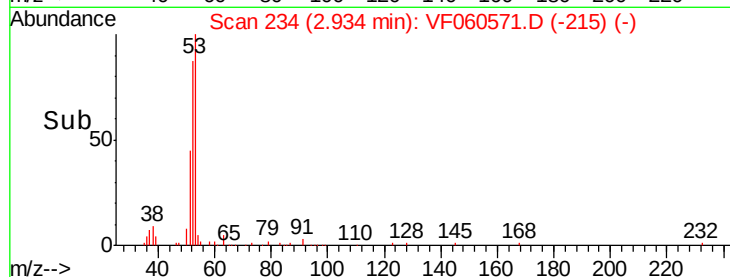
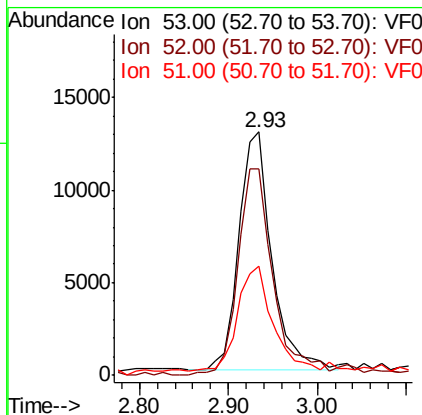
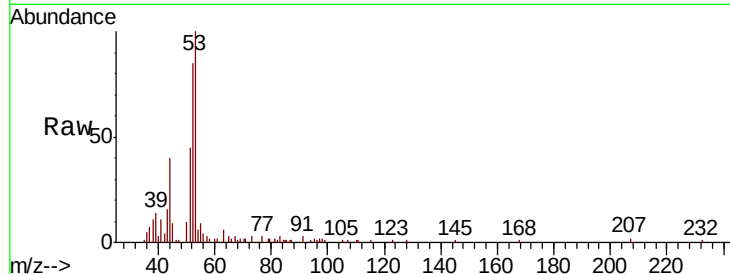
ClientSampleId :

VF1105SBS01

Tot Ion:	53	Resp:	33152
Ion	Ratio	Lower	Upper
53	100		
52	84.7	68.5	102.7
51	44.8	38.2	57.2

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#16

Acetone

Concen: 125.864 ug/l

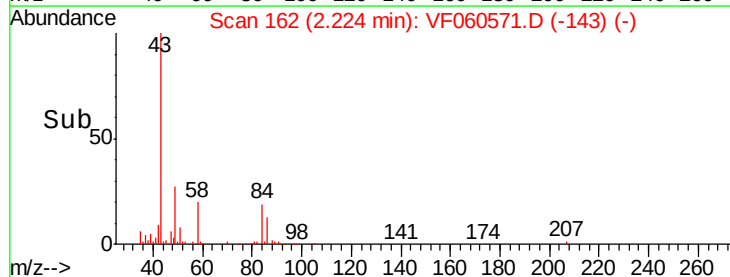
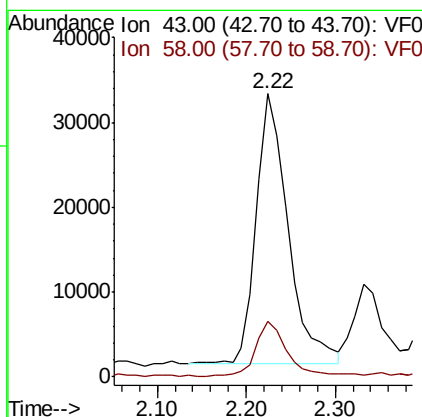
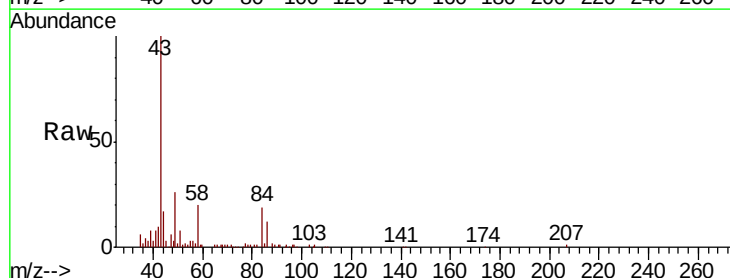
RT: 2.22 min Scan# 162

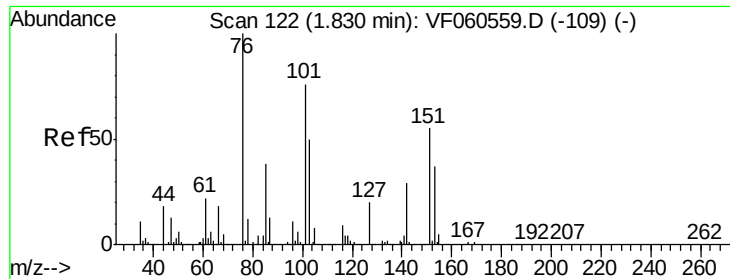
Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	43	Resp:	78107
Ion	Ratio	Lower	Upper
43	100		
58	19.7	14.6	22.0





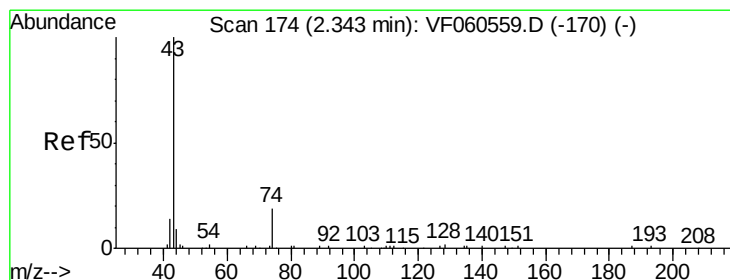
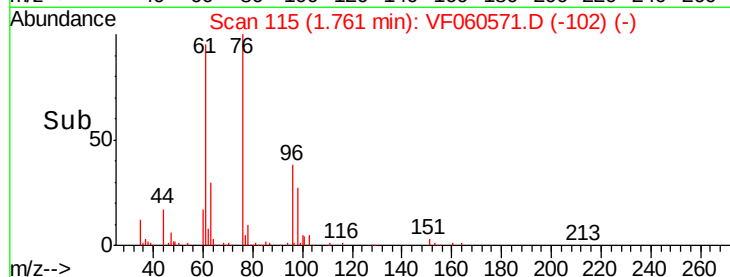
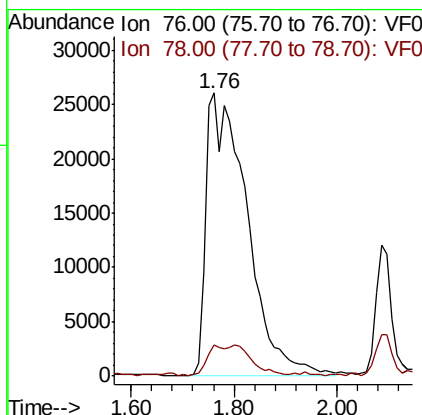
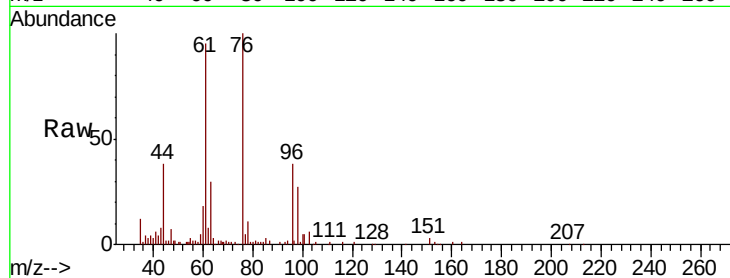
#17
Carbon Disulfide
Concen: 26.840 ug/l m
RT: 1.76 min Scan# 115
Delta R.T. -0.07 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.9	9.9	14.9

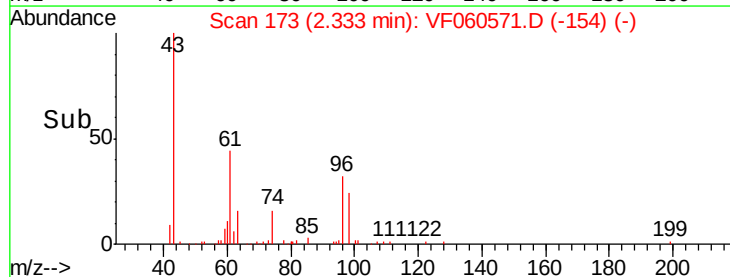
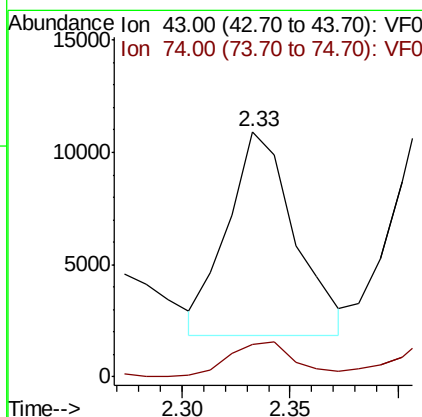
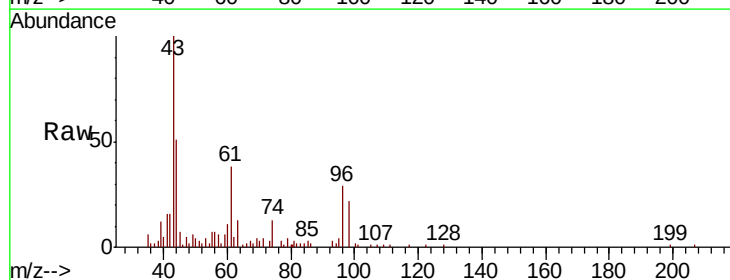
Manual Integrations
APPROVED

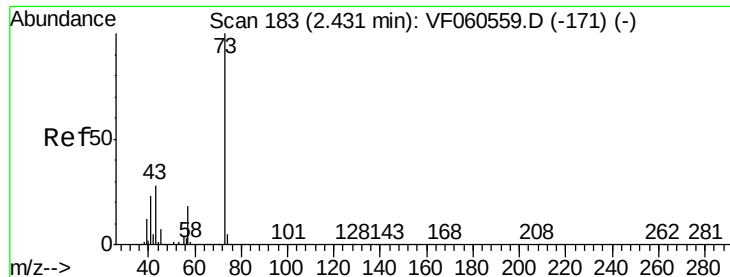
MMDadoda
11/6/2018 12:53:47 PM



#18
Methyl Acetate
Concen: 20.678 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
74	13.3	12.1	18.1





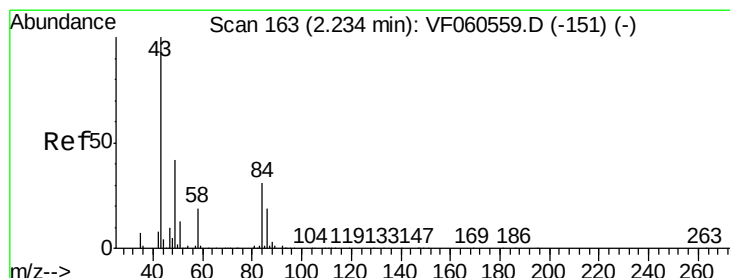
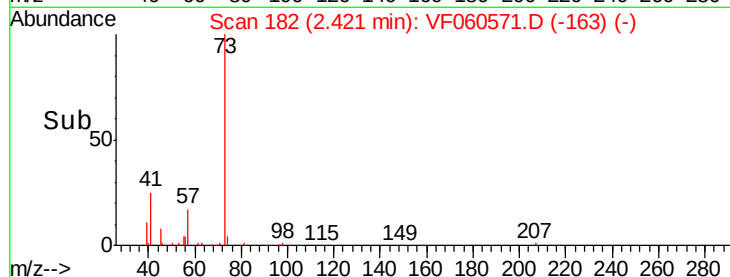
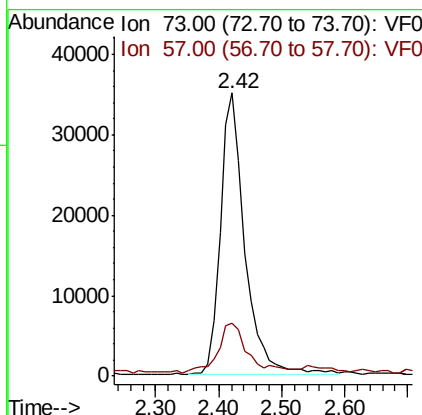
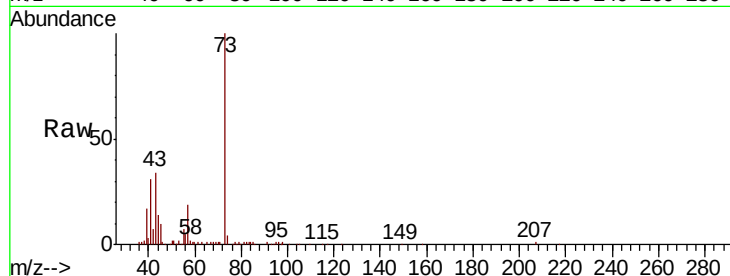
#19
Methyl tert-butyl Ether
Concen: 21.297 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
73	100		
57	18.8	15.4	23.0

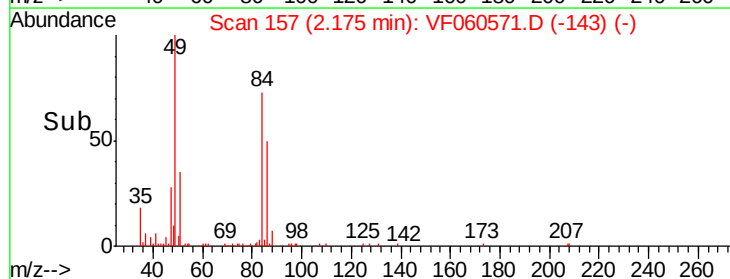
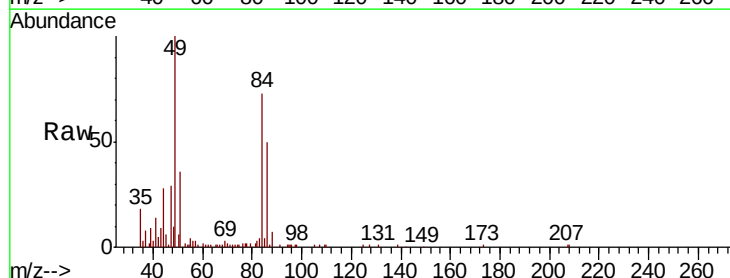
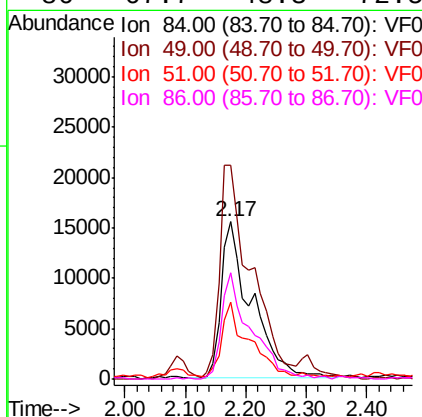
Manual Integrations
APPROVED

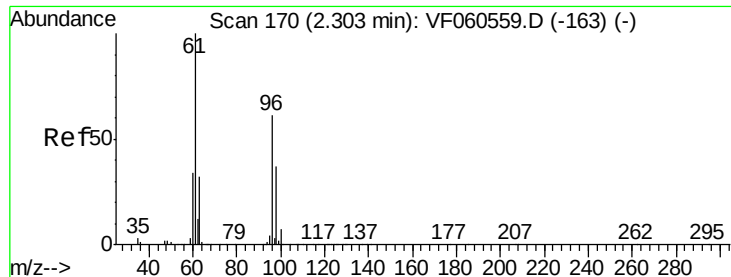
MMDadoda
11/6/2018 12:53:47 PM



#20
Methylene Chloride
Concen: 26.756 ug/l
RT: 2.17 min Scan# 157
Delta R.T. -0.06 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	136.1	109.9	164.9
51	48.6	35.8	53.8
86	67.7	48.3	72.5





#21

trans-1,2-Dichloroethene

Concen: 26.699 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

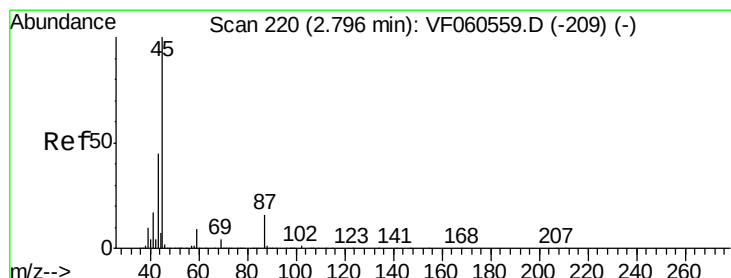
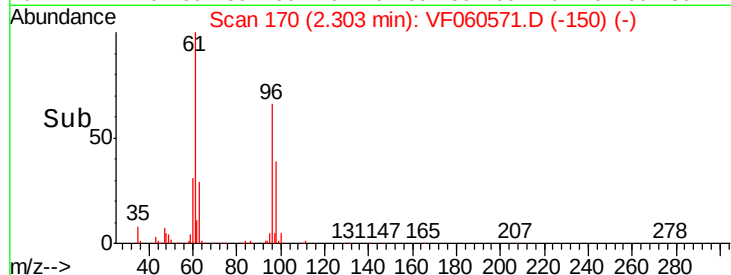
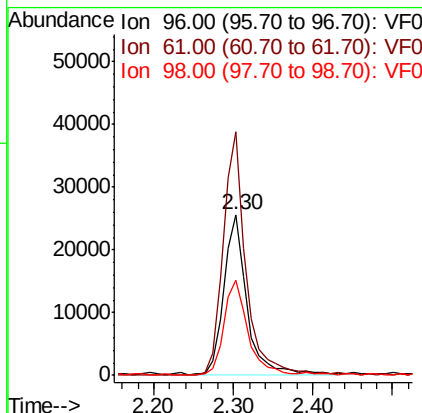
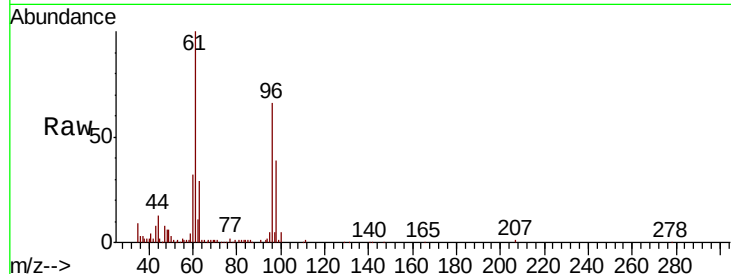
ClientSampleId :

VF1105SBSD01

Tot Ion:	96	Resp:	53040
Ion	Ratio	Lower	Upper
96	100		
61	151.6	131.3	196.9
98	59.3	48.6	73.0

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#22

Diisopropyl ether

Concen: 24.471 ug/l

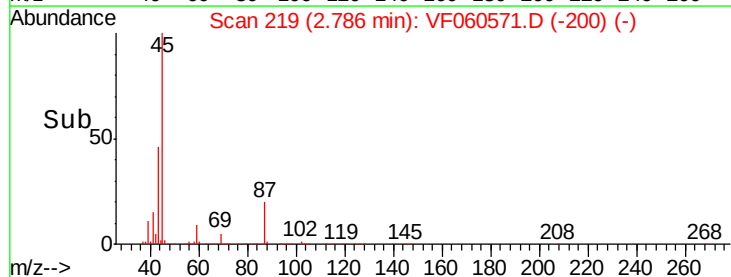
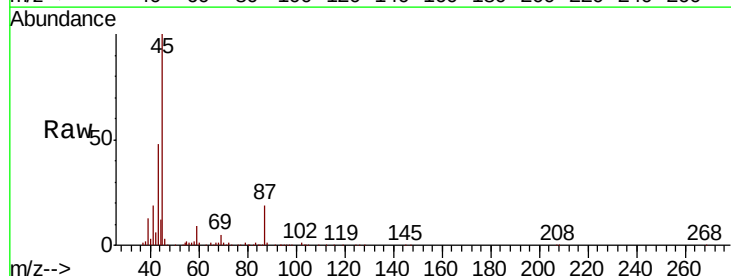
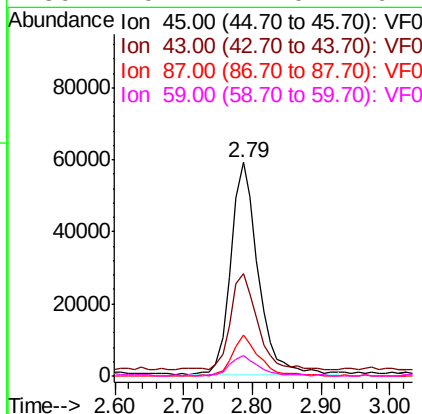
RT: 2.79 min Scan# 219

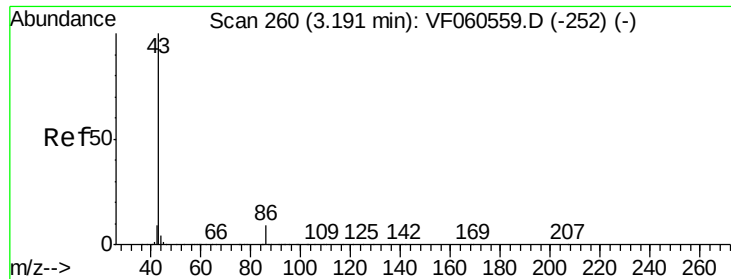
Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	45	Resp:	160307
Ion	Ratio	Lower	Upper
45	100		
43	48.0	38.1	57.1
87	19.4	12.7	19.1#
59	9.4	7.0	10.4





#23

Vinyl Acetate

Concen: 107.837 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion: 43 Resp: 424438

Ion Ratio Lower Upper

43 100

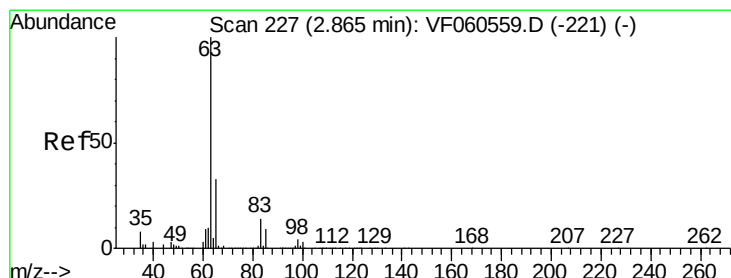
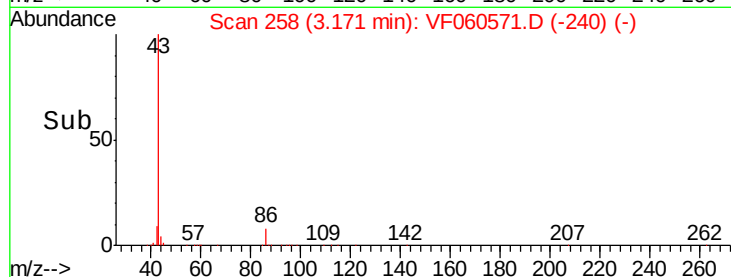
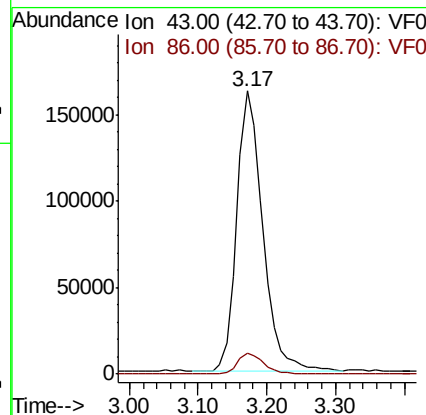
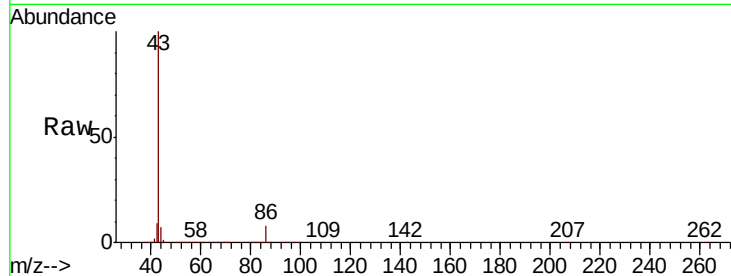
86 7.5 7.1 10.7

Manual Integrations

APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#24

1,1-Dichloroethane

Concen: 22.602 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

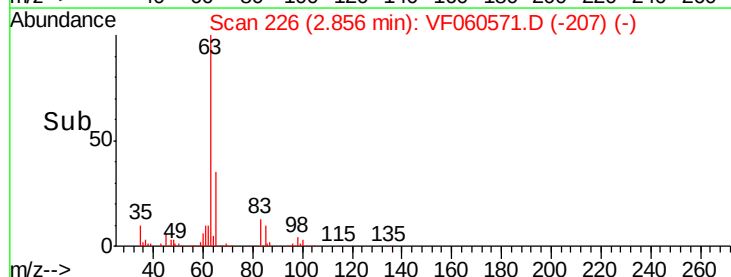
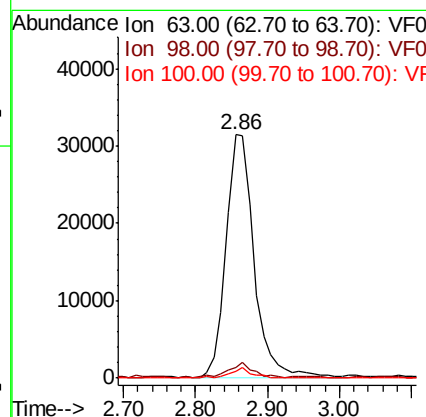
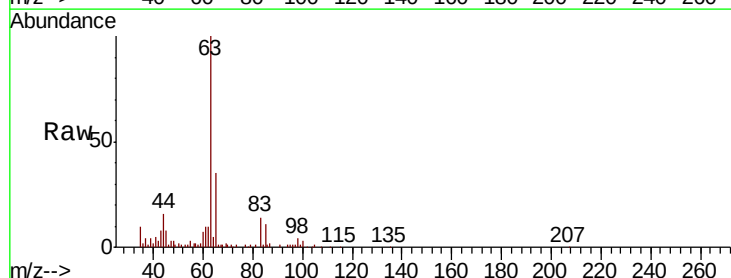
Tgt Ion: 63 Resp: 85687

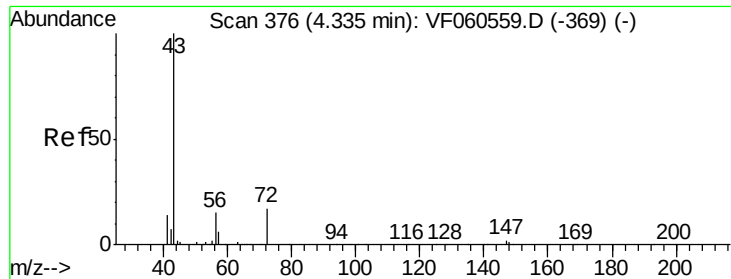
Ion Ratio Lower Upper

63 100

98 4.2 2.2 6.6

100 3.0 1.4 4.0





#25

2-Butanone

Concen: 94.290 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion: 43 Resp: 133359

