

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022219\
 Data File : VF061707.D
 Acq On : 22 Feb 2019 14:20
 Operator : VA/AP
 Sample : VF0222SBSD01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0222SBSD01

Manual Integrations
 APPROVED

MMDadoda
 2/27/2019 5:40:54 PM

Quant Time: Feb 23 02:58:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	348335	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.58	114	508048	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	445368	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	246252	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	148840	58.27	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	116.54%	
35) Dibromofluoromethane	4.09	113	210772	55.87	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	111.74%	
50) Toluene-d8	7.53	98	587968	54.21	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	108.42%	
62) 4-Bromofluorobenzene	11.40	95	233027	53.10	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	106.20%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	95836	23.957	ug/l	97
3) Chloromethane	1.09	50	91565	21.816	ug/l	96
4) Vinyl Chloride	1.13	62	83442	21.386	ug/l	96
5) Bromomethane	1.32	94	55901	20.817	ug/l	82
6) Chloroethane	1.39	64	40749	21.192	ug/l	93
7) Trichlorofluoromethane	1.48	101	102721m	21.827	ug/l	
8) Diethyl Ether	1.62	74	24360	20.540	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.83	101	70291	20.705	ug/l	93
10) Methyl Iodide	1.91	142	136023m	20.975	ug/l	
11) Tert butyl alcohol	2.56	59	15270	103.293	ug/l	99
12) 1,1-Dichloroethene	1.79	96	63200	21.173	ug/l	88
13) Acrolein	2.00	56	18741	100.867	ug/l	92
14) Allyl chloride	2.09	41	68945	18.823	ug/l	98
15) Acrylonitrile	2.94	53	48553	92.594	ug/l	99
16) Acetone	2.24	43	60875	111.074	ug/l	95
17) Carbon Disulfide	1.82	76	199845m	21.300	ug/l	
18) Methyl Acetate	2.33	43	27795	22.513	ug/l	99
19) Methyl tert-butyl Ether	2.42	73	115998	22.739	ug/l	99
20) Methylene Chloride	2.25	84	73555m	23.721	ug/l	
21) trans-1,2-Dichloroethene	2.29	96	54684	16.853	ug/l	97
22) Diisopropyl ether	2.79	45	194020	22.067	ug/l	93
23) Vinyl Acetate	3.17	43	449853	104.754	ug/l	98
24) 1,1-Dichloroethane	2.86	63	112450	21.134	ug/l	99
25) 2-Butanone	4.32	43	120481	100.641	ug/l	93
26) 2,2-Dichloropropane	3.58	77	52731	23.397	ug/l	93
27) cis-1,2-Dichloroethene	3.46	96	91891	21.576	ug/l	99
28) Bromochloromethane	3.69	49	53734	21.048	ug/l	98
29) Tetrahydrofuran	4.06	42	62037	114.016	ug/l	97
30) Chloroform	3.84	83	135080	22.324	ug/l	100
31) Cyclohexane	3.67	56	126175m	21.905	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	74742	18.857	ug/l	95
36) 1,1-Dichloropropene	4.26	75	108730	21.604	ug/l	95
37) Ethyl Acetate	4.09	43	51208	21.906	ug/l #	89
38) Carbon Tetrachloride	3.96	117	76678	22.064	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022219\
 Data File : VF061707.D
 Acq On : 22 Feb 2019 14:20
 Operator : VA/AP
 Sample : VF0222SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0222SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/27/2019 5:40:54 PM

Quant Time: Feb 23 02:58:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	132675	22.290	ug/l	99
40) Benzene	4.61	78	295367	22.437	ug/l	99
41) Methacrylonitrile	4.73	41	25217	21.094	ug/l	95
42) 1,2-Dichloroethane	4.92	62	72274	22.952	ug/l	94
43) Isopropyl Acetate	6.94	43	57159	20.657	ug/l	98
44) Trichloroethene	5.48	130	95846	22.515	ug/l	99
45) 1,2-Dichloropropane	6.22	63	68346	21.479	ug/l	99
46) Dibromomethane	6.06	93	39043	19.928	ug/l	89
47) Bromodichloromethane	6.37	83	90098	21.000	ug/l	98
48) Methyl methacrylate	6.70	41	31682	19.026	ug/l	96
49) 1,4-Dioxane	6.69	88	5447	347.976	ug/l #	84
51) 4-Methyl-2-Pentanone	8.24	43	202430	102.386	ug/l	96
52) Toluene	7.61	92	168356	21.087	ug/l	98
53) t-1,3-Dichloropropene	8.26	75	77355	21.664	ug/l	95
54) cis-1,3-Dichloropropene	7.28	75	104374	21.945	ug/l	98
55) 1,1,2-Trichloroethane	8.48	97	47535	20.264	ug/l	95
56) Ethyl methacrylate	8.61	69	53702	20.563	ug/l	94
57) 1,3-Dichloropropane	8.83	76	81007	20.690	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.27	63	43226	95.929	ug/l	91
59) 2-Hexanone	9.47	43	145311	104.849	ug/l	98
60) Dibromochloromethane	8.69	129	67217	20.587	ug/l	98
61) 1,2-Dibromoethane	8.97	107	51632	20.293	ug/l	98
64) Tetrachloroethene	8.13	164	82156	22.568	ug/l	97
65) Chlorobenzene	9.78	112	190671	21.098	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	77520	21.890	ug/l	96
67) Ethyl Benzene	9.88	91	324735	21.607	ug/l	98
68) m/p-Xylenes	10.11	106	247752	43.073	ug/l	97
69) o-Xylene	10.70	106	129849	21.156	ug/l	91
70) Styrene	10.77	104	178168	20.520	ug/l	98
71) Bromoform	10.75	173	37590	19.547	ug/l	96
73) Isopropylbenzene	11.11	105	389518	22.217	ug/l	98
74) N-amyl acetate	11.36	43	91433	21.727	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	63246	20.135	ug/l	97
76) 1,2,3-Trichloropropane	11.78	75	43625	20.428	ug/l	95
77) Bromobenzene	11.48	156	94948	21.921	ug/l	95
78) n-propylbenzene	11.58	91	432562	21.500	ug/l	98
79) 2-Chlorotoluene	11.70	91	247442	21.960	ug/l	93
80) 1,3,5-Trimethylbenzene	11.81	105	309757	22.105	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	18535m	18.104	ug/l	
82) 4-Chlorotoluene	11.89	91	245664	21.005	ug/l	99
83) tert-Butylbenzene	12.12	119	349019	22.487	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	309457	22.229	ug/l	99
85) sec-Butylbenzene	12.29	105	442558	22.050	ug/l	98
86) p-Isopropyltoluene	12.45	119	372194	22.096	ug/l	98
87) 1,3-Dichlorobenzene	12.46	146	179886	21.303	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	174284	21.461	ug/l	99
89) n-Butylbenzene	12.84	91	363857	22.876	ug/l	95
90) Hexachloroethane	12.90	117	85660	21.866	ug/l	95
91) 1,2-Dichlorobenzene	12.92	146	166041	20.673	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	10195	20.472	ug/l #	57

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022219\
Data File : VF061707.D
Acq On : 22 Feb 2019 14:20
Operator : VA/AP
Sample : VF0222SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBSD01

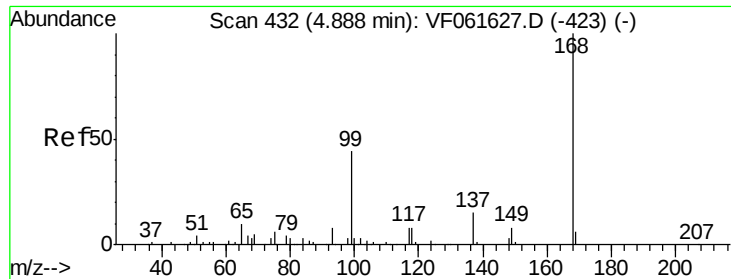
Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM

Quant Time: Feb 23 02:58:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	128708	22.357	ug/l	99
94) Hexachlorobutadiene	14.18	225	82033	23.073	ug/l	97
95) Naphthalene	14.44	128	208946	20.744	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	114911	21.747	ug/l	95

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



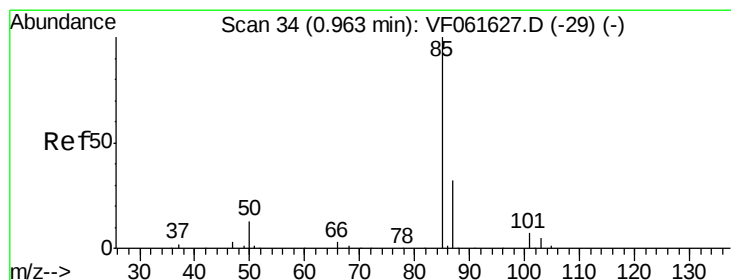
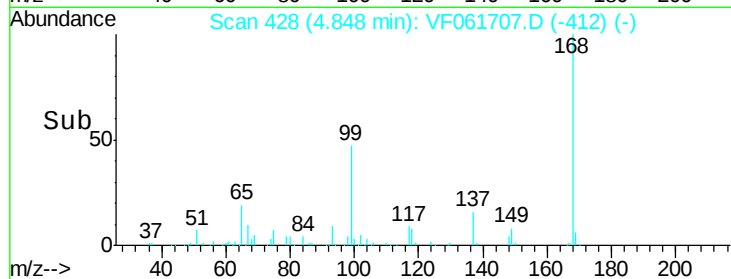
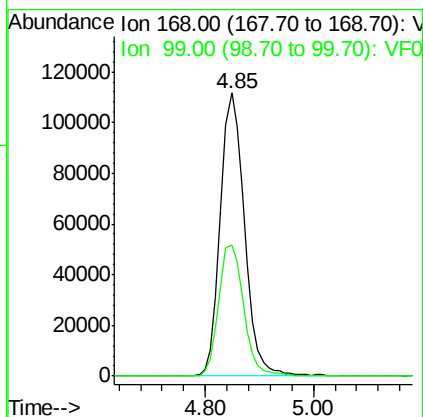
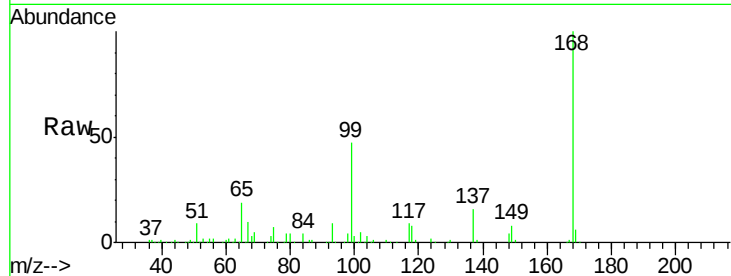
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.85 min Scan# 428
Delta R.T. -0.04 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBSD01

Tot Ion	Ratio	Lower	Upper
168	100		
99	46.5	34.9	52.3

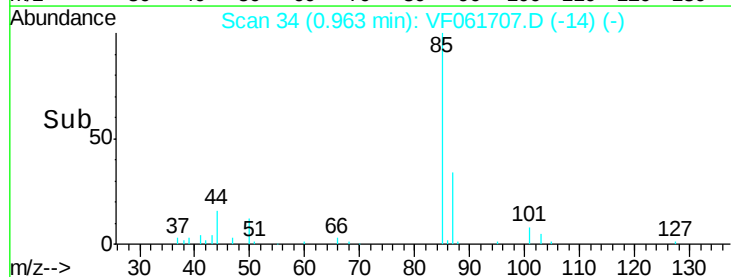
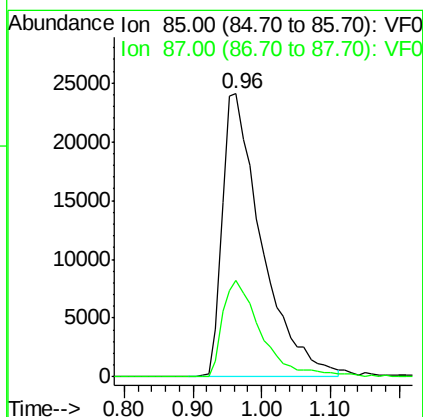
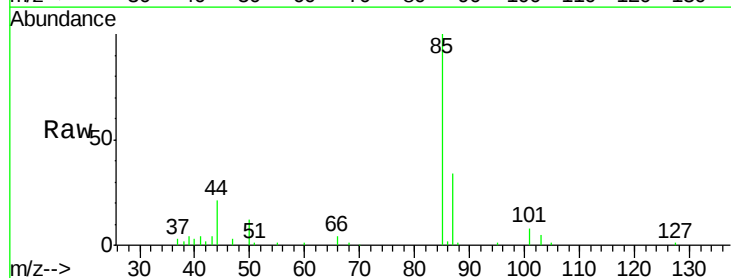
Manual Integrations
APPROVED

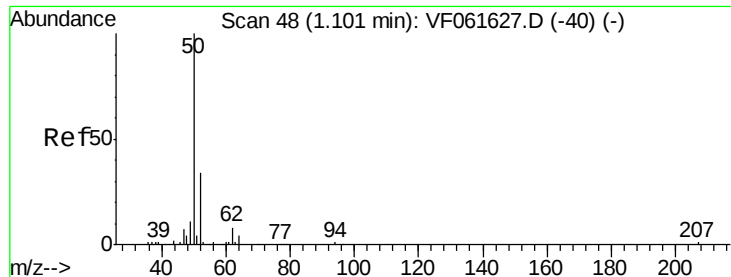
MMDadoda
2/27/2019 5:40:54 PM



#2
Dichlorodifluoromethane
Concen: 23.957 ug/l
RT: 0.96 min Scan# 34
Delta R.T. -0.00 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.9	16.1	48.2





#3

Chloromethane

Concen: 21.816 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 50 Resp: 91565

Ion Ratio Lower Upper

50 100

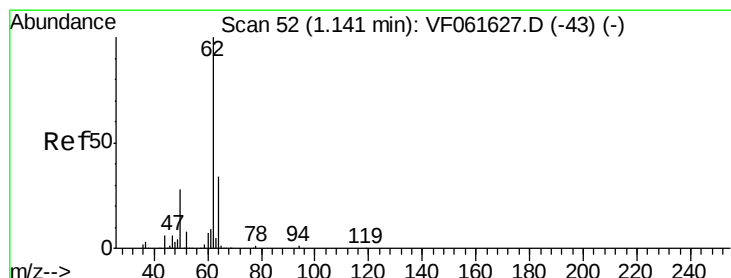
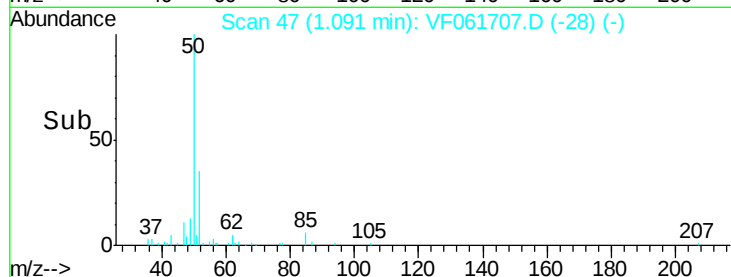
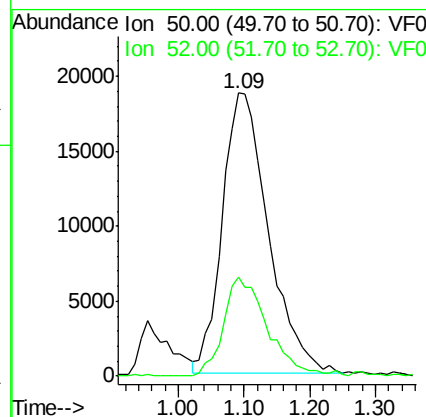
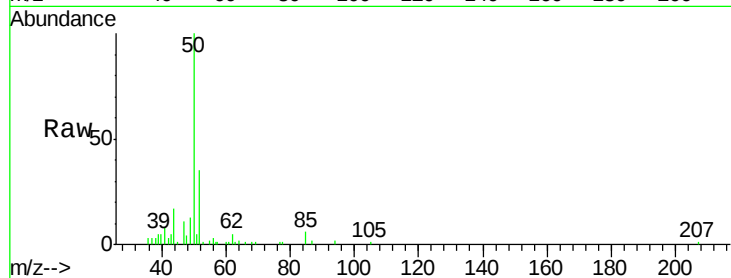
52 35.1 26.2 39.4

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:54 PM



#4

Vinyl Chloride

Concen: 21.386 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061707.D

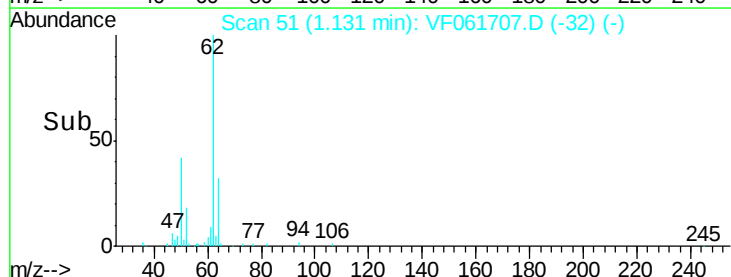
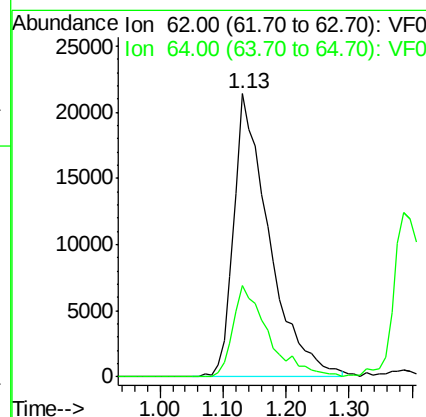
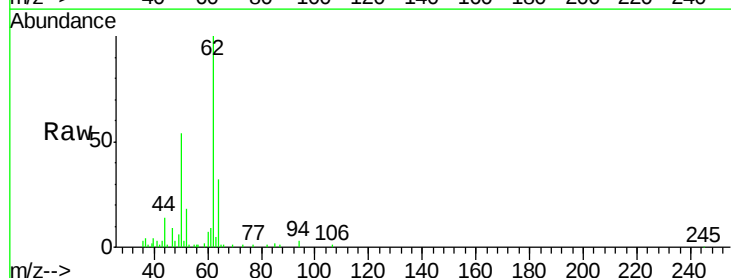
Acq: 22 Feb 2019 14:20

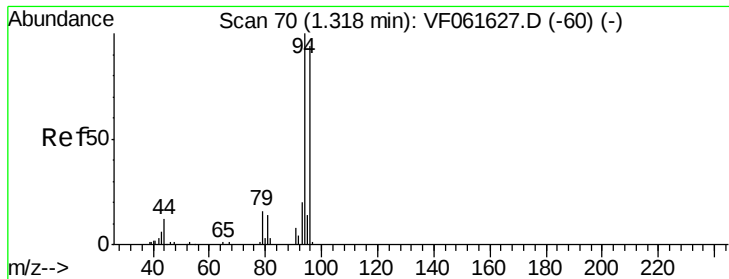
Tgt Ion: 62 Resp: 83442

Ion Ratio Lower Upper

62 100

64 32.1 27.5 41.3





#5

Bromomethane

Concen: 20.817 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 94 Resp: 55901

Ion Ratio Lower Upper

94 100

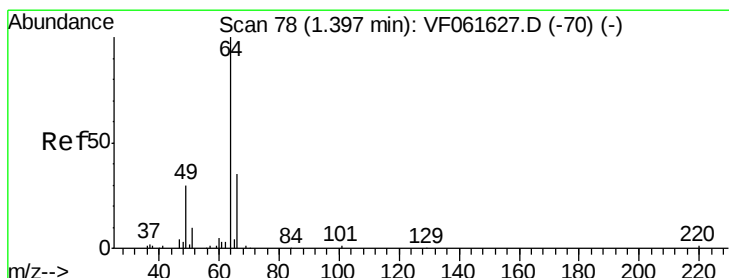
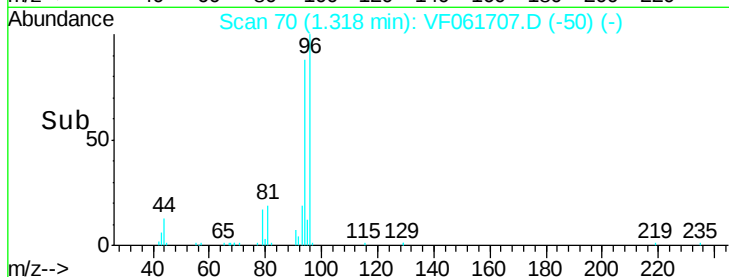
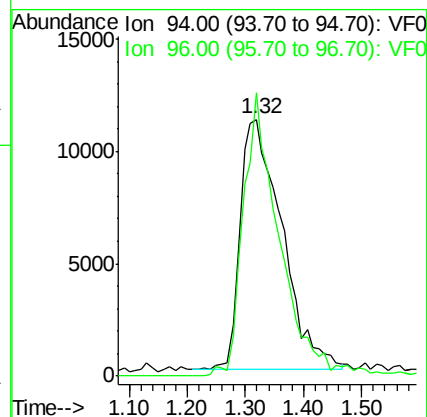
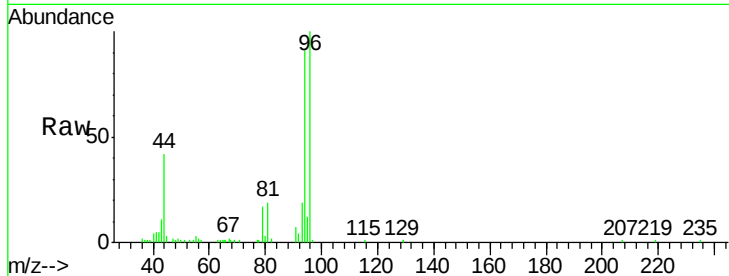
96 110.3 74.6 112.0

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:54 PM



#6

Chloroethane

Concen: 21.192 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.01 min

Lab File: VF061707.D

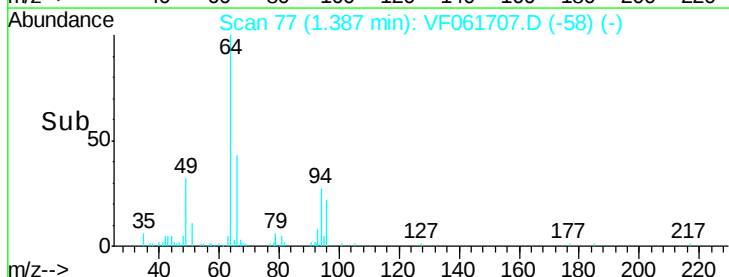
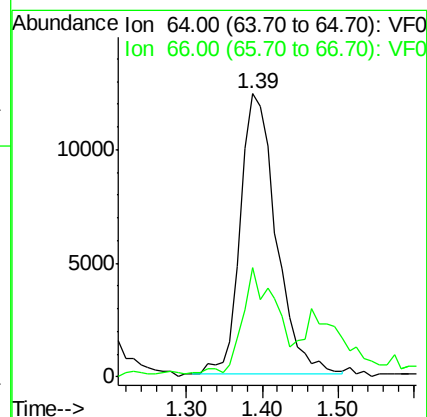
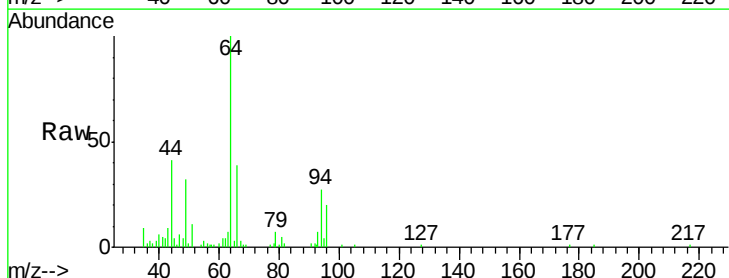
Acq: 22 Feb 2019 14:20

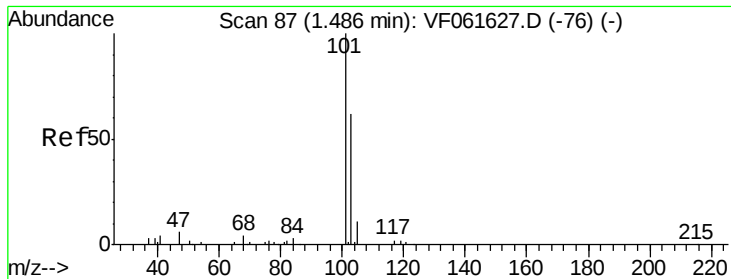
Tgt Ion: 64 Resp: 40749

Ion Ratio Lower Upper

64 100

66 38.8 27.9 41.9





#7

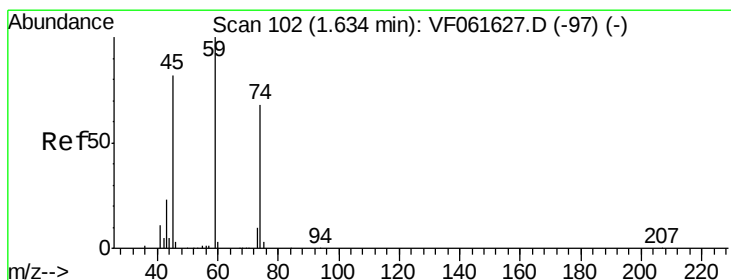
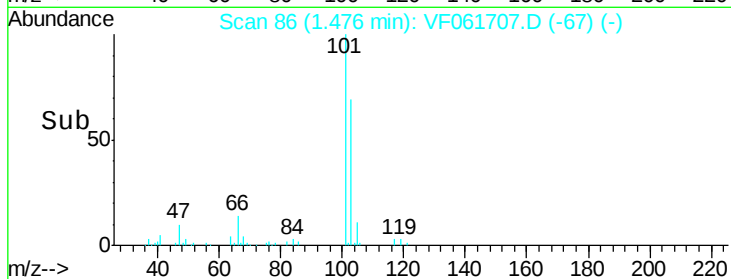
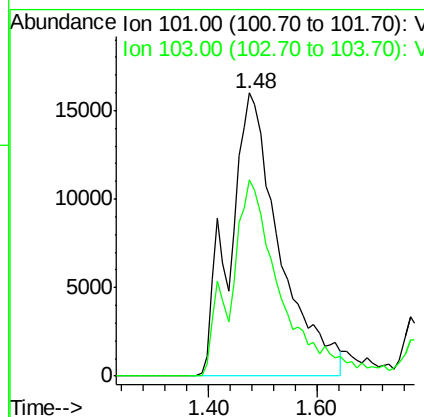
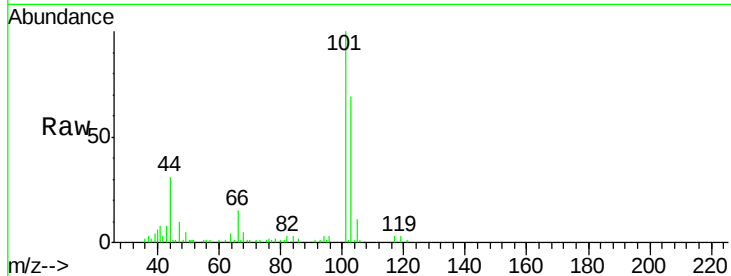
Trichlorofluoromethane
Concen: 21.827 ug/l m
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	69.4	49.3	73.9

Manual Integrations
APPROVED

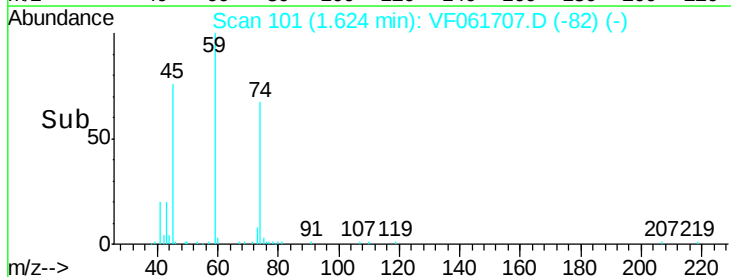
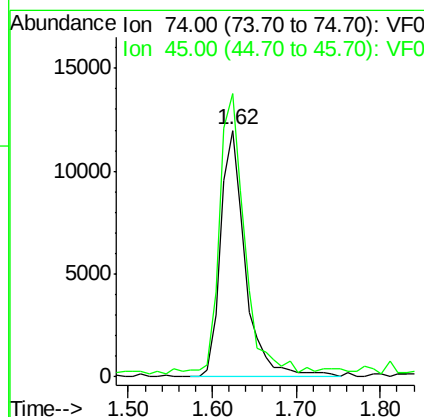
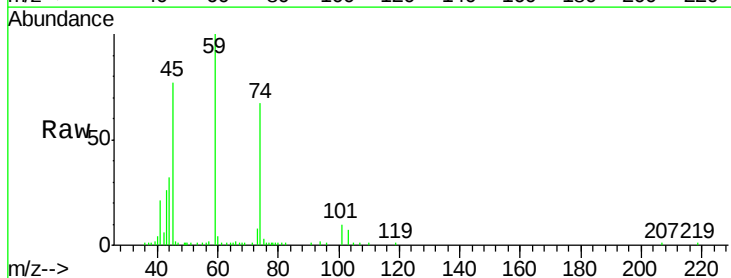
MMDadoda
2/27/2019 5:40:54 PM