Ion Ratio Lower Upper

43 100

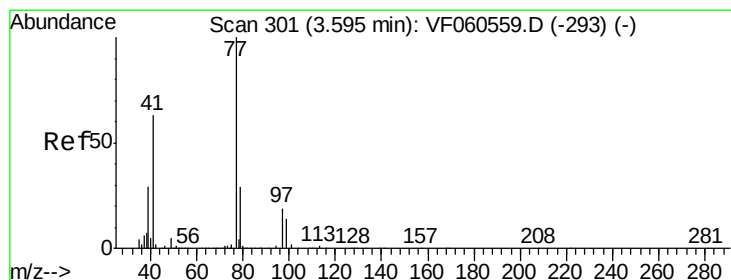
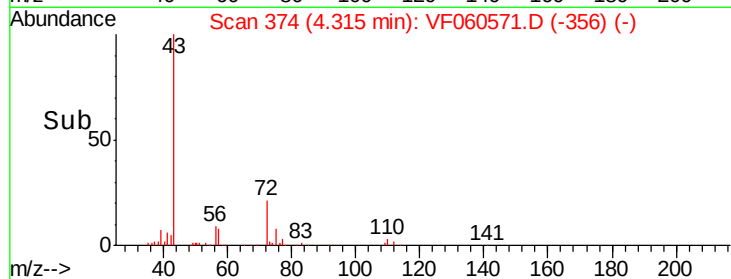
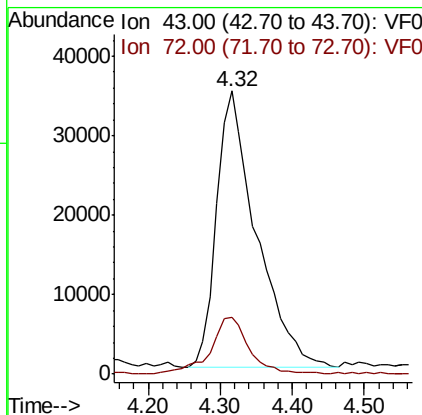
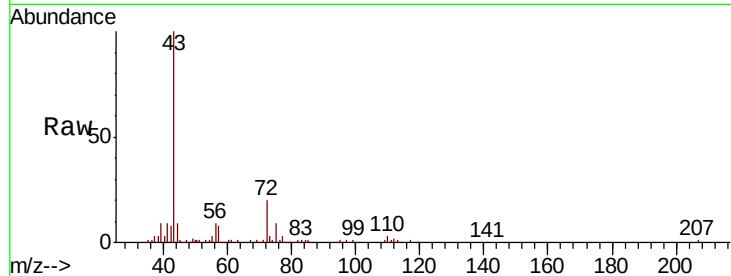
72 20.3 16.2 24.2

Manual Integrations

APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#26

2,2-Dichloropropane

Concen: 25.051 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.01 min

Lab File: VF060571.D

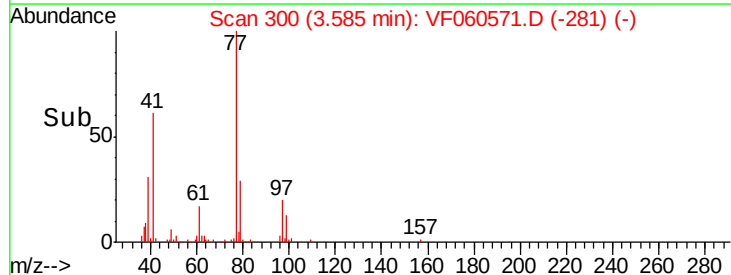
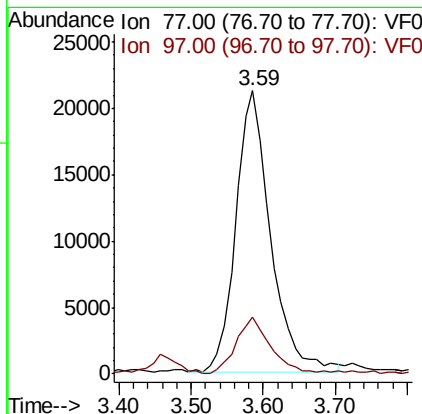
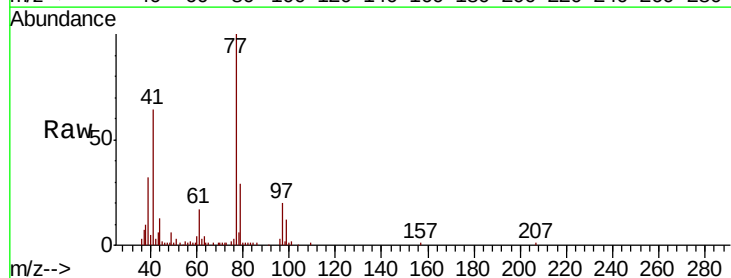
Acq: 5 Nov 2018 14:01

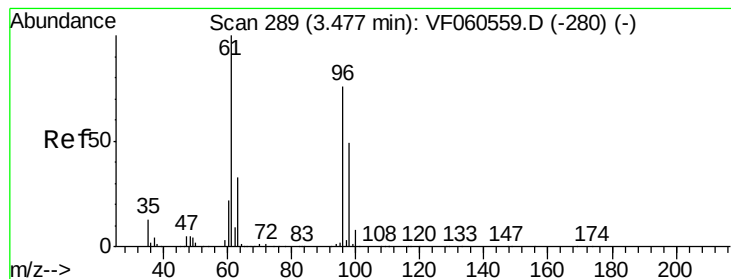
Tgt Ion: 77 Resp: 71062

Ion Ratio Lower Upper

77 100

97 20.1 9.8 29.3





#27

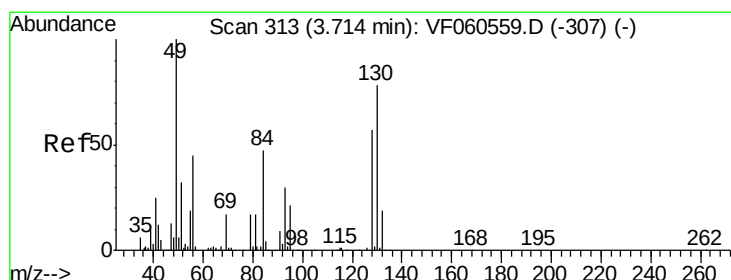
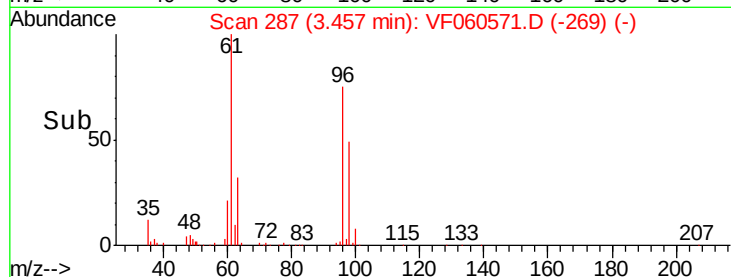
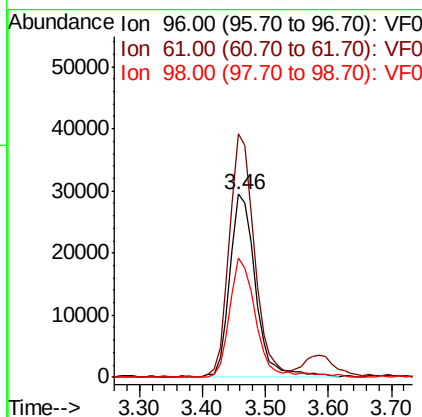
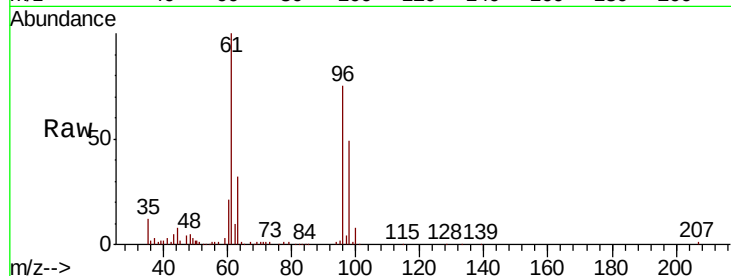
cis-1,2-Dichloroethene
Concen: 22.052 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	133.0	0.0	263.0		
98	65.3	0.0	130.6		

Manual Integrations
APPROVED

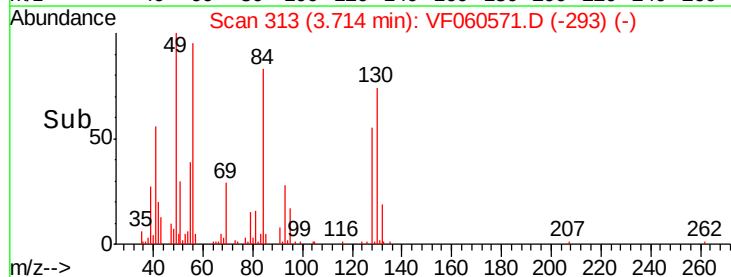
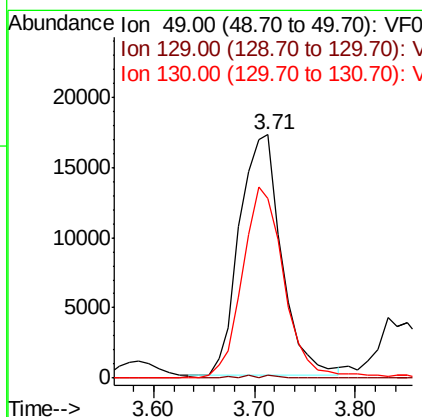
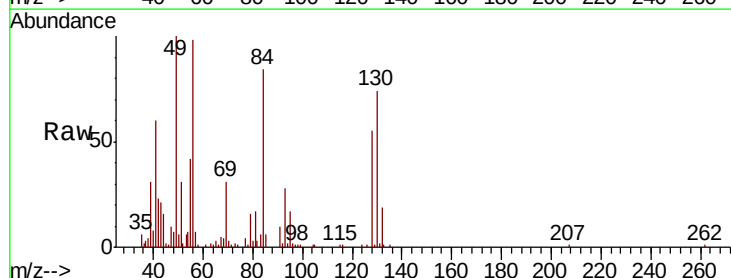
MMDadoda
11/6/2018 12:53:47 PM

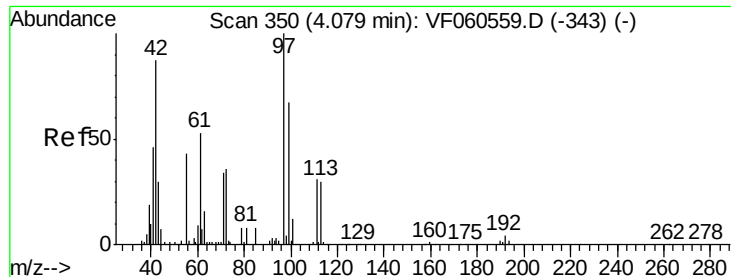


#28

Bromochloromethane
Concen: 20.957 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.00 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100				
129	1.4	0.0	4.6		
130	73.8	61.8	92.8		





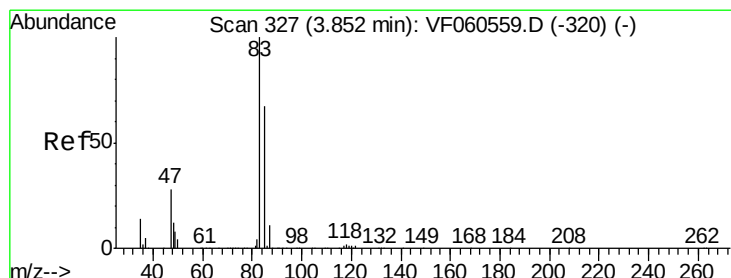
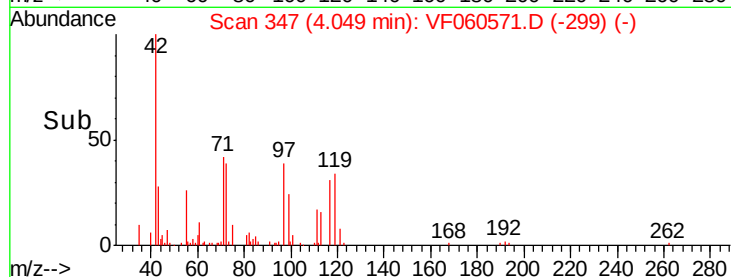
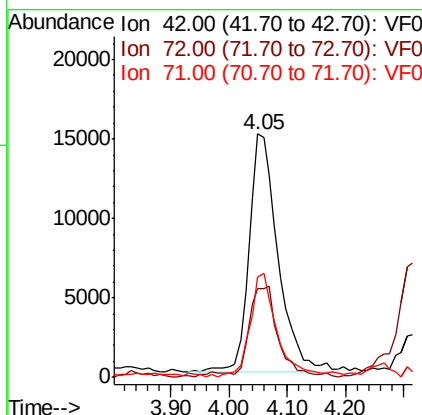
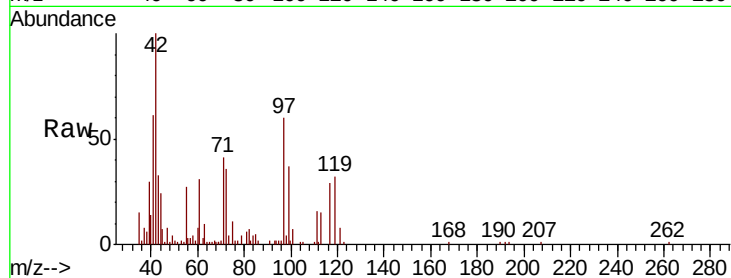
#29
Tetrahydrofuran
Concen: 106.758 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.03 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.9	31.4	47.0
71	40.6	31.8	47.6

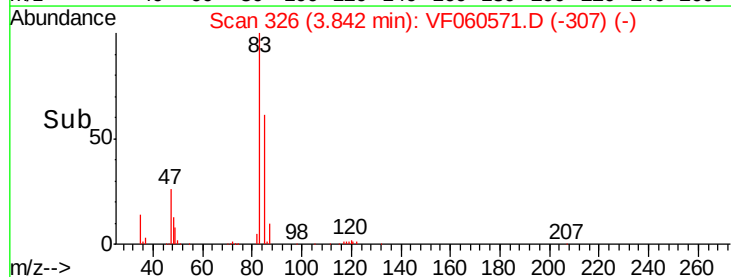
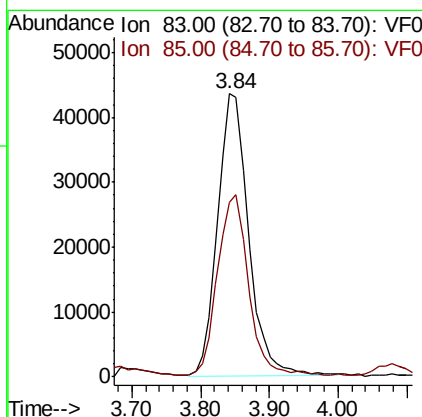
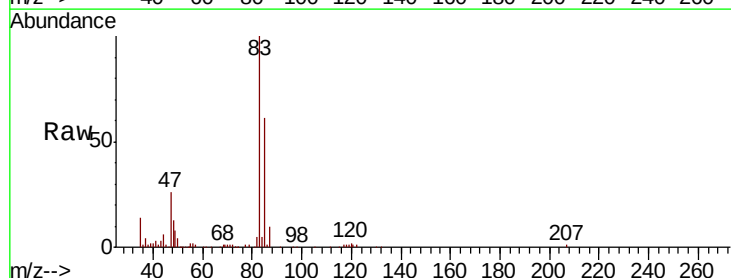
Manual Integrations
APPROVED

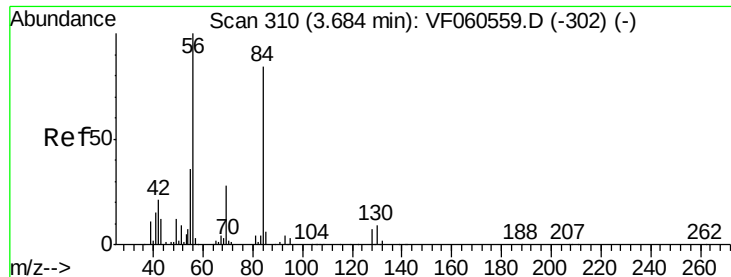
MMDadoda
11/6/2018 12:53:47 PM



#30
Chloroform
Concen: 22.678 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.5	53.7	80.5





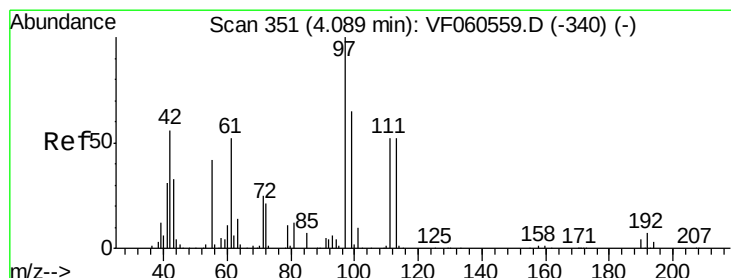
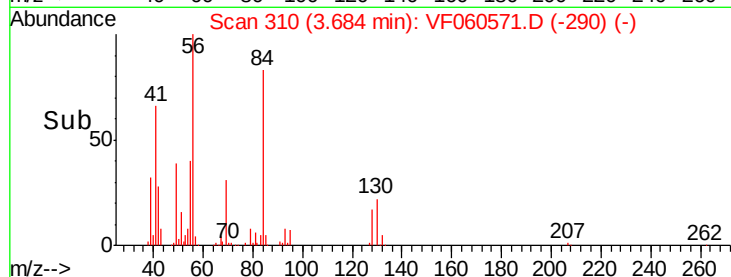
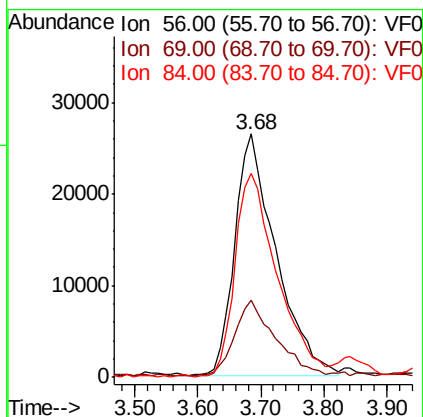
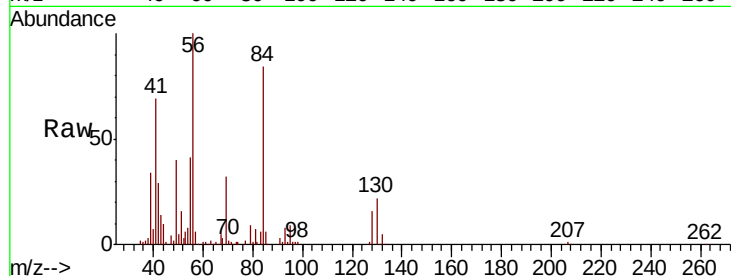
#31
Cyclohexane
Concen: 22.754 ug/l
RT: 3.68 min Scan# 310
Delta R.T. -0.00 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.8	23.0	34.4
84	84.0	67.1	100.7

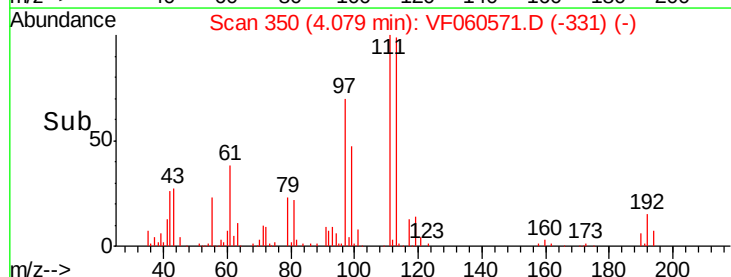
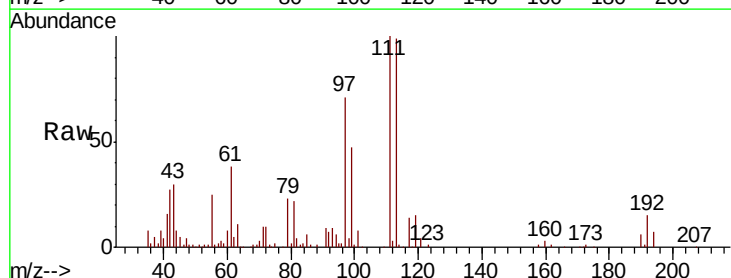
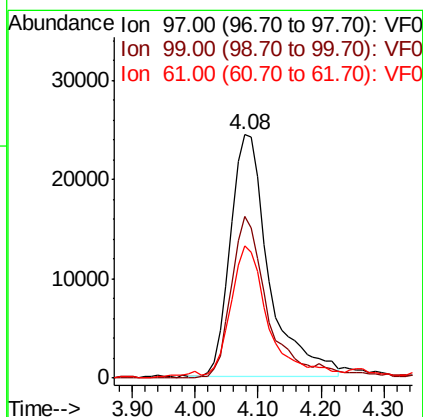
Manual Integrations
APPROVED

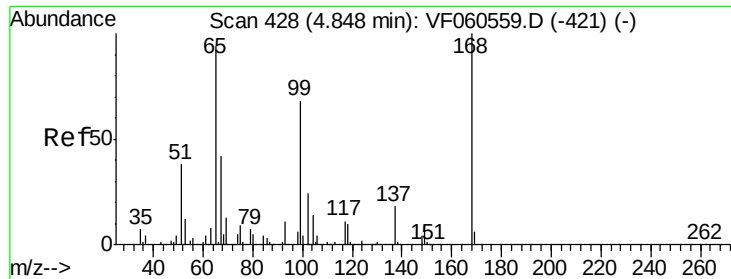
MMDadoda
11/6/2018 12:53:47 PM



#32
1,1,1-Trichloroethane
Concen: 24.709 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.3	52.4	78.6
61	54.1	41.5	62.3





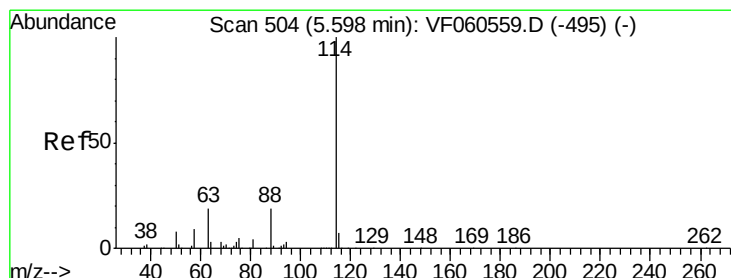
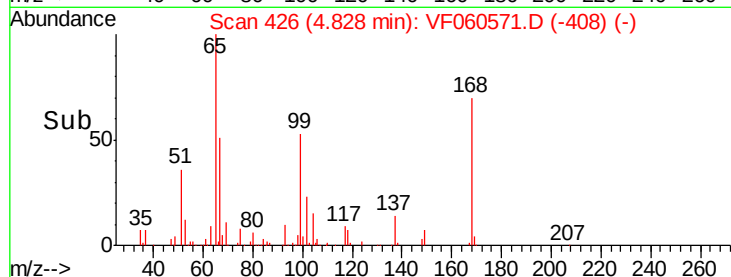
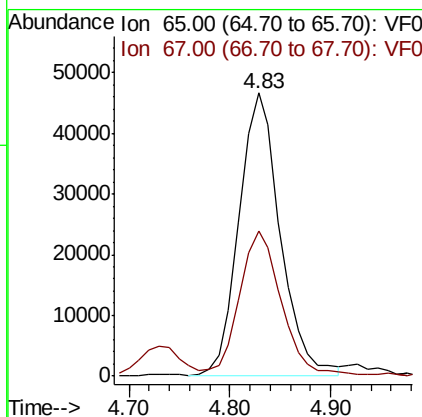
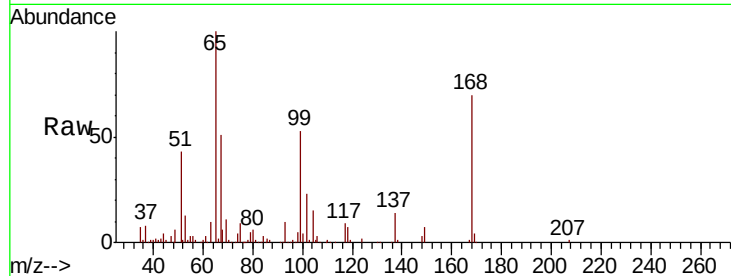
#33
 1,2-Dichloroethane-d4
 Concen: 50.054 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.02 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBSD01

Tot Ion: 65 Resp: 131819
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 101.8

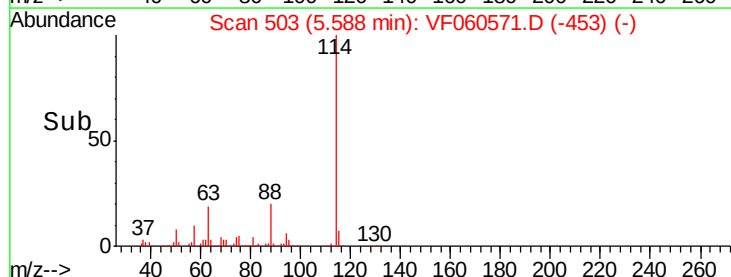
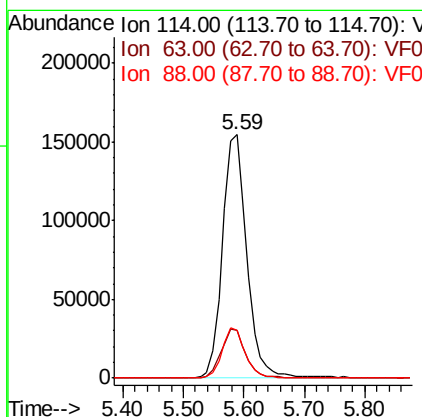
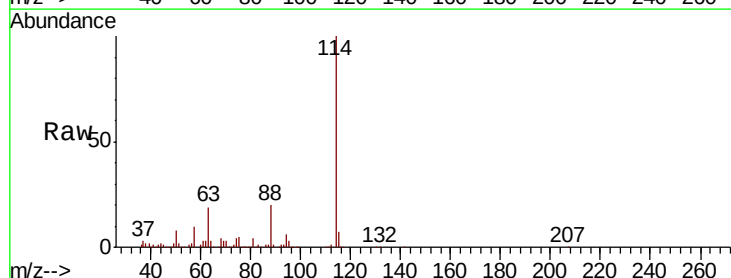
Manual Integrations
 APPROVED

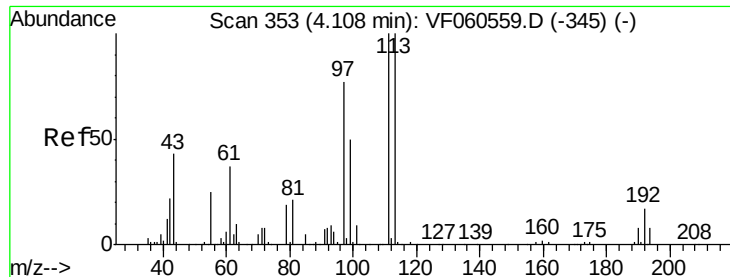
MMDadoda
 11/6/2018 12:53:47 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.01 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Tgt Ion: 114 Resp: 434164
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.0
 88 19.7 0.0 38.2