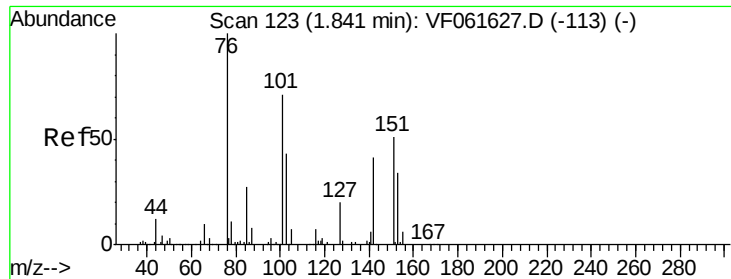


#8

Diethyl Ether
Concen: 20.540 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	114.8	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.705 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

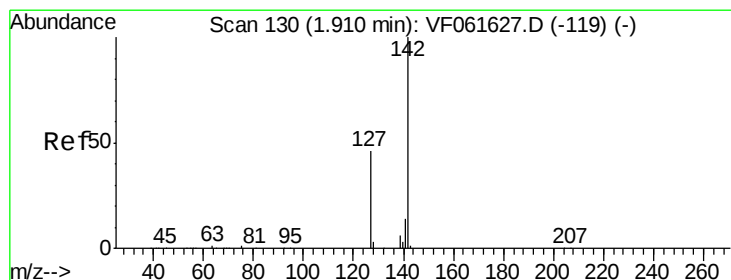
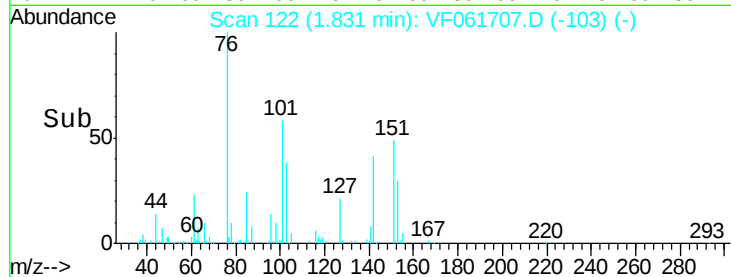
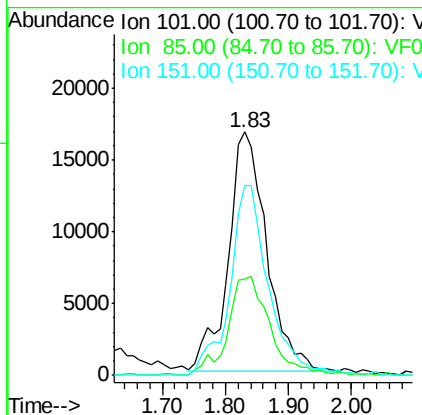
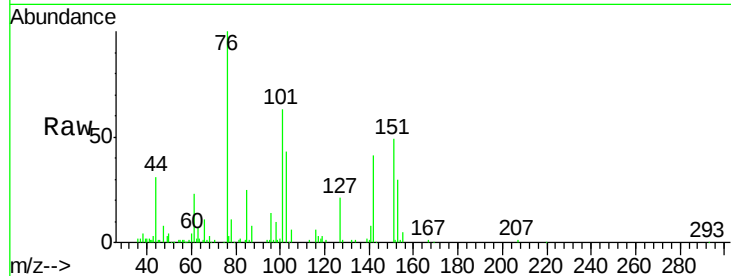
ClientSampleId :

VF0222SBS01

Tot Ion:	101	Resp:	70291
Ion Ratio	Lower	Upper	
101	100		
85	39.8	29.8	44.6
151	77.7	56.3	84.5

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#10

Methyl Iodide

Concen: 20.975 ug/l m

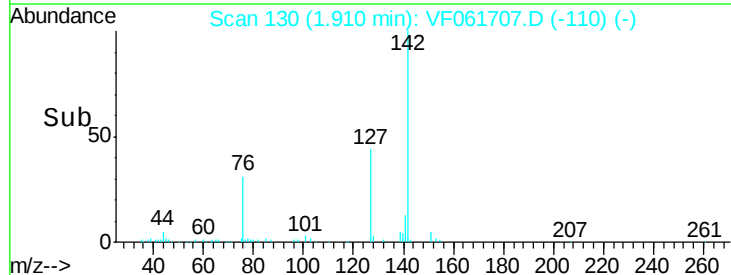
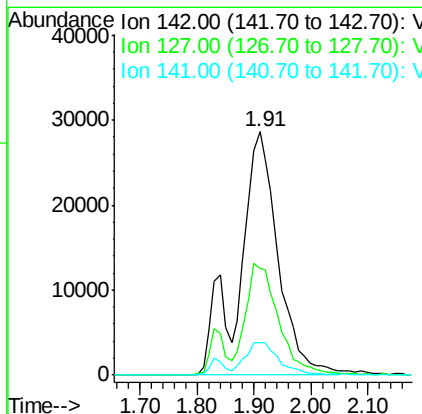
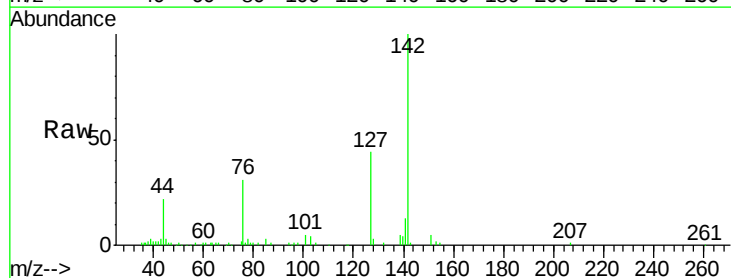
RT: 1.91 min Scan# 130

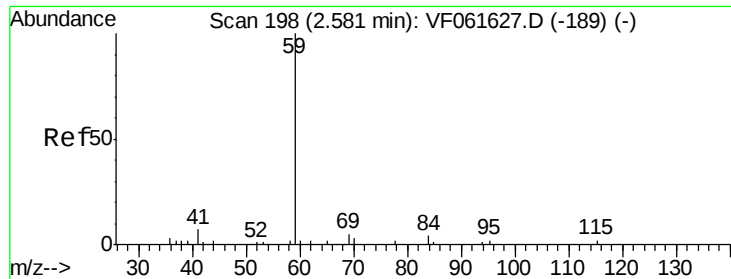
Delta R.T. -0.00 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	142	Resp:	136023
Ion Ratio	Lower	Upper	
142	100		
127	43.7	36.6	55.0
141	13.3	11.0	16.6





#11

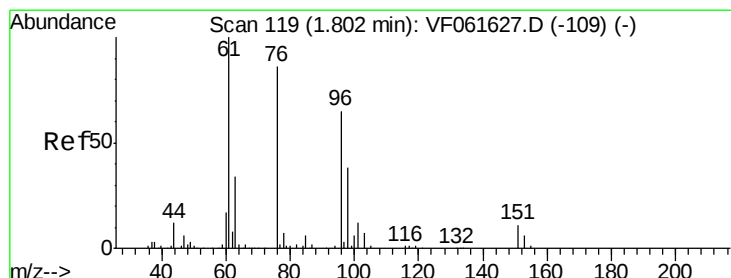
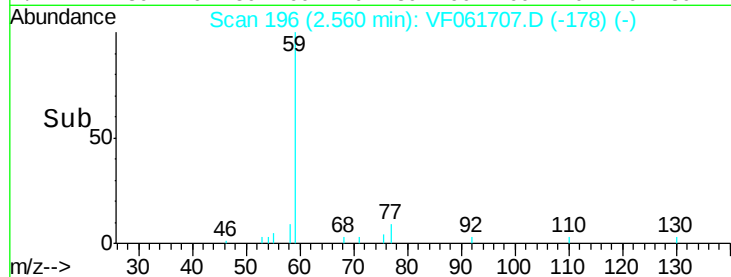
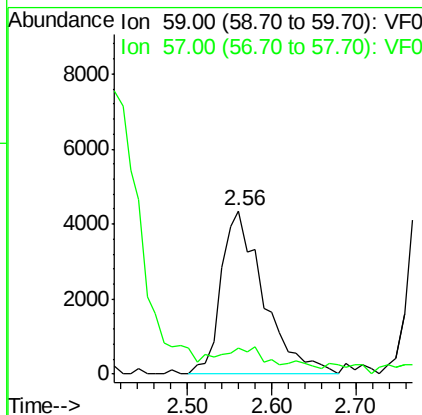
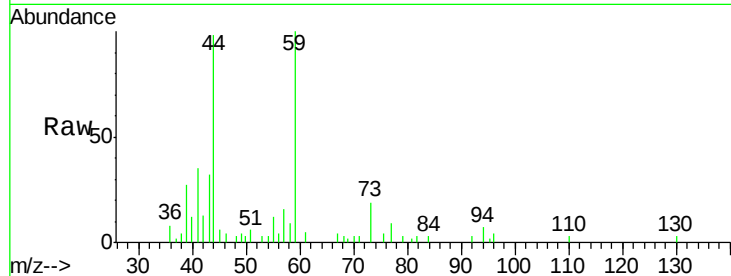
Tert butyl alcohol
Concen: 103.293 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	59	Resp	15270
Ion Ratio	Lower	Upper	
59	100		
57	16.2	12.5	18.7

Manual Integrations
APPROVED

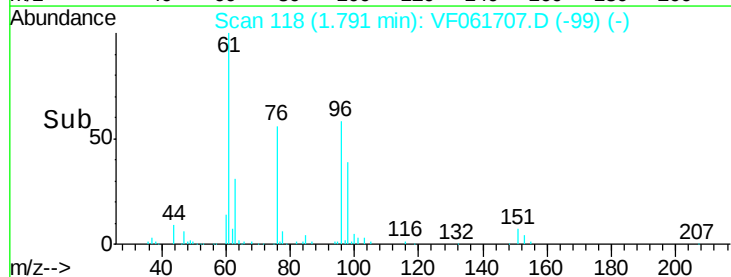
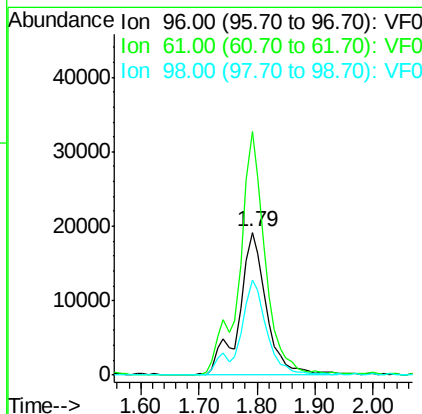
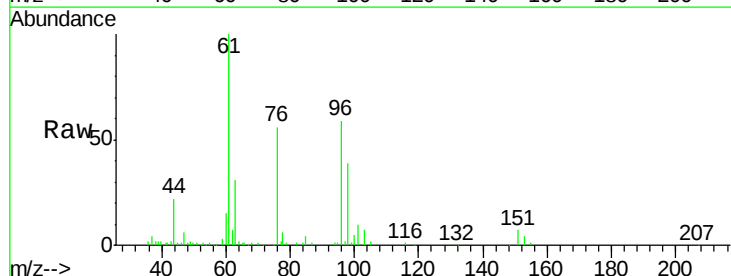
MMDadoda
2/27/2019 5:40:54 PM

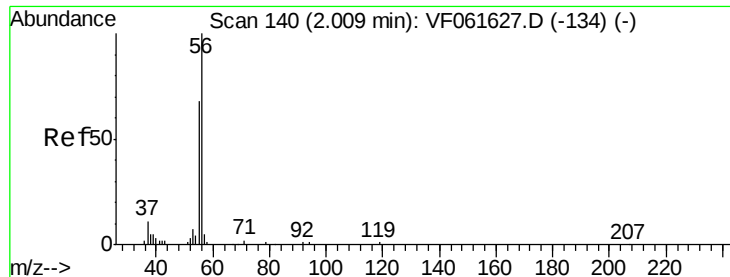


#12

1,1-Dichloroethene
Concen: 21.173 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	96	Resp	63200
Ion Ratio	Lower	Upper	
96	100		
61	170.7	122.6	184.0
98	66.3	47.2	70.8





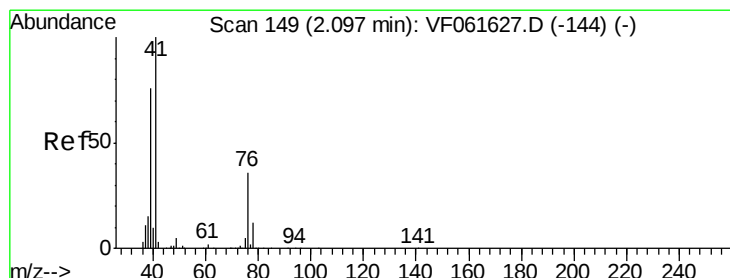
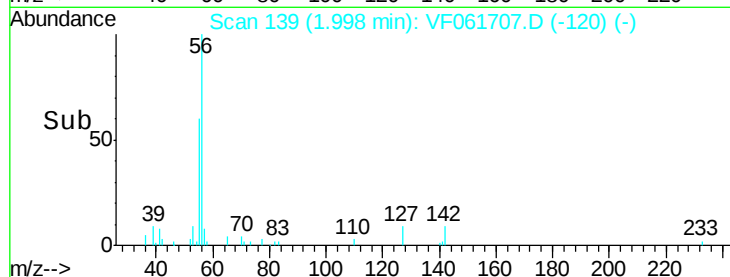
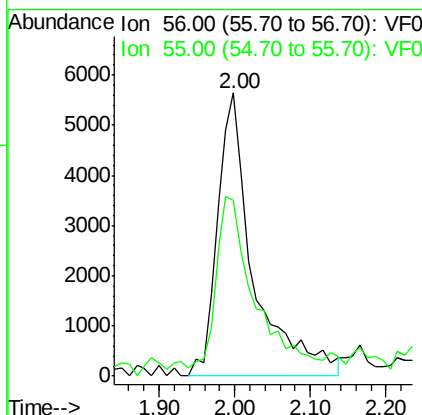
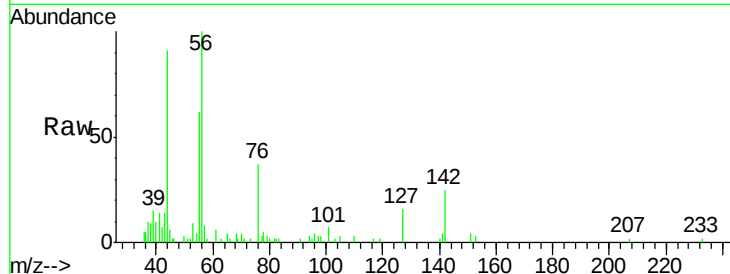
#13
Acrolein
Concen: 100.867 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.01 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	56	Resp	18741
Ion Ratio	100	Lower	Upper
55	62.2	55.0	82.6

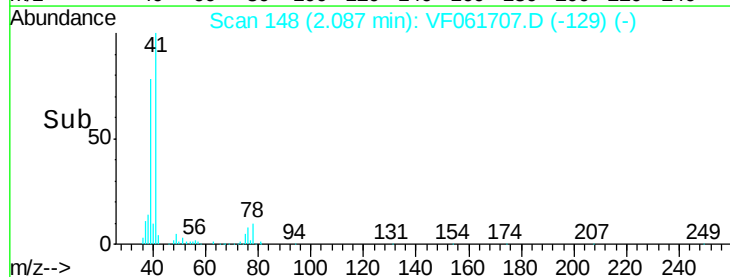
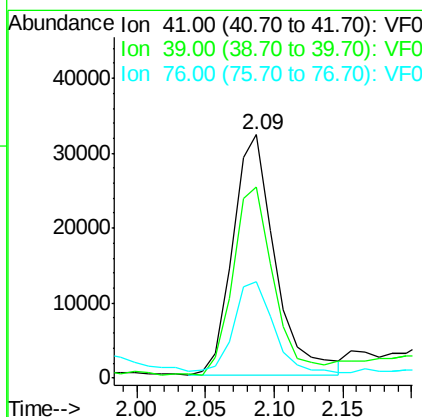
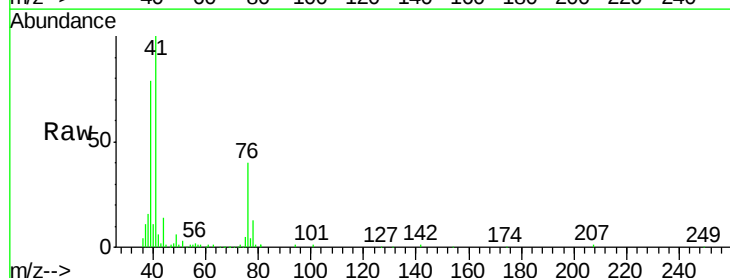
Manual Integrations
APPROVED

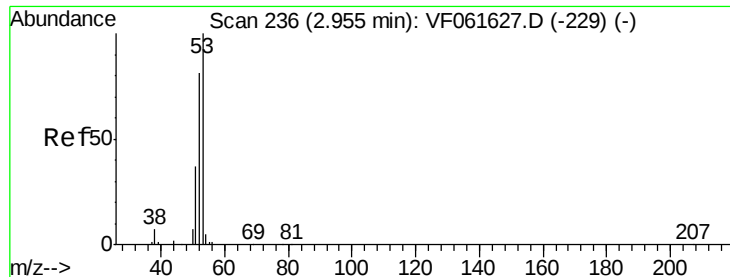
MMDadoda
2/27/2019 5:40:54 PM



#14
Allyl chloride
Concen: 18.823 ug/l
RT: 2.09 min Scan# 148
Delta R.T. -0.01 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	41	Resp	68945
Ion Ratio	100	Lower	Upper
39	78.5	61.6	92.4
76	39.7	30.3	45.5





#15

Acrylonitrile

Concen: 92.594 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

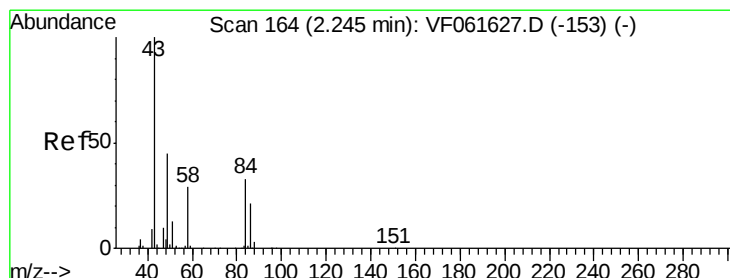
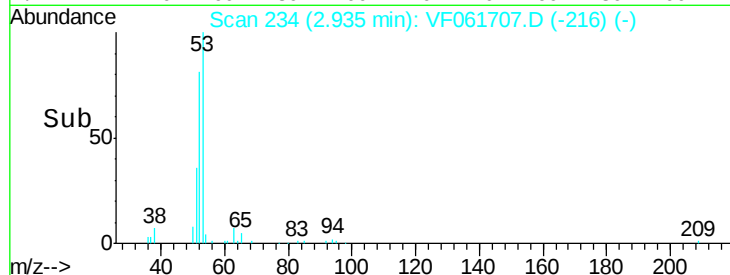
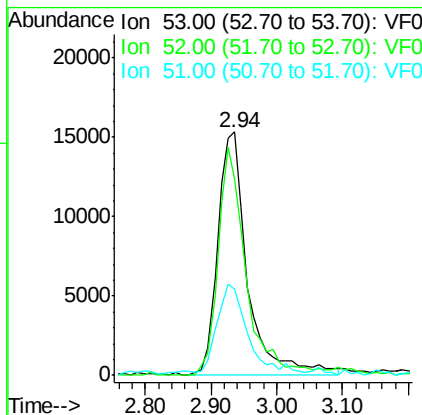
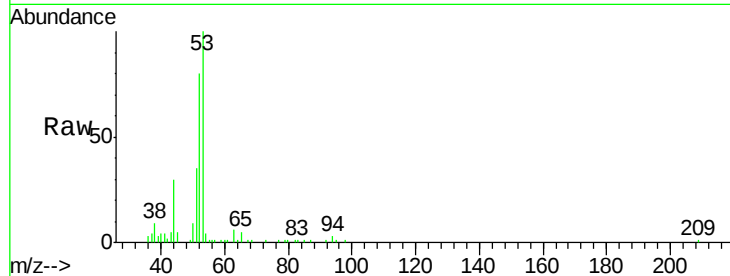
ClientSampleId :

VF0222SBS01

Tot Ion:	53	Resp:	48553
Ion	Ratio	Lower	Upper
53	100		
52	80.4	64.6	97.0
51	35.3	29.8	44.8

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#16

Acetone

Concen: 111.074 ug/l

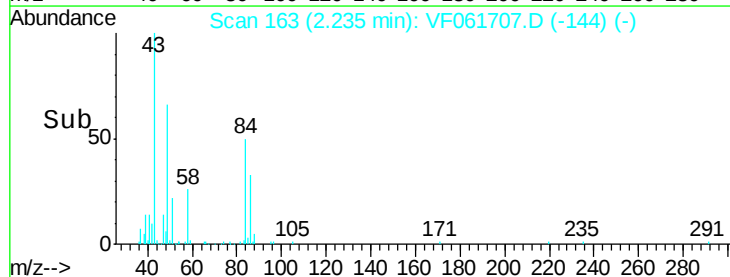
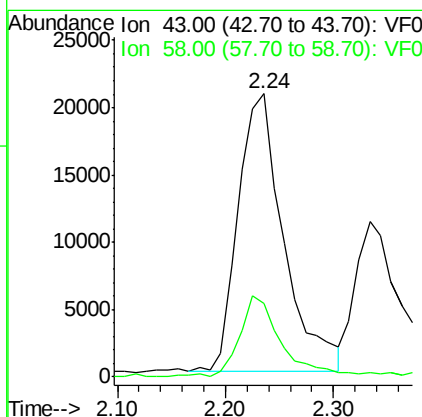
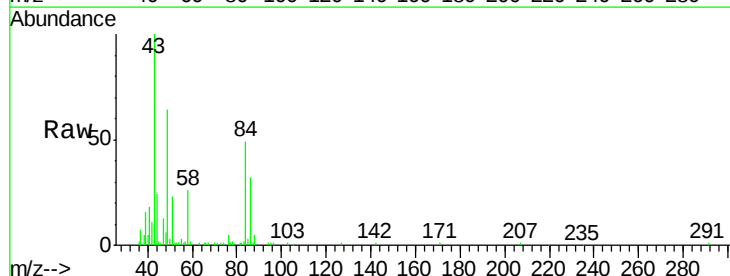
RT: 2.24 min Scan# 163

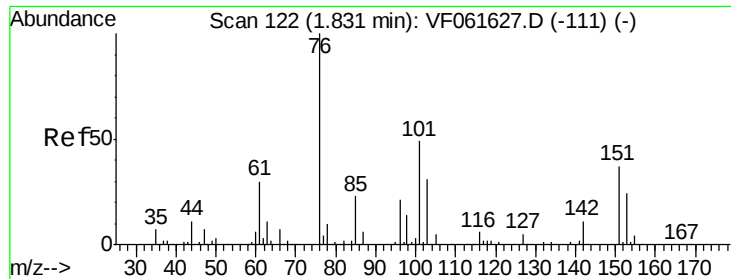
Delta R.T. -0.01 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	43	Resp:	60875
Ion	Ratio	Lower	Upper
43	100		
58	26.2	22.9	34.3





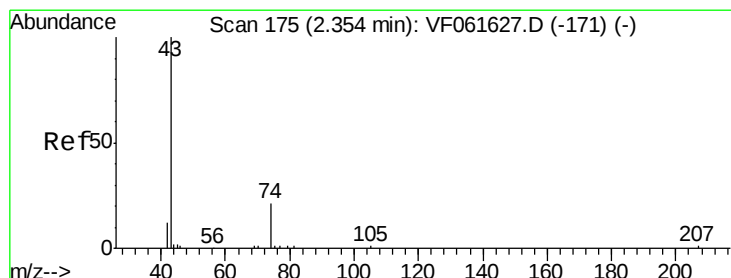
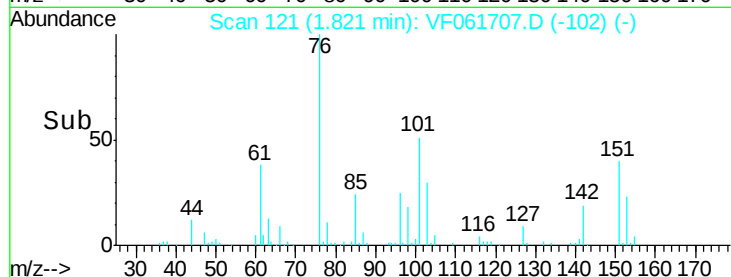
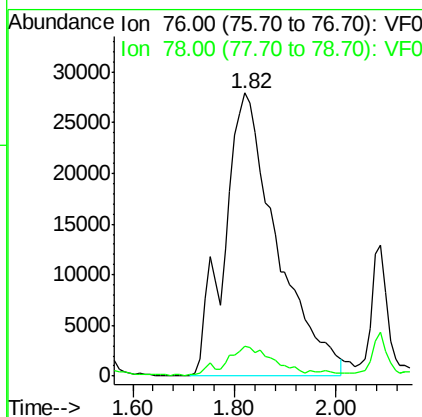
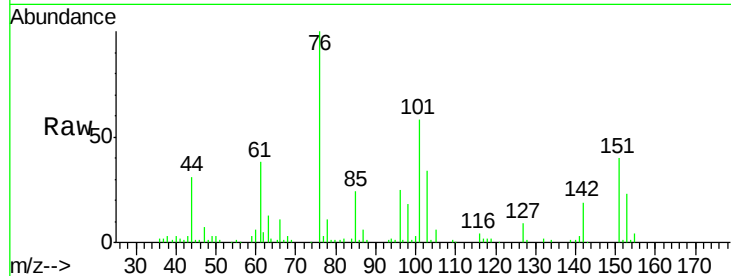
#17
Carbon Disulfide
Concen: 21.300 ug/l m
RT: 1.82 min Scan# 121
Delta R.T. -0.01 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBSD01

Tot Ion: 76 Resp: 199845
Ion Ratio Lower Upper
76 100
78 10.7 7.9 11.9

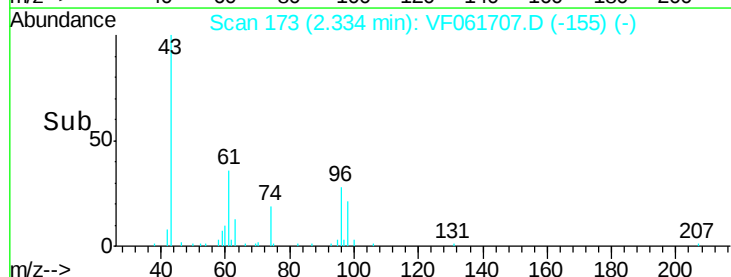
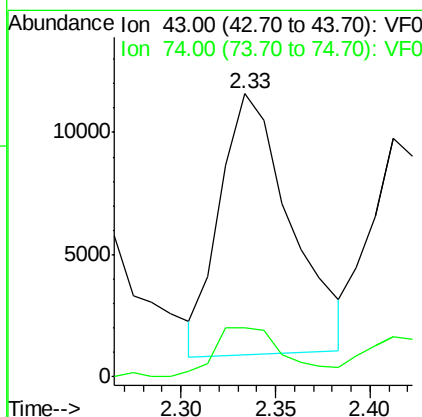
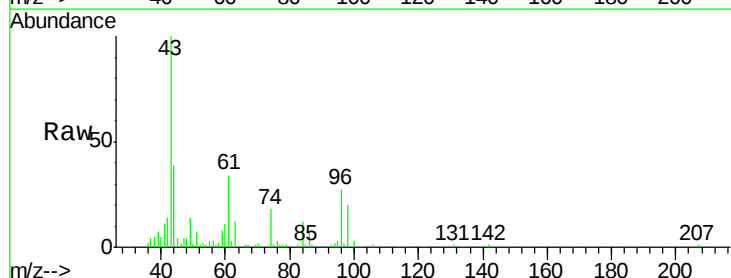
Manual Integrations
APPROVED

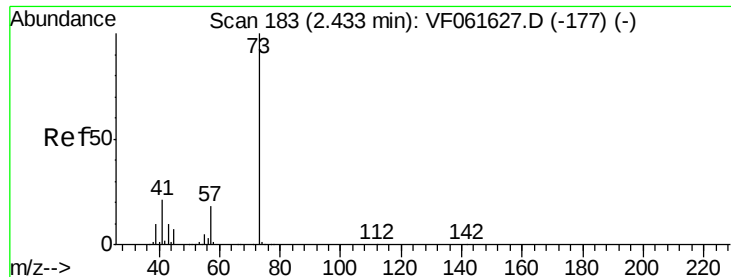
MMDadoda
2/27/2019 5:40:54 PM



#18
Methyl Acetate
Concen: 22.513 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion: 43 Resp: 27795
Ion Ratio Lower Upper
43 100
74 17.6 14.6 21.8





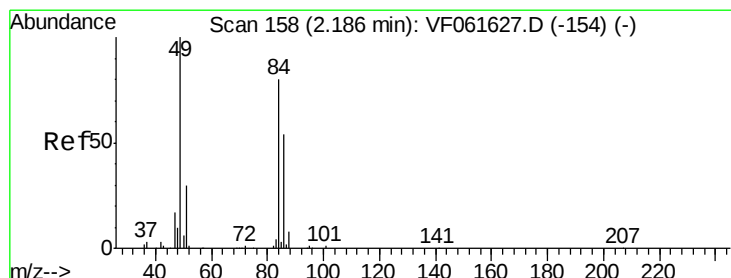
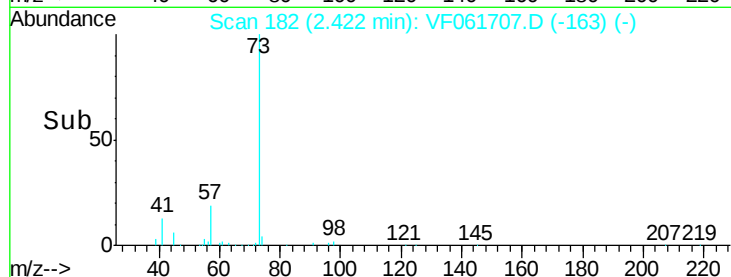
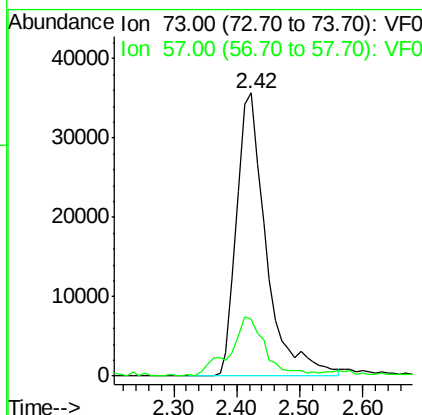
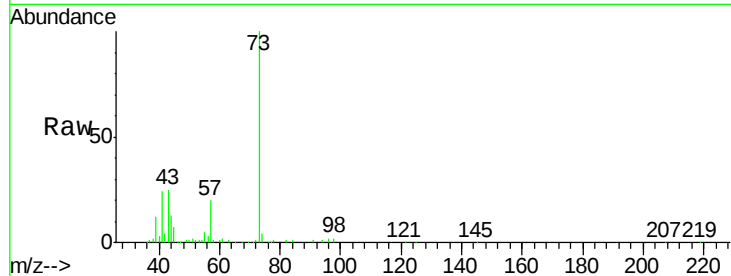
#19
Methvl tert-butvl Ether
Concen: 22.739 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.1	15.8	23.8

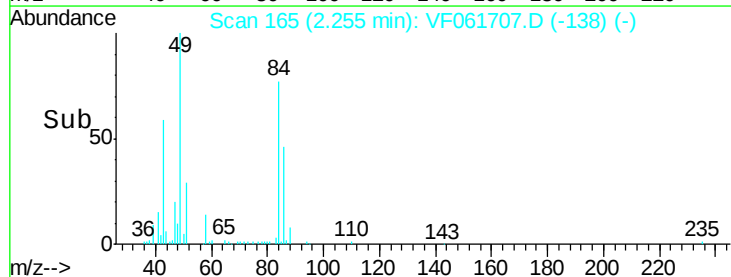
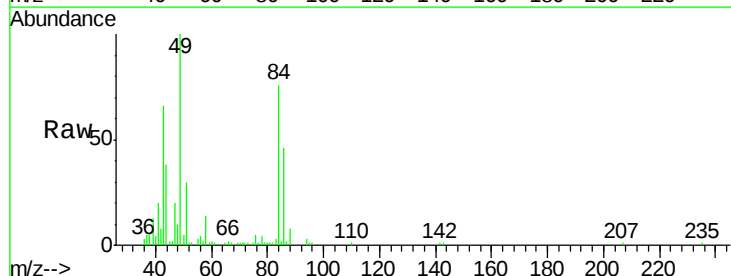
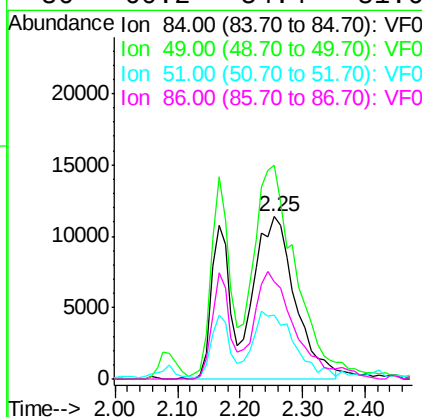
Manual Integrations
APPROVED

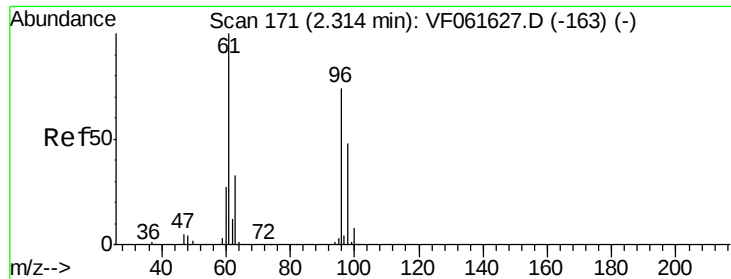
MMDadoda
2/27/2019 5:40:54 PM



#20
Methylene Chloride
Concen: 23.721 ug/l m
RT: 2.25 min Scan# 165
Delta R.T. 0.07 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
84	100		
49	131.5	101.8	152.8
51	39.6	31.1	46.7
86	60.2	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 16.853 ug/l

RT: 2.29 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

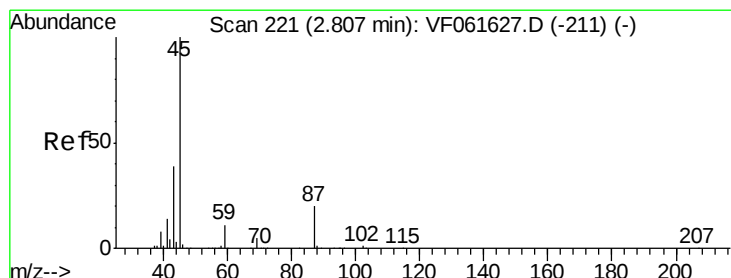
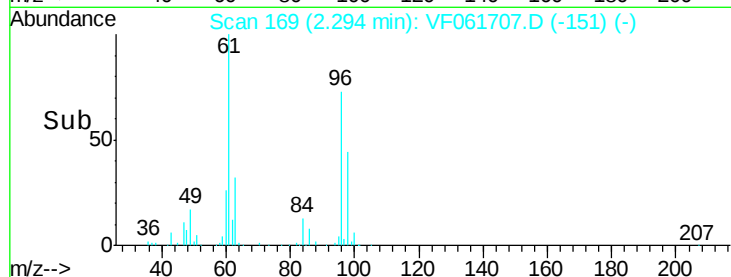
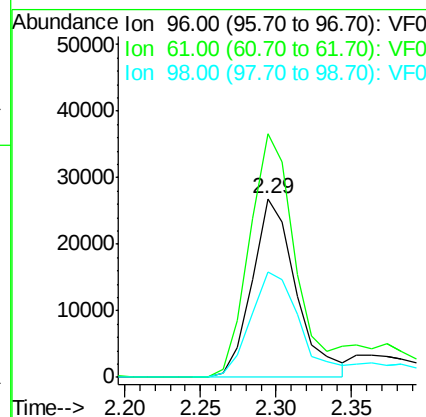
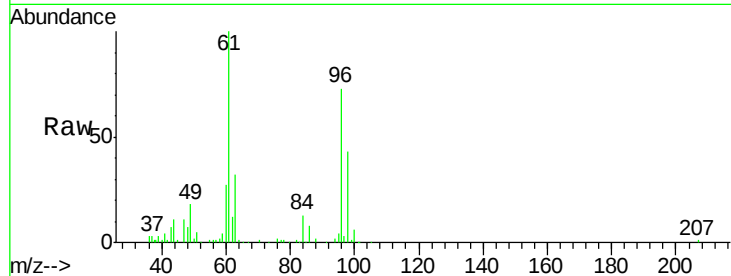
ClientSampleId :

VF0222SBS01

Tot Ion:	96	Resp:	54684
Ion	Ratio	Lower	Upper
96	100		
61	136.3	108.2	162.4
98	59.2	52.2	78.2

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#22

Diisopropyl ether

Concen: 22.067 ug/l

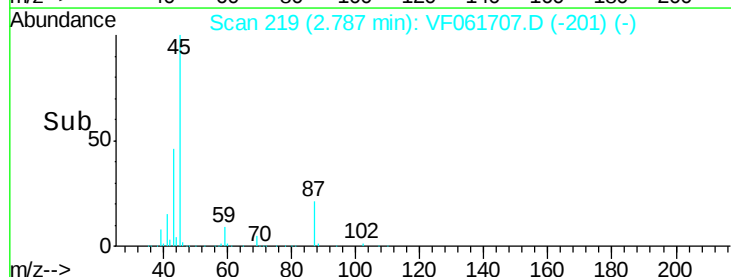
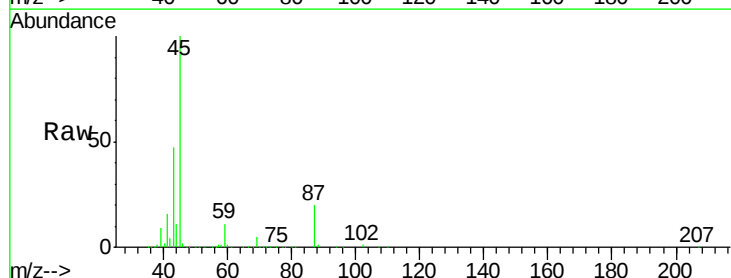
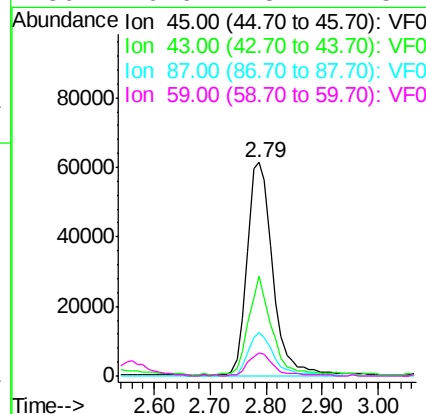
RT: 2.79 min Scan# 219

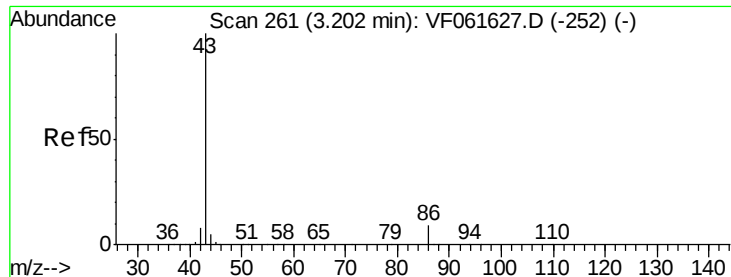
Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	45	Resp:	194020
Ion	Ratio	Lower	Upper
45	100		
43	46.8	31.4	47.2
87	20.4	16.3	24.5
59	10.6	8.7	13.1





#23

Vinyl Acetate

Concen: 104.754 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 43 Resp: 449853

Ion Ratio Lower Upper

43 100

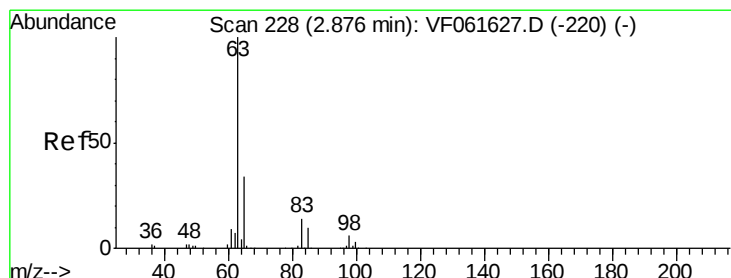
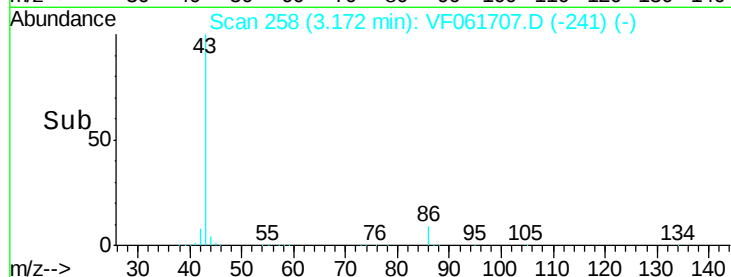
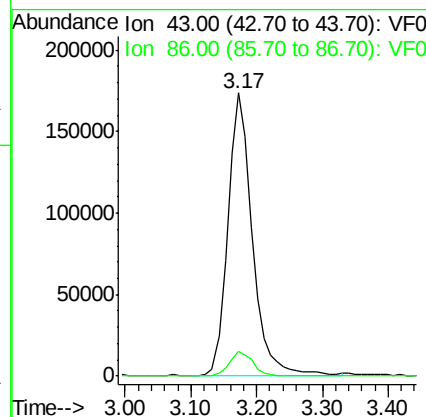
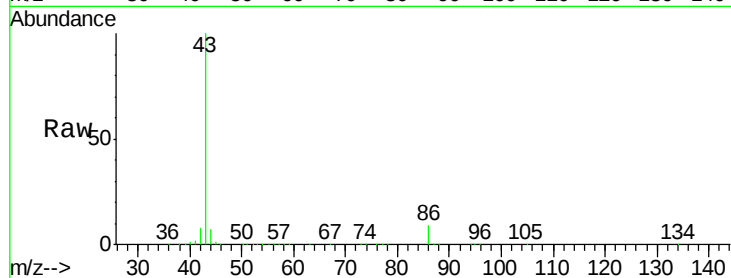
86 8.6 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:54 PM



#24

1,1-Dichloroethane

Concen: 21.134 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

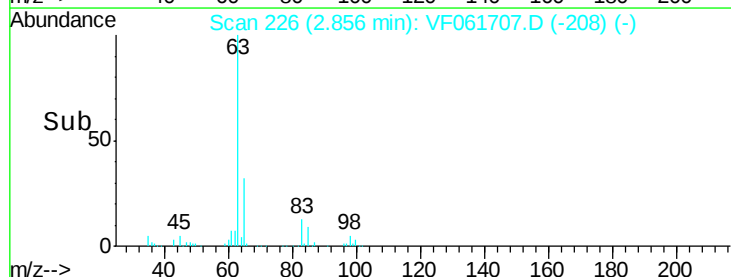
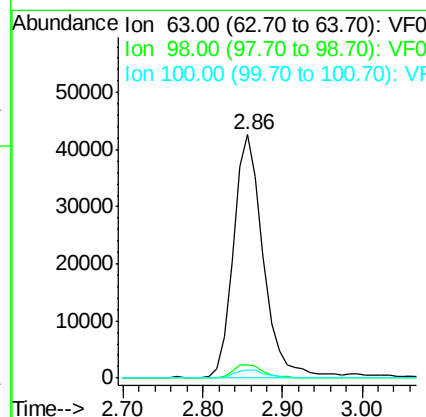
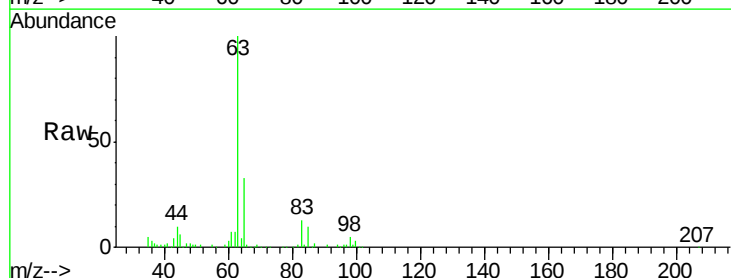
Tgt Ion: 63 Resp: 112450

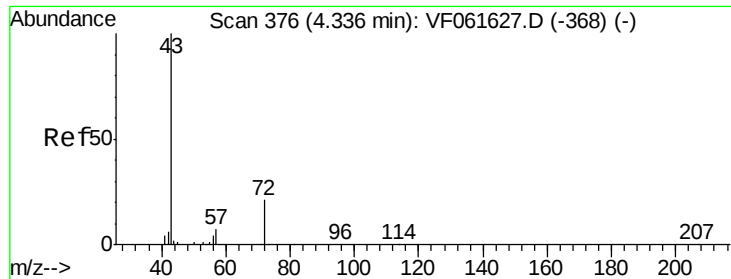
Ion Ratio Lower Upper

63 100

98 5.3 2.8 8.3

100 3.5 1.8 5.4





#25

2-Butanone

Concen: 100.641 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 43 Resp: 120481

Ion Ratio Lower Upper

43 100

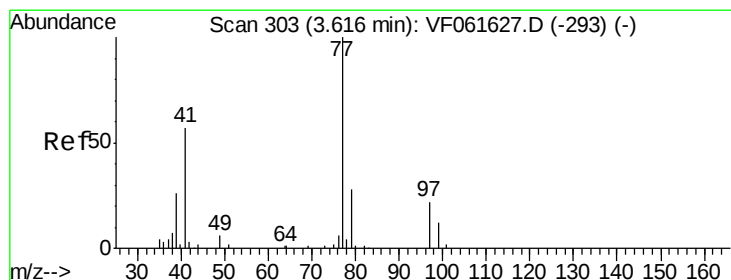
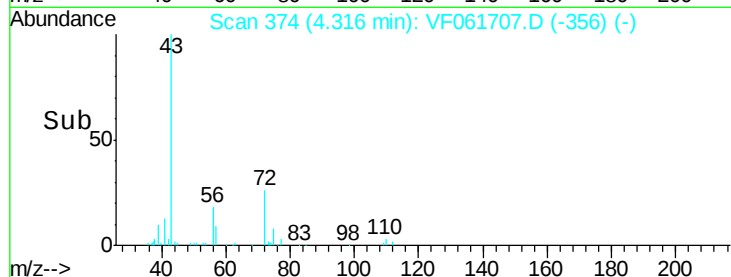
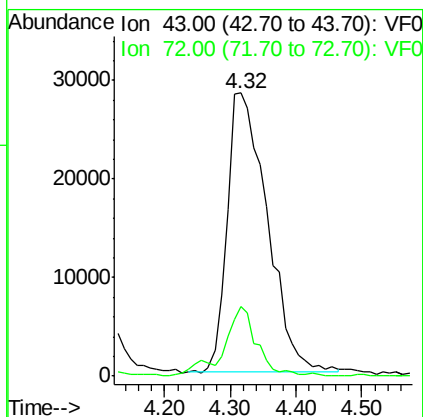
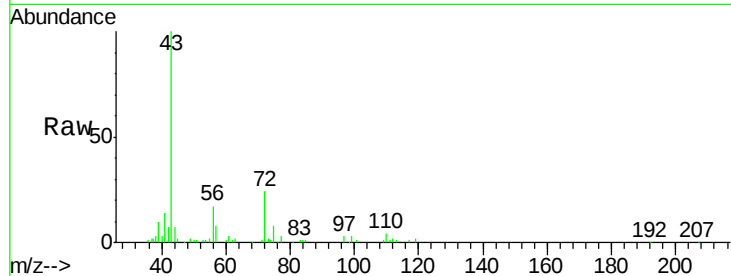
72 24.5 17.1 25.7

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:54 PM



#26

2,2-Dichloropropane

Concen: 23.397 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.04 min

Lab File: VF061707.D

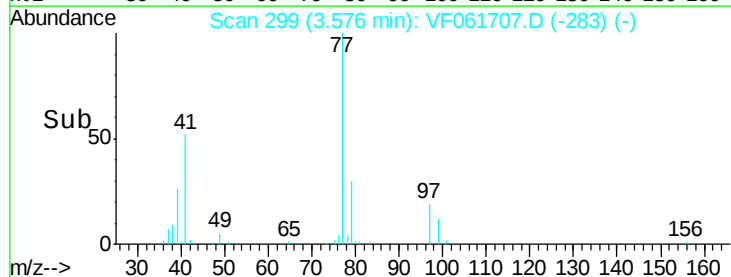
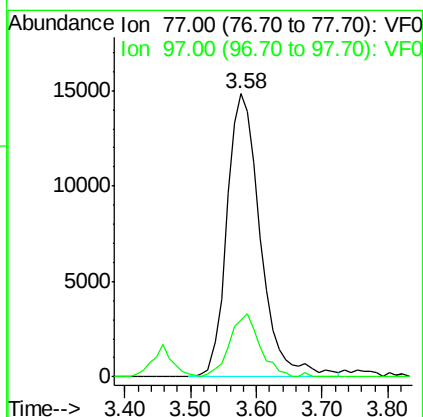
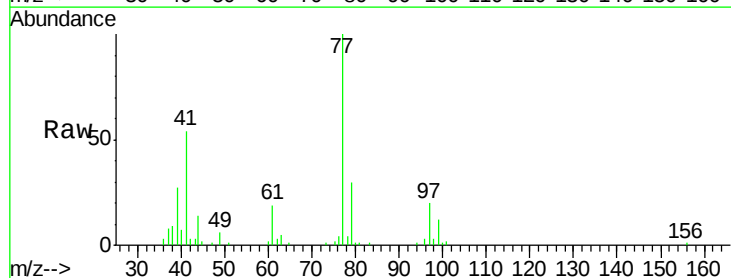
Acq: 22 Feb 2019 14:20

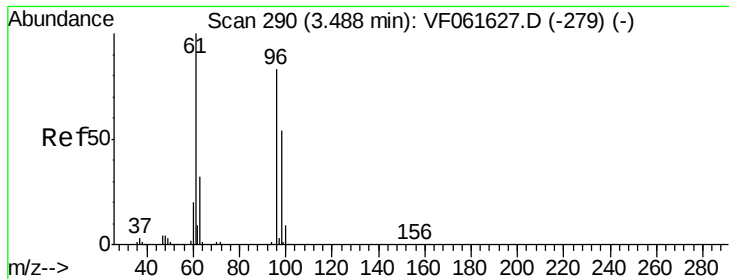
Tgt Ion: 77 Resp: 52731

Ion Ratio Lower Upper

77 100

97 19.9 11.7 35.0





#27

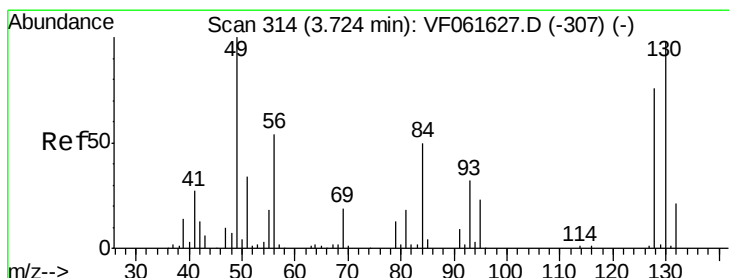
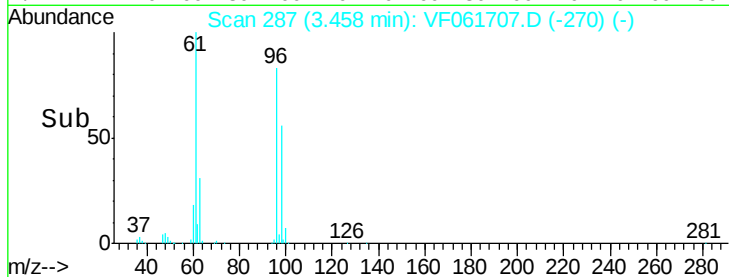
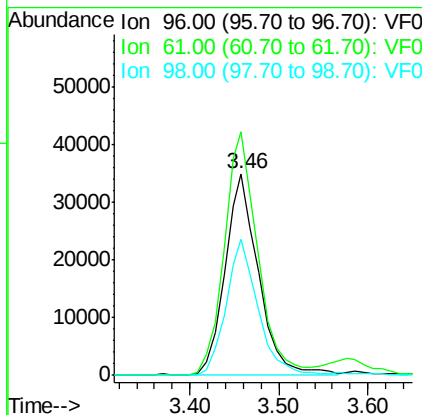
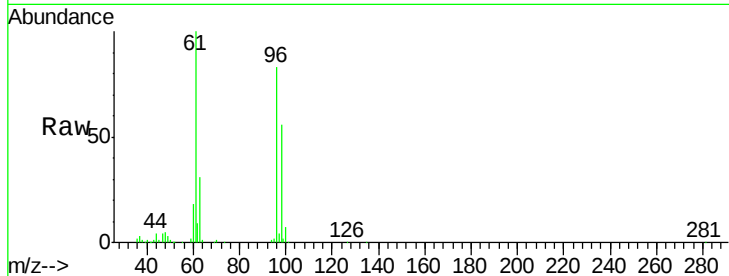
cis-1,2-Dichloroethene
Concen: 21.576 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	120.7	0.0	241.6
98	67.4	0.0	130.2

Manual Integrations
APPROVED

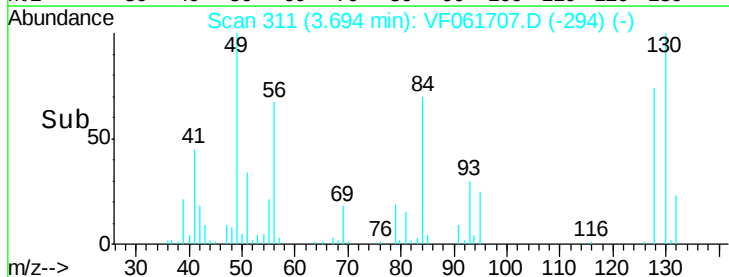
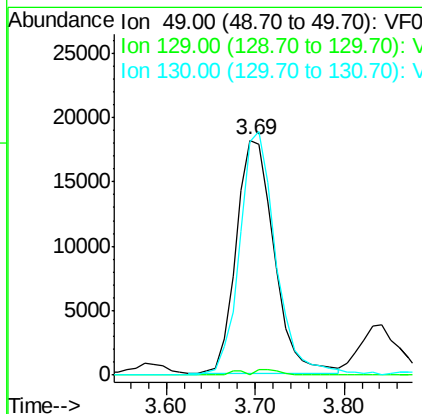
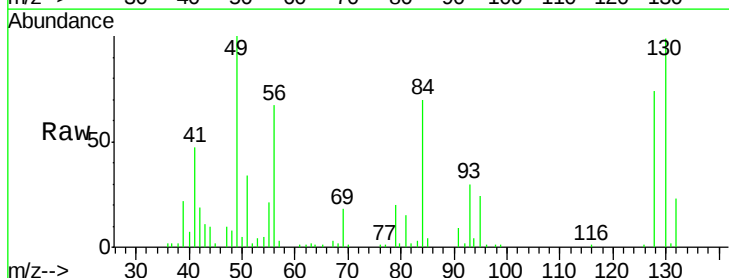
MMDadoda
2/27/2019 5:40:54 PM

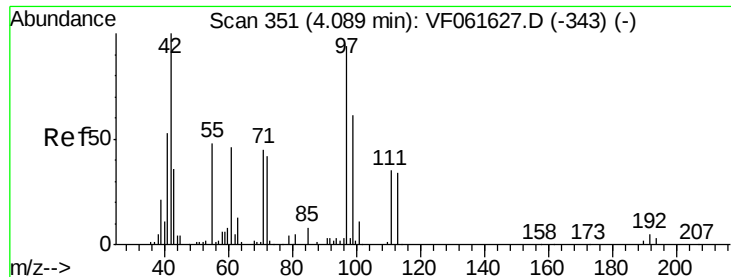


#28

Bromochloromethane
Concen: 21.048 ug/l
RT: 3.69 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	99.5	77.7	116.5