#35

Dibromofluoromethane

Concen: 50.198 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

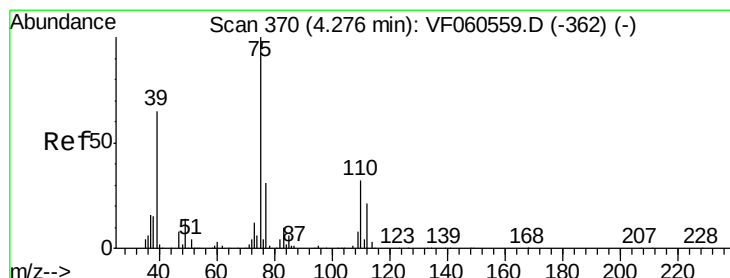
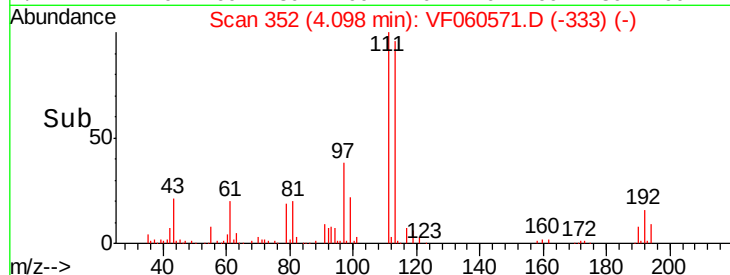
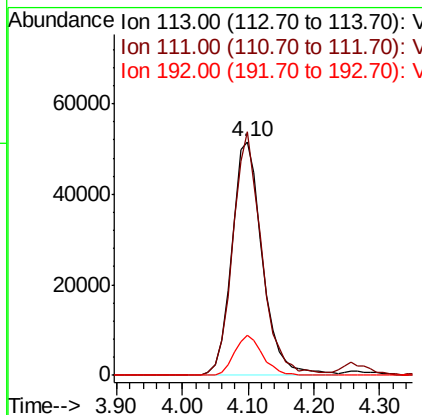
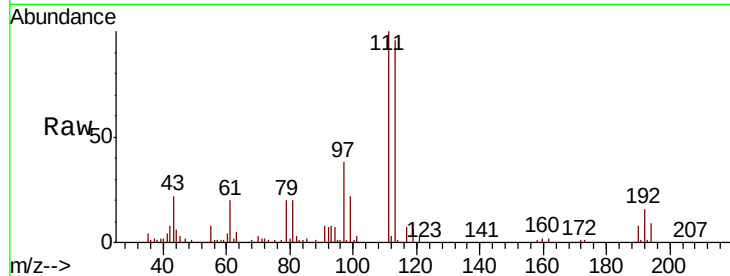
ClientSampleId :

VF1105SBSD01

Tot Ion:	113	Resp:	168380
Ion Ratio	Lower	Upper	
113	100		
111	104.3	79.9	119.9
192	17.1	13.3	19.9

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#36

1,1-Dichloropropene

Concen: 22.471 ug/l

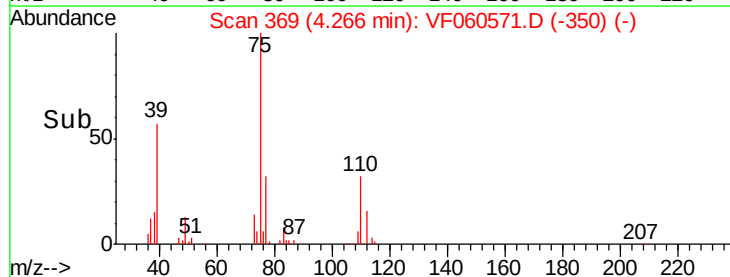
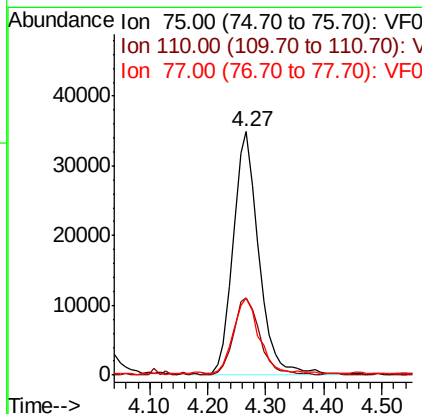
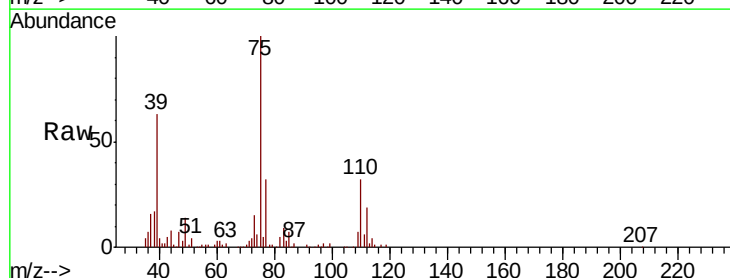
RT: 4.27 min Scan# 369

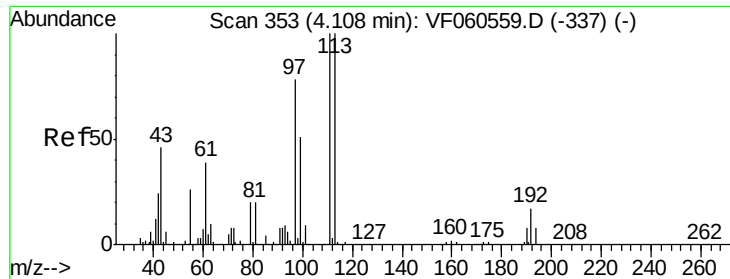
Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	75	Resp:	107422
Ion Ratio	Lower	Upper	
75	100		
110	31.7	16.2	48.6
77	31.8	25.0	37.6





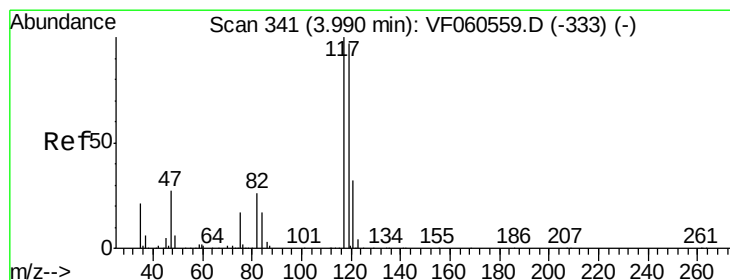
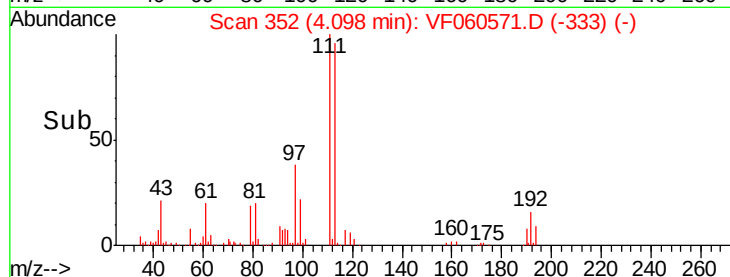
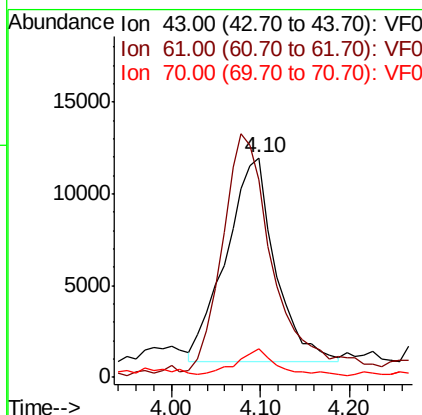
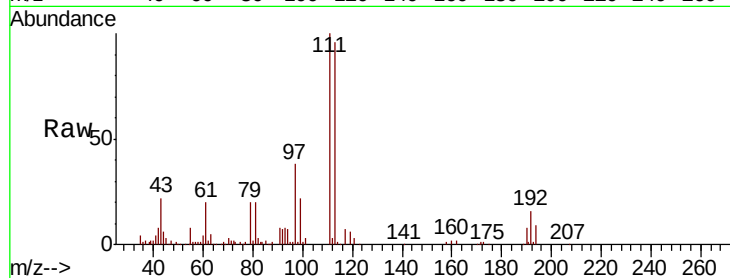
#37
Ethyl Acetate
Concen: 18.520 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	43	Ratio	Lower	Upper
43	100			
61	90.0	63.4	95.2	
70	13.0	9.3	13.9	

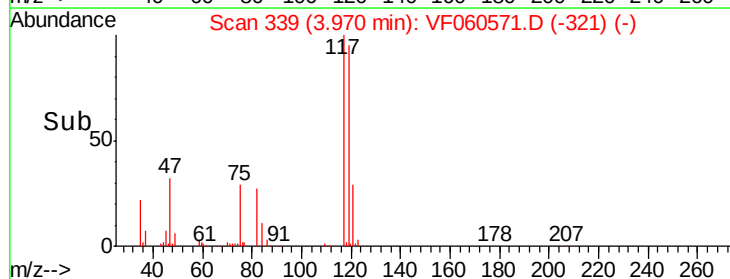
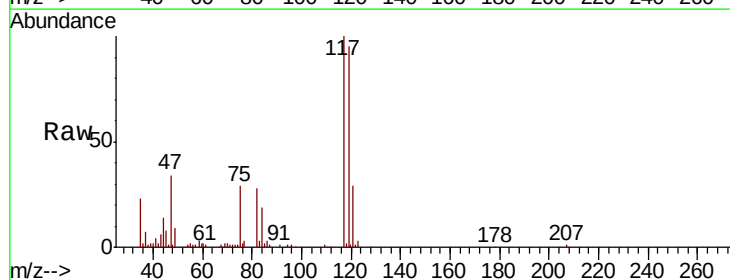
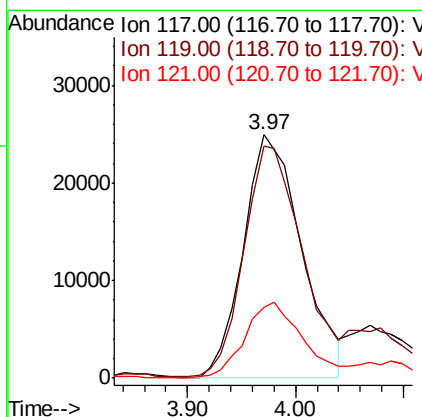
Manual Integrations
APPROVED

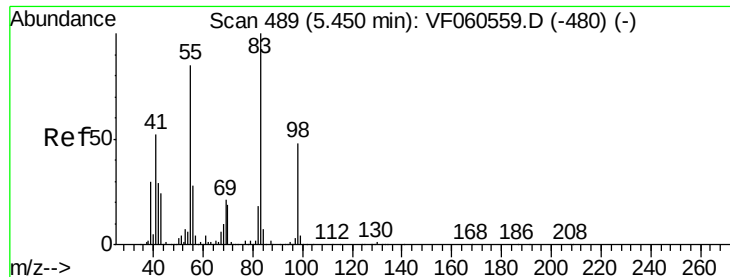
MMDadoda
11/6/2018 12:53:47 PM



#38
Carbon Tetrachloride
Concen: 22.864 ug/l
RT: 3.97 min Scan# 339
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	117	Ratio	Lower	Upper
117	100			
119	95.2	77.8	116.6	
121	29.1	25.6	38.4	





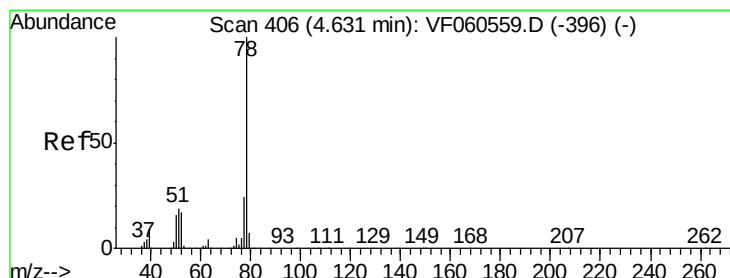
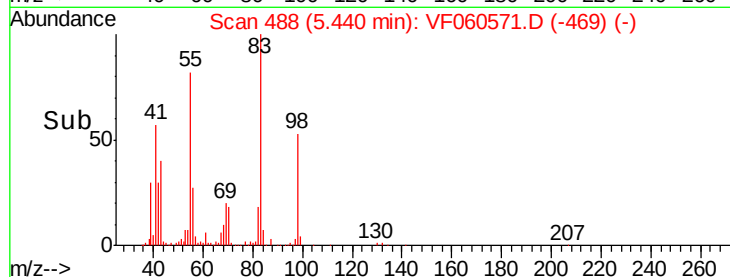
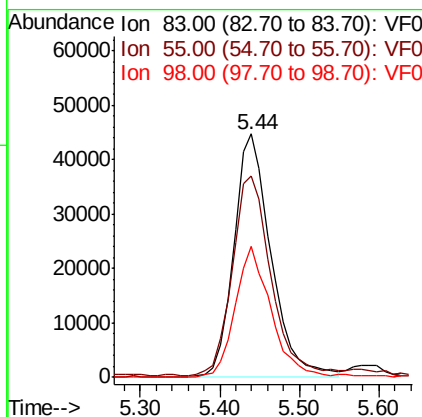
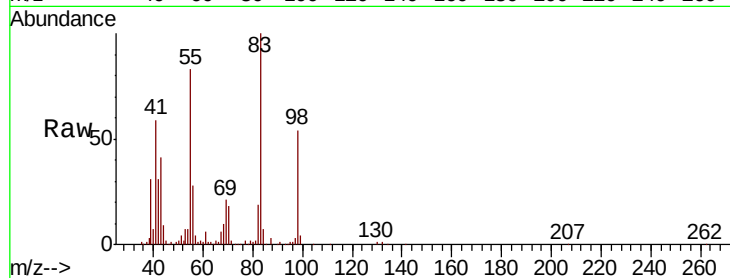
#39
Methylvlcyclohexane
Concen: 24.950 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.6	69.1	103.7
98	53.6	38.6	57.8

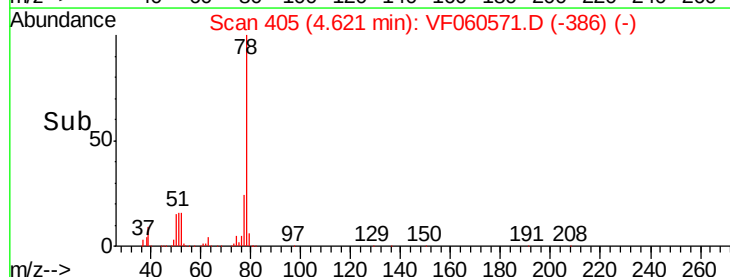
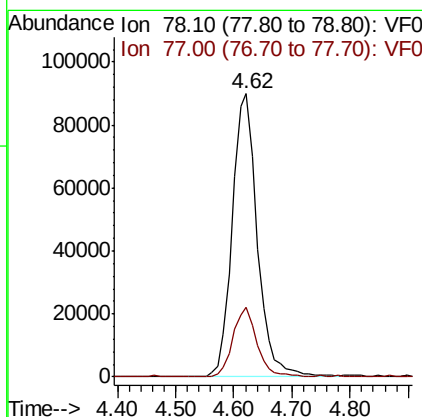
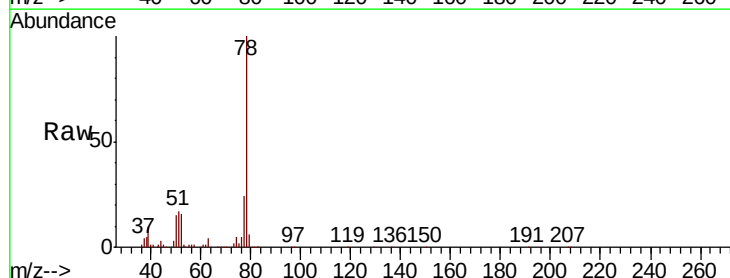
Manual Integrations
APPROVED

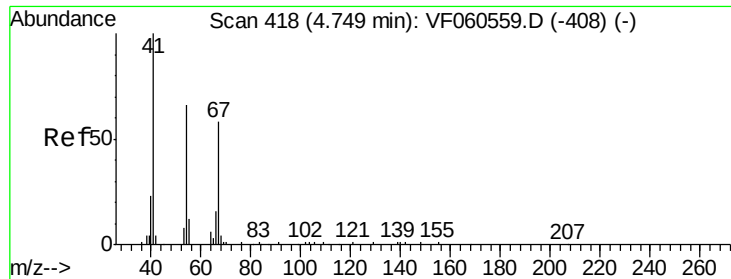
MMDadoda
11/6/2018 12:53:47 PM



#40
Benzene
Concen: 23.226 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.3	28.9





#41

Methacrylonitrile

Concen: 19.633 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

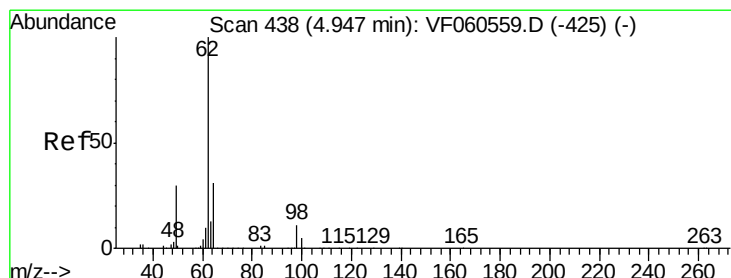
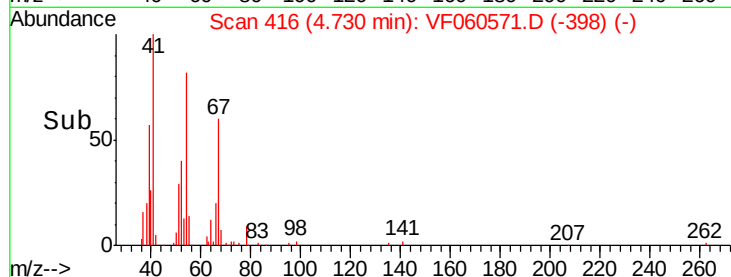
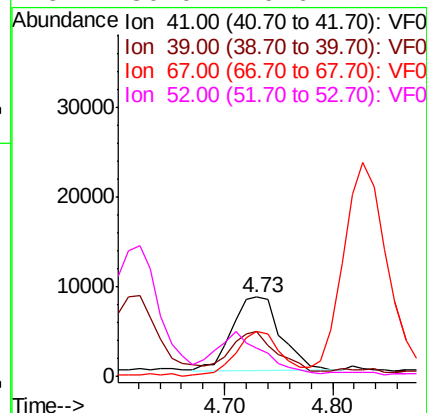
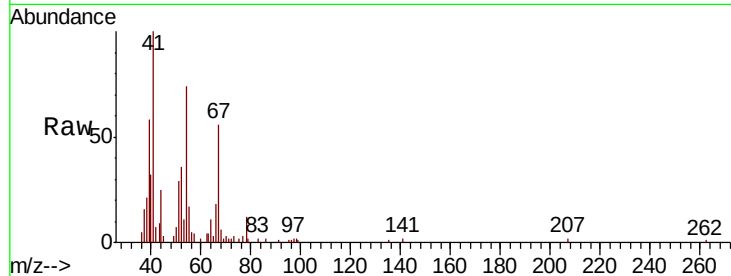
ClientSampleId :

VF1105SBSD01

Tot Ion:	41	Resp:	25514
Ion	Ratio	Lower	Upper
41	100		
39	57.7	45.6	68.4
67	56.4	45.3	67.9
52	36.0	29.6	44.4

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#42

1,2-Dichloroethane

Concen: 20.287 ug/l

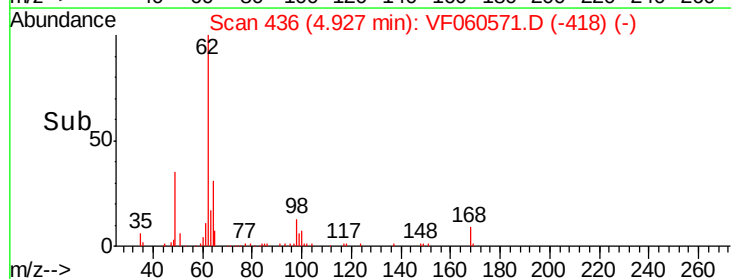
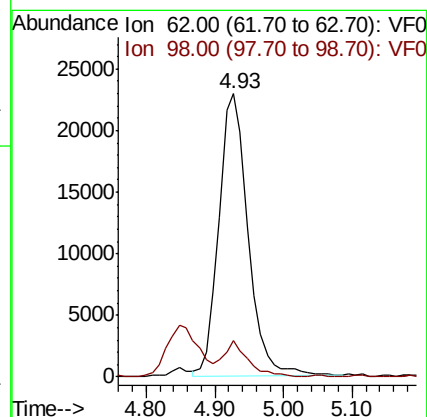
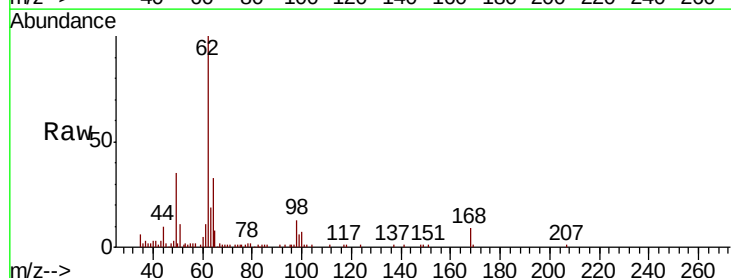
RT: 4.93 min Scan# 436

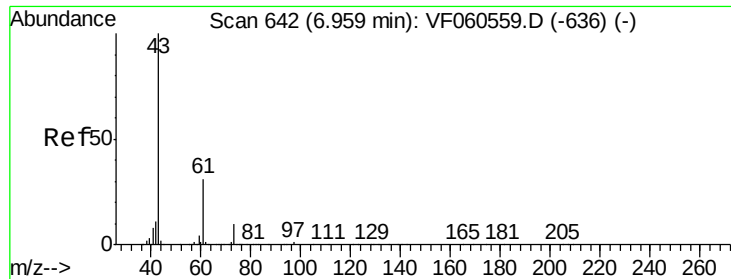
Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	62	Resp:	67564
Ion	Ratio	Lower	Upper
62	100		
98	12.9	0.0	22.4





#43

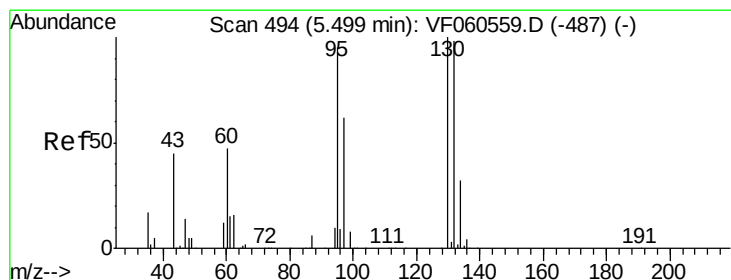
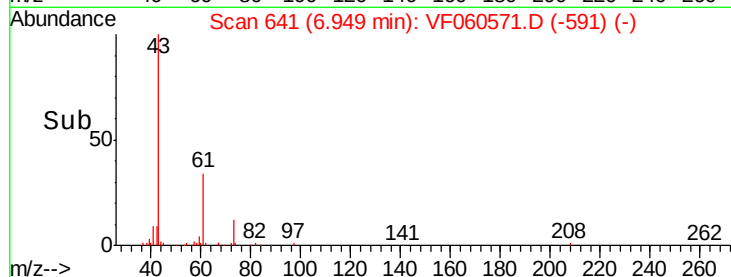
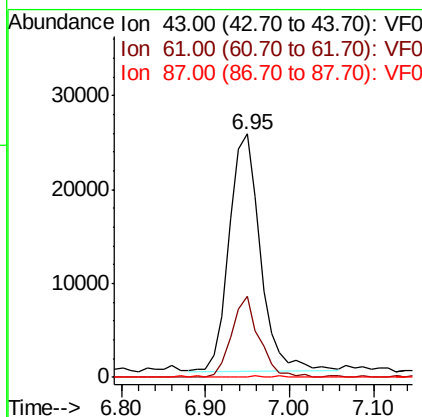
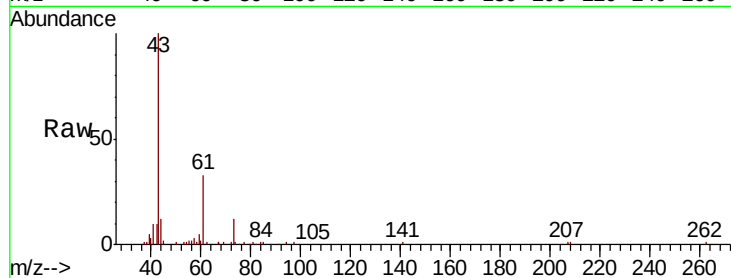
Isopropyl Acetate
 Concen: 22.459 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.01 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.4	24.2	36.2
87	0.0	0.2	0.4

Manual Integrations
 APPROVED

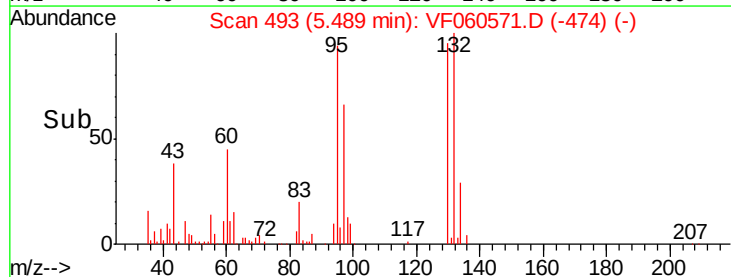
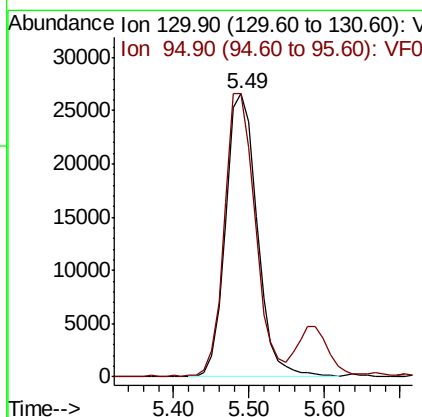
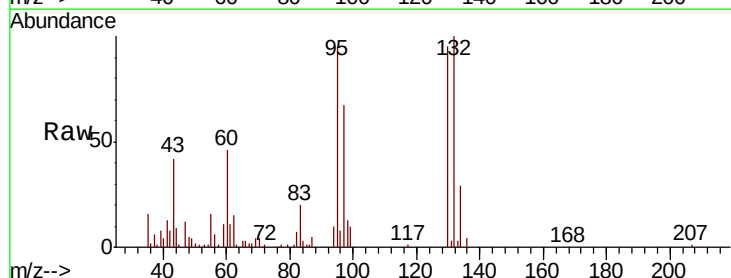
MMDadoda
 11/6/2018 12:53:47 PM

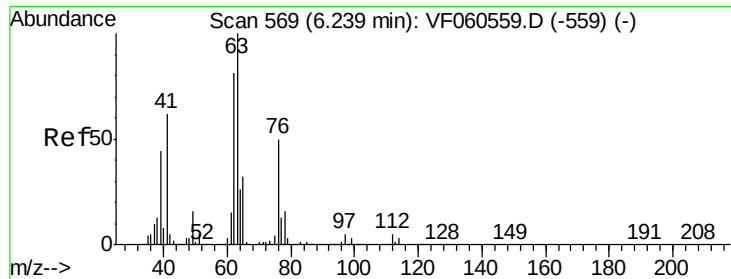


#44

Trichloroethene
 Concen: 21.987 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.0	0.0	191.0