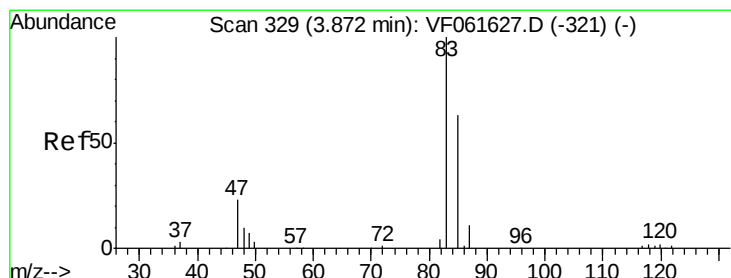
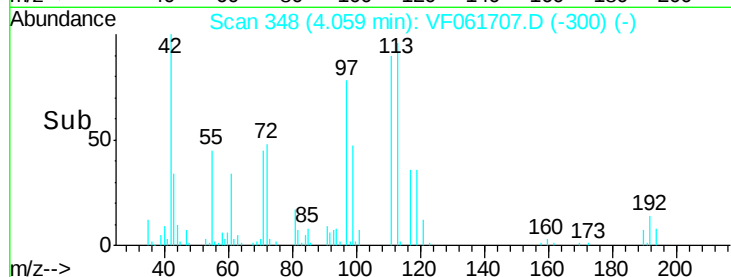
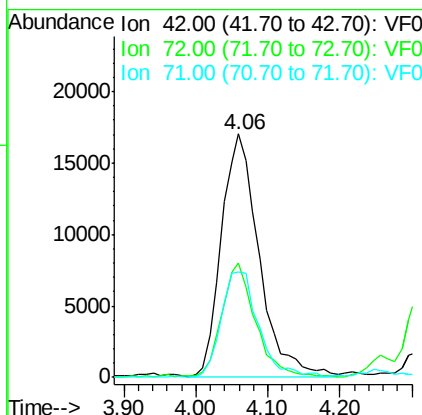
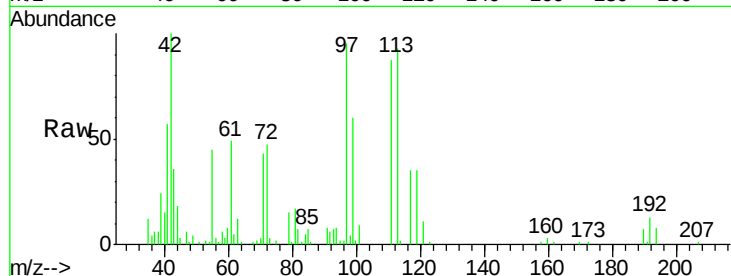
#29
Tetrahydrofuran
Concen: 114.016 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.3	35.2	52.8
71	42.8	32.9	49.3

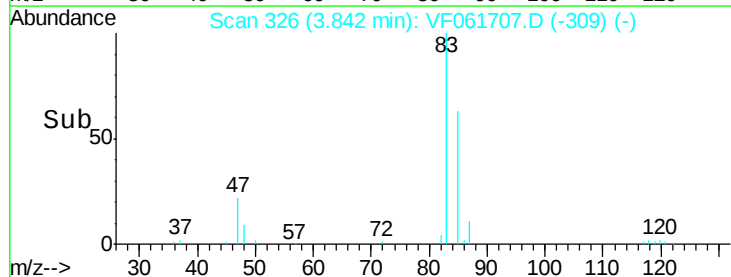
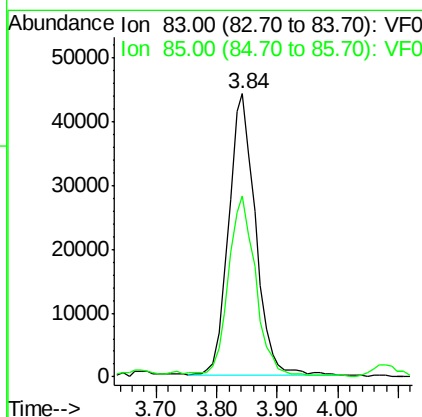
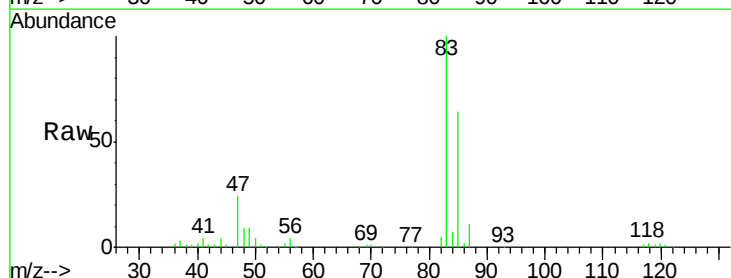
Manual Integrations
APPROVED

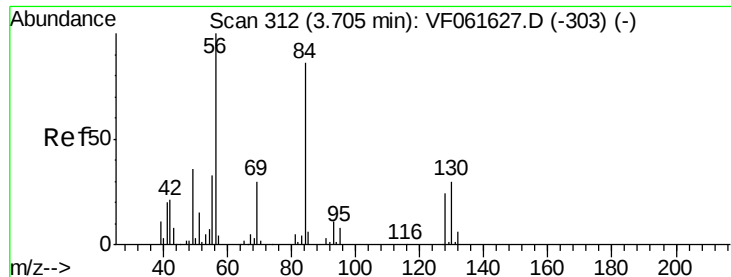
MMDadoda
2/27/2019 5:40:54 PM



#30
Chloroform
Concen: 22.324 ug/l
RT: 3.84 min Scan# 326
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.1	76.7





#31

Cyclohexane

Concen: 21.905 ug/l m

RT: 3.67 min Scan# 309

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

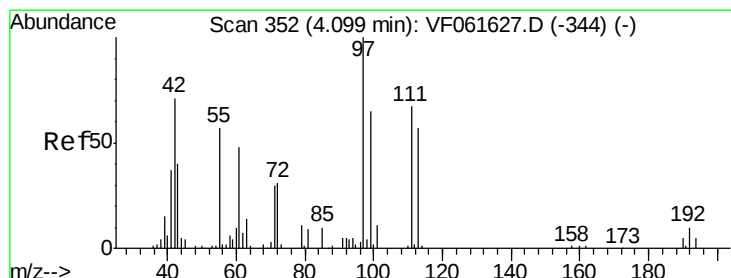
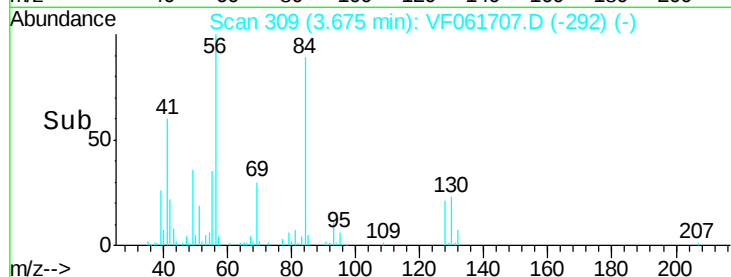
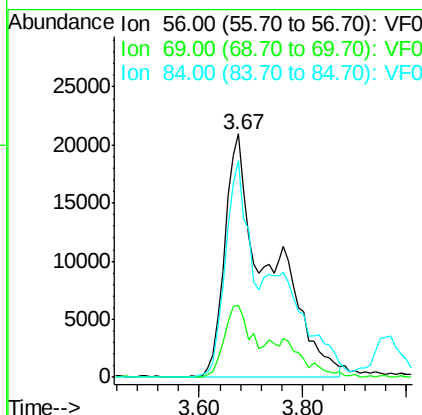
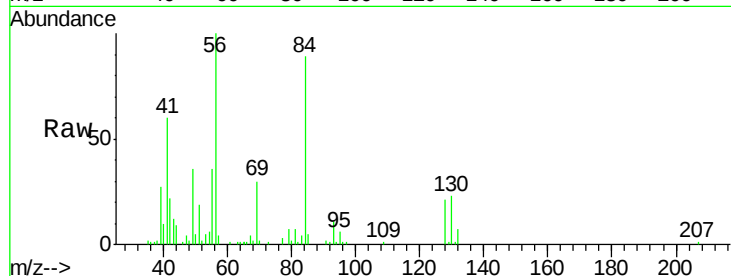
ClientSampleId :

VF0222SBS01

Tot Ion:	56	Resp:	126175
Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.8	35.8
84	88.8	68.6	103.0

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#32

1,1,1-Trichloroethane

Concen: 18.857 ug/l

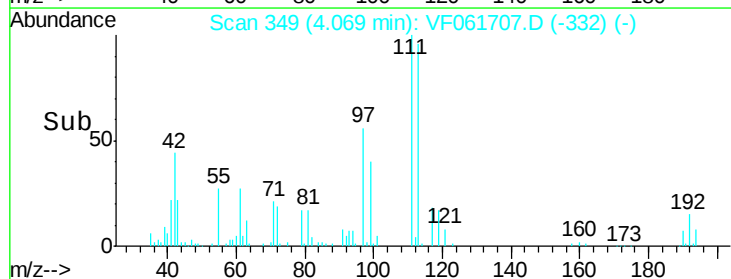
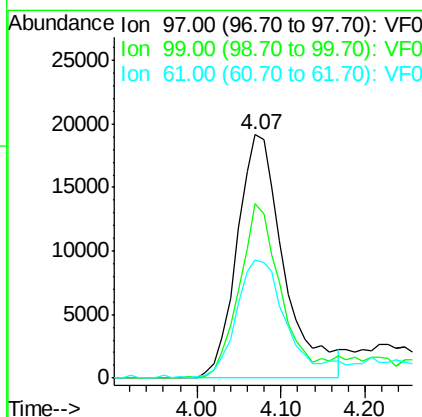
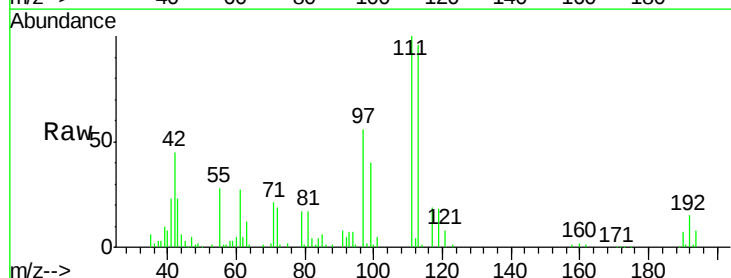
RT: 4.07 min Scan# 349

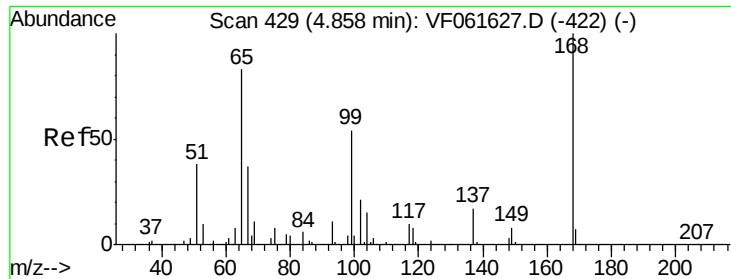
Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	97	Resp:	74742
Ion	Ratio	Lower	Upper
97	100		
99	71.6	52.2	78.2
61	48.8	39.2	58.8





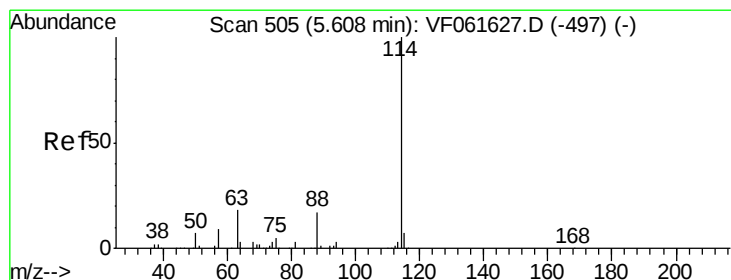
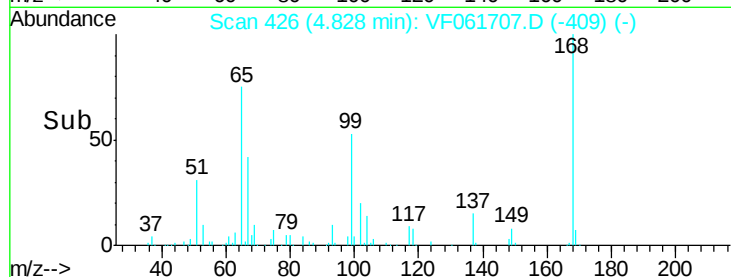
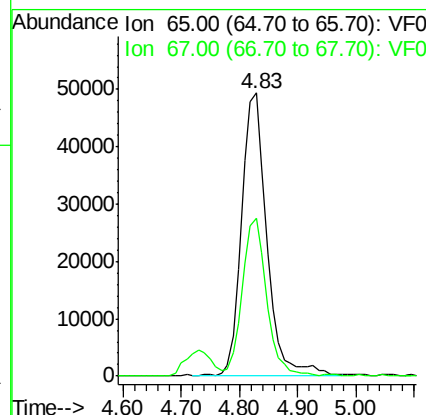
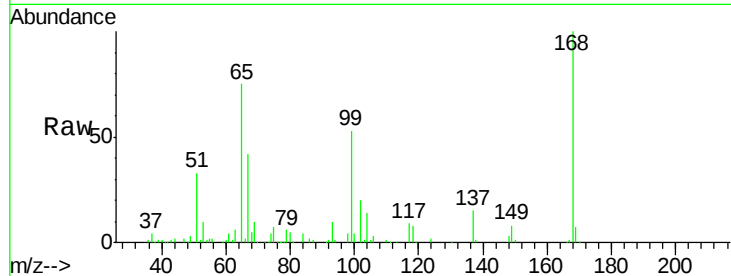
#33
 1,2-Dichloroethane-d4
 Concen: 58.268 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.03 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0222SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	148840		
67	55.6	0.0	104.0	

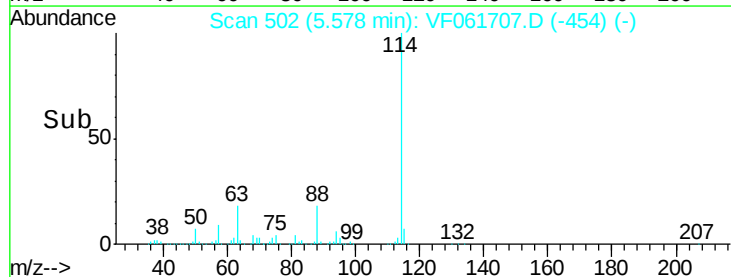
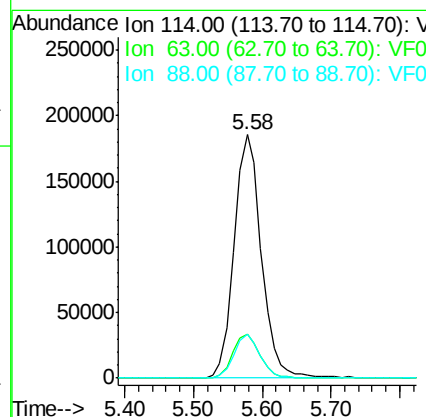
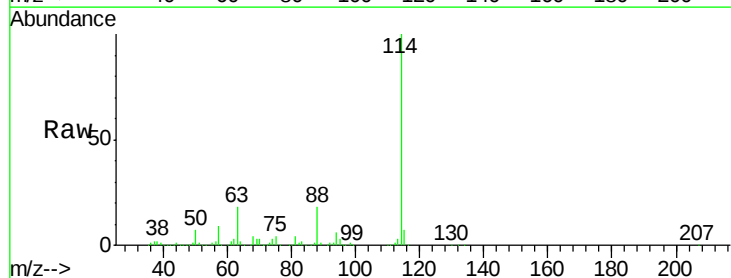
Manual Integrations
 APPROVED

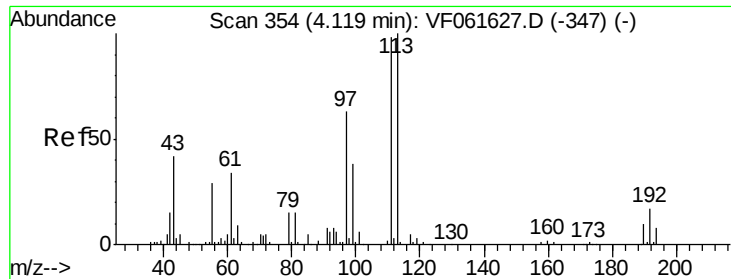
MMDadoda
 2/27/2019 5:40:54 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	508048		
63	18.2	0.0	36.6	
88	17.9	0.0	34.4	





#35

Dibromofluoromethane

Concen: 55.866 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

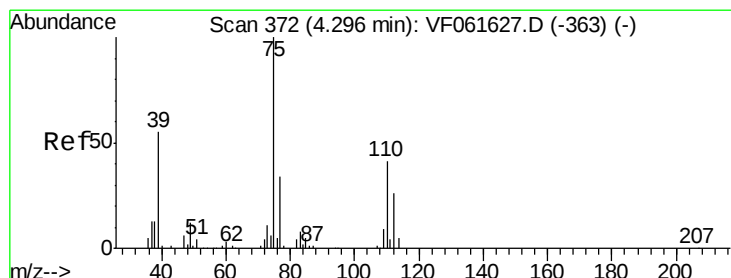
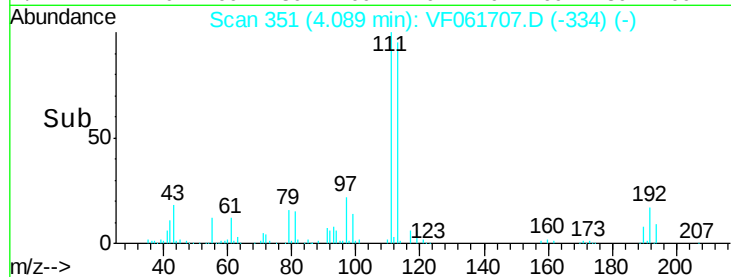
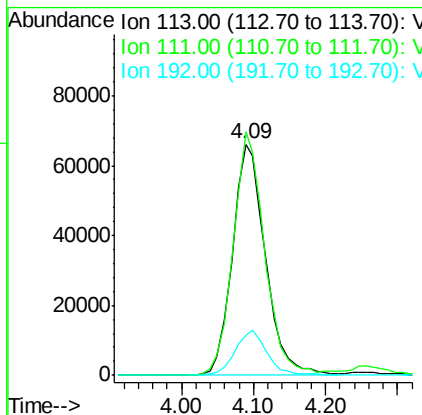
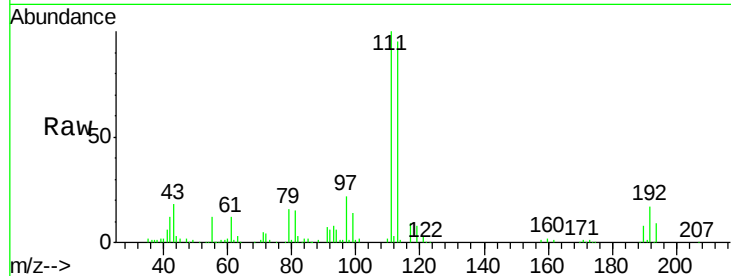
ClientSampleId :

VF0222SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	210772		
111	105.3		78.8	118.2
192	17.4		13.4	20.0

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#36

1,1-Dichloropropene

Concen: 21.604 ug/l

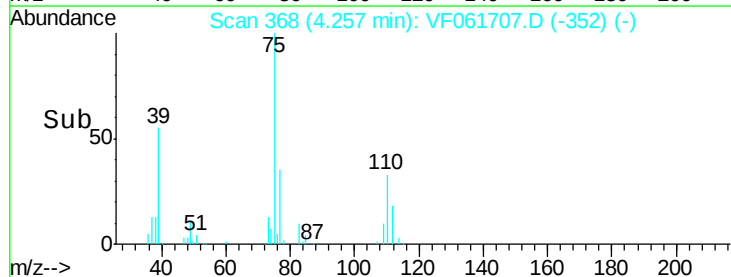
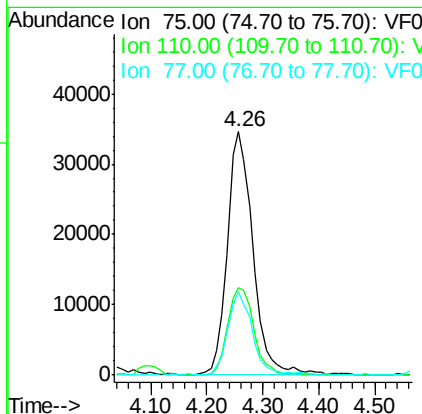
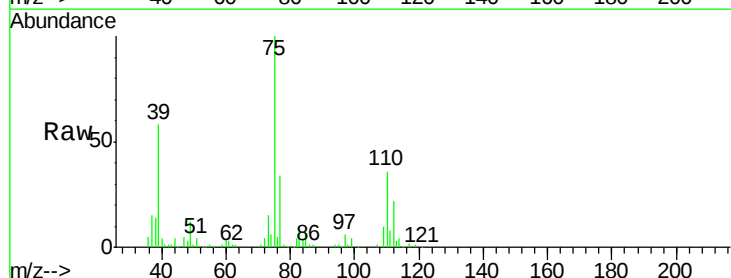
RT: 4.26 min Scan# 368

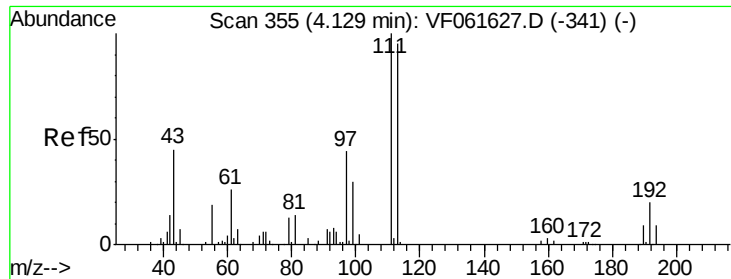
Delta R.T. -0.04 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	108730		
110	36.0		20.5	61.6
77	34.3		27.0	40.4





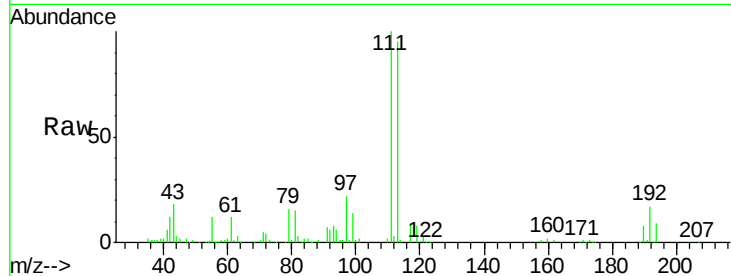
#37
Ethyl Acetate
Concen: 21.906 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.04 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

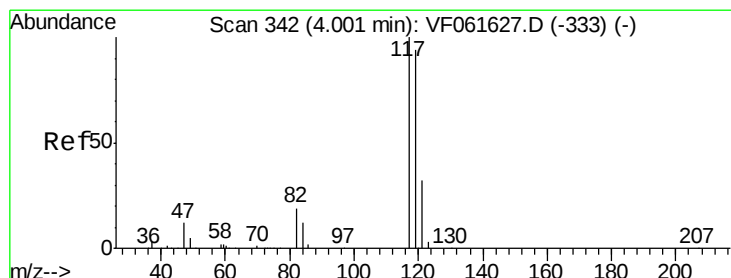
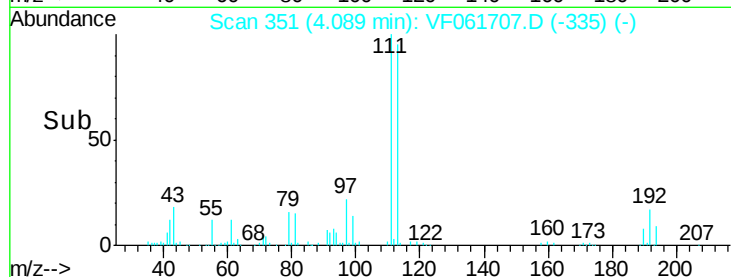
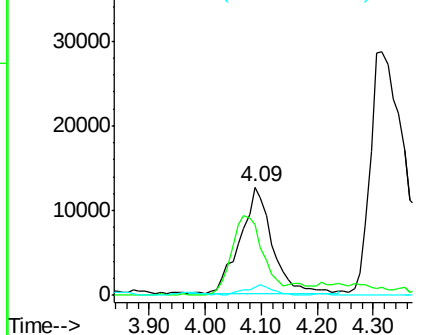
Tot Ion	Ratio	Lower	Upper
43	100		
61	65.8	45.7	68.5
70	7.5	8.5	12.7#

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM

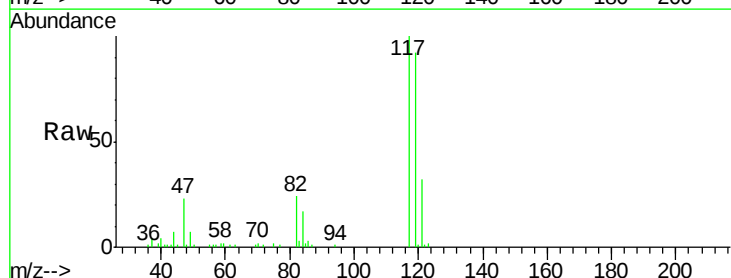


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

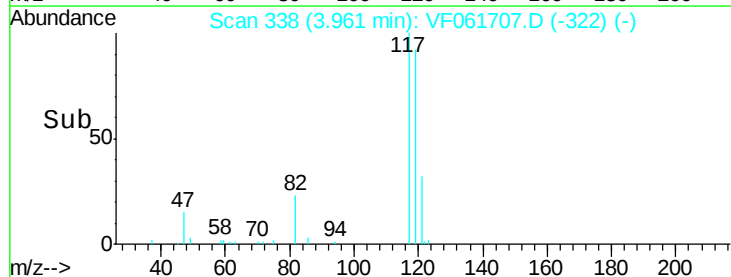
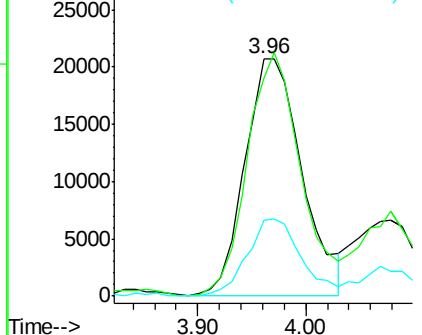


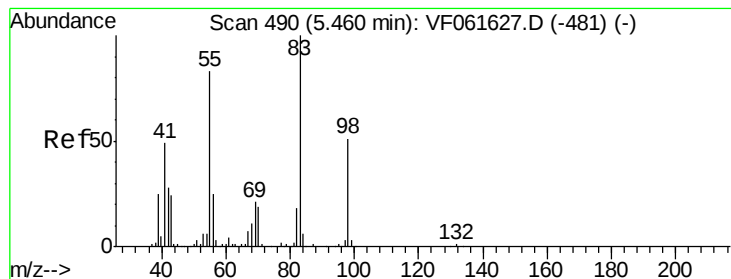
#38
Carbon Tetrachloride
Concen: 22.064 ug/l
RT: 3.96 min Scan# 338
Delta R.T. -0.04 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
117	100		
119	91.7	75.6	113.4
121	31.9	25.2	37.8



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V





#39

Methylvlcyclohexane

Concen: 22.290 ug/l

RT: 5.44 min Scan# 488

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

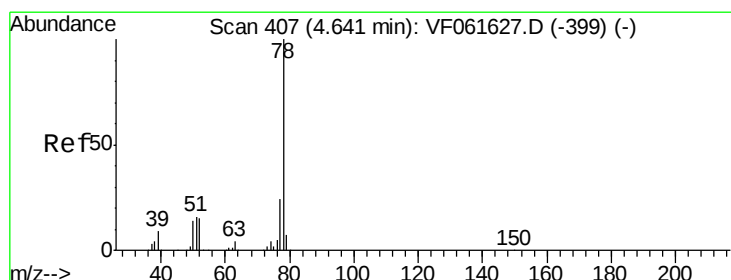
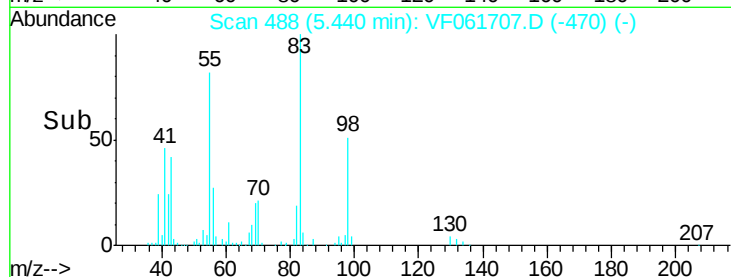
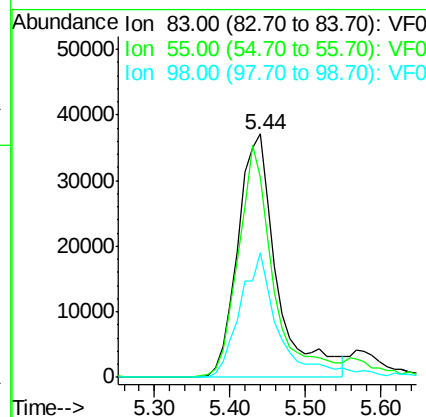
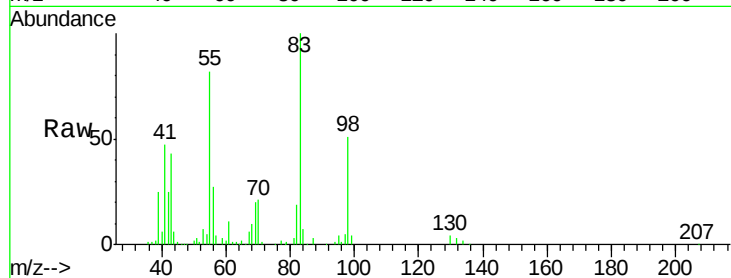
ClientSampleId :

VF0222SBS01

Tot Ion:	83	Resp:	132675
Ion Ratio	Lower	Upper	
83	100		
55	82.3	66.6	99.8
98	51.3	40.4	60.6

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#40

Benzene

Concen: 22.437 ug/l

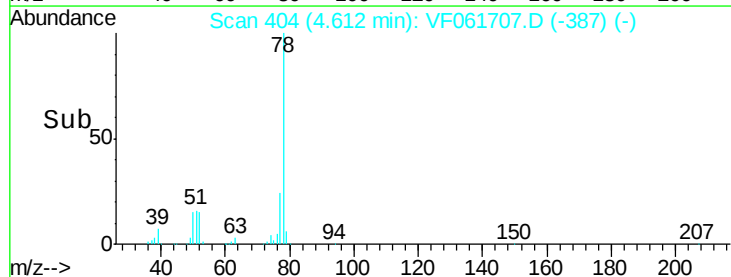
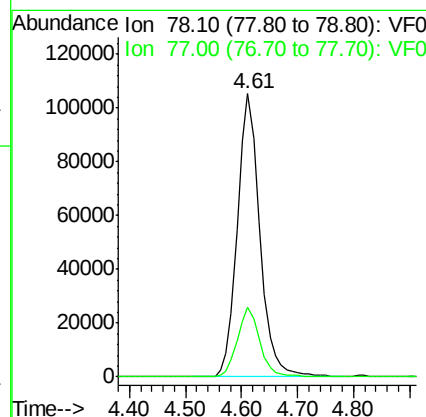
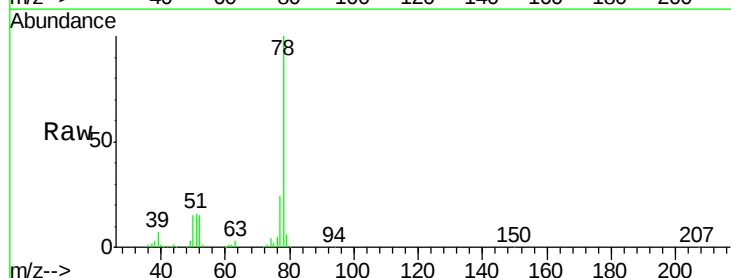
RT: 4.61 min Scan# 404

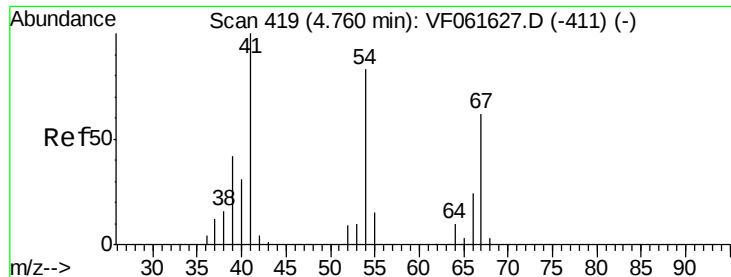
Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	78	Resp:	295367
Ion Ratio	Lower	Upper	
78	100		
77	24.5	19.0	28.6





#41

Methacrylonitrile

Concen: 21.094 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

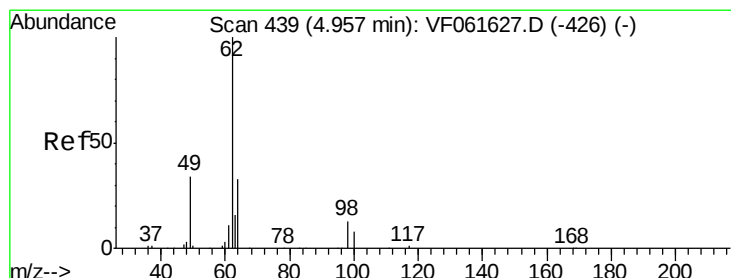
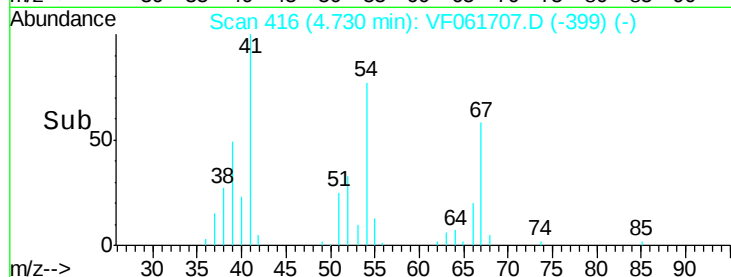
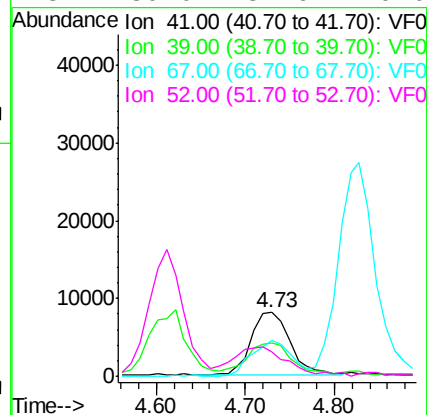
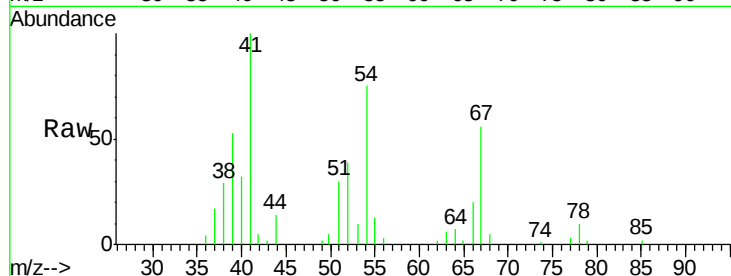
ClientSampleId :

VF0222SBS01

Tot Ion:	41	Resp:	25217
Ion	Ratio	Lower	Upper
41	100		
39	52.7	45.3	67.9
67	56.1	49.3	73.9
52	39.0	32.6	49.0

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#42

1,2-Dichloroethane

Concen: 22.952 ug/l

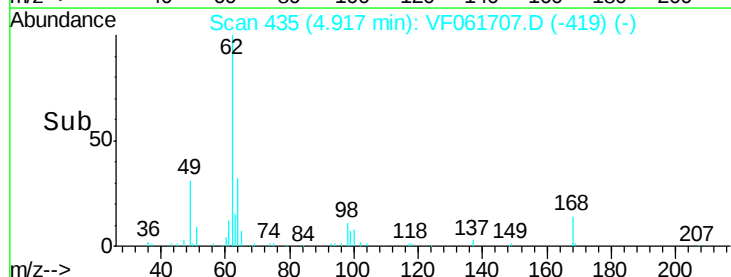
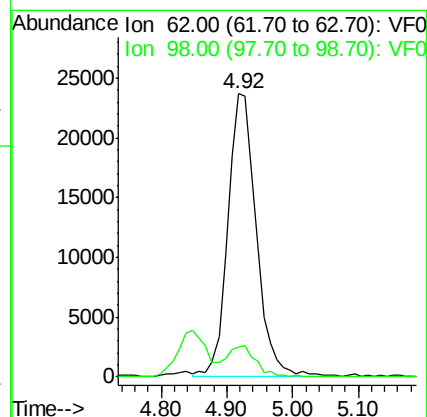
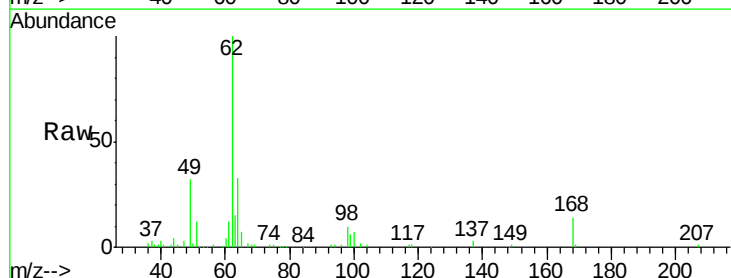
RT: 4.92 min Scan# 435

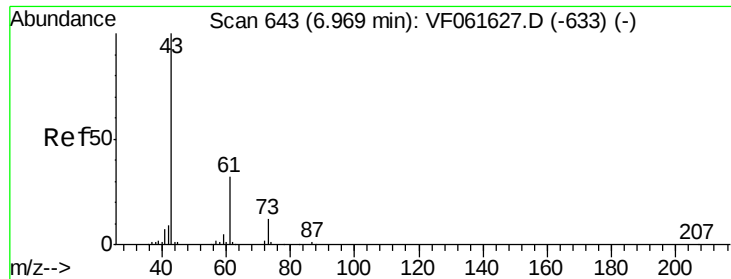
Delta R.T. -0.04 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	62	Resp:	72274
Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	26.0





#43

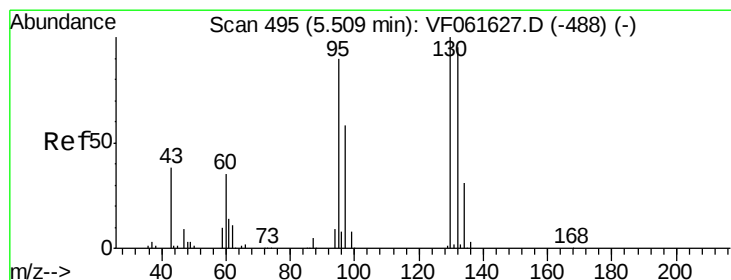
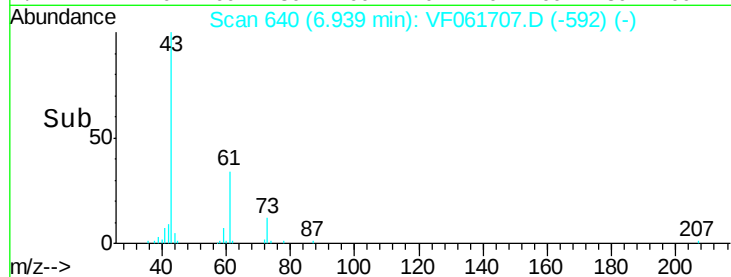
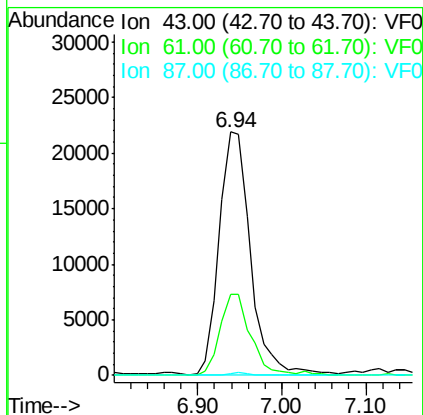
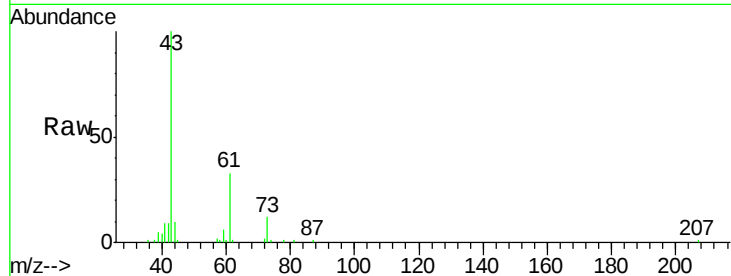
Isopropyl Acetate
 Concen: 20.657 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.03 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0222SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.5	25.8	38.6
87	0.5	0.4	0.6

Manual Integrations
 APPROVED

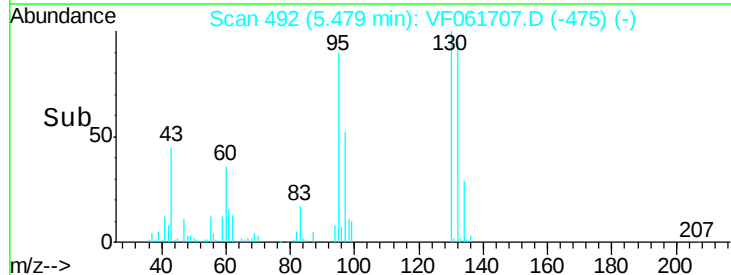
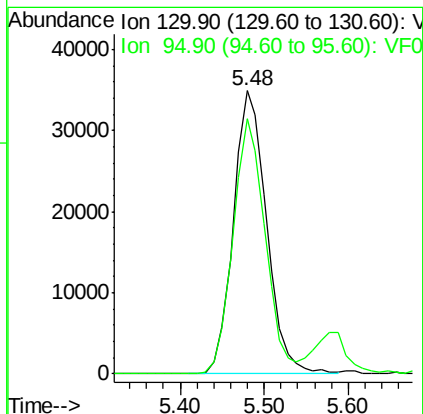
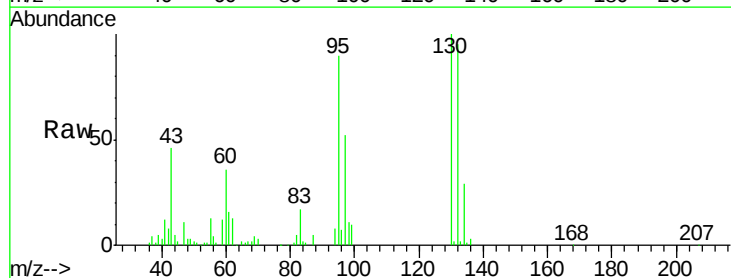
MMDadoda
 2/27/2019 5:40:54 PM

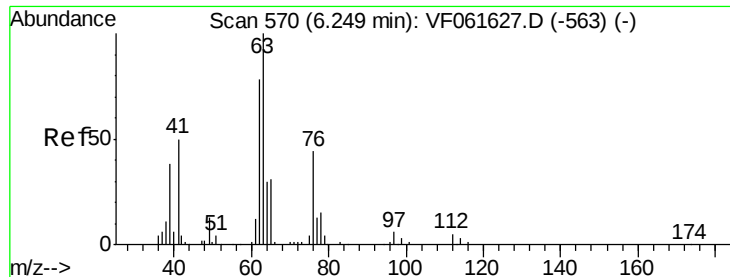


#44

Trichloroethene
 Concen: 22.515 ug/l
 RT: 5.48 min Scan# 492
 Delta R.T. -0.03 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.3	0.0	179.4





#45

1,2-Dichloropropane

Concen: 21.479 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 63 Resp: 68346

Ion Ratio Lower Upper

63 100

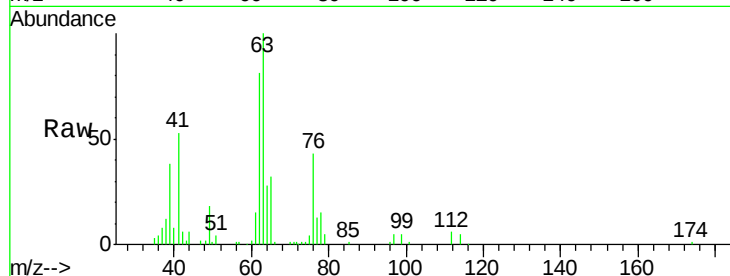
65 31.6 24.9 37.3

Manual Integrations

APPROVED

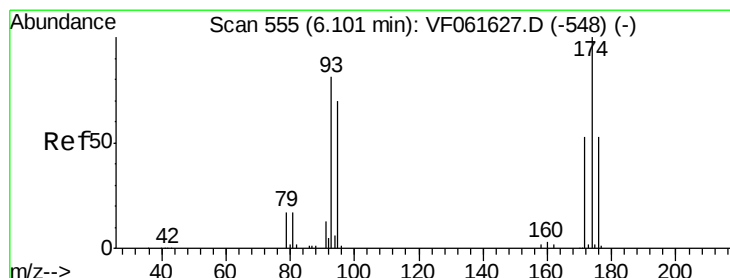
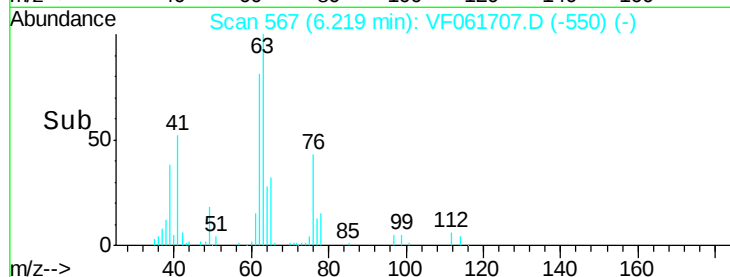
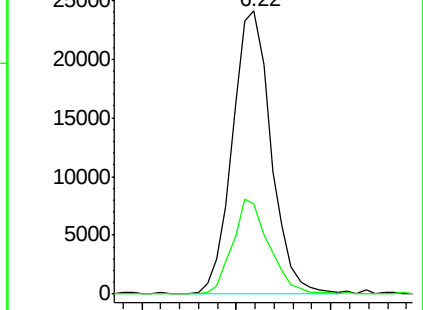
MMDadoda

2/27/2019 5:40:54 PM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 19.928 ug/l

RT: 6.06 min Scan# 551

Delta R.T. -0.04 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

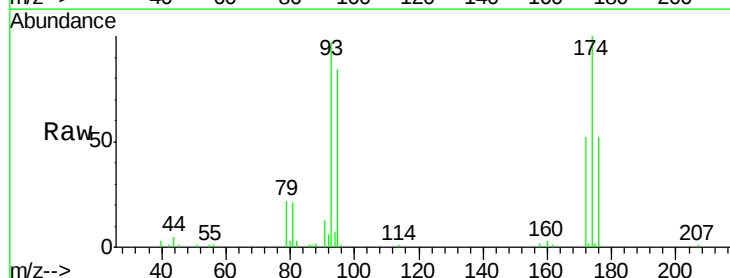
Tgt Ion: 93 Resp: 39043

Ion Ratio Lower Upper

93 100

95 86.7 69.0 103.6

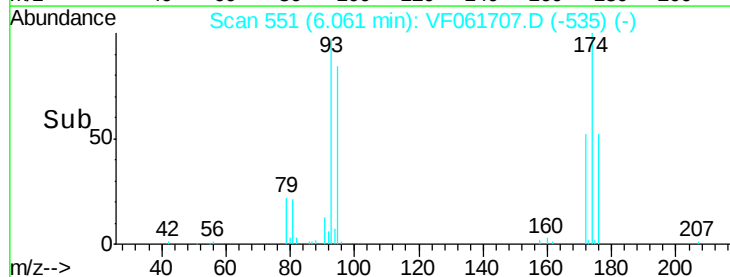
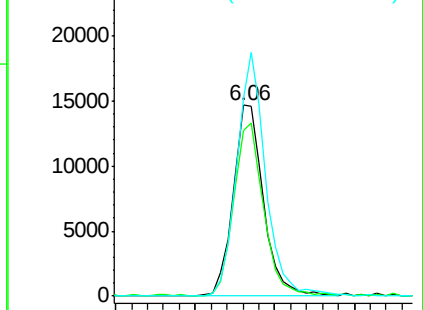
174 103.3 99.3 148.9

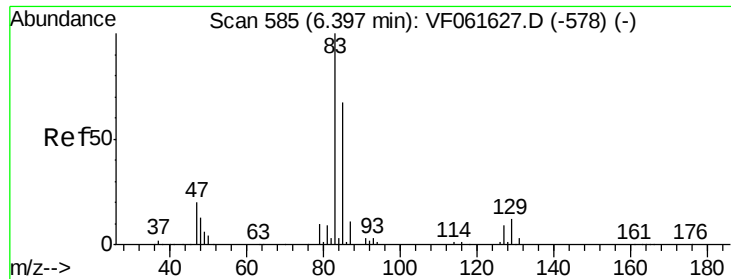


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 21.000 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

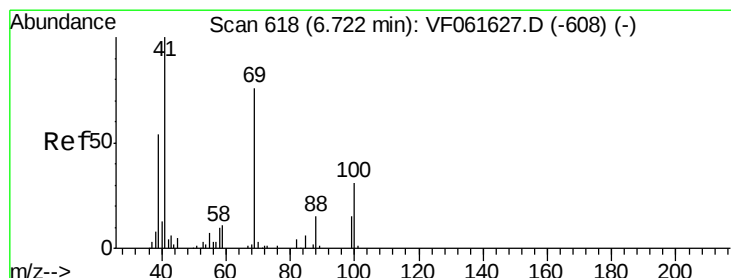
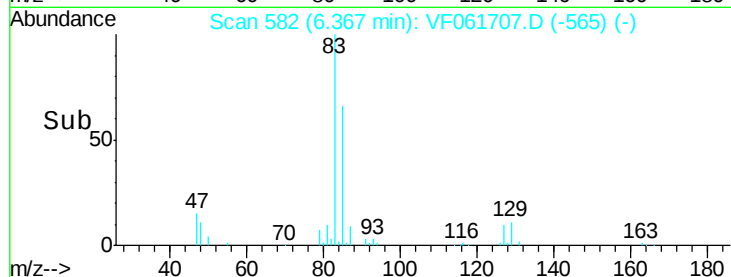
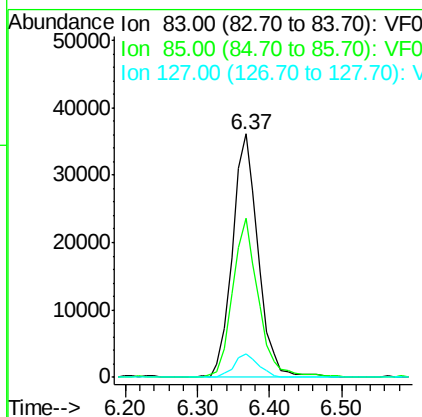
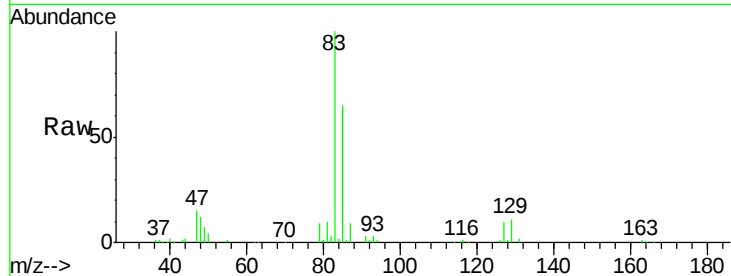
ClientSampleId :

VF0222SBS01

Tot Ion:	83	Resp:	90098
Ion	Ratio	Lower	Upper
83	100		
85	65.4	53.4	80.2
127	9.9	7.5	11.3

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#48

Methyl methacrylate

Concen: 19.026 ug/l

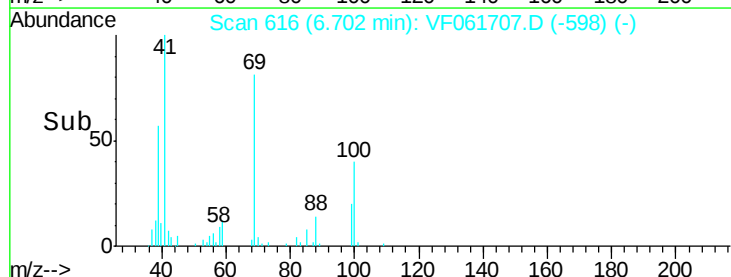
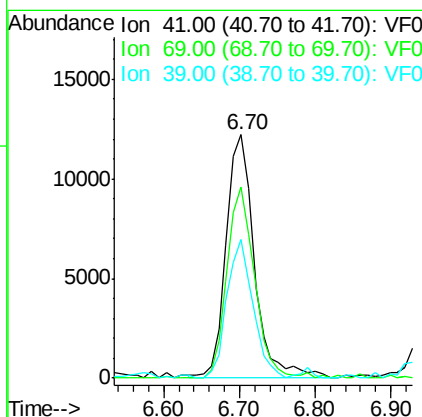
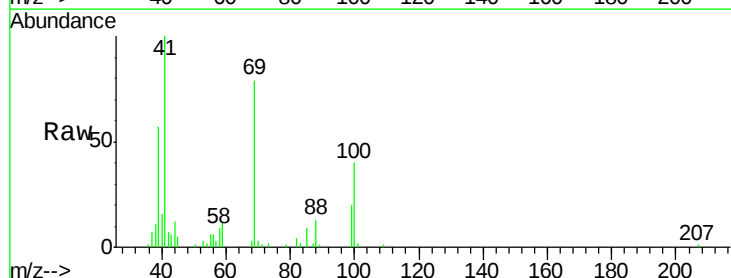
RT: 6.70 min Scan# 616

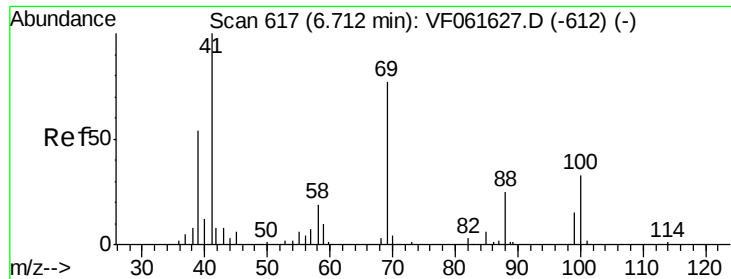
Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	41	Resp:	31682
Ion	Ratio	Lower	Upper
41	100		
69	78.7	60.4	90.6
39	56.9	43.7	65.5





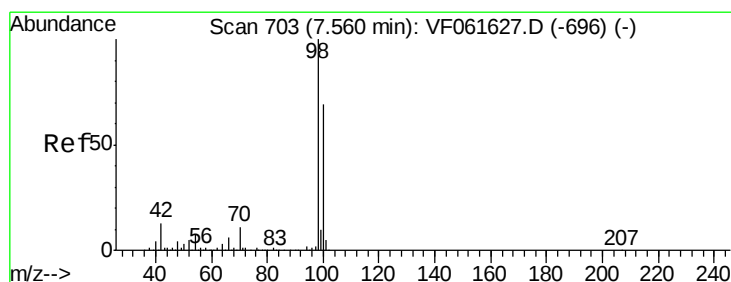
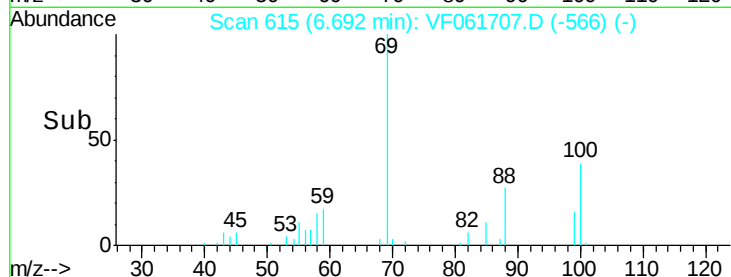
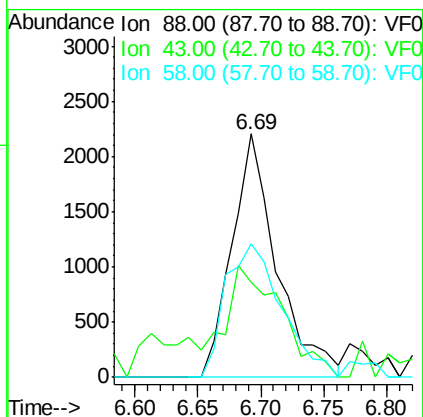
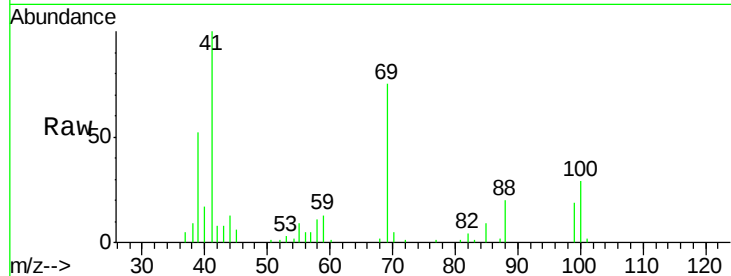
#49
1,4-Dioxane
Concen: 347.976 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	5447		
43	39.1		32.3	48.5
58	54.9		59.4	89.2#