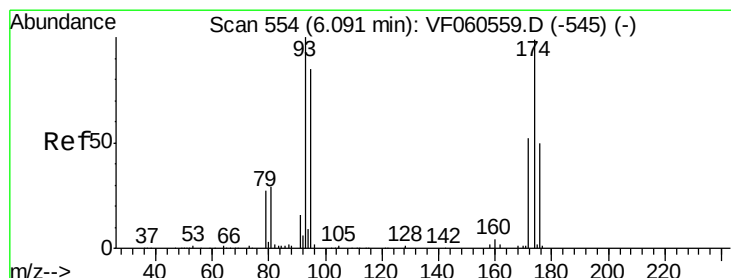
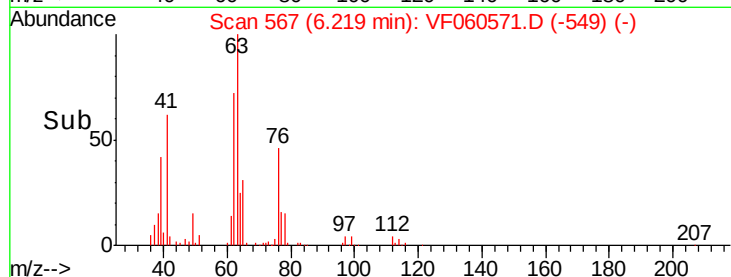
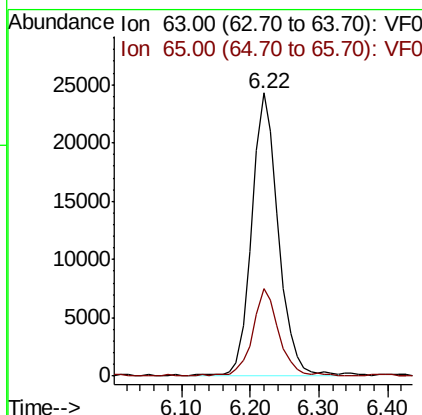
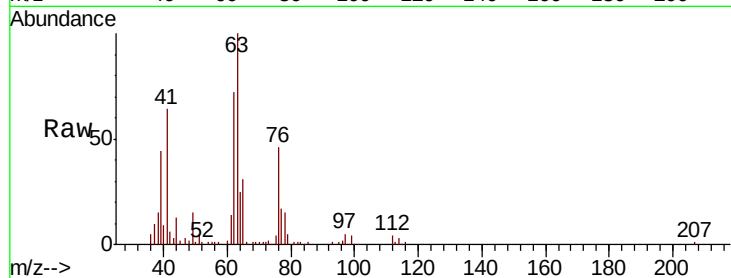
#45
 1,2-Dichloropropane
 Concen: 22.108 ug/l
 RT: 6.22 min Scan# 567
 Delta R.T. -0.02 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS01

Tot Ion: 63 Resp: 65610
 Ion Ratio Lower Upper
 63 100
 65 31.1 25.4 38.0

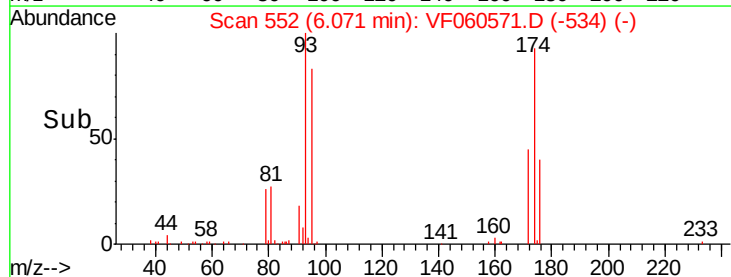
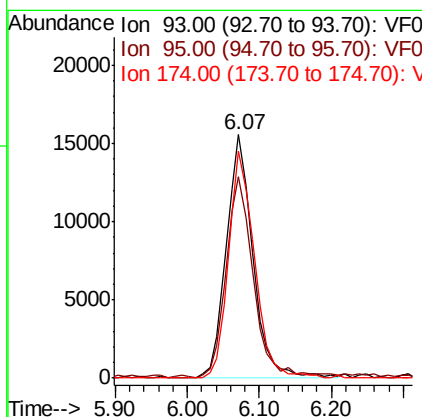
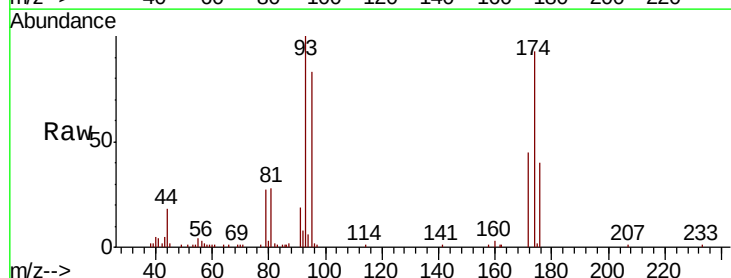
Manual Integrations
 APPROVED

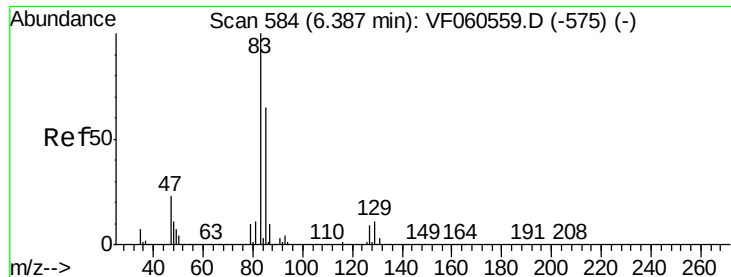
MMDadoda
 11/6/2018 12:53:47 PM



#46
 Dibromomethane
 Concen: 21.313 ug/l
 RT: 6.07 min Scan# 552
 Delta R.T. -0.02 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Tgt Ion: 93 Resp: 40127
 Ion Ratio Lower Upper
 93 100
 95 82.5 68.6 102.8
 174 93.1 79.0 118.4





#47

Bromodichloromethane

Concen: 21.675 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

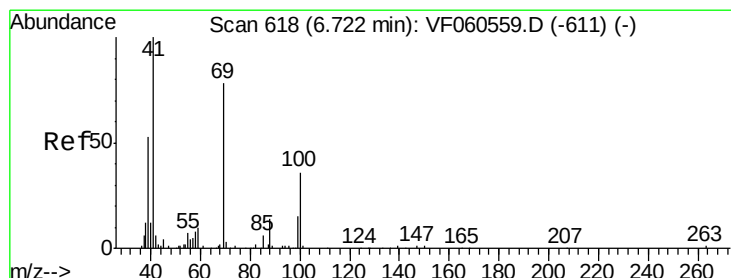
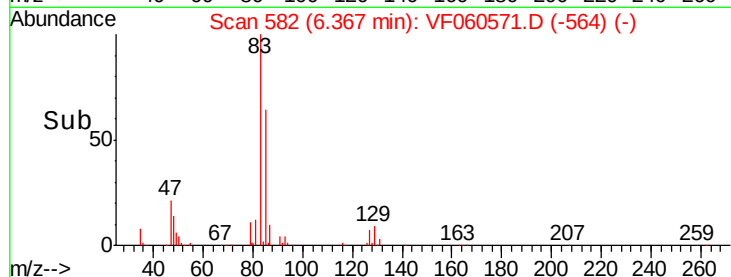
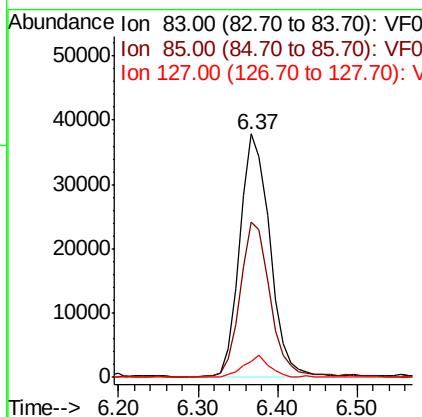
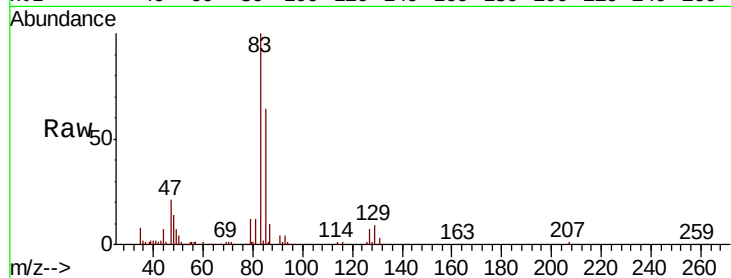
ClientSampleId :

VF1105SBS01

Tot Ion:	83	Resp:	98433
Ion Ratio	Lower	Upper	
83	100		
85	63.5	51.8	77.6
127	6.7	7.0	10.4

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#48

Methyl methacrylate

Concen: 21.998 ug/l

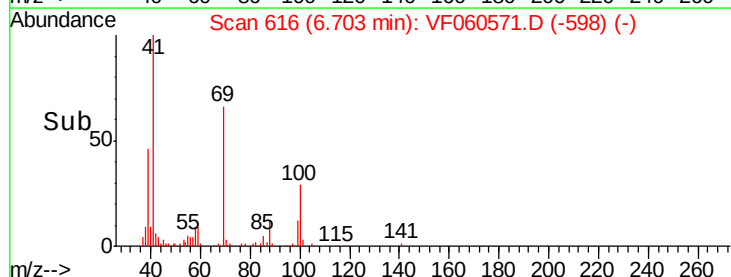
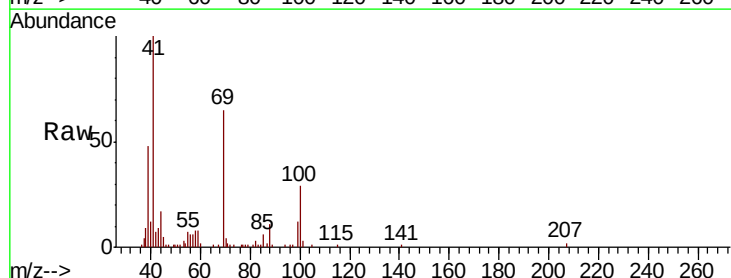
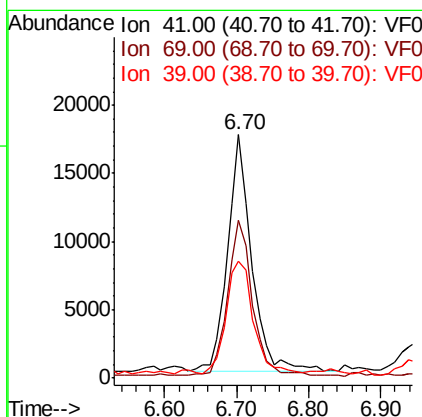
RT: 6.70 min Scan# 616

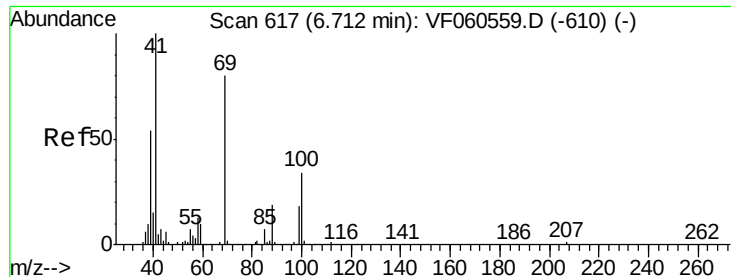
Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	41	Resp:	40131
Ion Ratio	Lower	Upper	
41	100		
69	65.0	61.1	91.7
39	47.9	43.0	64.6





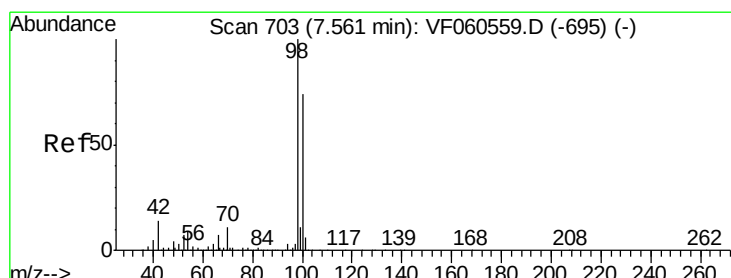
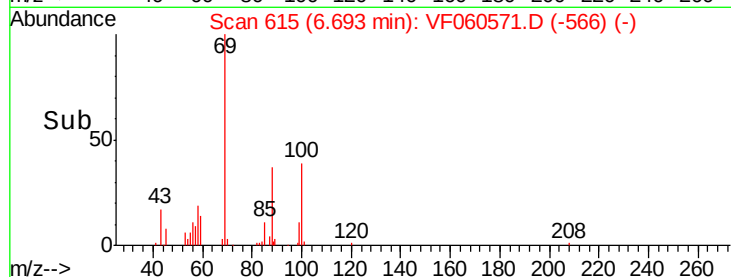
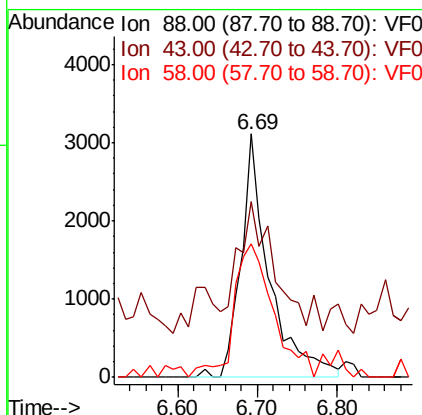
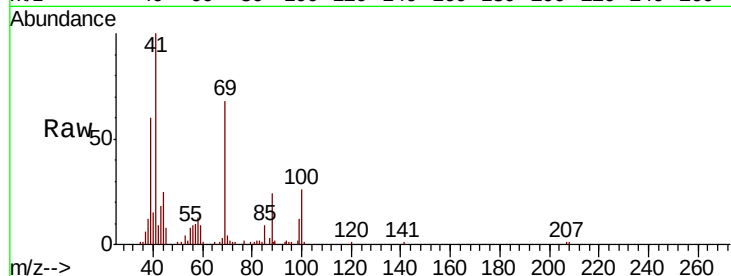
#49
1,4-Dioxane
Concen: 399.023 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	7615		
43	72.0		61.2	91.8
58	55.1		56.9	85.3#

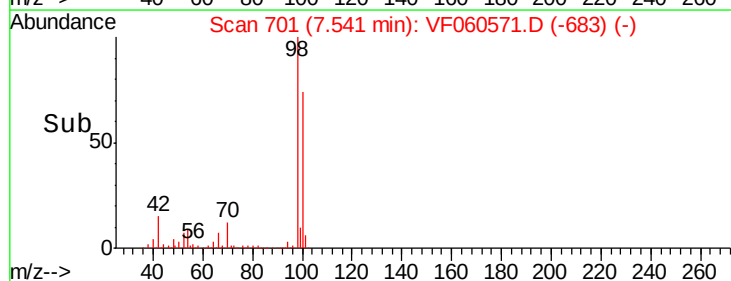
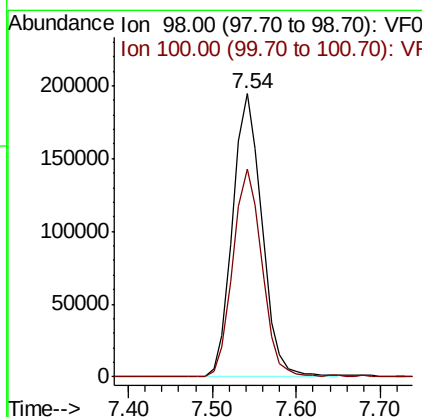
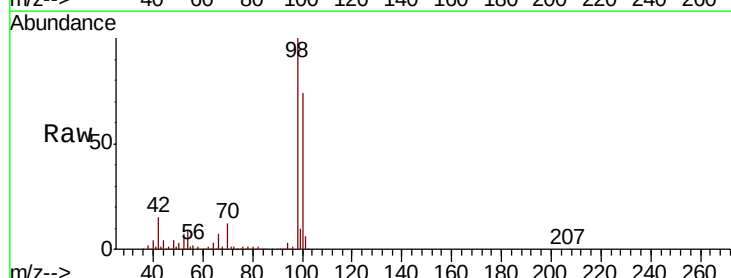
Manual Integrations
APPROVED

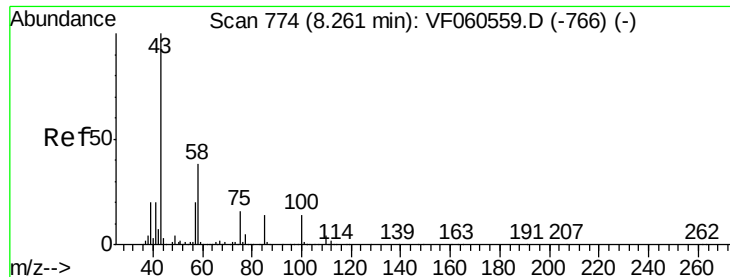
MMDadoda
11/6/2018 12:53:47 PM



#50
Toluene-d8
Concen: 47.712 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	474097		
100	73.6		59.4	89.2





#51

4-Methyl-2-Pentanone

Concen: 120.036 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion: 43 Resp: 234307

Ion Ratio Lower Upper

43 100

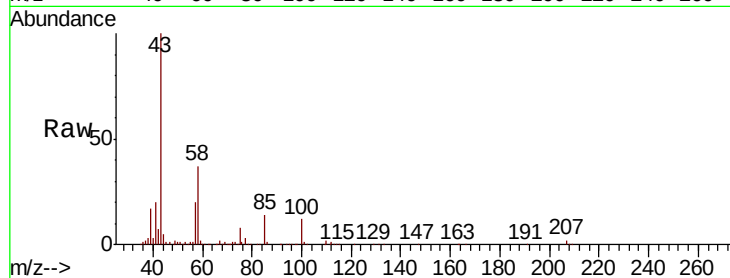
58 36.8 30.1 45.1

Manual Integrations

APPROVED

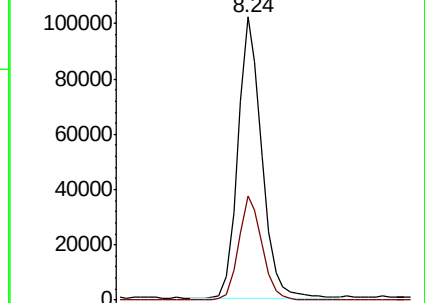
MMDadoda

11/6/2018 12:53:47 PM

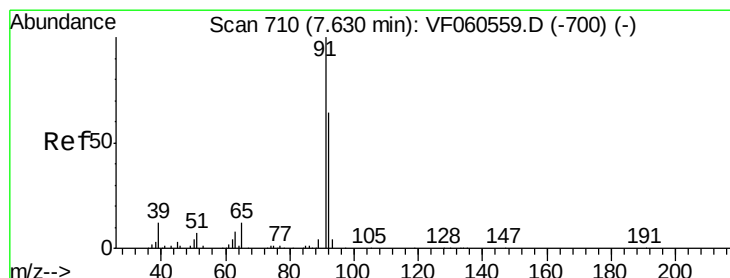
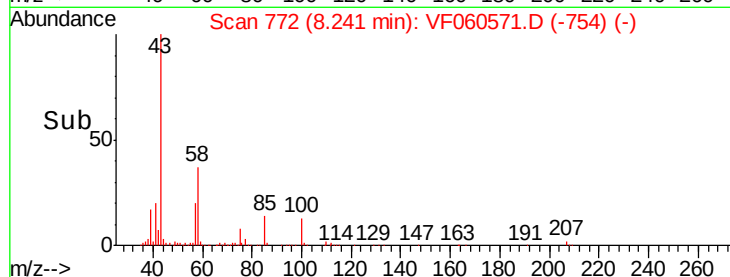


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#52

Toluene

Concen: 21.781 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF060571.D

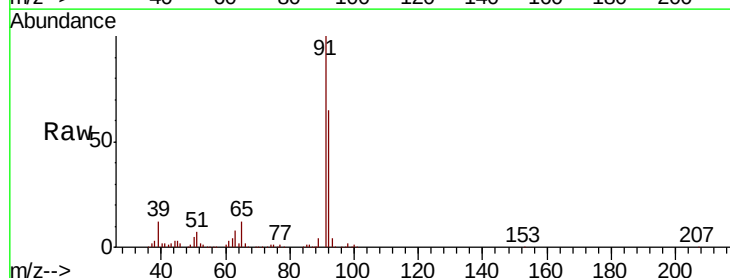
Acq: 5 Nov 2018 14:01

Tgt Ion: 92 Resp: 164641

Ion Ratio Lower Upper

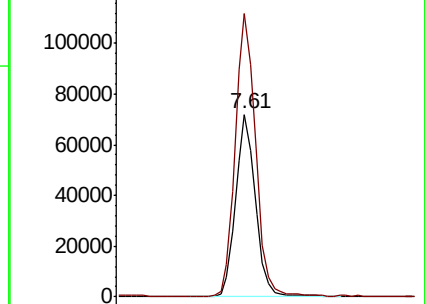
92 100

91 154.9 124.5 186.7

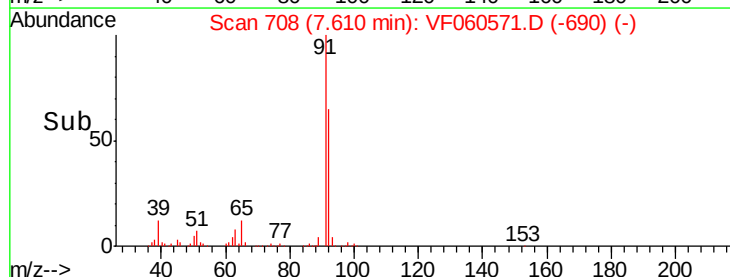


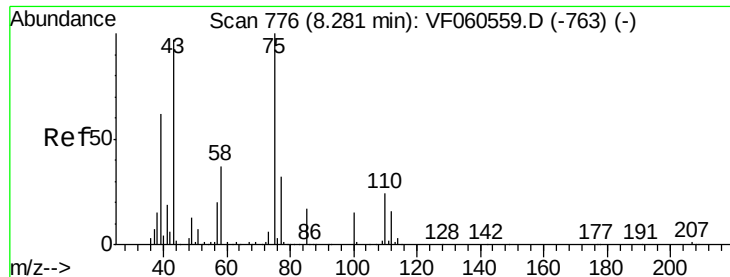
Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



Time-->





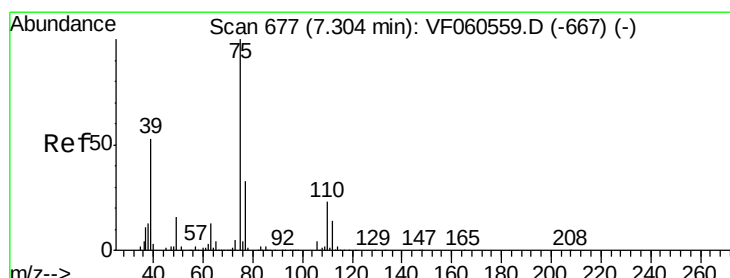
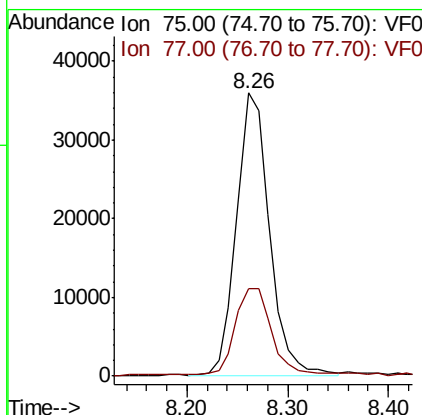
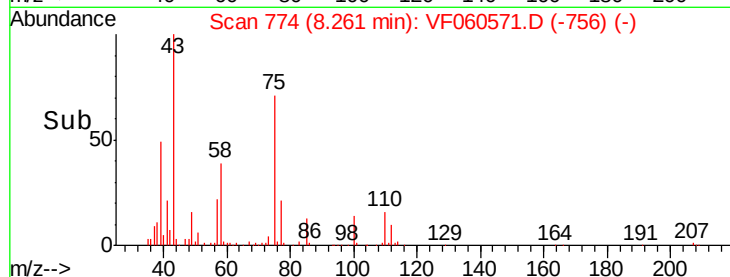
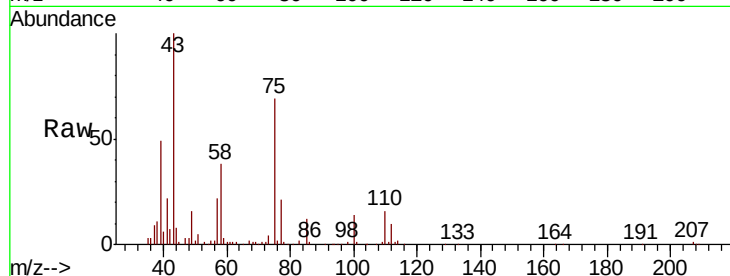
#53
t-1,3-Dichloropropene
Concen: 20.741 ug/l
RT: 8.26 min Scan# 774
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.7	38.5

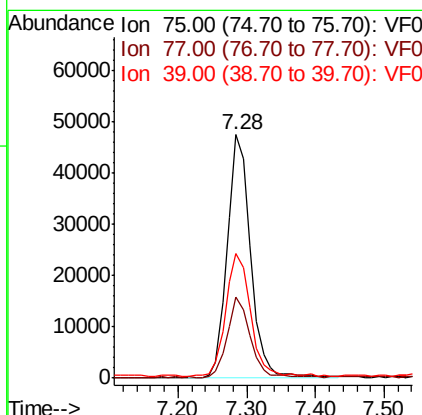
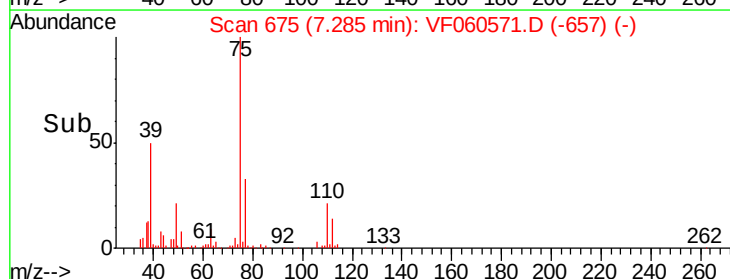
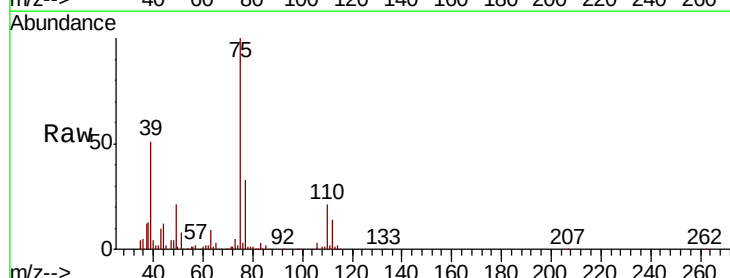
Manual Integrations
APPROVED

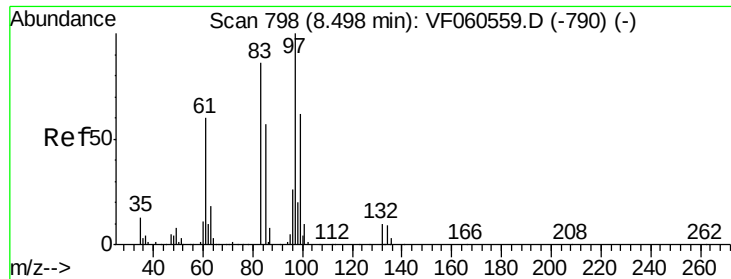
MMDadoda
11/6/2018 12:53:47 PM



#54
cis-1,3-Dichloropropene
Concen: 22.506 ug/l
RT: 7.28 min Scan# 675
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.4	26.7	40.1
39	51.3	43.0	64.4





#55

1,1,2-Trichloroethane

Concen: 21.344 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

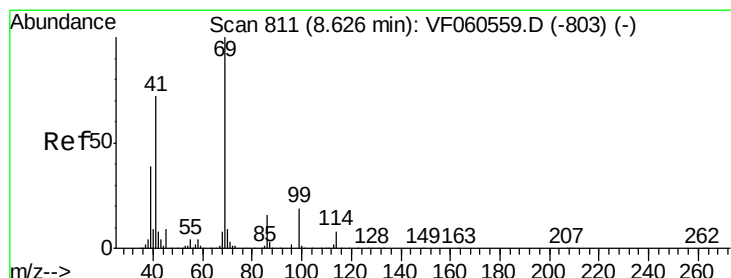
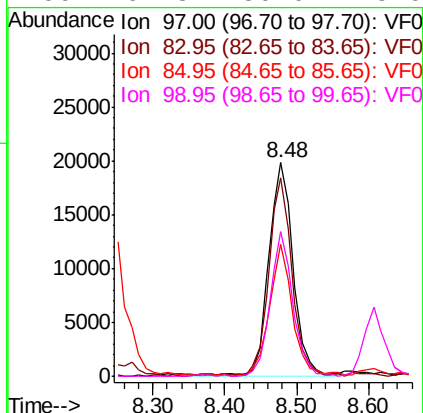
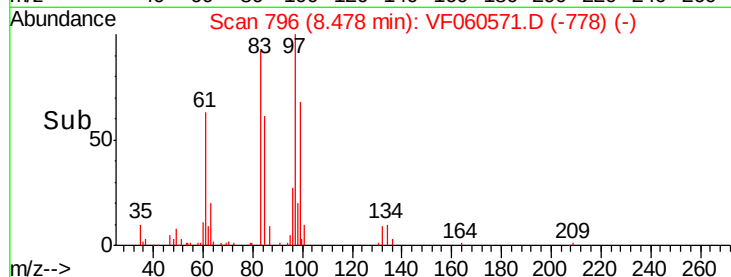
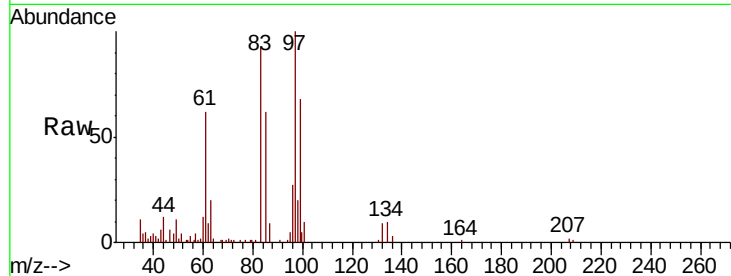
ClientSampleId :

VF1105SBSD01

Tot Ion:	97	Resp:	46949
Ion	Ratio	Lower	Upper
97	100		
83	92.7	69.4	104.0
85	61.8	46.6	69.8
99	67.8	50.0	75.0

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#56

Ethyl methacrylate

Concen: 22.094 ug/l

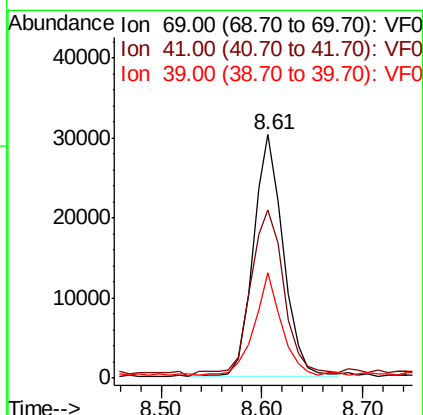
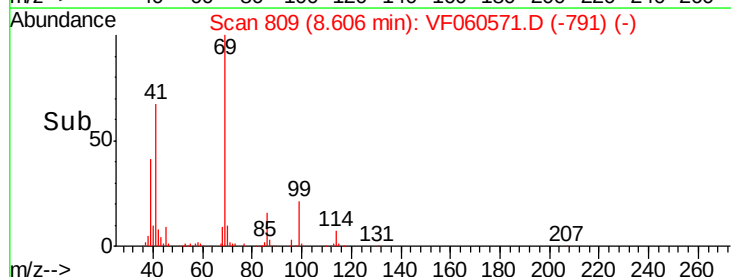
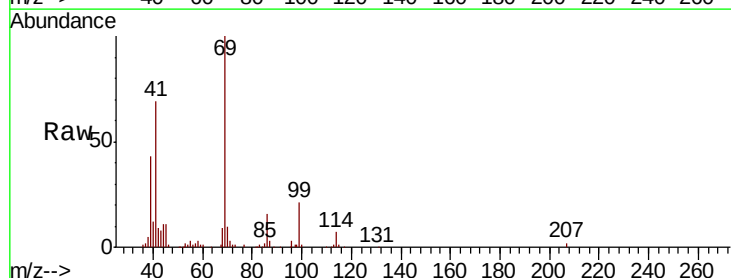
RT: 8.61 min Scan# 809

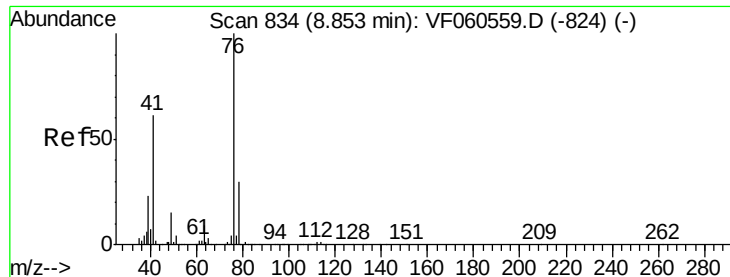
Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	69	Resp:	62526
Ion	Ratio	Lower	Upper
69	100		
41	69.2	59.2	88.8
39	43.3	32.3	48.5





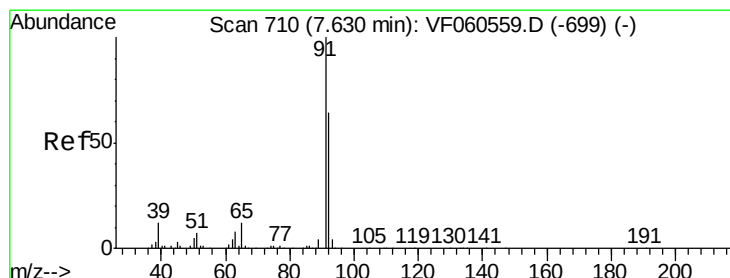
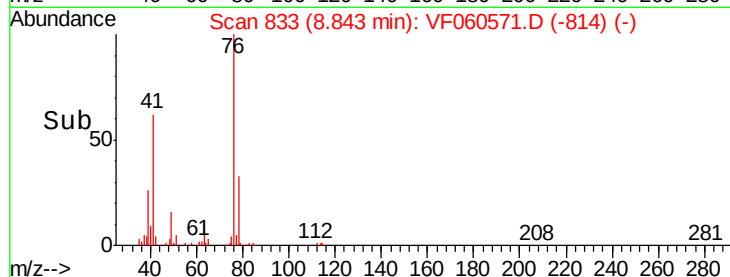
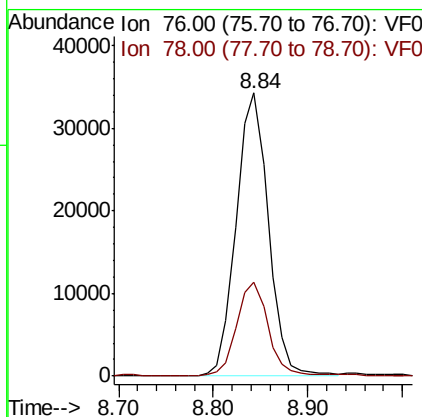
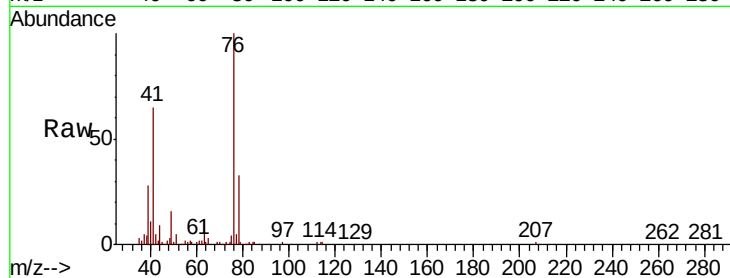
#57
 1,3-Dichloropropane
 Concen: 20.989 ug/l
 RT: 8.84 min Scan# 833
 Delta R.T. -0.01 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.2	24.2	36.4

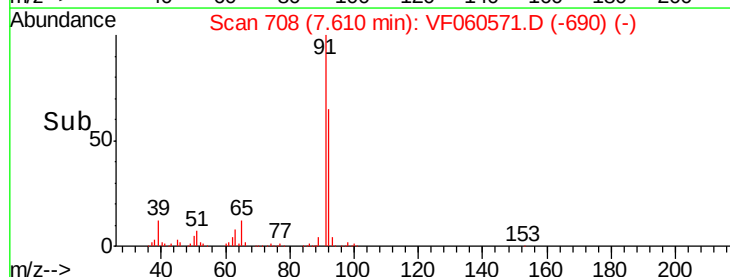
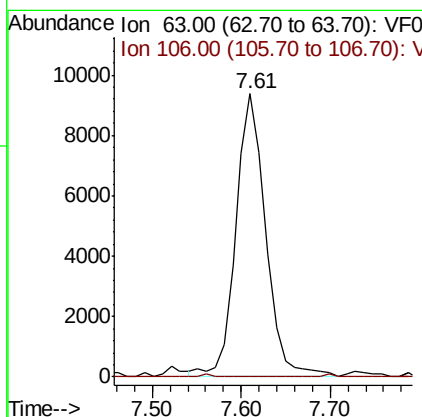
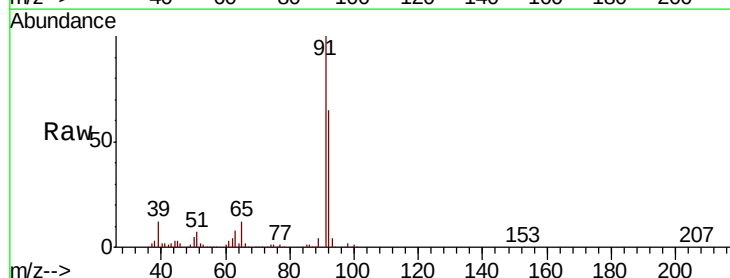
Manual Integrations
 APPROVED

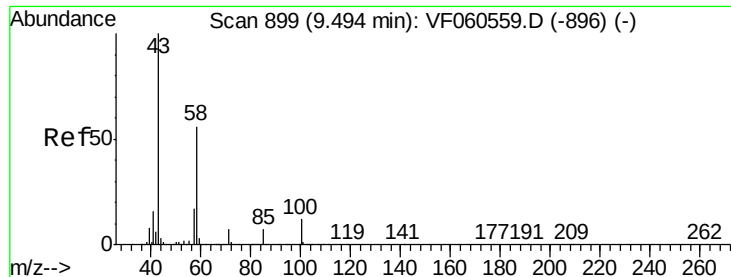
MMDadoda
 11/6/2018 12:53:47 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 109.665 ug/l
 RT: 7.61 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	0.0	0.0





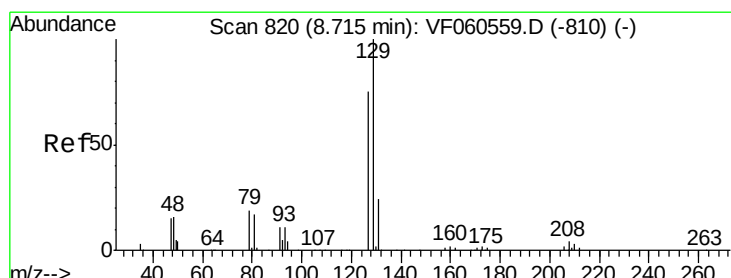
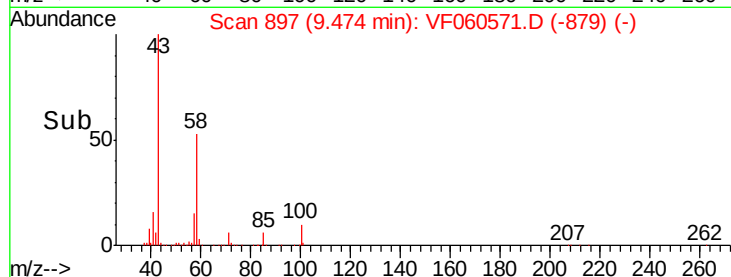
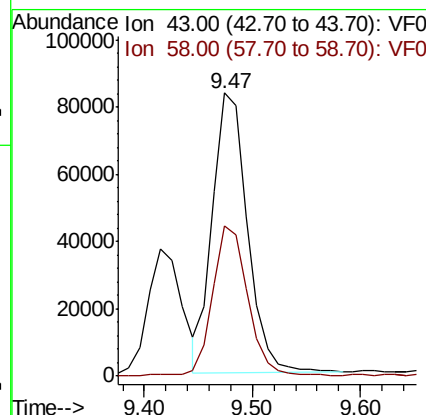
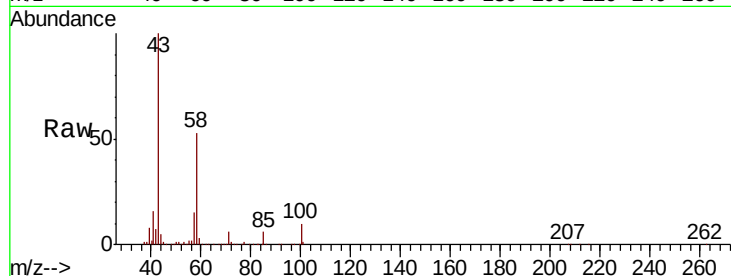
#59
2-Hexanone
Concen: 133.124 ug/l
RT: 9.47 min Scan# 897
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.0	26.1	78.3

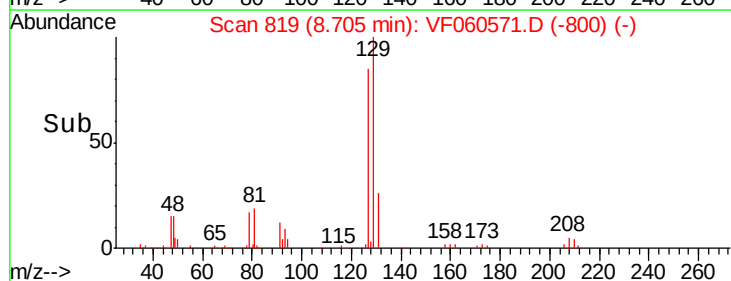
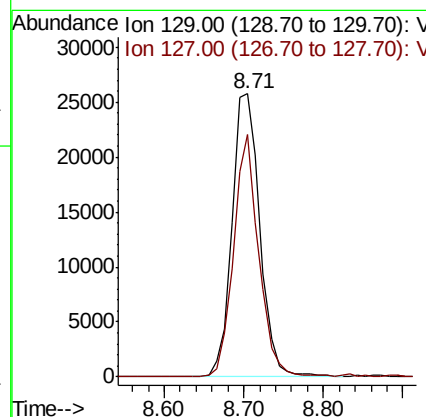
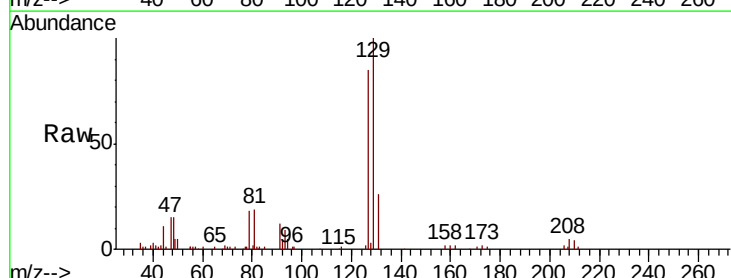
Manual Integrations
APPROVED

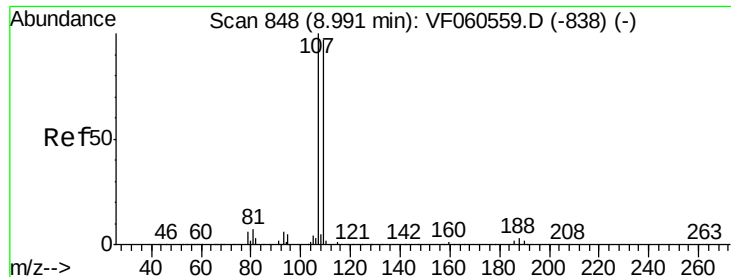
MMDadoda
11/6/2018 12:53:47 PM



#60
Dibromochloromethane
Concen: 20.493 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
129	100		
127	85.4	37.8	113.3





#61

1,2-Dibromoethane

Concen: 21.493 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion:107 Resp: 49717

Ion Ratio Lower Upper

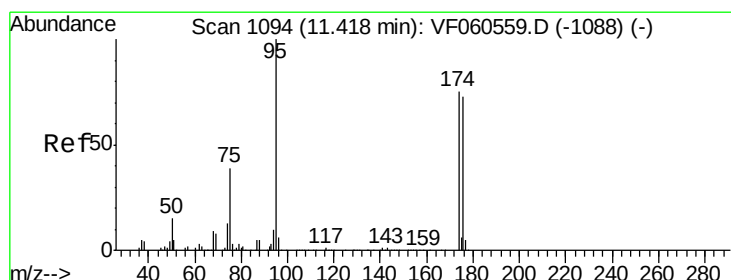
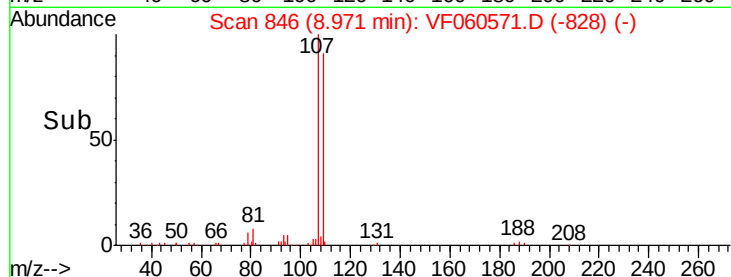
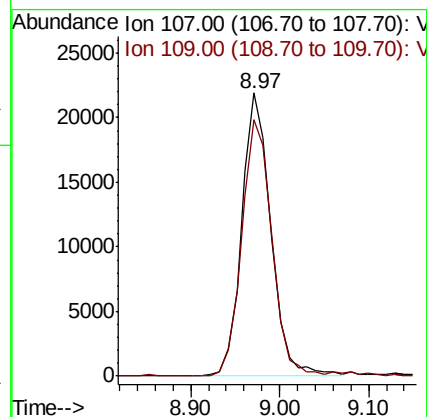
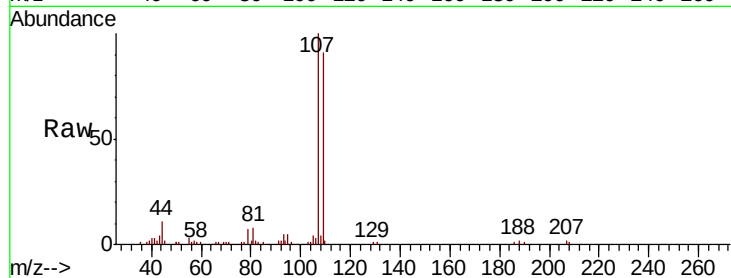
107 100

109 90.5 77.5 116.3

Manual Integrations
APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#62

4-Bromofluorobenzene

Concen: 53.321 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

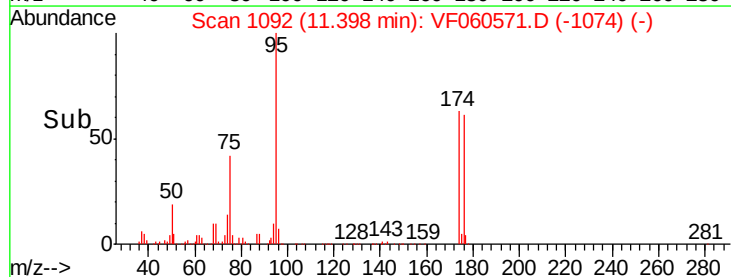
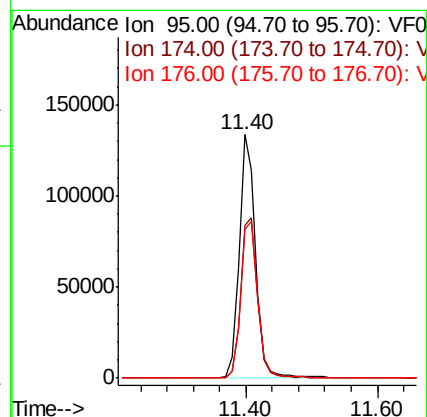
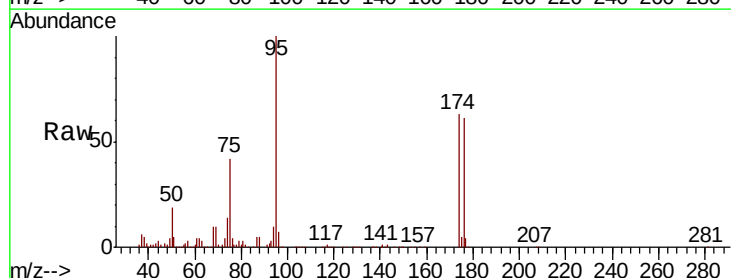
Tgt Ion: 95 Resp: 231755

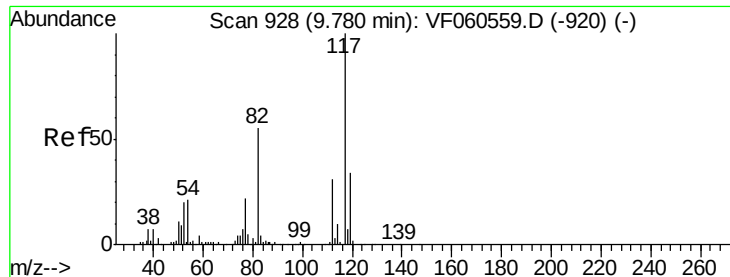
Ion Ratio Lower Upper

95 100

174 62.8 0.0 149.0

176 61.4 0.0 145.6





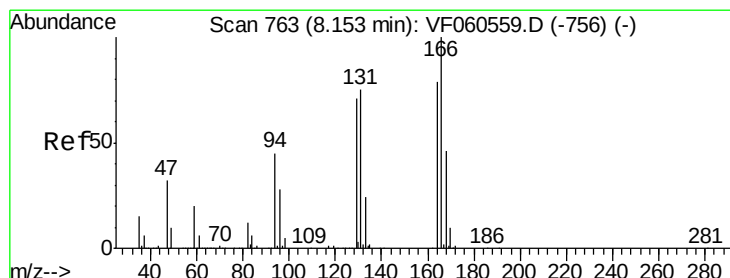
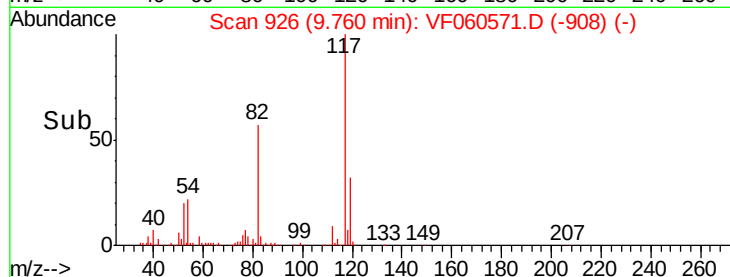
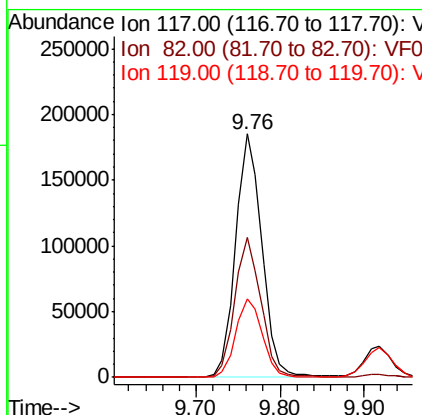
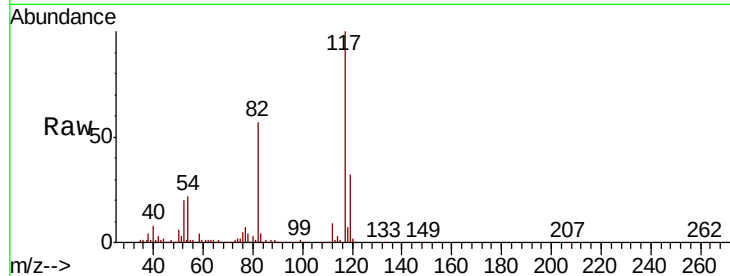
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.3	43.9	65.9
119	32.1	27.4	41.0

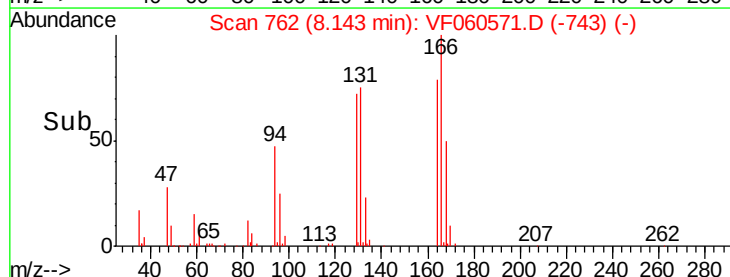
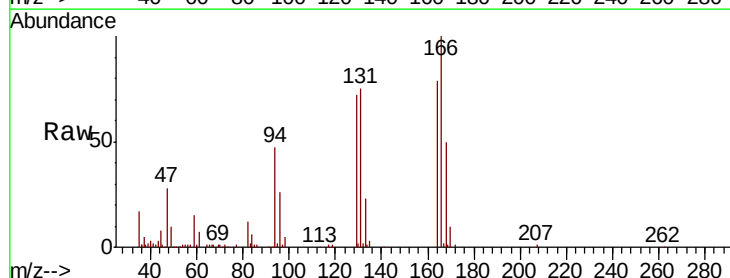
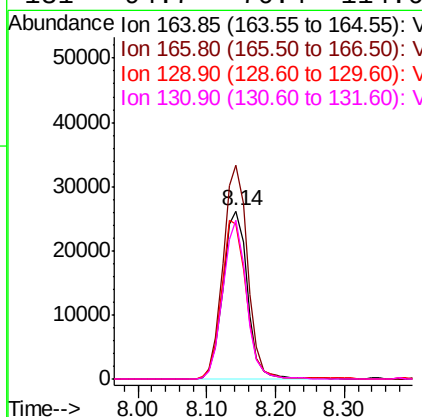
Manual Integrations
APPROVED

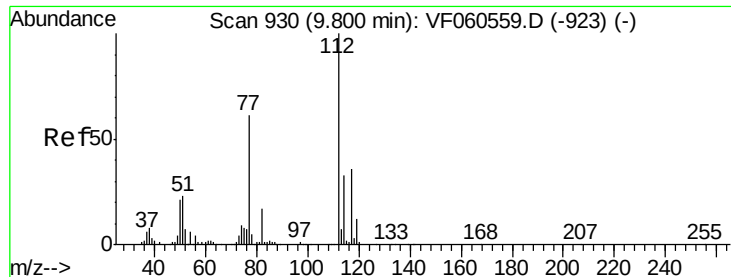
MMDadoda
11/6/2018 12:53:47 PM



#64
Tetrachloroethene
Concen: 20.372 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.2	101.5	152.3
129	92.0	72.5	108.7
131	94.7	76.4	114.6