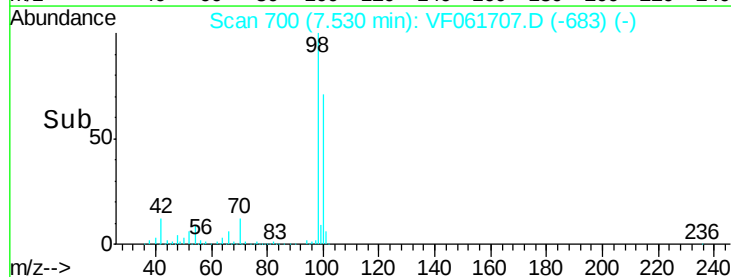
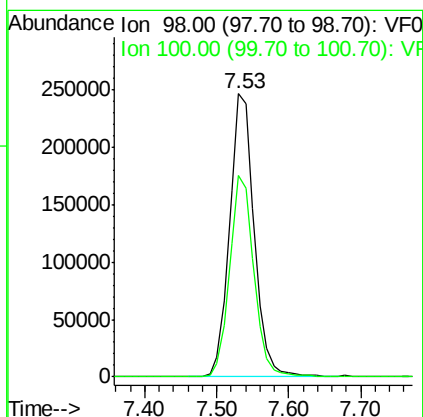
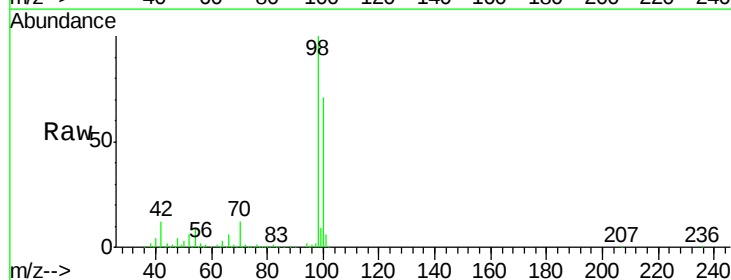
Manual Integrations
APPROVED

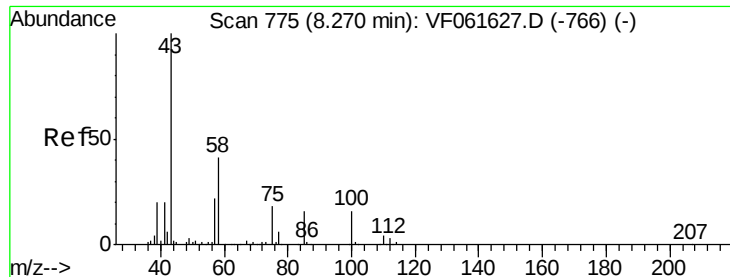
MMDadoda
2/27/2019 5:40:54 PM



#50
Toluene-d8
Concen: 54.212 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	587968		
100	71.1		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 102.386 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 43 Resp: 202430

Ion Ratio Lower Upper

43 100

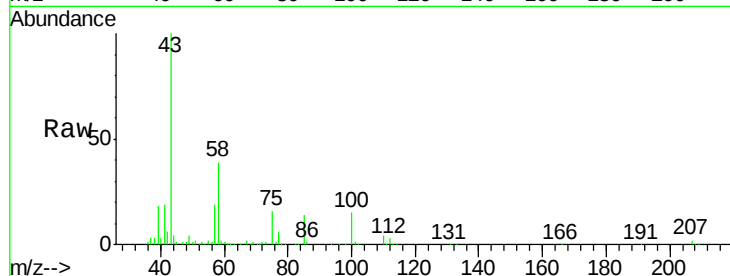
58 38.7 33.1 49.7

Manual Integrations

APPROVED

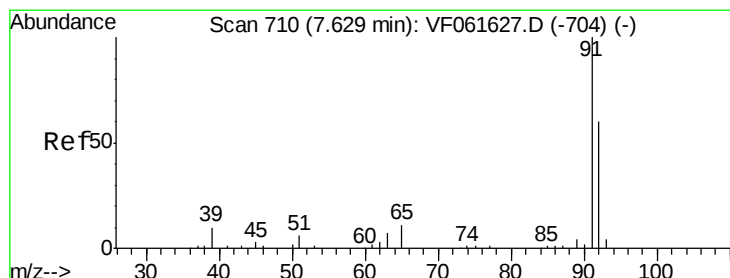
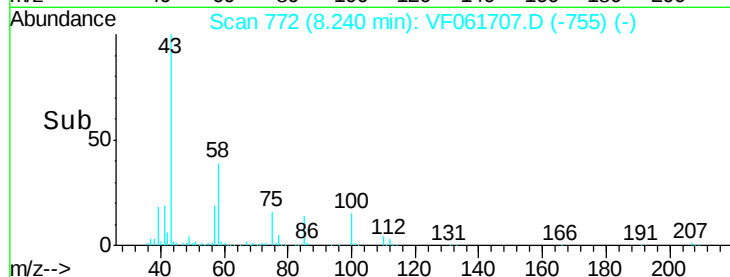
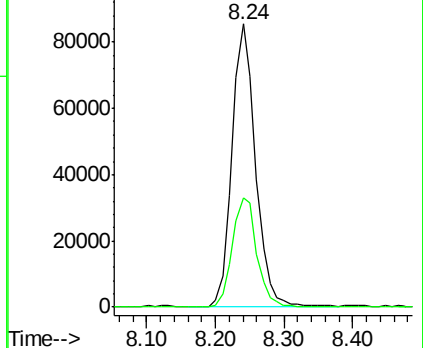
MMDadoda

2/27/2019 5:40:54 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.087 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061707.D

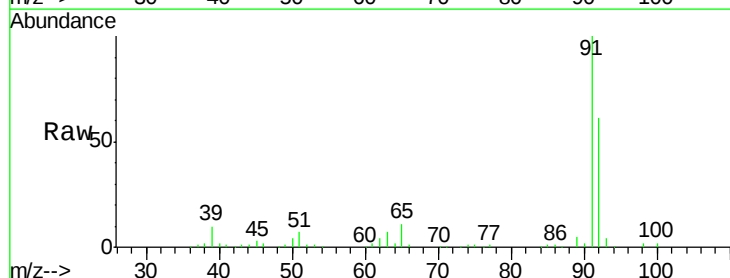
Acq: 22 Feb 2019 14:20

Tgt Ion: 92 Resp: 168356

Ion Ratio Lower Upper

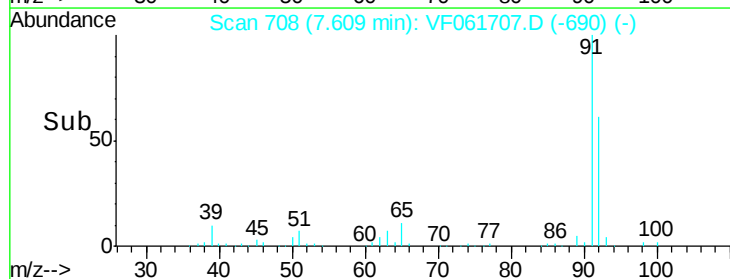
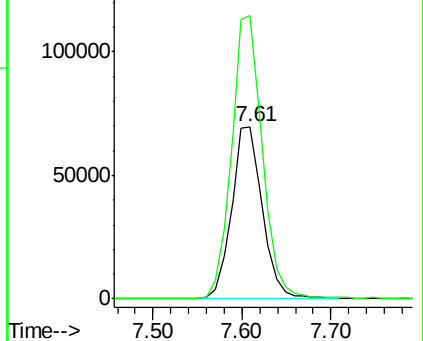
92 100

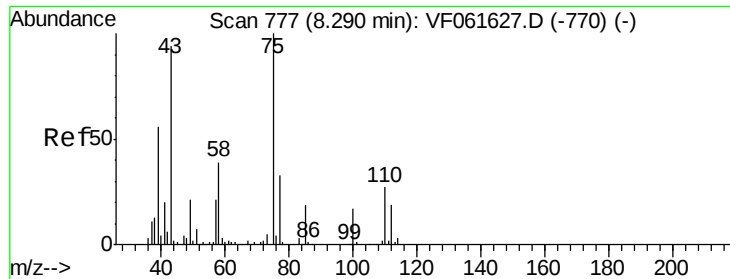
91 164.1 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 21.664 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tot Ion: 75 Resp: 77355

Ion Ratio Lower Upper

75 100

77 35.6 26.2 39.2

Instrument :

MSVOA_F

ClientSampleId :

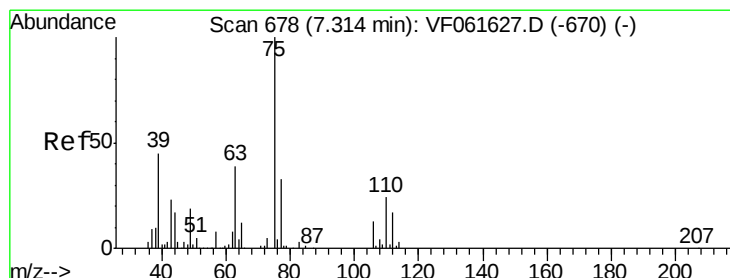
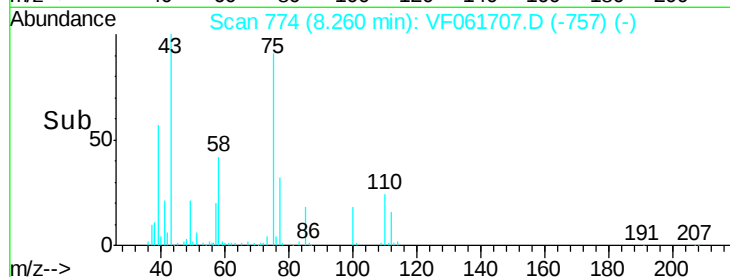
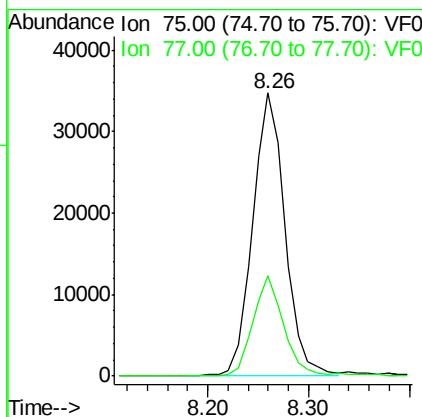
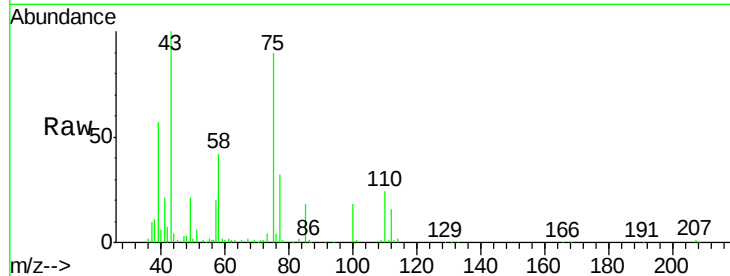
VF0222SBS01

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:54 PM



#54

cis-1,3-Dichloropropene

Concen: 21.945 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

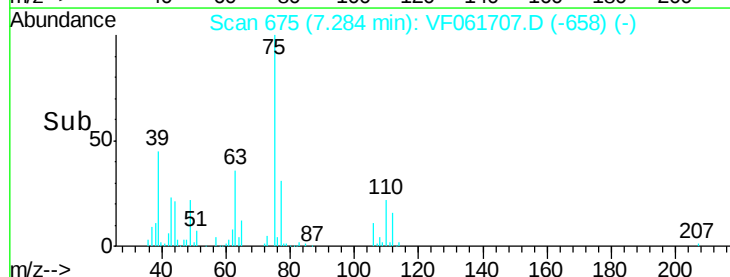
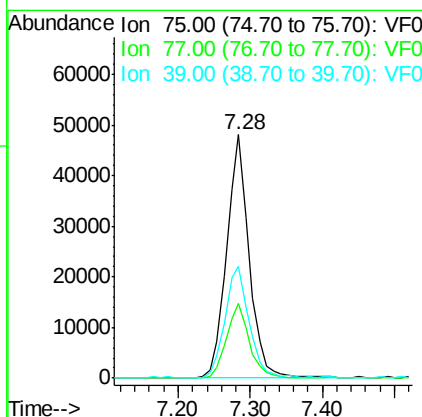
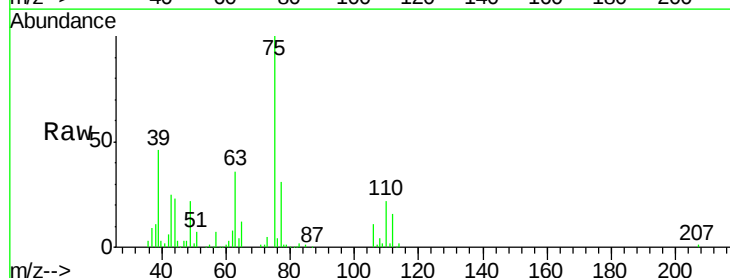
Tgt Ion: 75 Resp: 104374

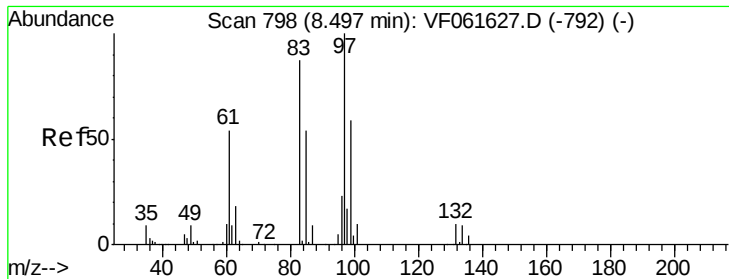
Ion Ratio Lower Upper

75 100

77 30.7 26.4 39.6

39 45.7 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 20.264 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

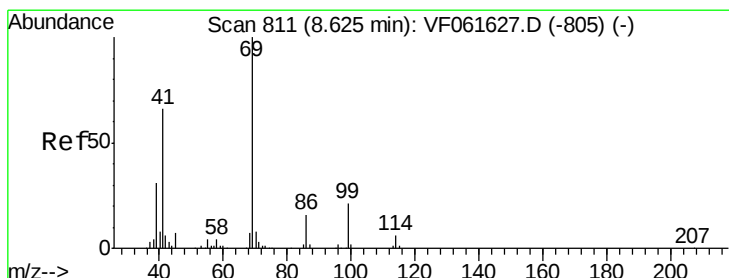
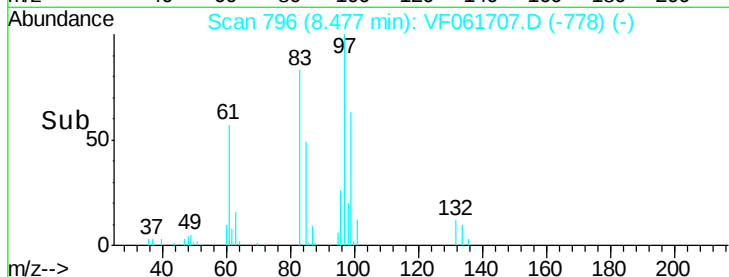
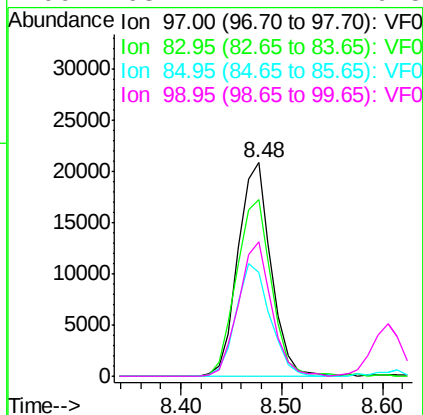
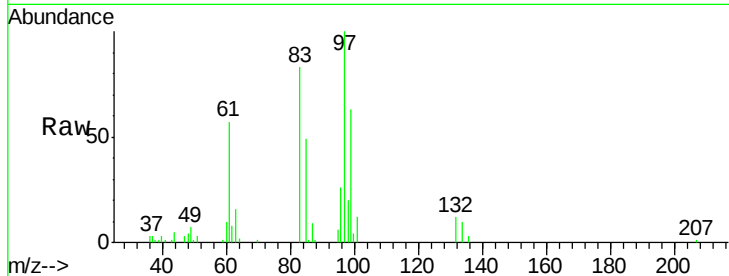
ClientSampleId :

VF0222SBS01

Tot Ion:	97	Resp:	47535
Ion	Ratio	Lower	Upper
97	100		
83	82.8	69.2	103.8
85	48.6	43.0	64.4
99	63.2	47.2	70.8

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#56

Ethyl methacrylate

Concen: 20.563 ug/l

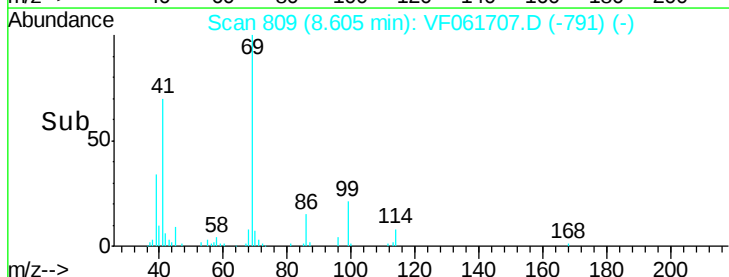
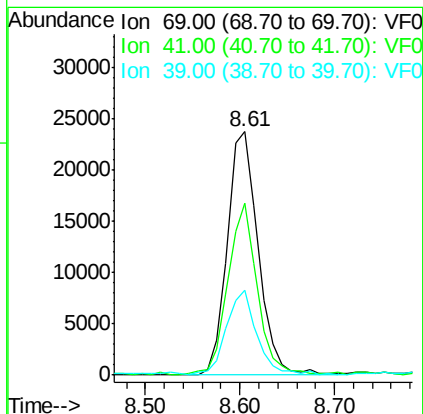
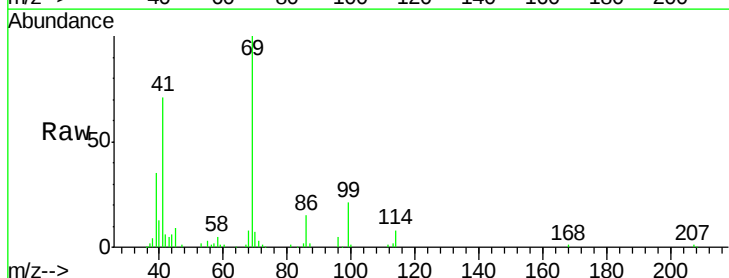
RT: 8.61 min Scan# 809

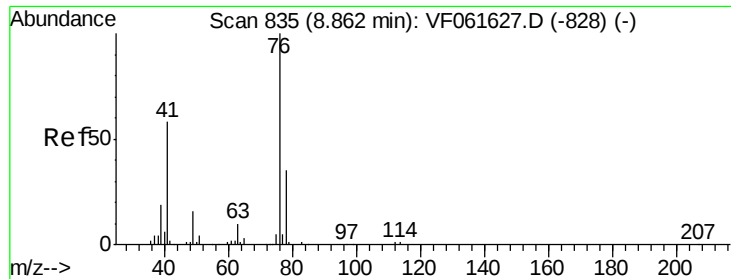
Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	69	Resp:	53702
Ion	Ratio	Lower	Upper
69	100		
41	70.5	52.9	79.3
39	34.8	24.5	36.7





#57

1,3-Dichloropropane

Concen: 20.690 ug/l

RT: 8.83 min Scan# 832

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 76 Resp: 81007

Ion Ratio Lower Upper

76 100

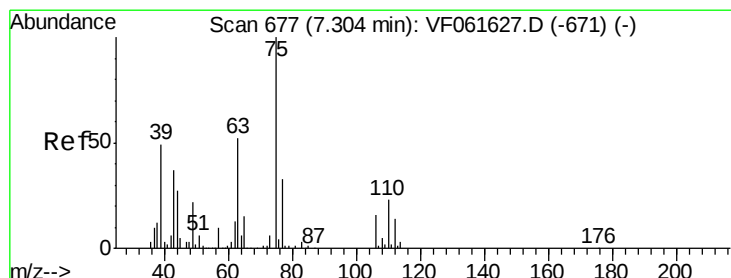
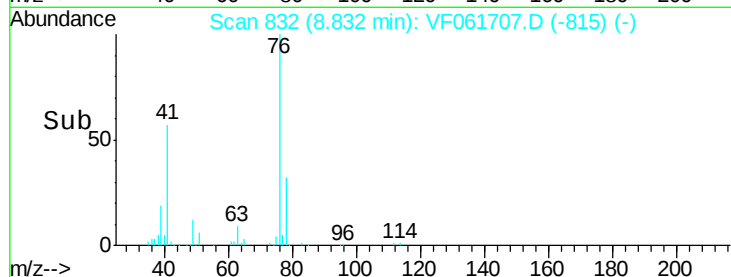
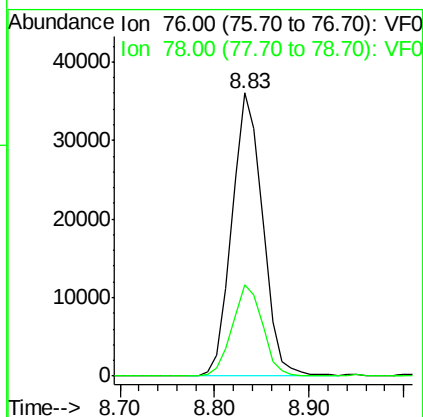
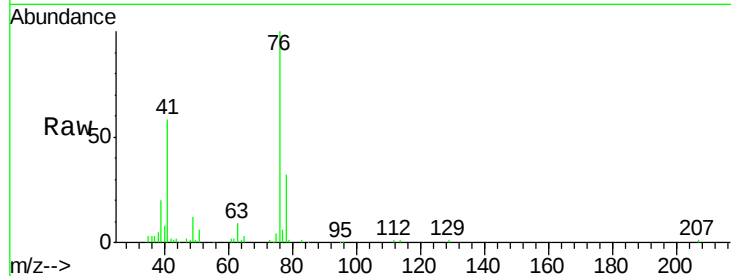
78 32.3 27.8 41.6

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:54 PM



#58

2-Chloroethyl Vinyl ether

Concen: 95.929 ug/l

RT: 7.27 min Scan# 674

Delta R.T. -0.03 min

Lab File: VF061707.D

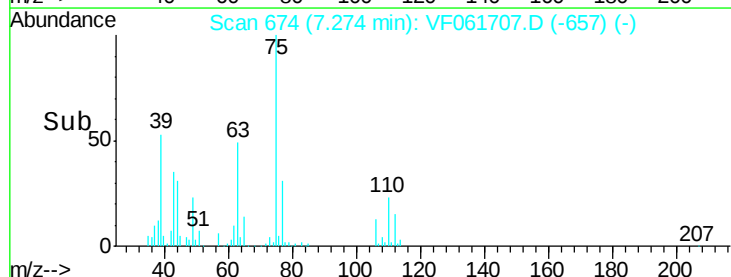
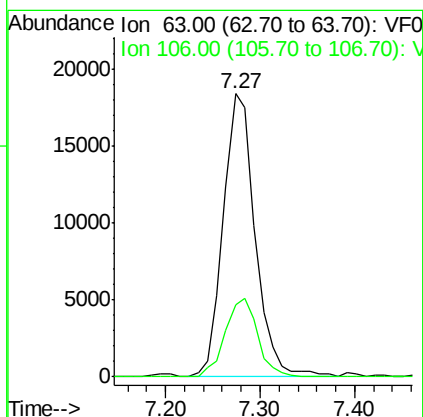
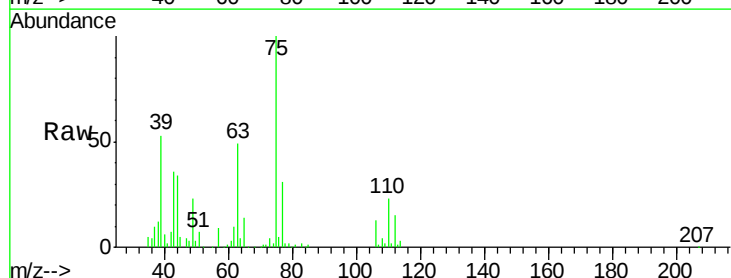
Acq: 22 Feb 2019 14:20

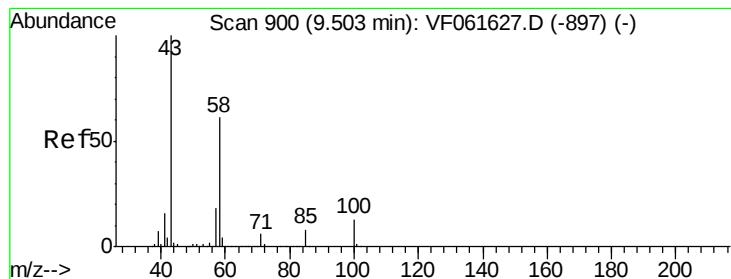
Tgt Ion: 63 Resp: 43226

Ion Ratio Lower Upper

63 100

106 25.5 24.6 36.8





#59

2-Hexanone

Concen: 104.849 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 43 Resp: 145311

Ion Ratio Lower Upper

43 100

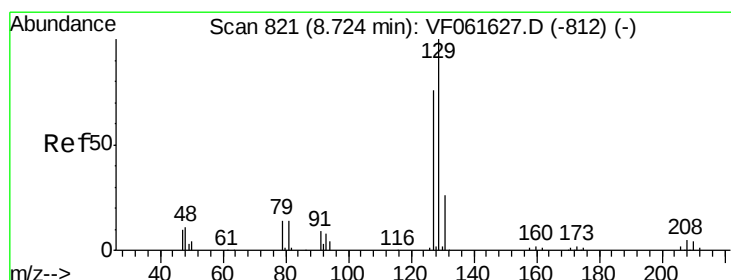
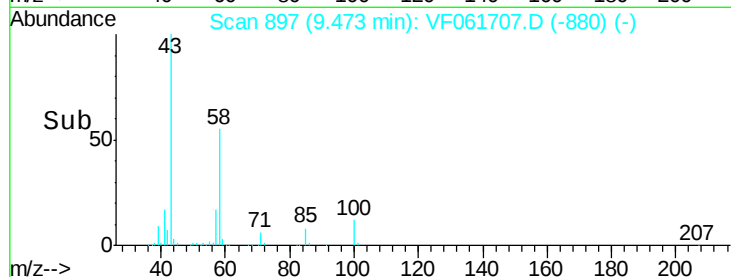
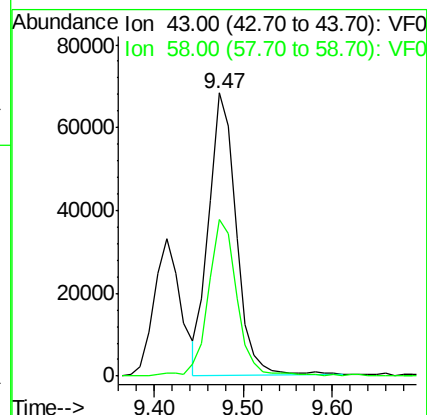
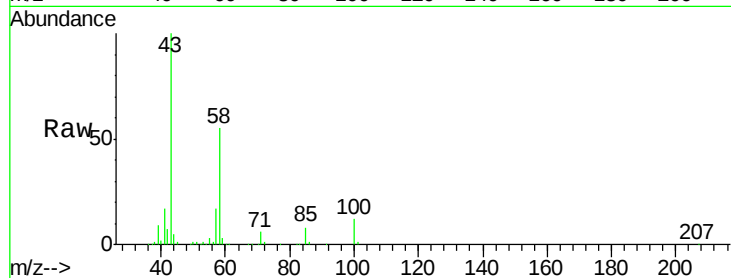
58 55.4 28.5 85.5