#65

Chlorobenzene

Concen: 21.303 ug/l

RT: 9.79 min Scan# 929

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBSD01

Tot Ion:112 Resp: 175755

Ion Ratio Lower Upper

112 100

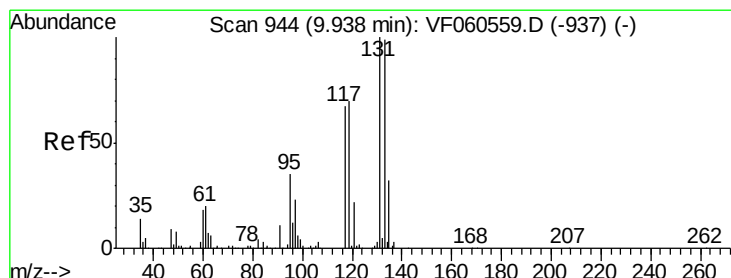
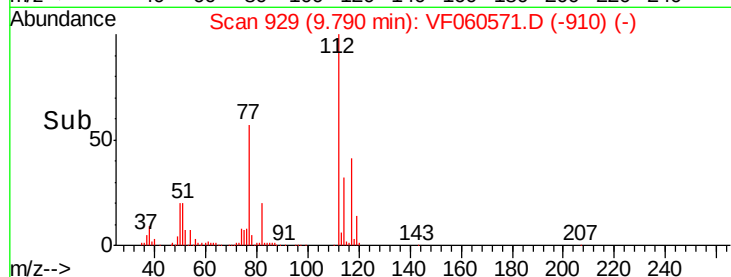
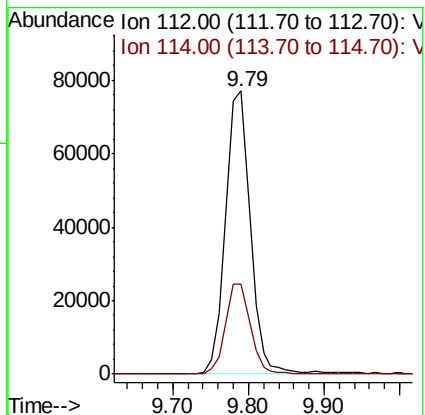
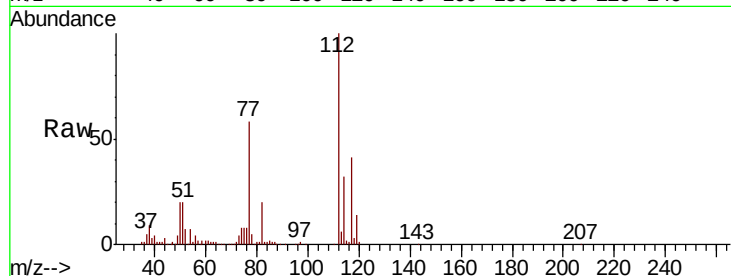
114 31.8 26.6 40.0

Manual Integrations

APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 21.591 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

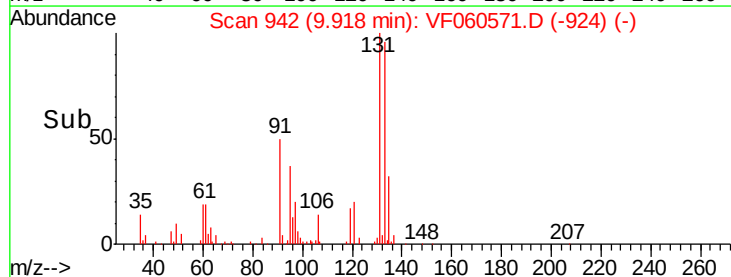
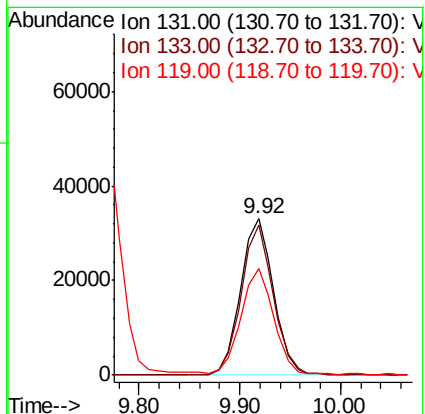
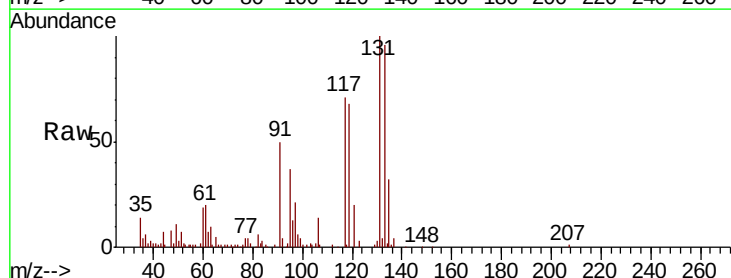
Tgt Ion:131 Resp: 75267

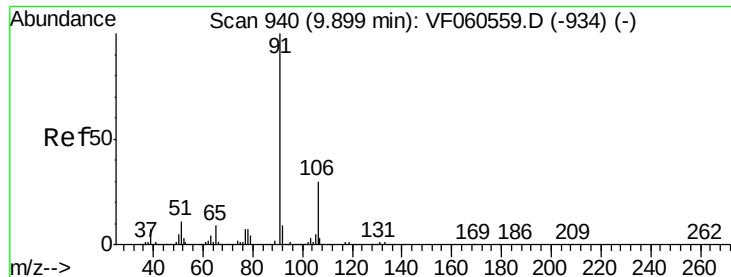
Ion Ratio Lower Upper

131 100

133 96.3 49.5 148.7

119 68.0 35.2 105.6





#67

Ethyl Benzene

Concen: 22.805 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBSD01

Tot Ion: 91 Resp: 341430

Ion Ratio Lower Upper

91 100

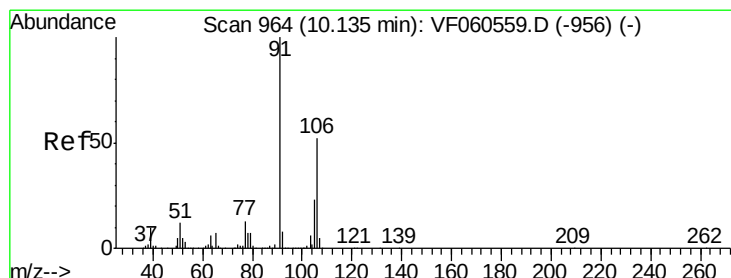
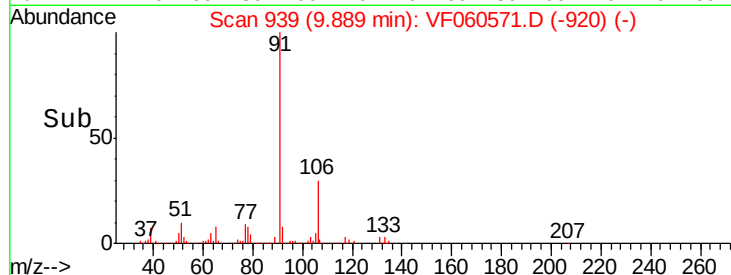
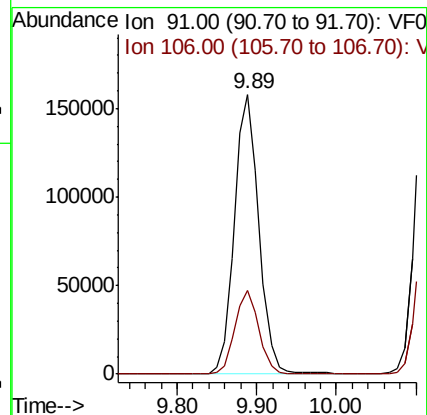
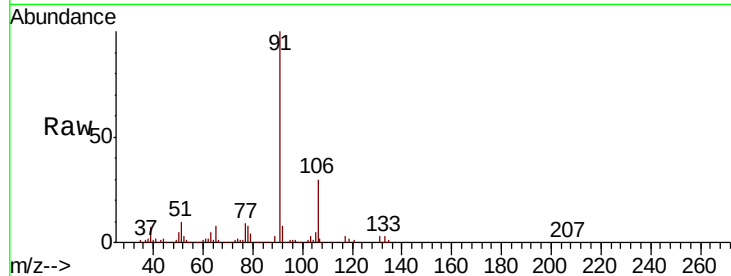
106 30.2 24.2 36.4

Manual Integrations

APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#68

m/p-Xylenes

Concen: 44.235 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.02 min

Lab File: VF060571.D

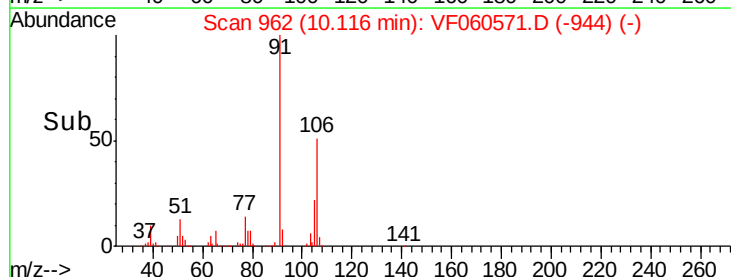
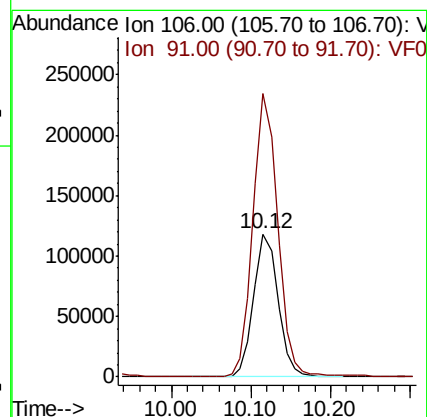
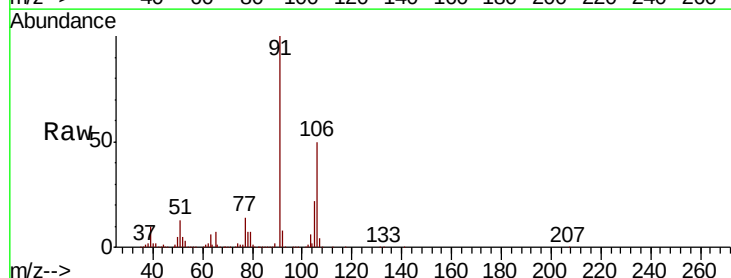
Acq: 5 Nov 2018 14:01

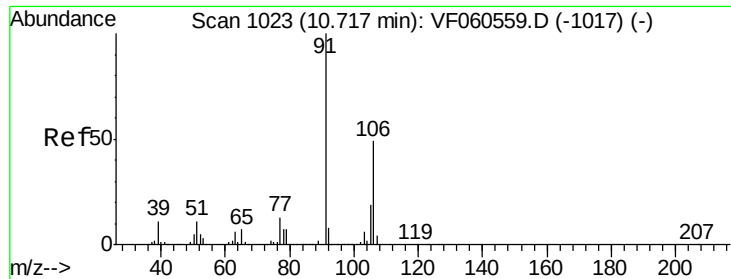
Tgt Ion: 106 Resp: 249467

Ion Ratio Lower Upper

106 100

91 198.2 153.9 230.9





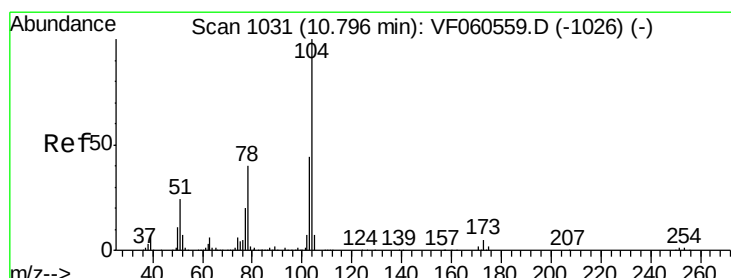
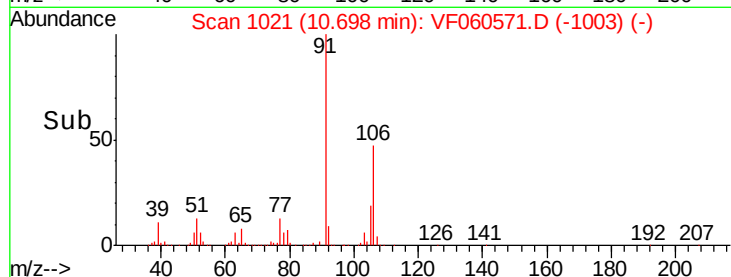
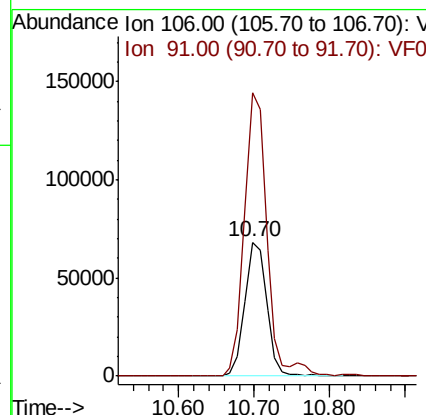
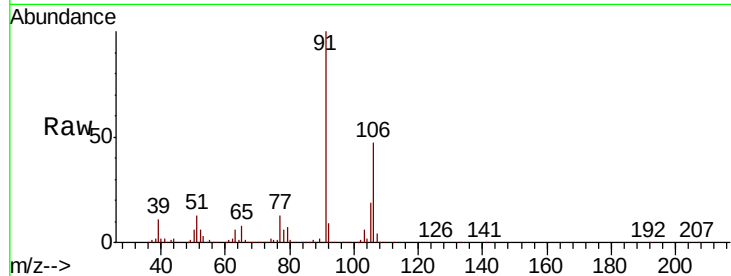
#69
o-Xylene
Concen: 22.374 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	210.9	101.8	305.3	

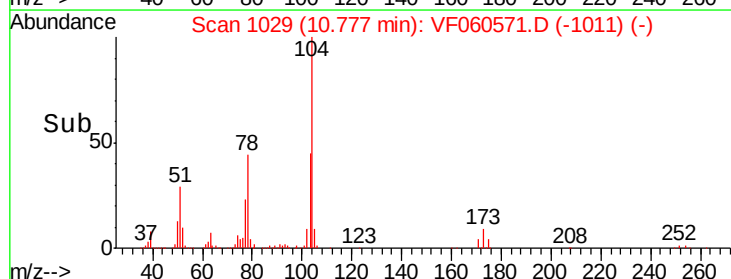
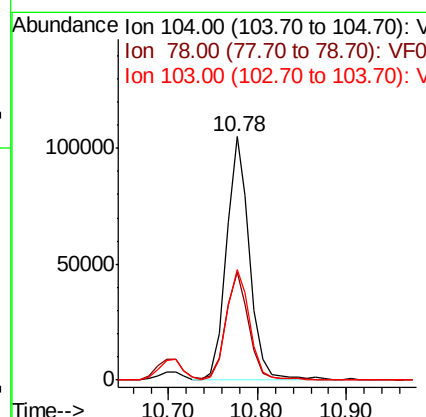
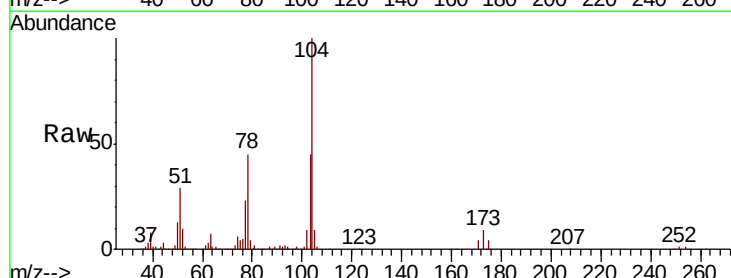
Manual Integrations
APPROVED

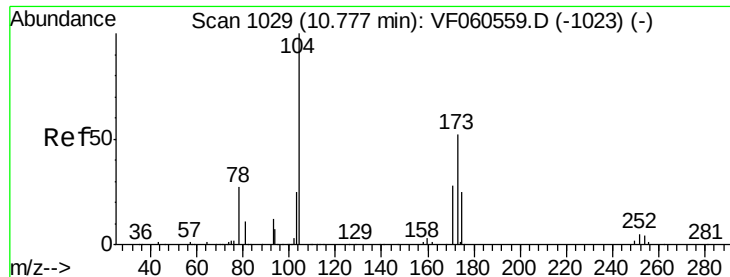
MMDadoda
11/6/2018 12:53:47 PM



#70
Styrene
Concen: 21.351 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	44.6	32.6	49.0	
103	45.5	35.2	52.8	





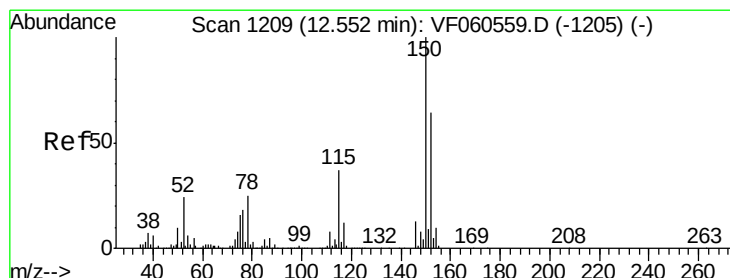
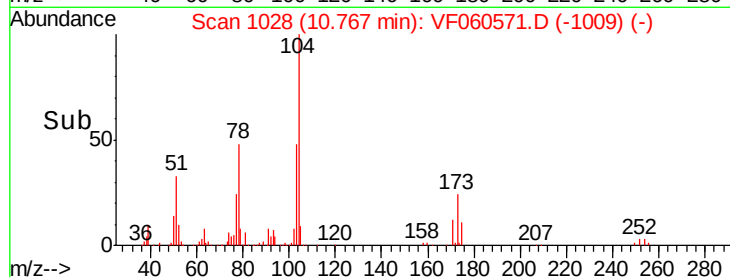
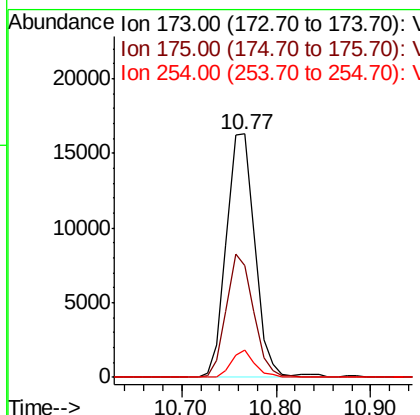
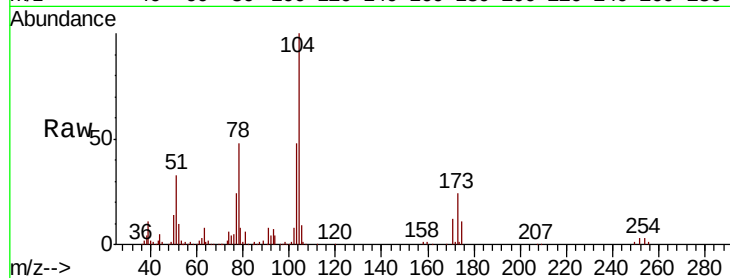
#71
Bromoform
Concen: 19.083 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.1	24.3	72.9
254	11.1	6.7	10.1

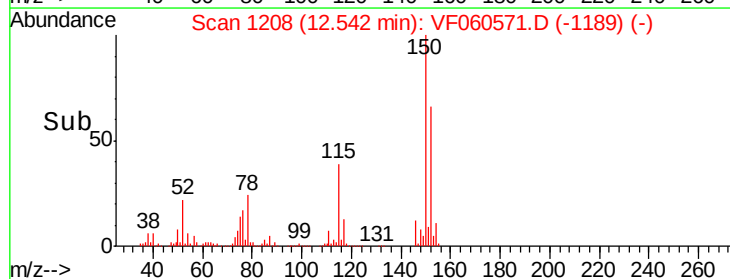
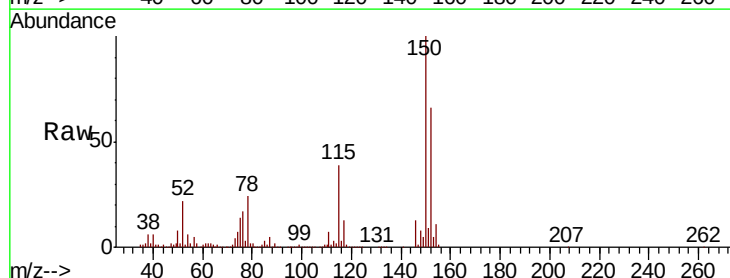
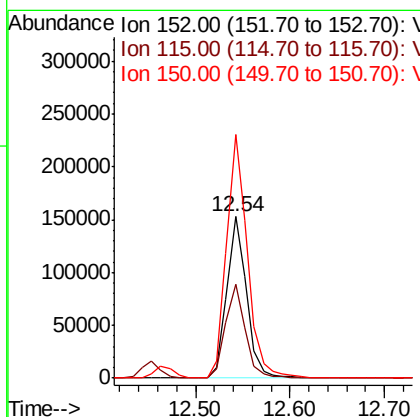
Manual Integrations
APPROVED

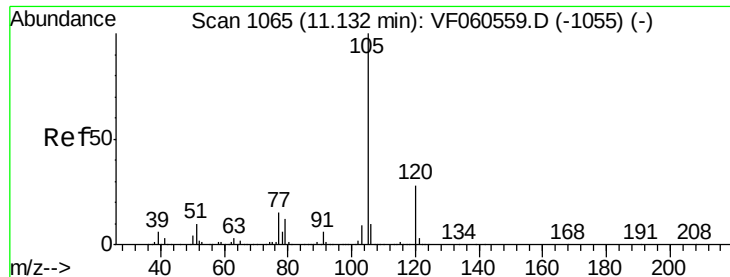
MMDadoda
11/6/2018 12:53:47 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.3	29.6	88.8
150	150.9	0.0	315.6





#73

Isopropylbenzene

Concen: 22.643 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion:105 Resp: 391085

Ion Ratio Lower Upper

105 100

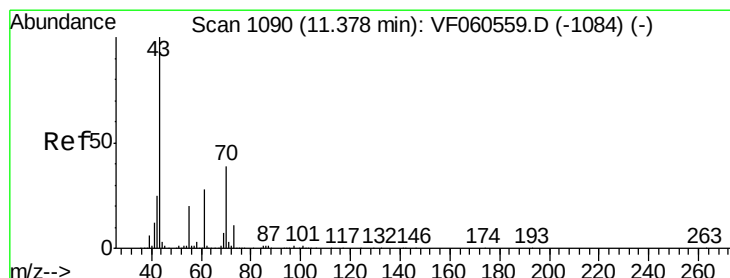
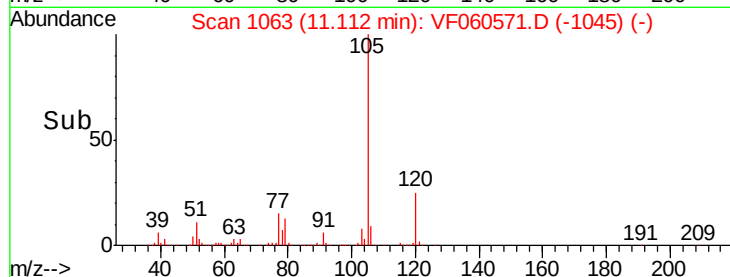
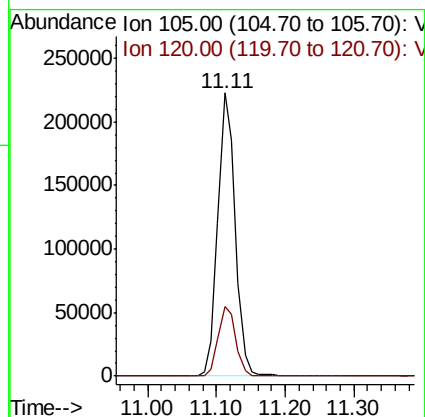
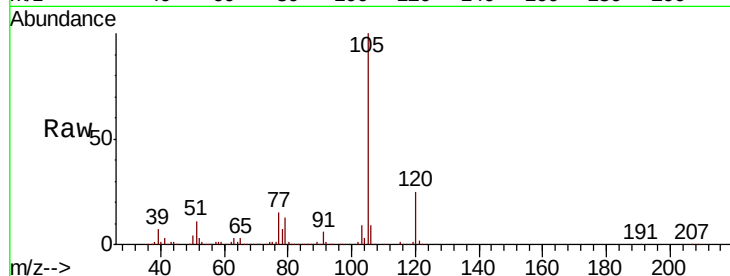
120 24.7 13.9 41.6

Manual Integrations

APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#74

N-ethyl acetate

Concen: 22.894 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion: 43 Resp: 108651

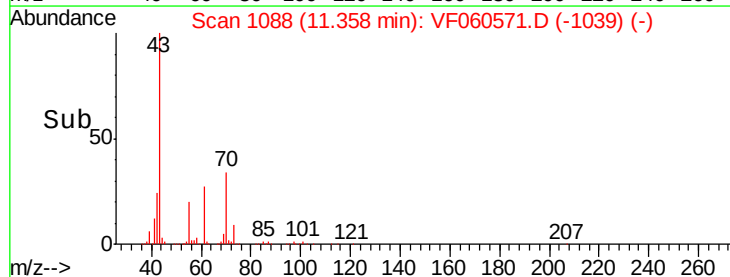
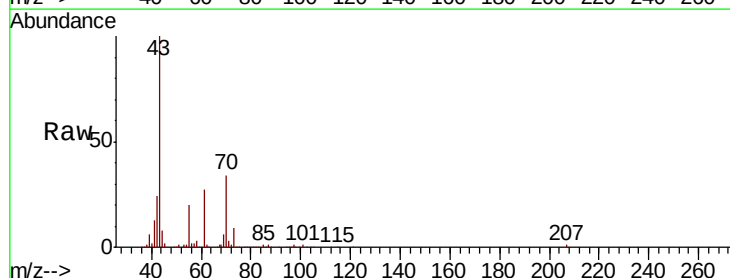
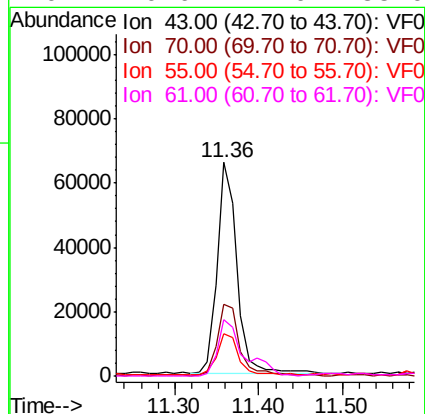
Ion Ratio Lower Upper

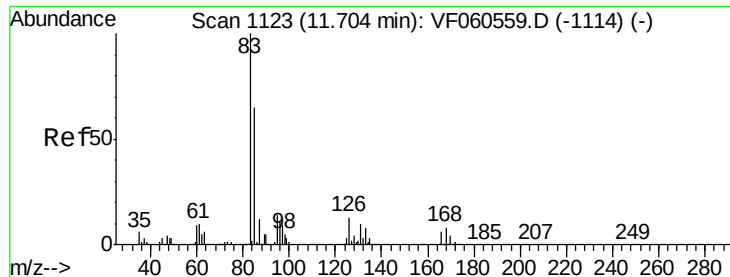
43 100

70 33.8 30.9 46.3

55 20.0 16.6 24.8

61 26.6 22.0 33.0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.253 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

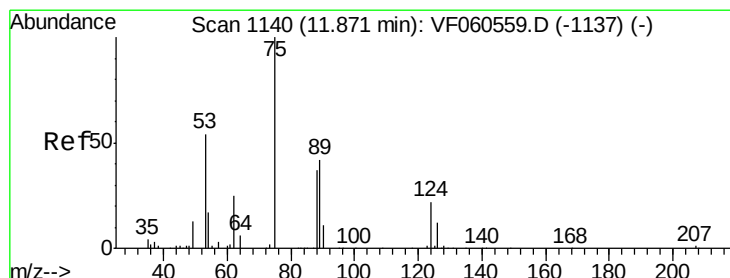
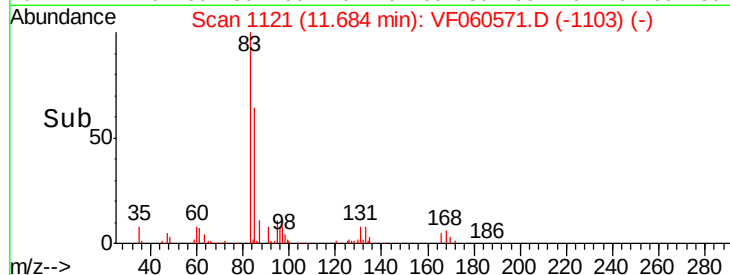
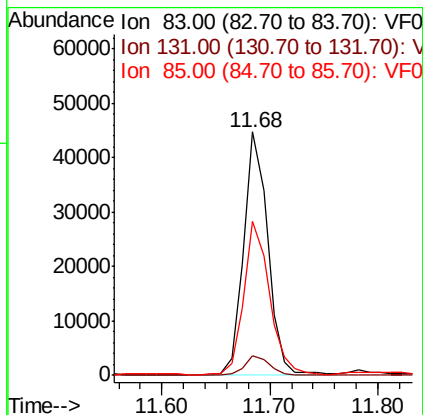
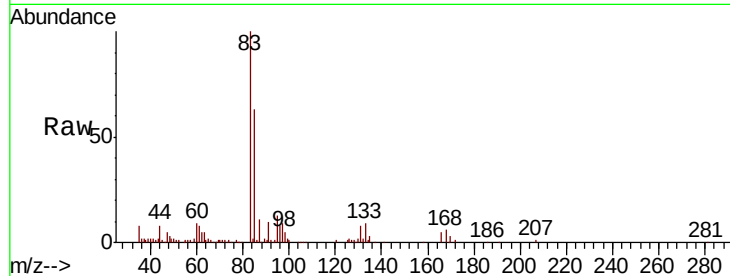
ClientSampleId :

VF1105SBSD01

Tot Ion:	83	Resp:	70155
Ion Ratio	Lower	Upper	
83	100		
131	8.1	5.0	14.9
85	63.4	32.9	98.7

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#76

1,2,3-Trichloropropane

Concen: 21.831 ug/l

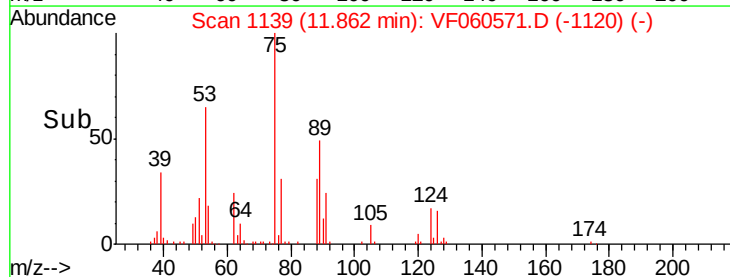
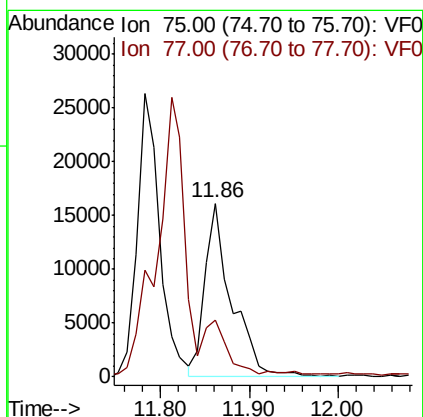
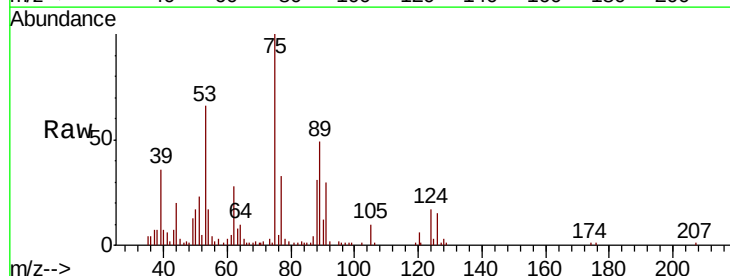
RT: 11.86 min Scan# 1139

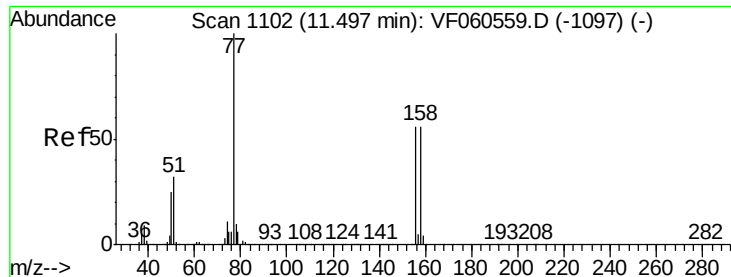
Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	75	Resp:	33824
Ion Ratio	Lower	Upper	
75	100		
77	32.6	17.4	52.3





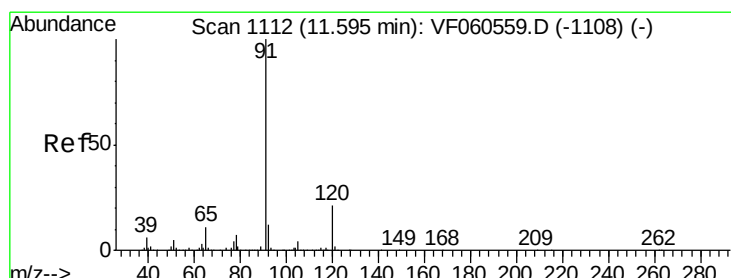
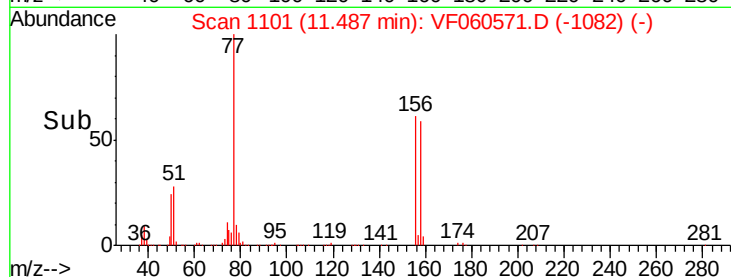
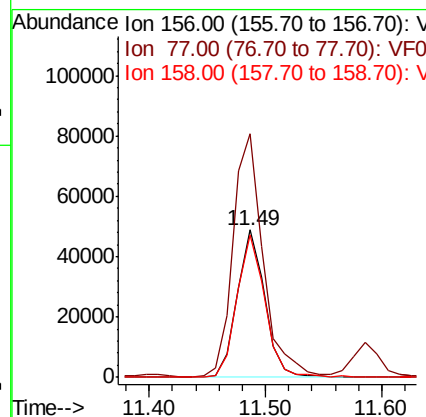
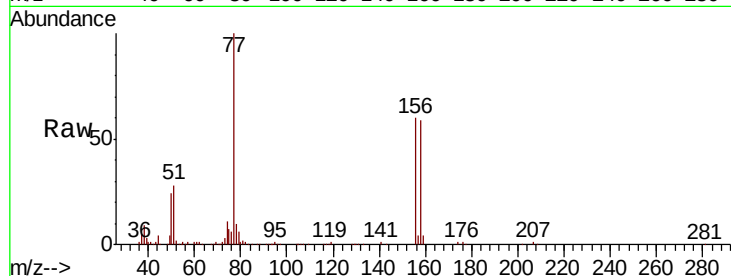
#77
Bromobenzene
Concen: 21.232 ug/l
RT: 11.49 min Scan# 1101
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	165.4	89.3	268.1
158	96.9	50.0	150.1

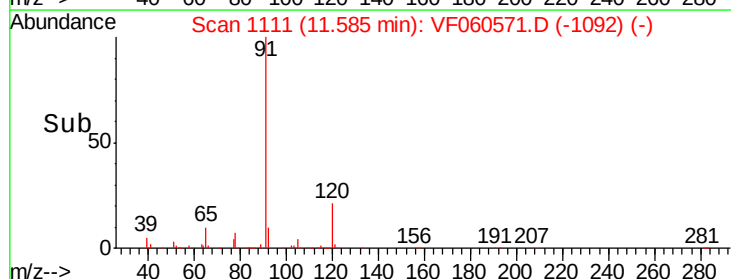
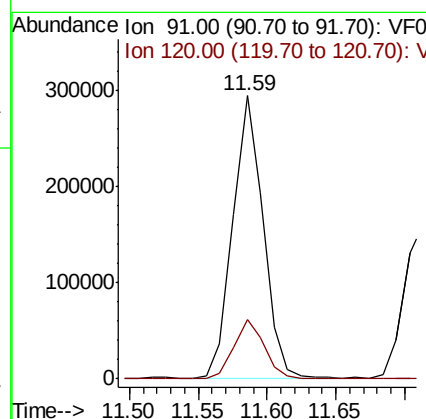
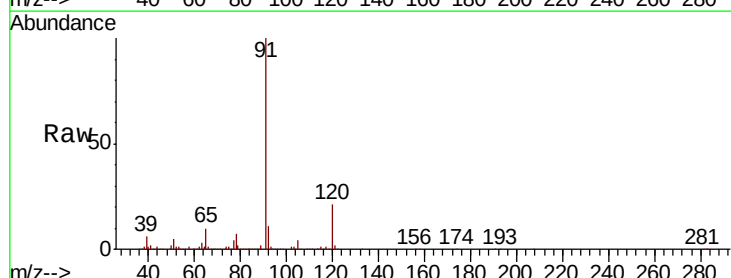
Manual Integrations
APPROVED

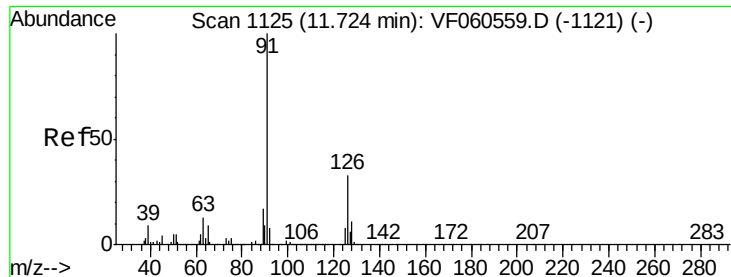
MMDadoda
11/6/2018 12:53:47 PM



#78
n-propylbenzene
Concen: 22.423 ug/l
RT: 11.59 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.5	31.6





#79

2-Chlorotoluene

Concen: 22.168 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion: 91 Resp: 255835

Ion Ratio Lower Upper

91 100

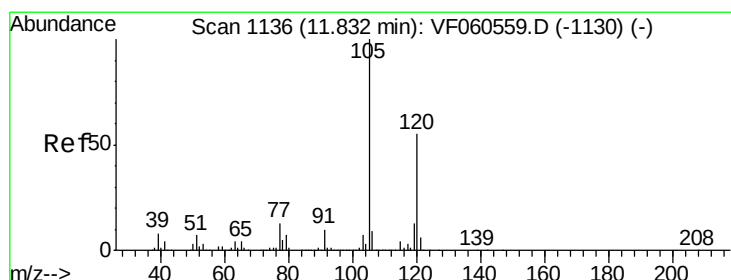
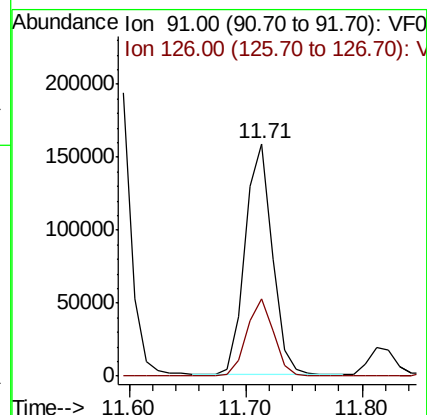
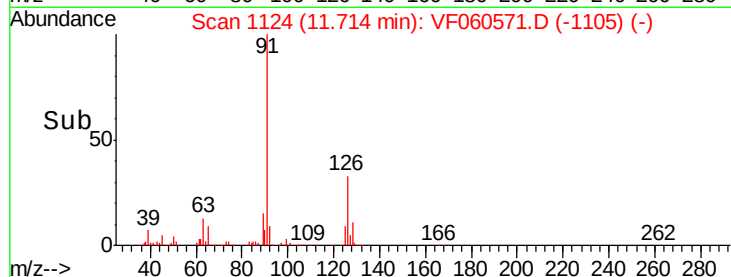
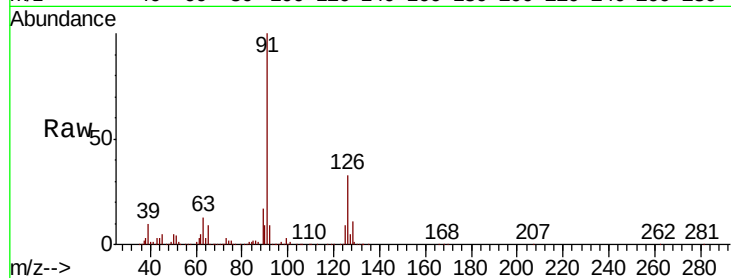
126 33.1 16.5 49.5

Manual Integrations

APPROVED

MMDadoda

11/6/2018 12:53:47 PM



#80

1,3,5-Trimethylbenzene

Concen: 22.044 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.02 min

Lab File: VF060571.D

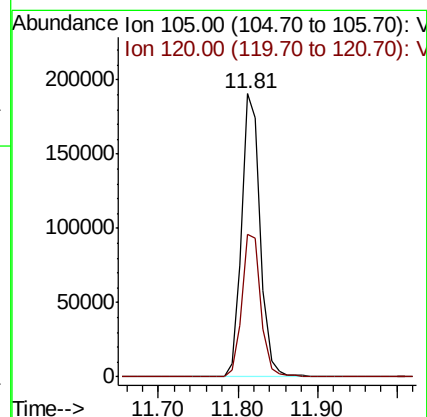
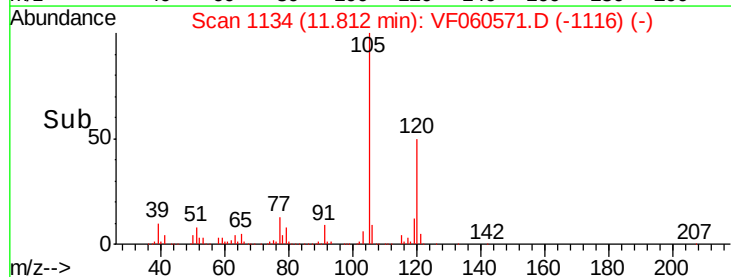
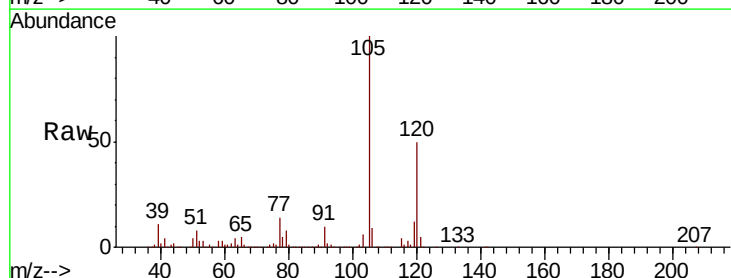
Acq: 5 Nov 2018 14:01

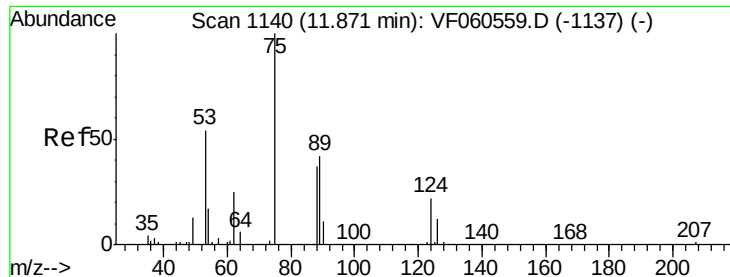
Tgt Ion: 105 Resp: 313834

Ion Ratio Lower Upper

105 100

120 50.2 27.6 82.8





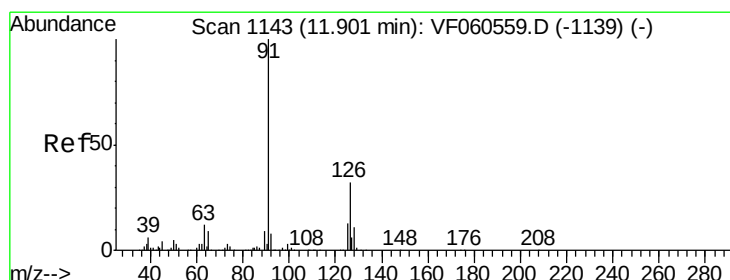
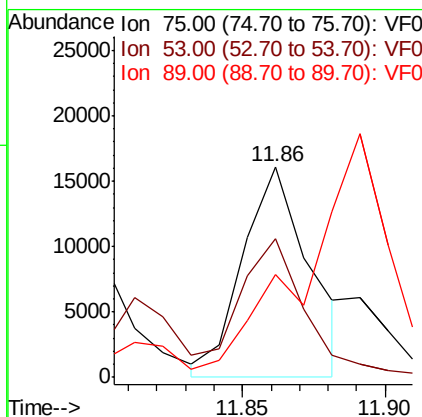
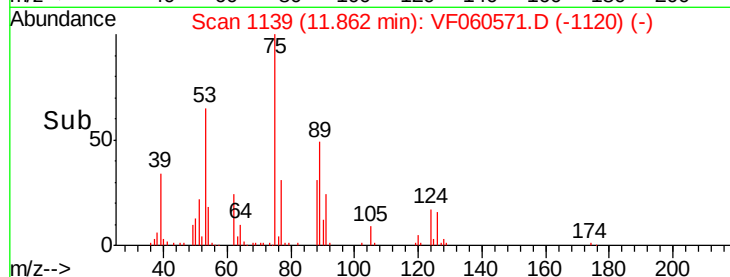
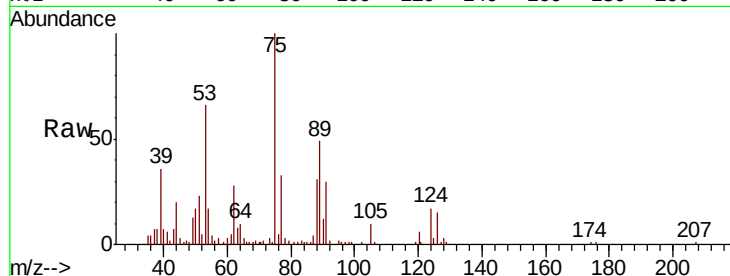
#81
trans-1,4-Dichloro-2-butene
Concen: 21.497 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	66.0	51.6	77.4
89	48.6	36.7	55.1

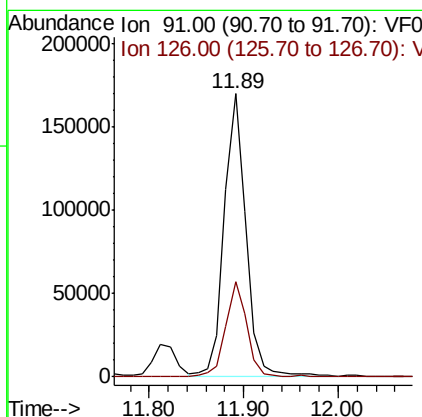
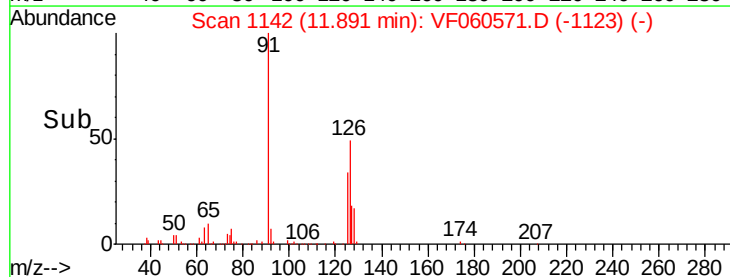
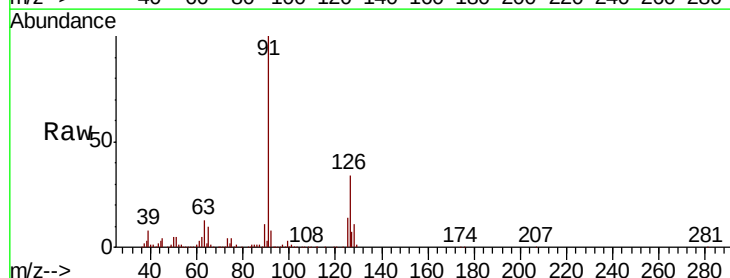
Manual Integrations
APPROVED

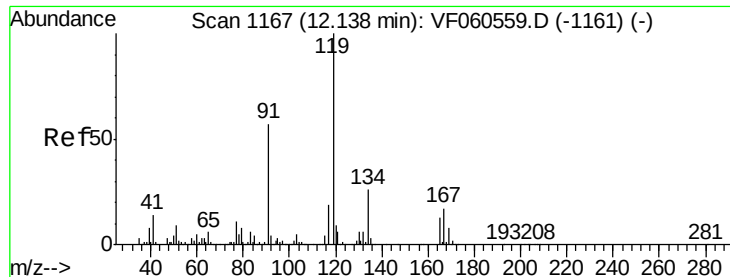
MMDadoda
11/6/2018 12:53:47 PM



#82
4-Chlorotoluene
Concen: 22.199 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.7	15.9	47.7





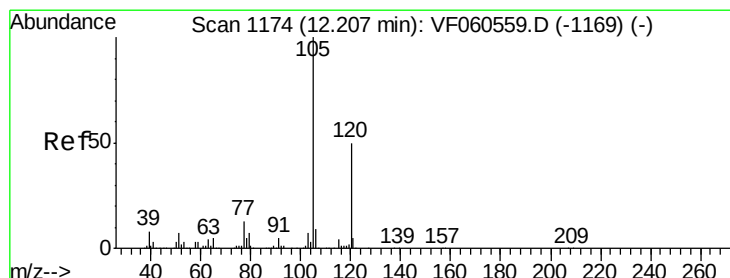
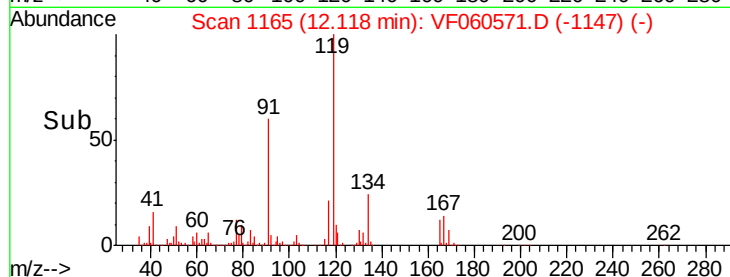
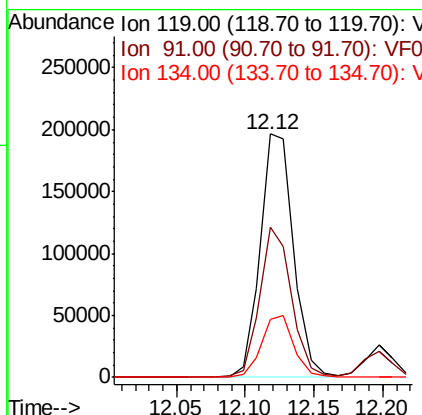
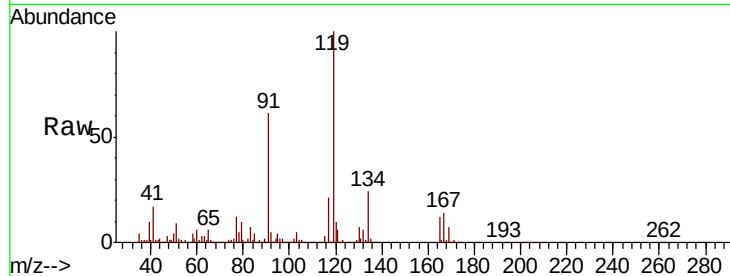
#83
tert-Butylbenzene
Concen: 22.843 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.4	28.8	86.4
134	23.6	13.2	39.6

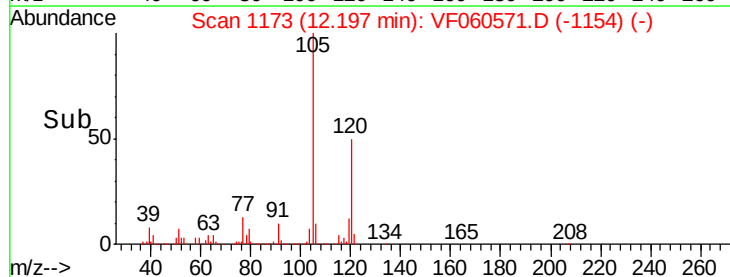
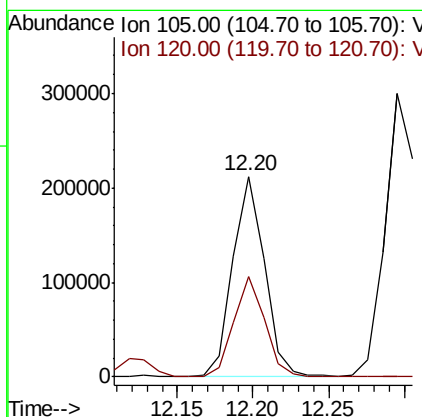
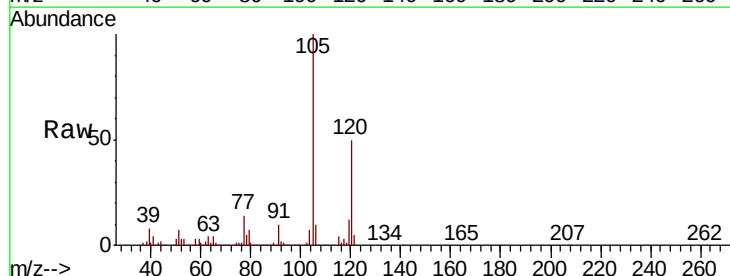
Manual Integrations
APPROVED

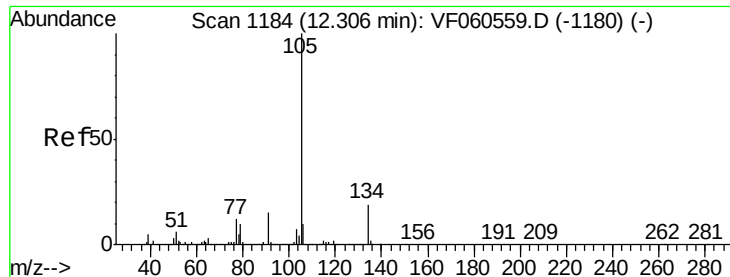
MMDadoda
11/6/2018 12:53:47 PM



#84
1,2,4-Trimethylbenzene
Concen: 22.305 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.8	25.6	76.8





#85

sec-Butylbenzene

Concen: 22.582 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

ClientSampleId :

VF1105SBS01

Tot Ion:105 Resp: 451806

Ion Ratio Lower Upper

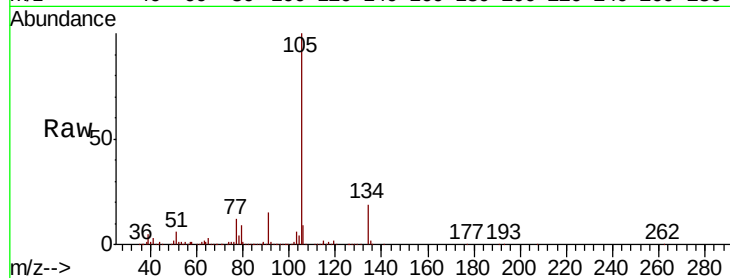
105 100

134 18.8 9.7 29.1

Manual Integrations
APPROVED

MMDadoda

11/6/2018 12:53:47 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

300000

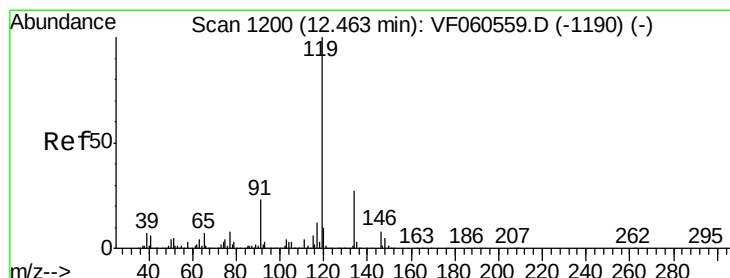
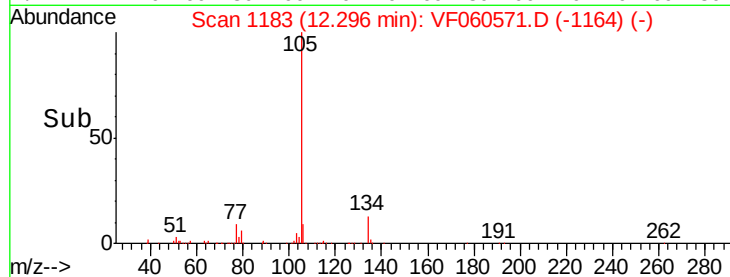
200000