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:54 PM



#60

Dibromochloromethane

Concen: 20.587 ug/l

RT: 8.69 min Scan# 818

Delta R.T. -0.03 min

Lab File: VF061707.D

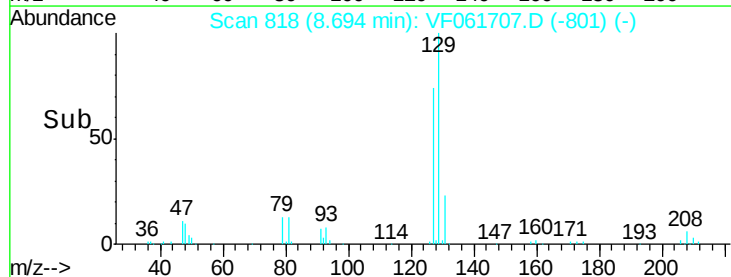
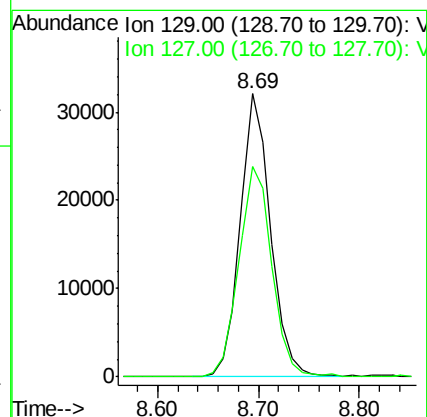
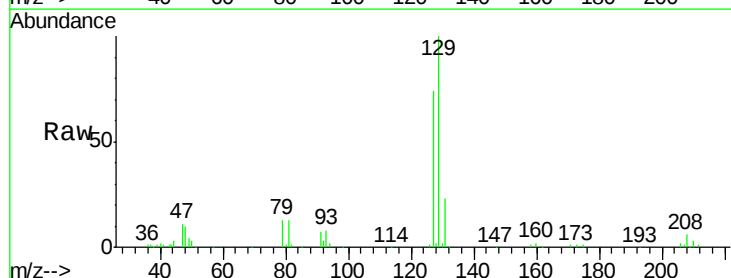
Acq: 22 Feb 2019 14:20

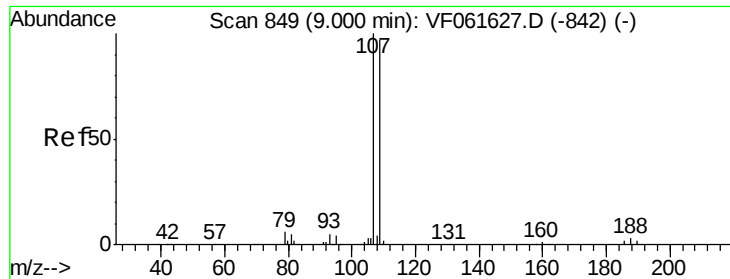
Tgt Ion: 129 Resp: 67217

Ion Ratio Lower Upper

129 100

127 74.2 37.8 113.4





#61

1,2-Dibromoethane

Concen: 20.293 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion:107 Resp: 51632

Ion Ratio Lower Upper

107 100

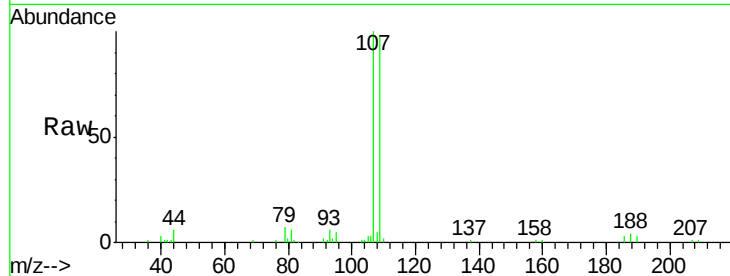
109 98.4 77.4 116.0

Manual Integrations

APPROVED

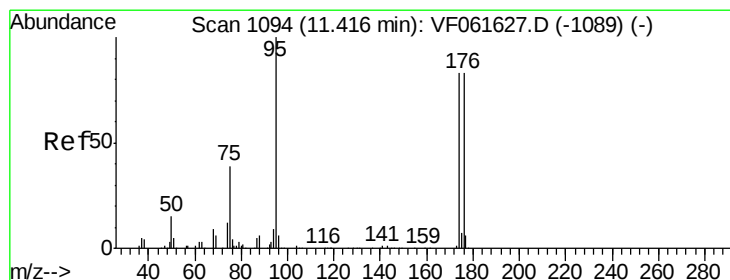
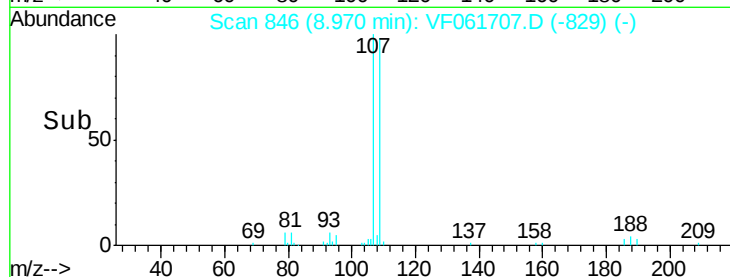
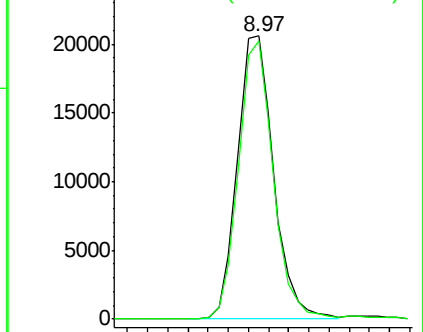
MMDadoda

2/27/2019 5:40:54 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 53.101 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

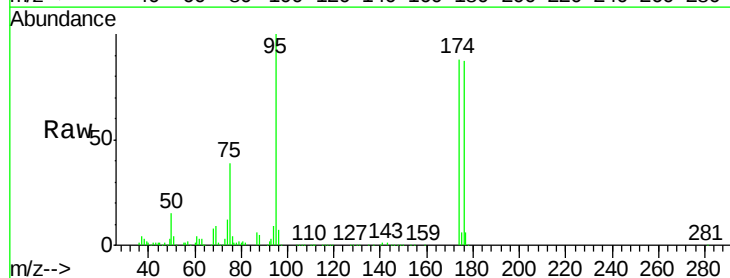
Tgt Ion: 95 Resp: 233027

Ion Ratio Lower Upper

95 100

174 88.3 0.0 165.8

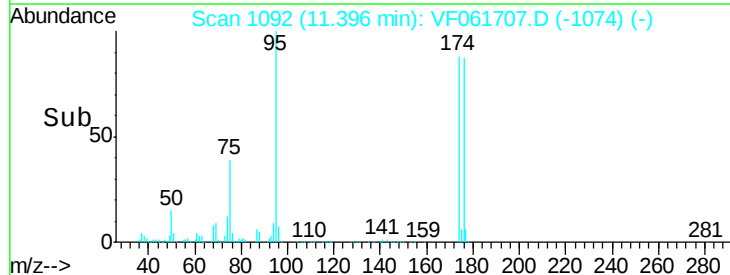
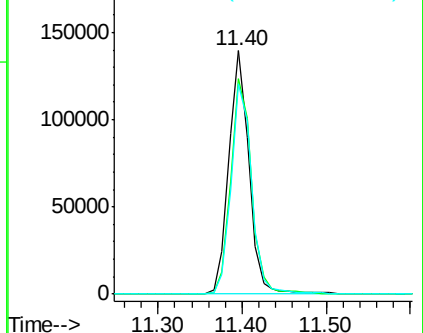
176 86.5 0.0 167.0

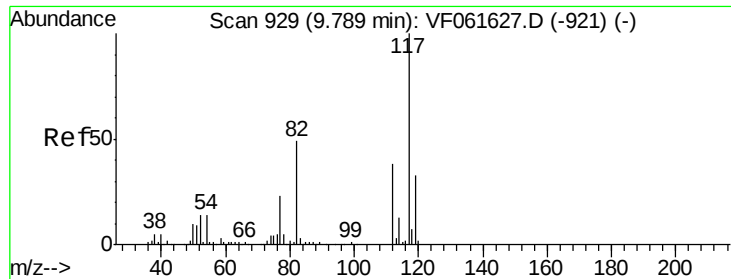


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





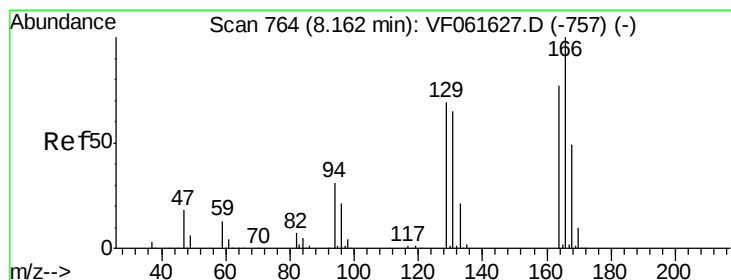
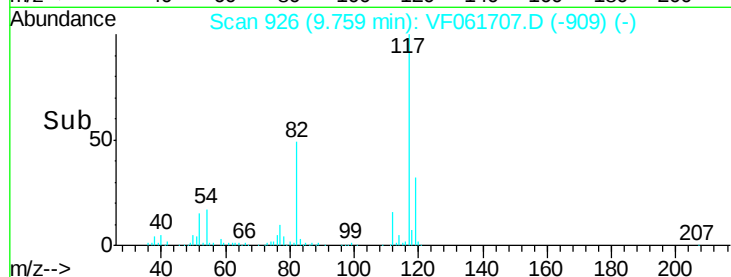
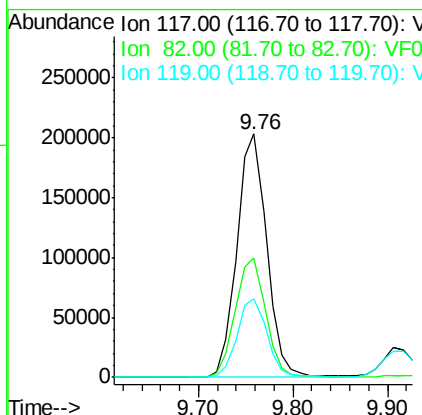
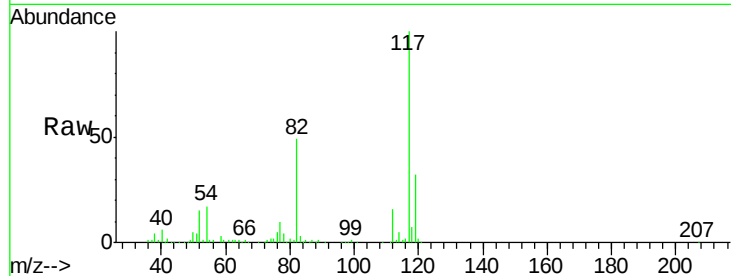
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	445368		
82	49.2		39.3	58.9
119	32.4		26.6	40.0

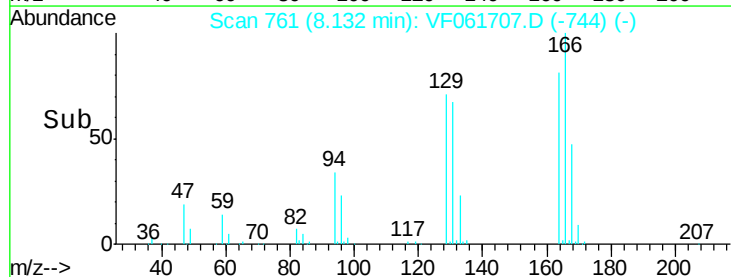
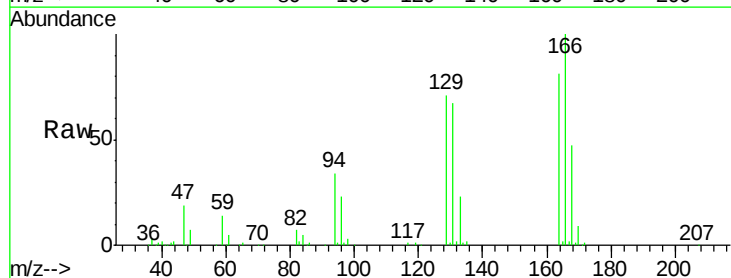
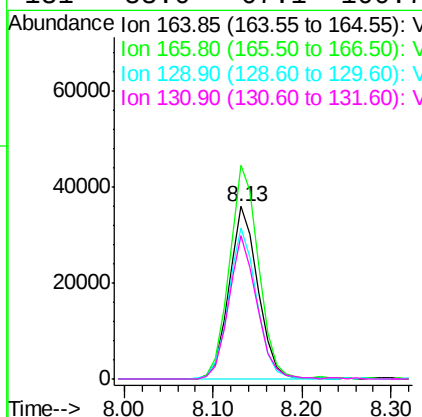
Manual Integrations
APPROVED

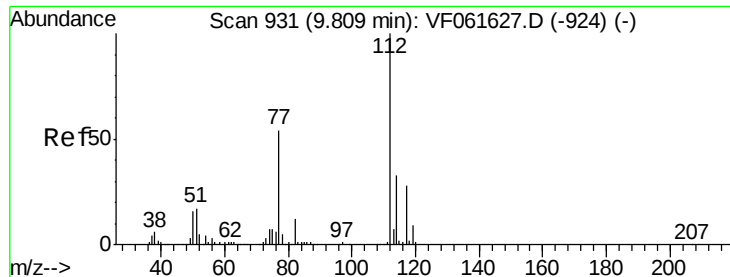
MMDadoda
2/27/2019 5:40:54 PM



#64
Tetrachloroethene
Concen: 22.568 ug/l
RT: 8.13 min Scan# 761
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	82156		
166	123.7		103.9	155.9
129	87.4		71.3	106.9
131	83.0		67.1	100.7





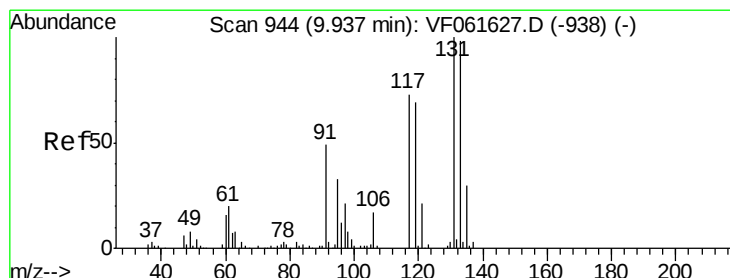
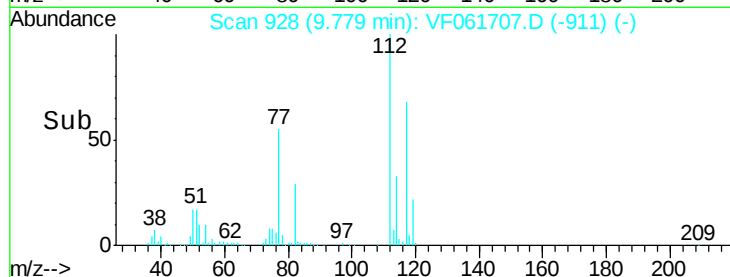
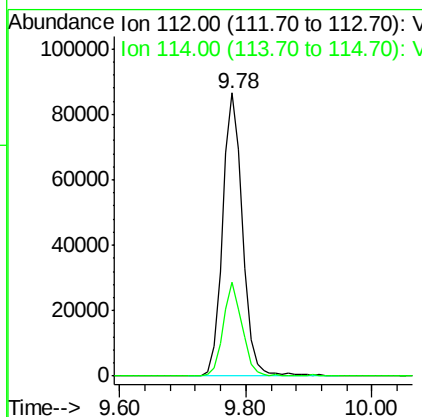
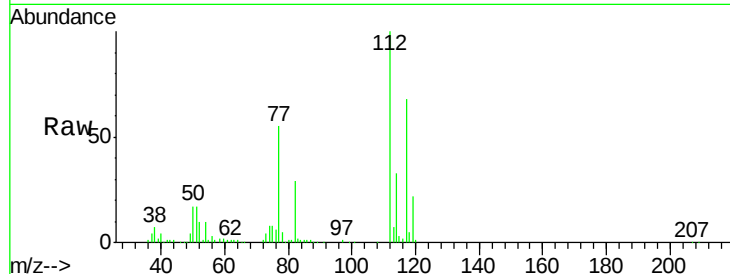
#65
Chlorobenzene
Concen: 21.098 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	190671		
114	33.1	26.2	39.2	

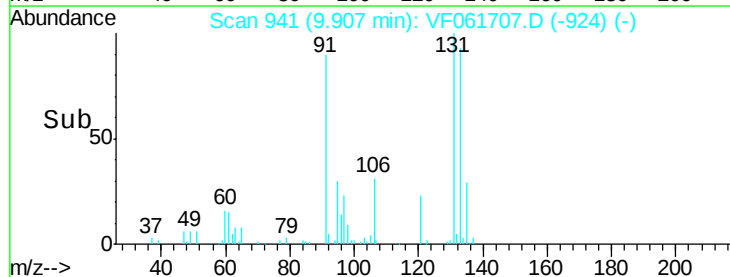
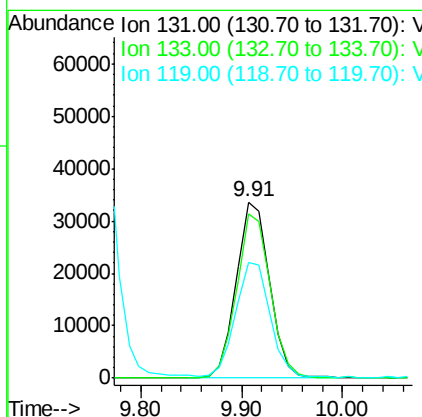
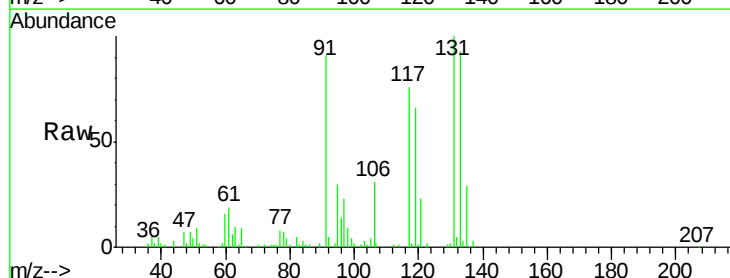
Manual Integrations
APPROVED

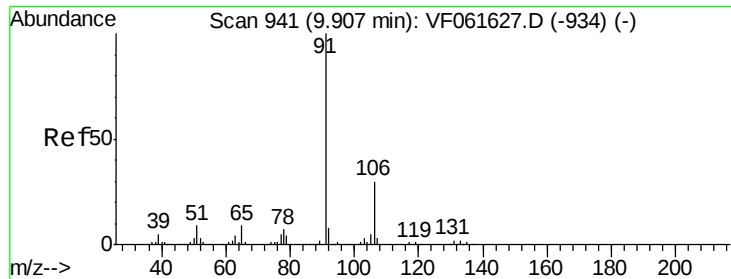
MMDadoda
2/27/2019 5:40:54 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.890 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	77520		
133	93.4	48.9	146.6	
119	65.8	34.8	104.3	





#67

Ethyl Benzene

Concen: 21.607 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion: 91 Resp: 324735

Ion Ratio Lower Upper

91 100

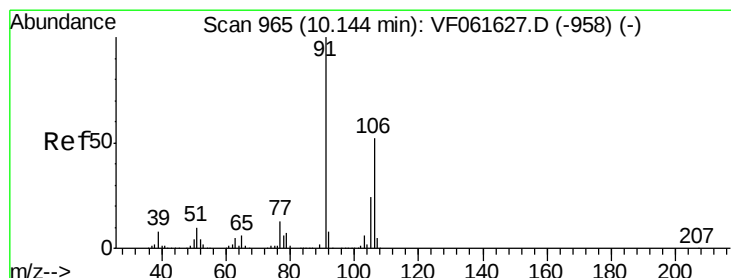
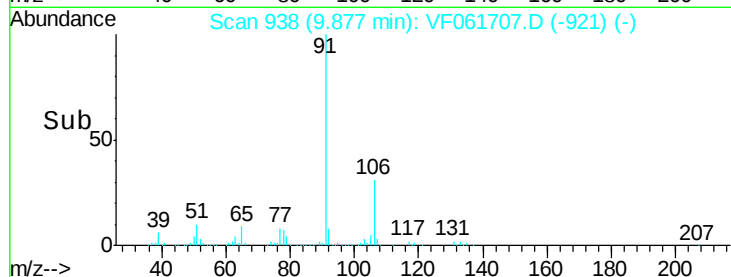
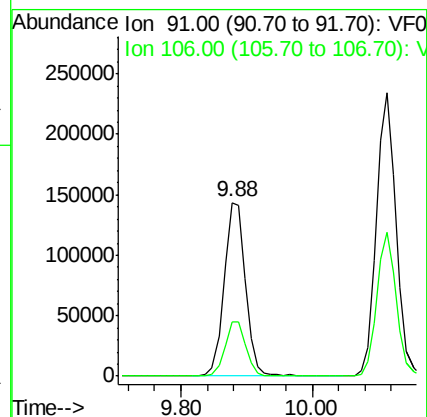
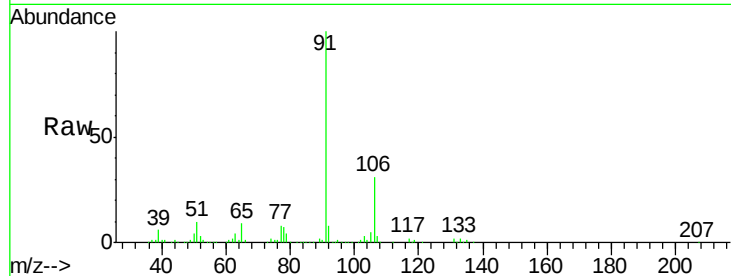
106 31.4 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

2/27/2019 5:40:54 PM



#68

m/p-Xylenes

Concen: 43.073 ug/l

RT: 10.11 min Scan# 962

Delta R.T. -0.03 min

Lab File: VF061707.D

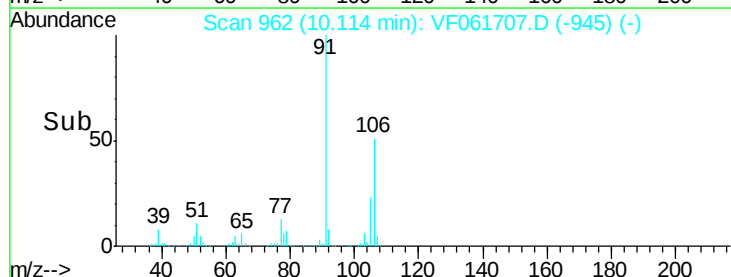
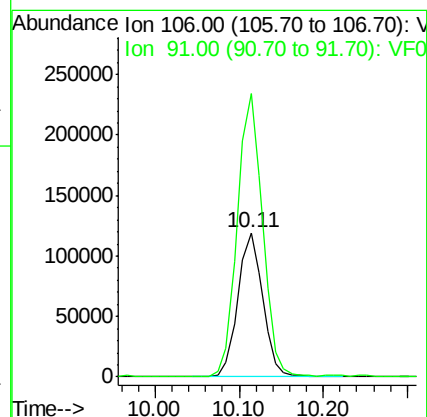
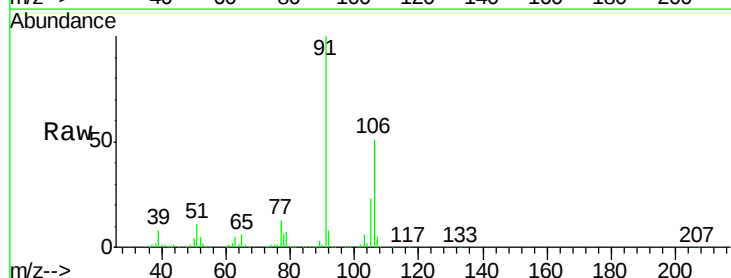
Acq: 22 Feb 2019 14:20

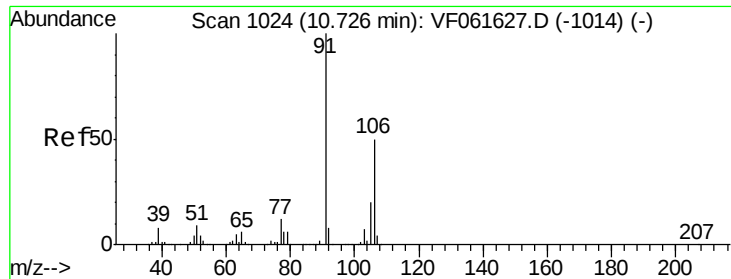
Tgt Ion: 106 Resp: 247752

Ion Ratio Lower Upper

106 100

91 196.0 153.0 229.6





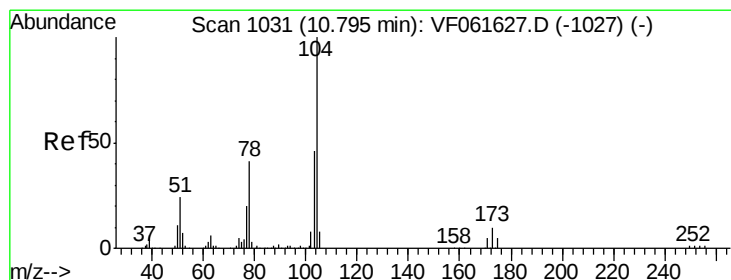
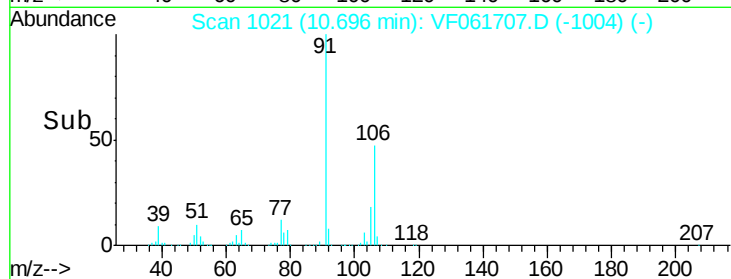
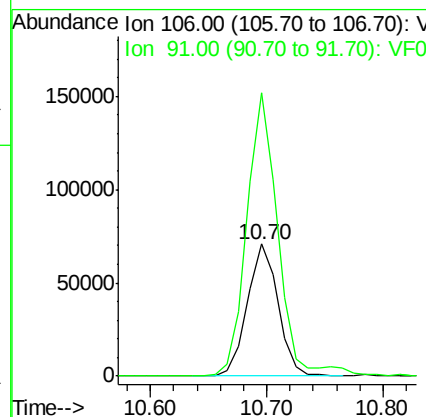
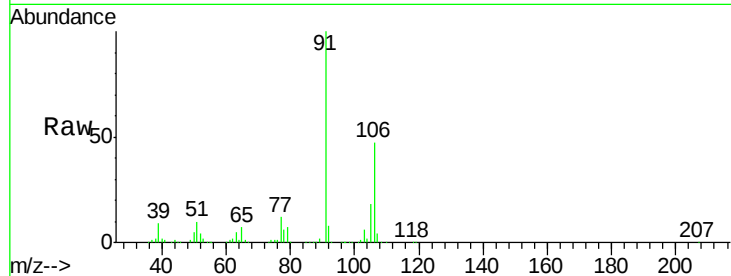
#69
o-Xylene
Concen: 21.156 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	214.3	100.1	300.1		

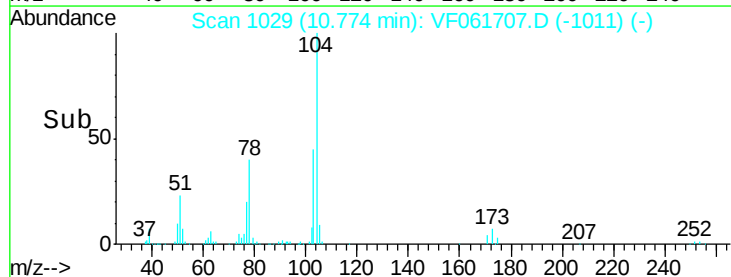
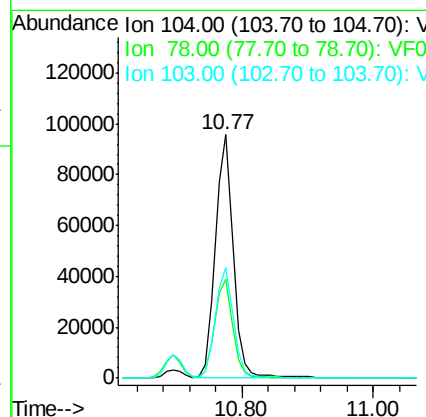
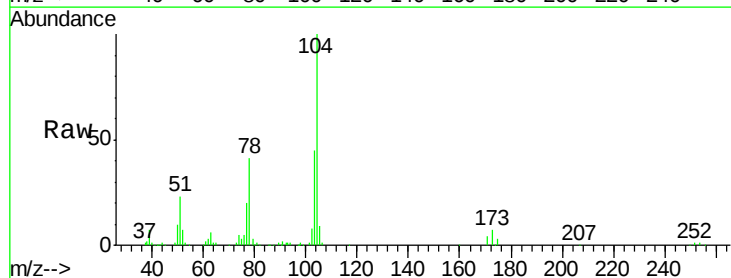
Manual Integrations
APPROVED