100000

0

12.20 12.30 12.40

Time-->



#86

p-Isopropyltoluene

Concen: 22.634 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

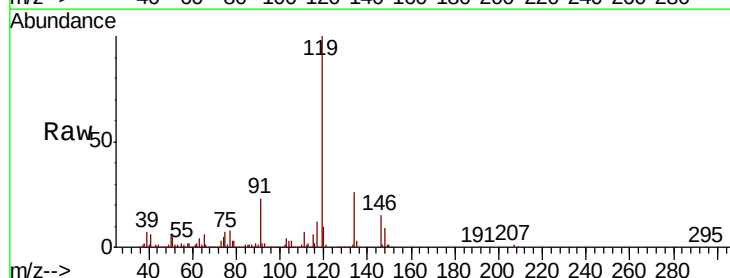
Tgt Ion:119 Resp: 372923

Ion Ratio Lower Upper

119 100

134 25.7 13.6 40.7

91 22.5 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

300000

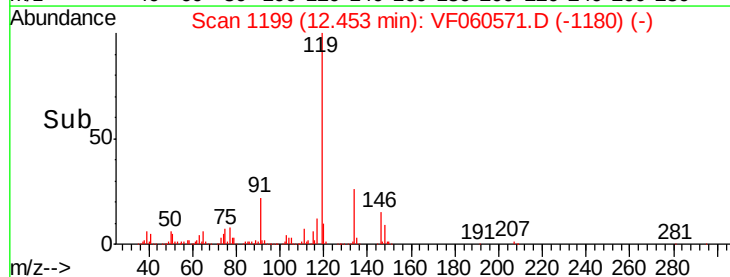
200000

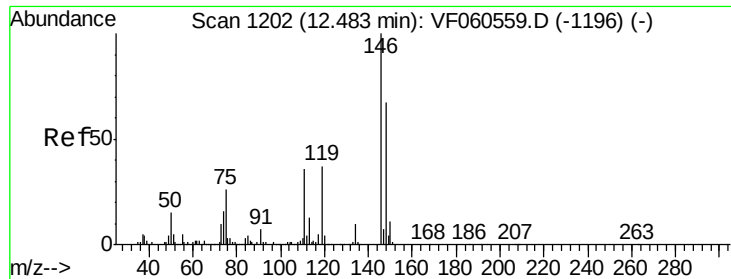
100000

0

12.30 12.40 12.50 12.60

Time-->





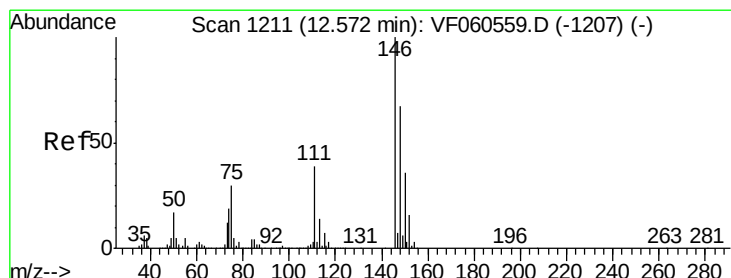
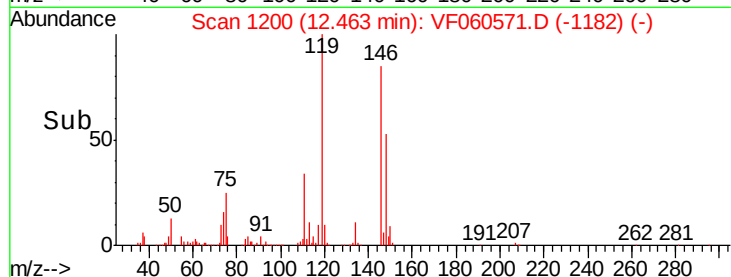
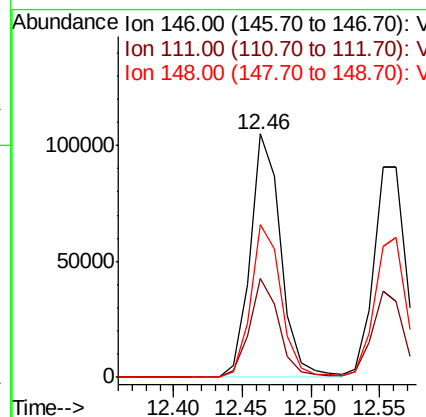
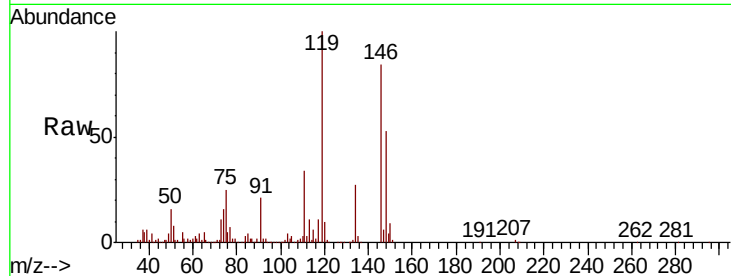
#87
 1,3-Dichlorobenzene
 Concen: 22.072 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	18.3	54.8
148	62.9	33.5	100.4

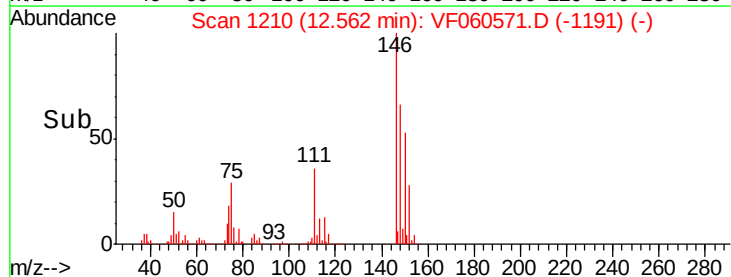
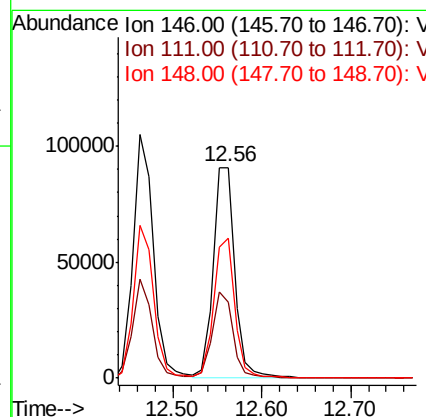
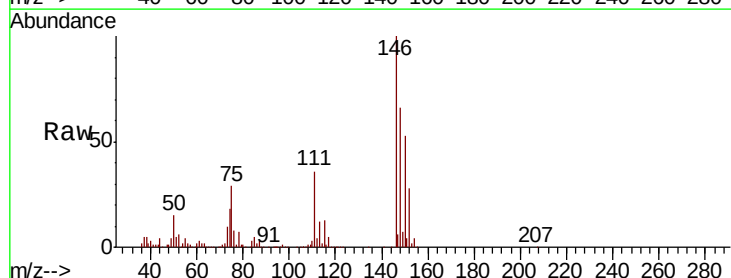
Manual Integrations
 APPROVED

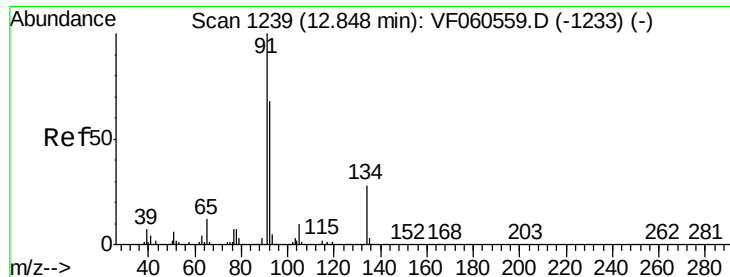
MMDadoda
 11/6/2018 12:53:47 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.635 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	19.7	59.1
148	66.5	33.7	101.1





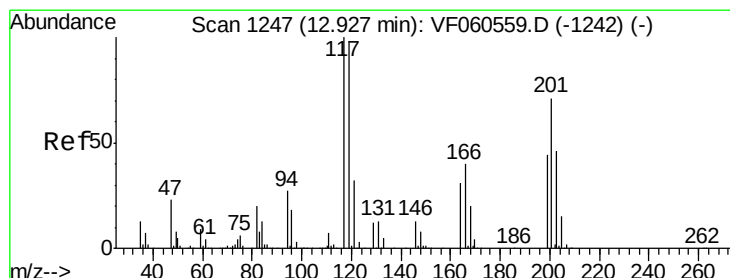
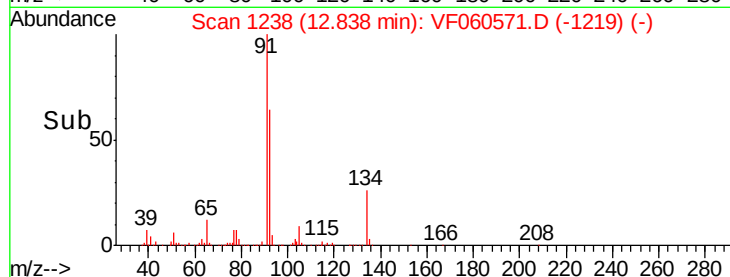
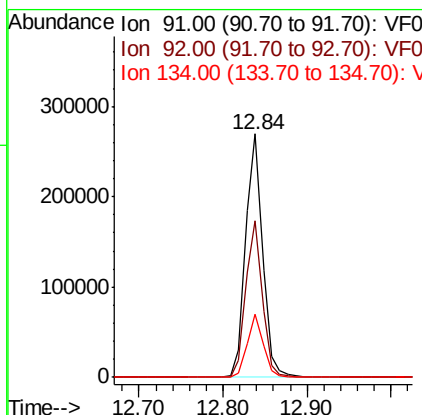
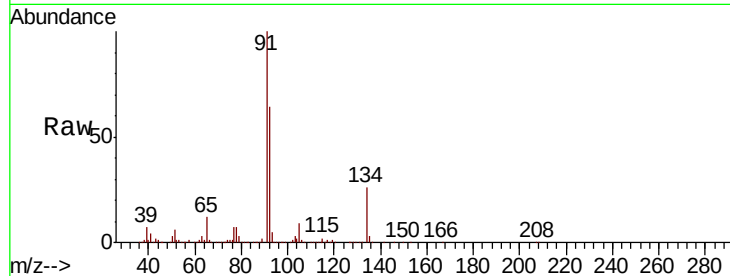
#89
n-Butylbenzene
Concen: 21.116 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Instrument :
MSVOA_F
ClientSampleId :
VF1105SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.4	34.1	102.2
134	26.0	13.9	41.6

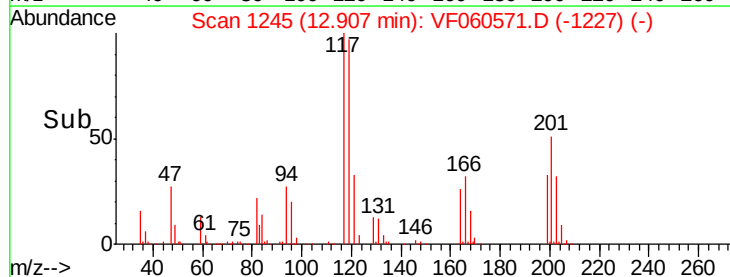
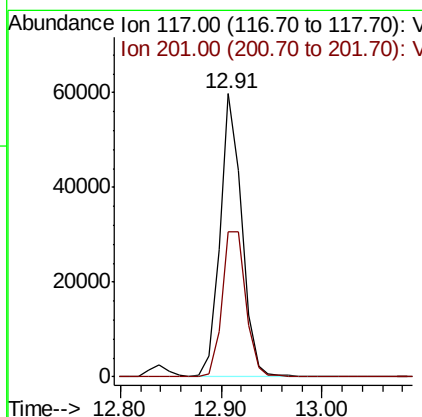
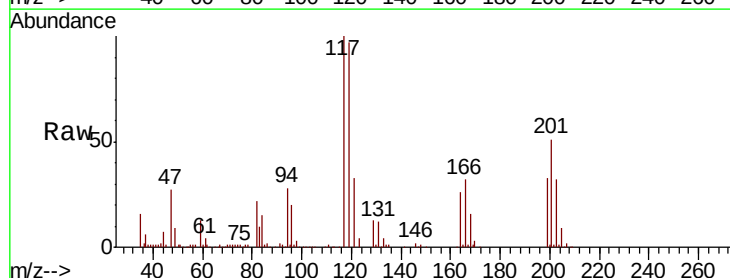
Manual Integrations
APPROVED

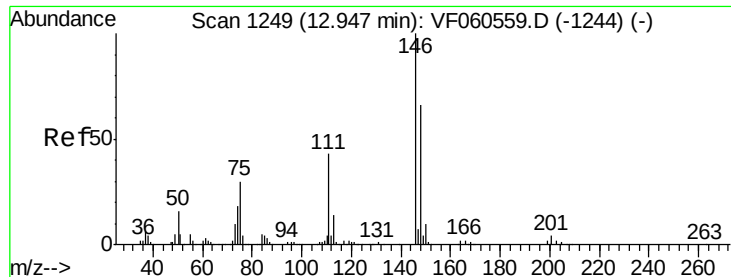
MMDadoda
11/6/2018 12:53:47 PM



#90
Hexachloroethane
Concen: 21.499 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF060571.D
Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	51.5	35.2	105.6





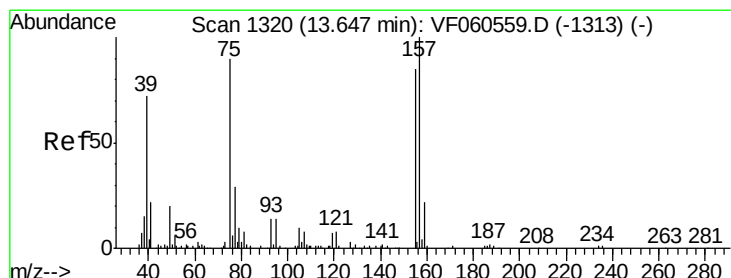
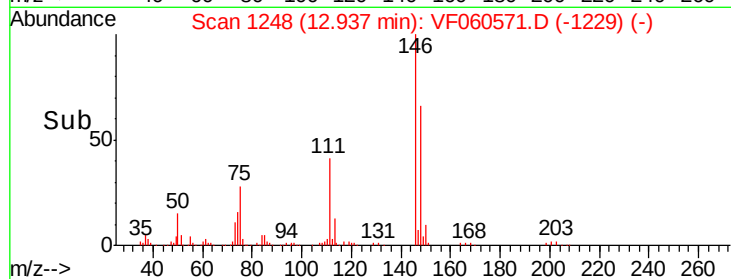
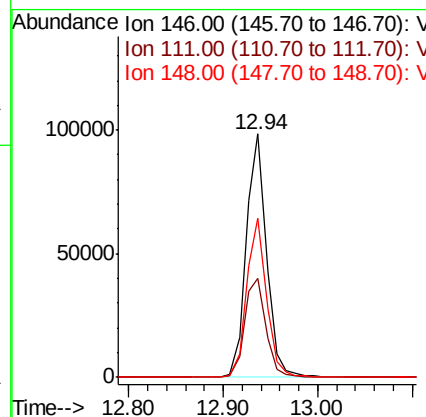
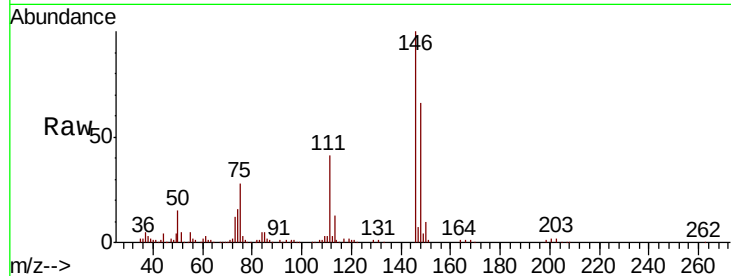
#91
 1,2-Dichlorobenzene
 Concen: 21.006 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	21.3	64.0
148	65.5	32.9	98.7

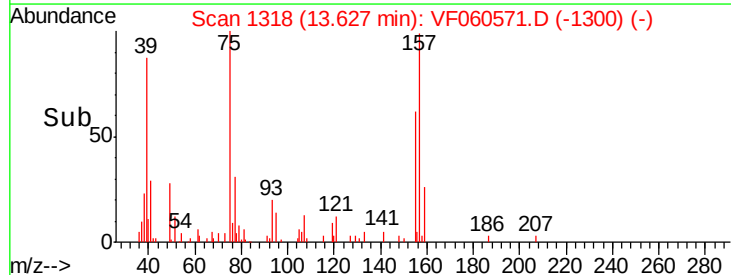
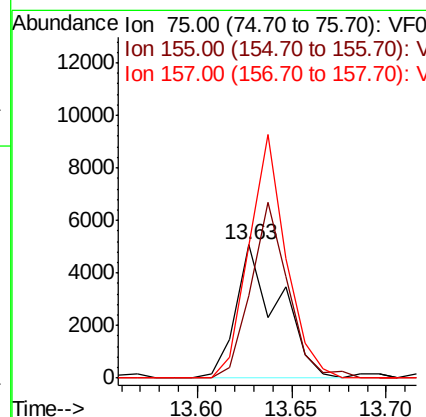
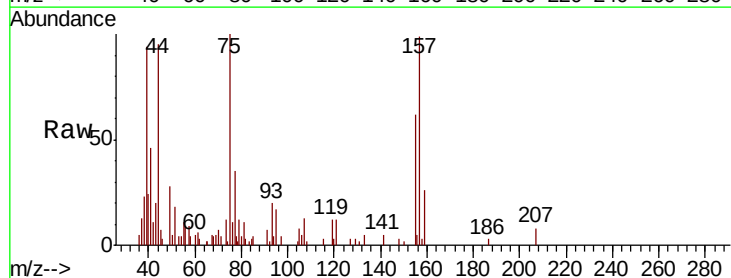
Manual Integrations
 APPROVED

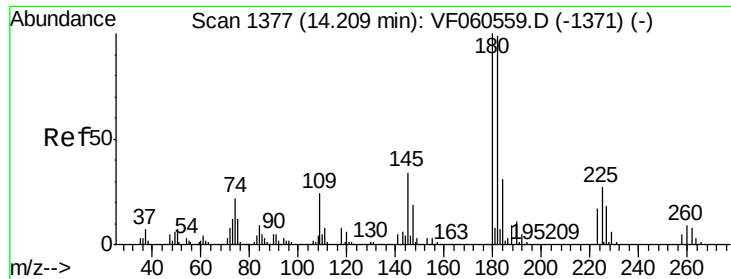
MMDadoda
 11/6/2018 12:53:47 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 14.688 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.02 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	61.7	47.3	141.8
157	99.3	55.3	165.9





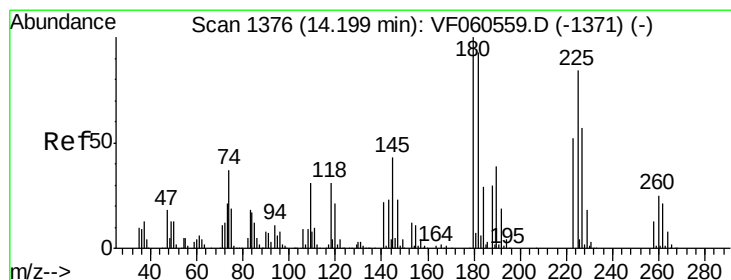
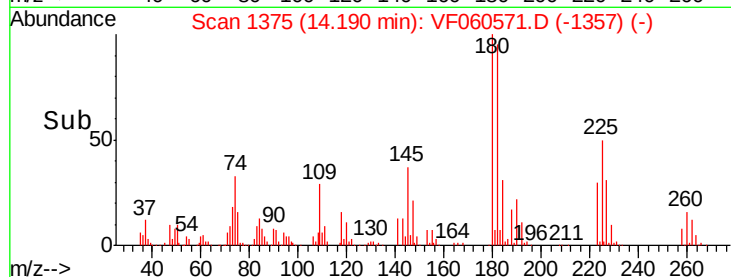
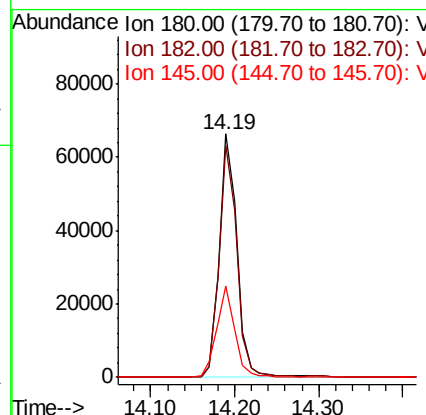
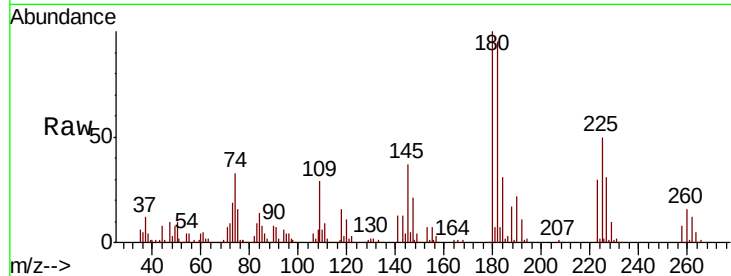
#93
 1,2,4-Trichlorobenzene
 Concen: 20.675 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1105SBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	49.7	149.1
145	37.4	16.9	50.7

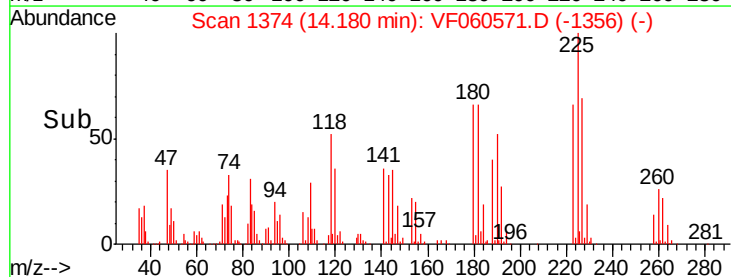
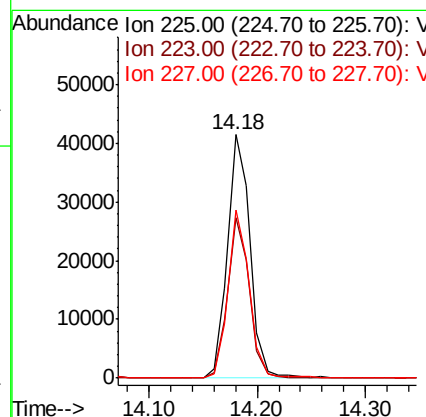
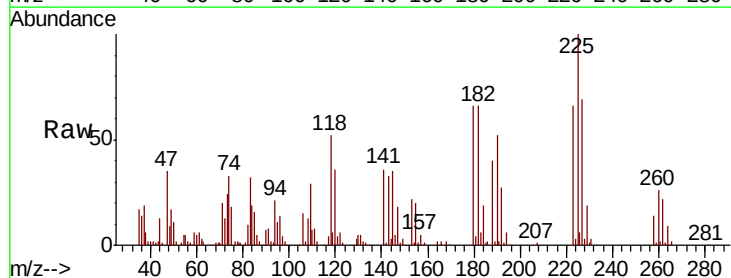
Manual Integrations
 APPROVED

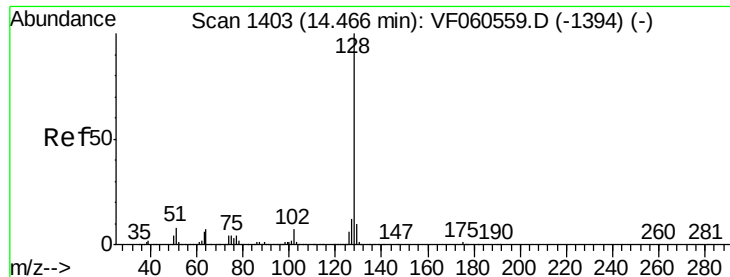
MMDadoda
 11/6/2018 12:53:47 PM



#94
 Hexachlorobutadiene
 Concen: 19.726 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF060571.D
 Acq: 5 Nov 2018 14:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.7	30.9	92.5
227	68.8	33.9	101.6





#95

Naphthalene

Concen: 20.360 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Instrument :

MSVOA_F

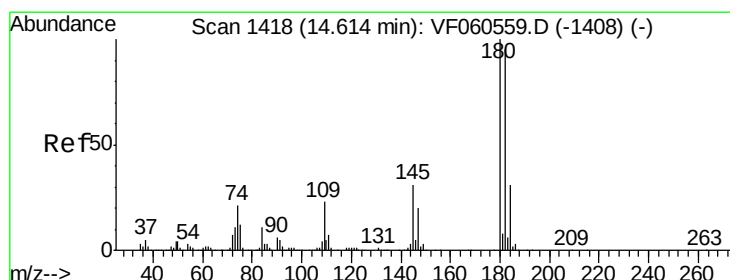
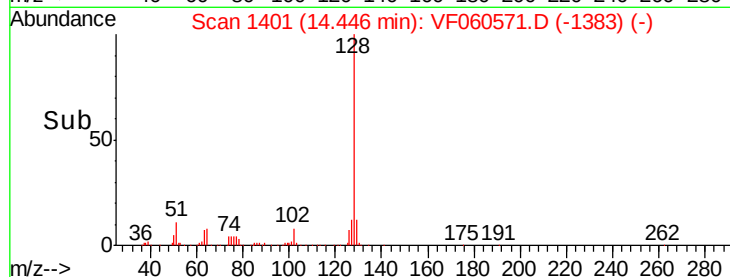
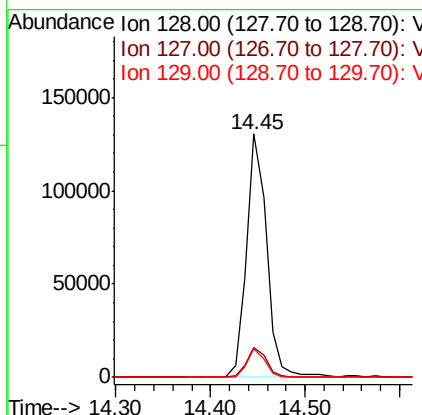
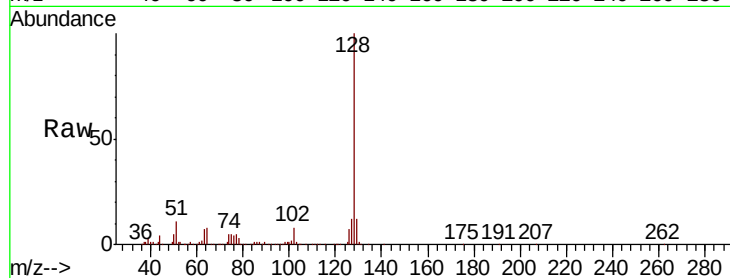
ClientSampleId :

VF1105SBSD01

Tot Ion:	128	Resp:	192129
Ion Ratio	Lower	Upper	
128	100		
127	12.2	9.4	14.0
129	11.6	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/6/2018 12:53:47 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.763 ug/l

RT: 14.59 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF060571.D

Acq: 5 Nov 2018 14:01

Tgt Ion:	180	Resp:	88018
Ion Ratio	Lower	Upper	
180	100		
182	98.7	47.3	142.0
145	35.3	15.6	46.8