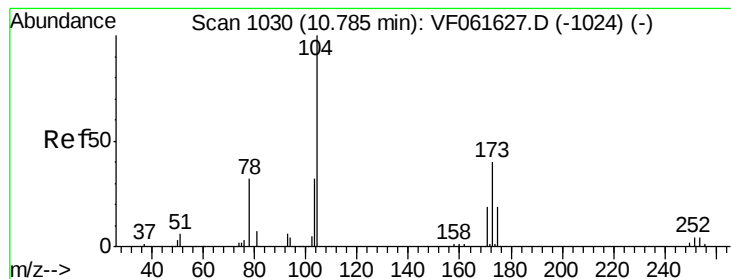
MMDadoda
2/27/2019 5:40:54 PM



#70
Styrene
Concen: 20.520 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	40.5	33.2	49.8		
103	45.4	37.2	55.8		





#71

Bromoform

Concen: 19.547 ug/l

RT: 10.75 min Scan# 1027

Delta R.T. -0.03 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion:173 Resp: 37590

Ion Ratio Lower Upper

173 100

175 50.3 24.0 72.0

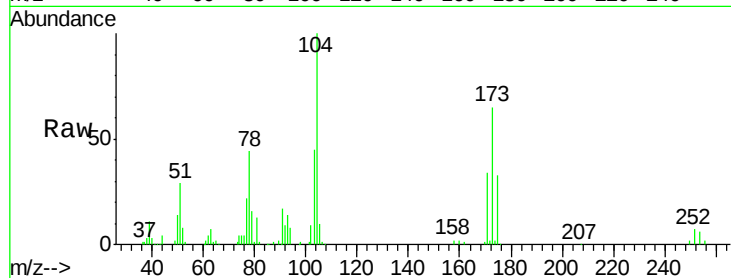
254 8.9 8.2 12.2

Manual Integrations

APPROVED

MMDadoda

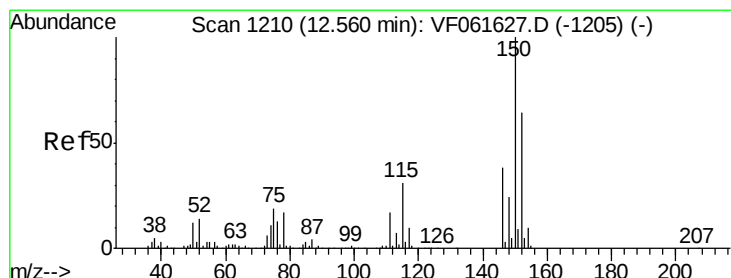
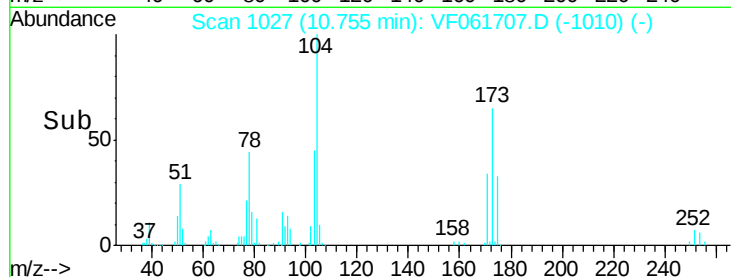
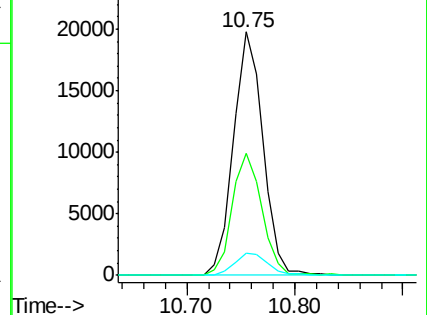
2/27/2019 5:40:54 PM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

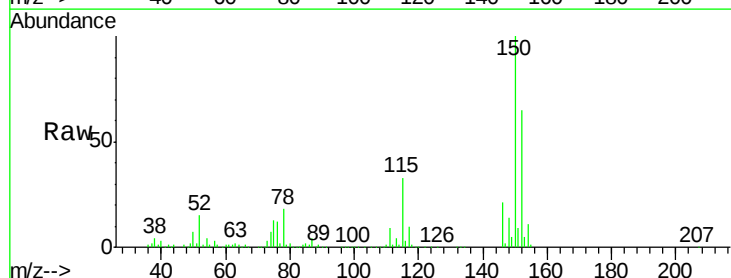
Tgt Ion:152 Resp: 246252

Ion Ratio Lower Upper

152 100

115 51.0 24.3 72.8

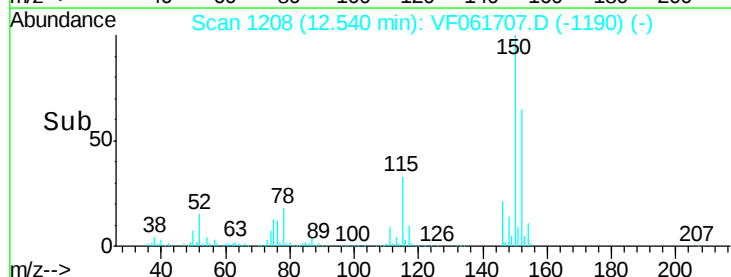
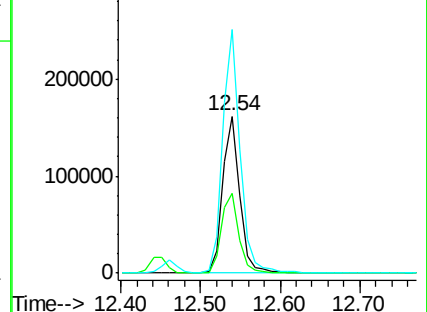
150 155.0 0.0 312.0

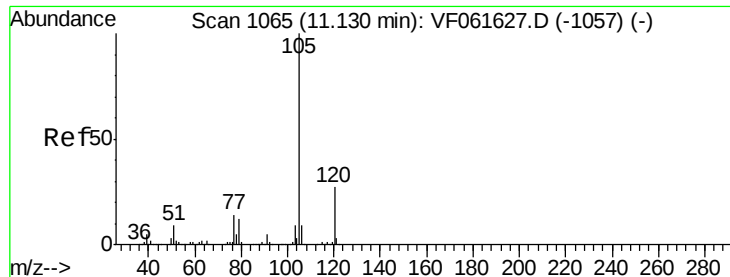


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.217 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion:105 Resp: 389518

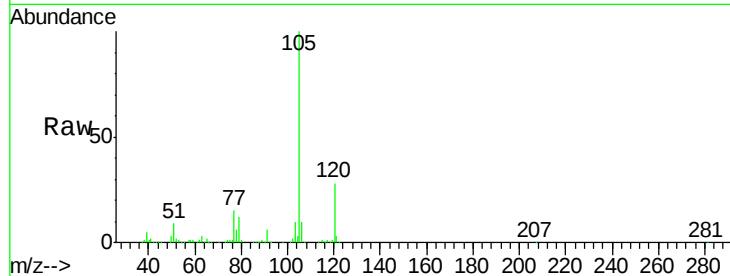
Ion Ratio Lower Upper

105 100

120 27.5 13.4 40.1

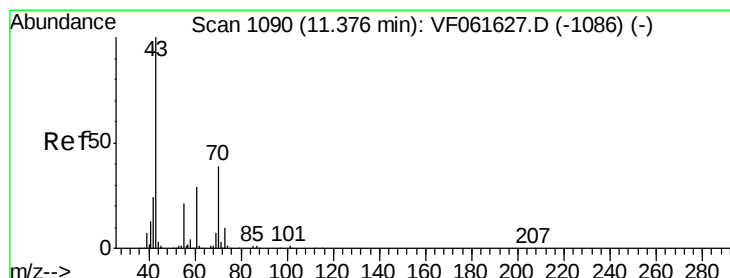
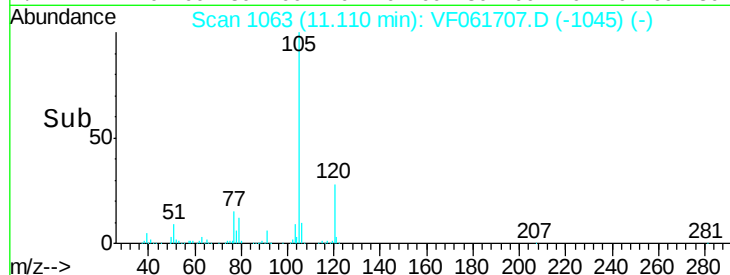
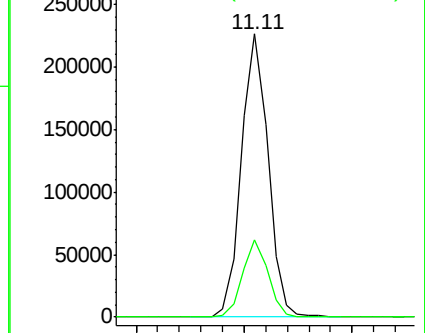
Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.727 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion: 43 Resp: 91433

Ion Ratio Lower Upper

43 100

70 36.0 31.5 47.3

55 22.1 16.7 25.1

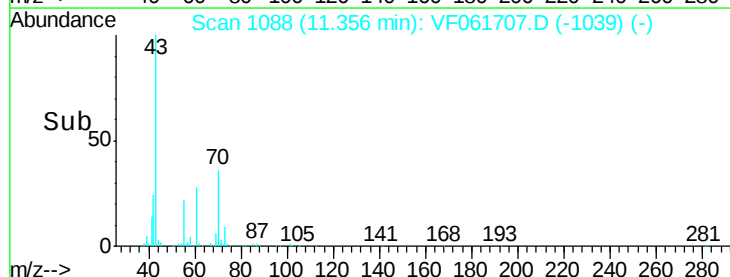
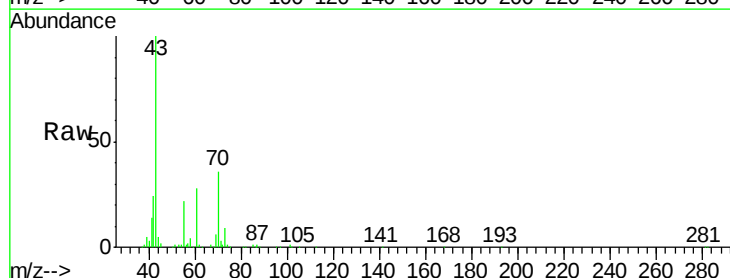
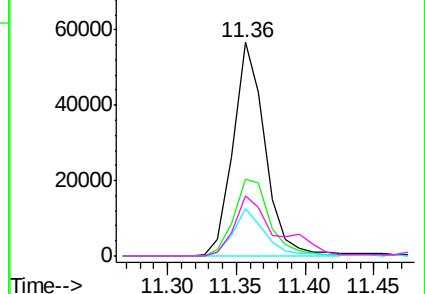
61 28.2 23.0 34.6

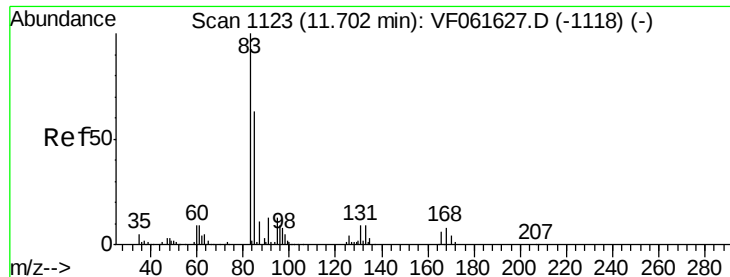
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.135 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

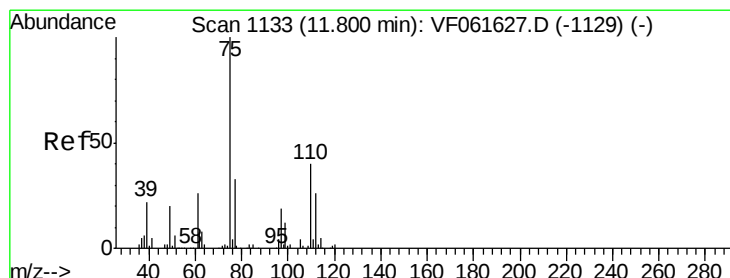
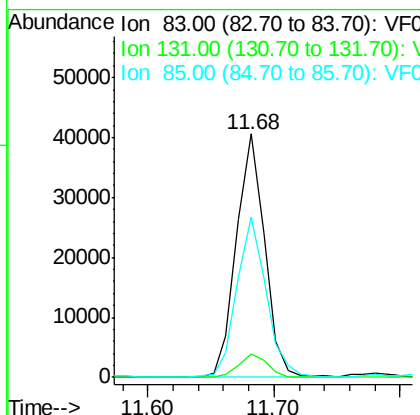
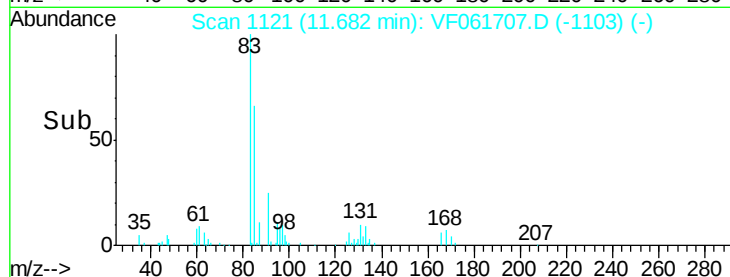
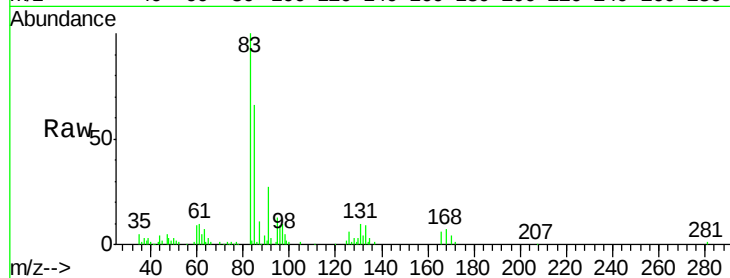
ClientSampleId :

VF0222SBS01

Tot Ion:	83	Resp:	63246
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.4	13.2
85	65.8	31.5	94.5

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#76

1,2,3-Trichloropropane

Concen: 20.428 ug/l

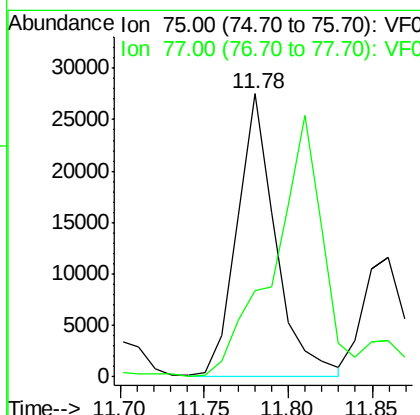
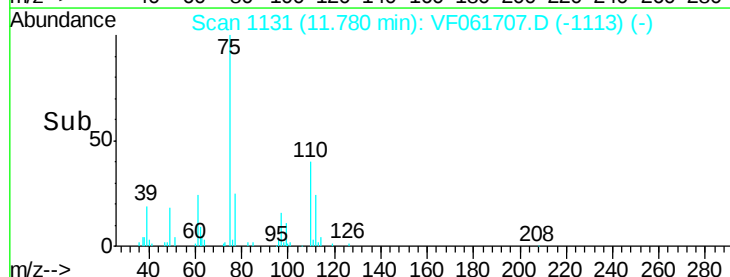
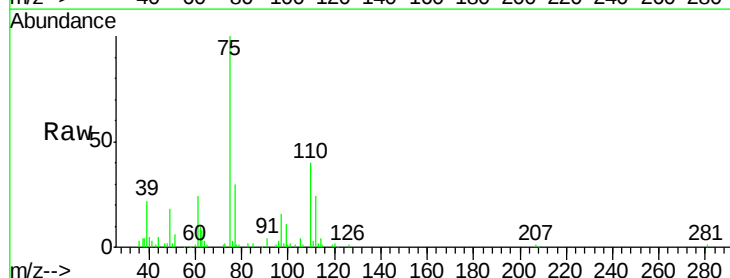
RT: 11.78 min Scan# 1131

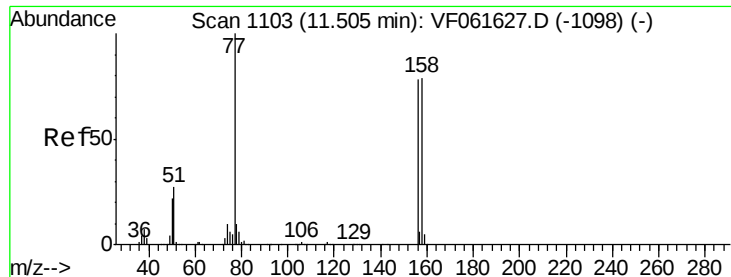
Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	75	Resp:	43625
Ion Ratio	Lower	Upper	
75	100		
77	30.3	16.6	49.7





#77

Bromobenzene

Concen: 21.921 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion:156 Resp: 94948

Ion Ratio Lower Upper

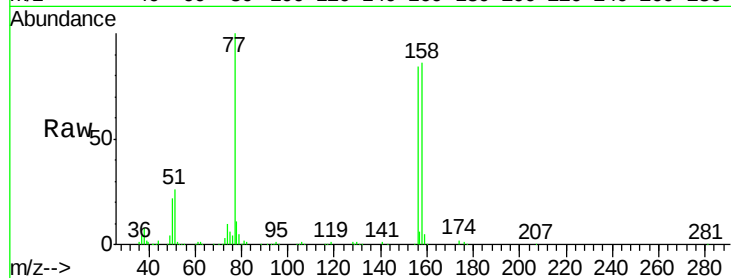
156 100

77 119.3 64.3 192.7

158 102.5 50.9 152.7

Manual Integrations
APPROVED

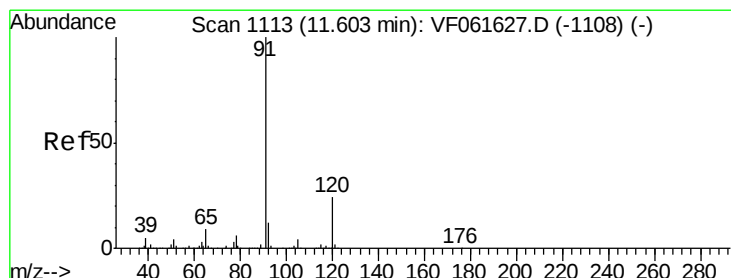
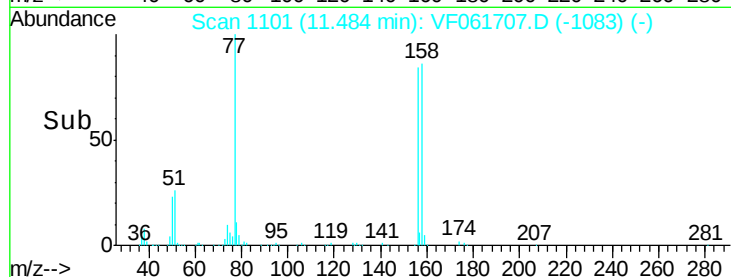
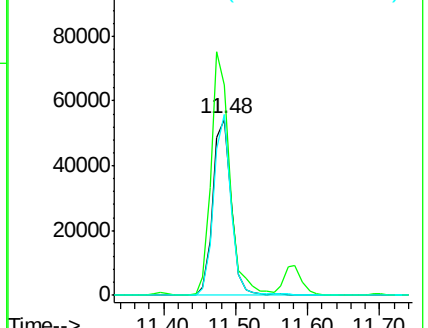
MMDadoda
2/27/2019 5:40:54 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 21.500 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF061707.D

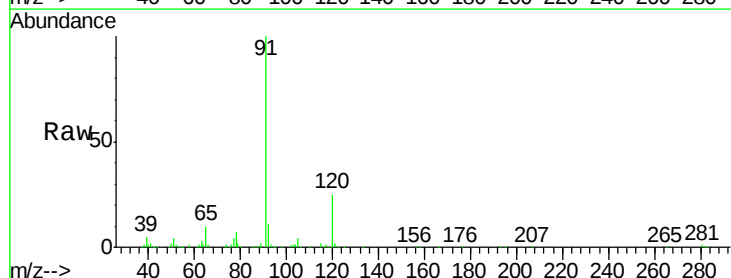
Acq: 22 Feb 2019 14:20

Tgt Ion: 91 Resp: 432562

Ion Ratio Lower Upper

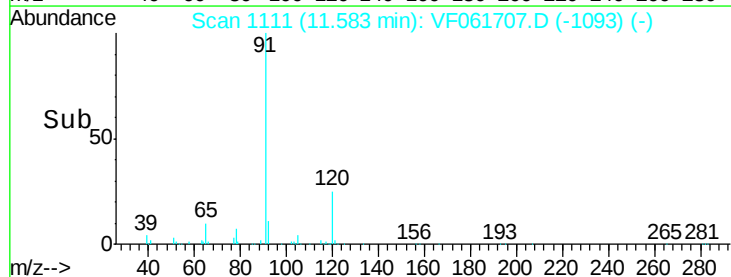
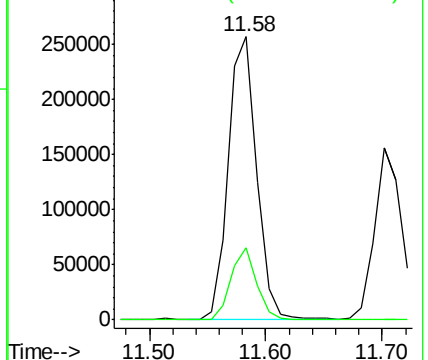
91 100

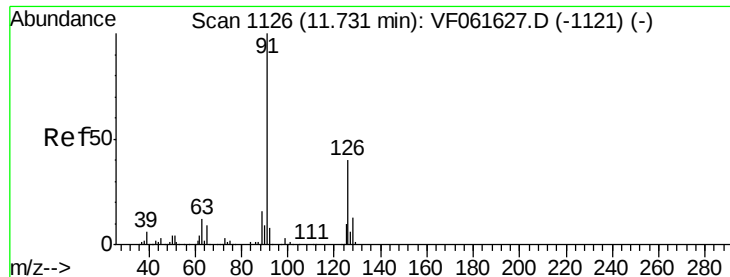
120 25.4 12.1 36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





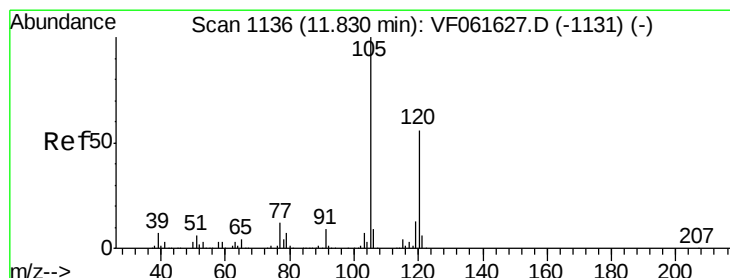
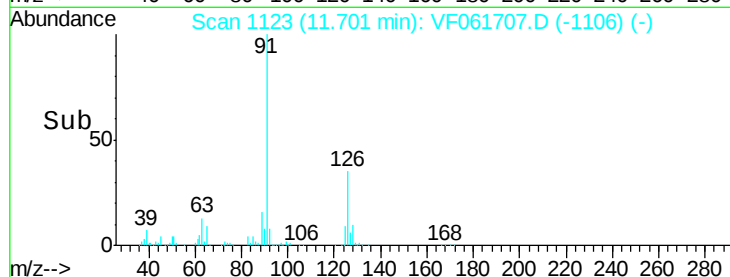
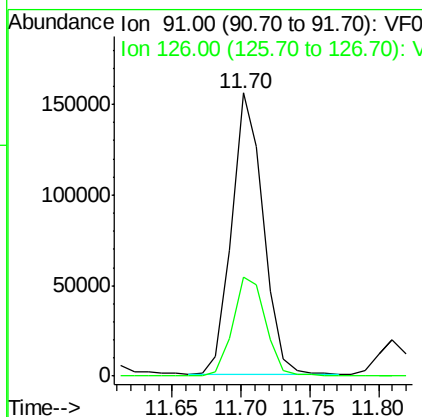
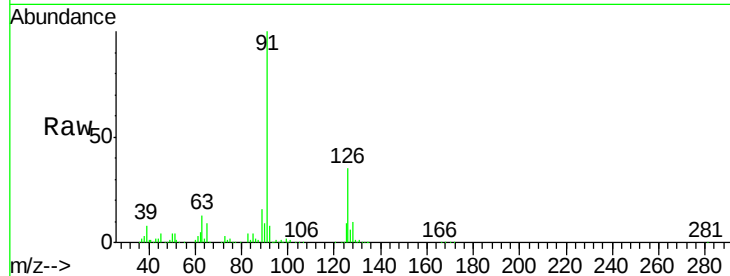
#79
2-Chlorotoluene
Concen: 21.960 ug/l
RT: 11.70 min Scan# 1123
Delta R.T. -0.03 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		247442		
126	35.2		19.8	59.4	

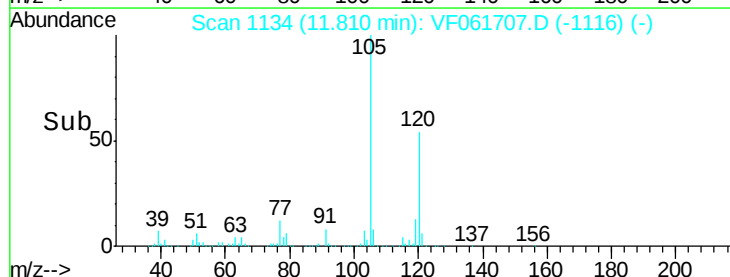
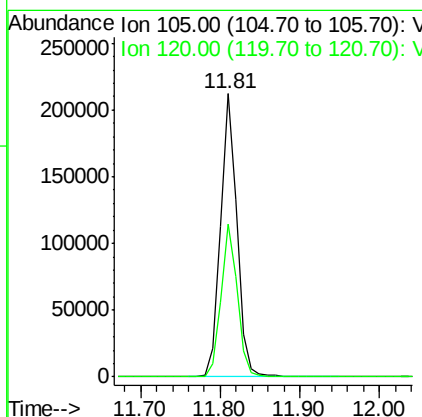
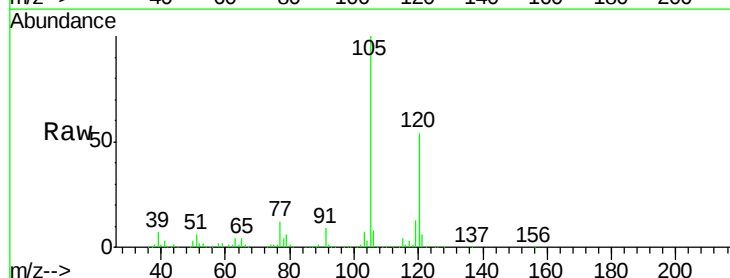
Manual Integrations
APPROVED

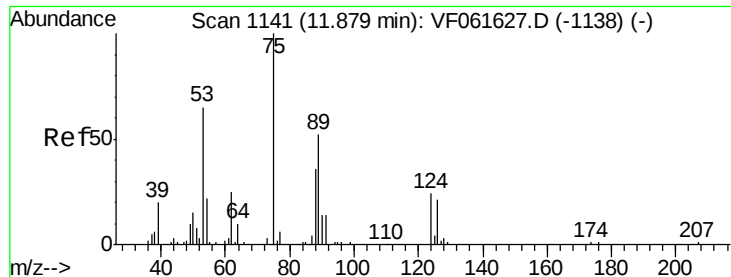
MMDadoda
2/27/2019 5:40:54 PM



#80
1,3,5-Trimethylbenzene
Concen: 22.105 ug/l
RT: 11.81 min Scan# 1134
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		309757		
120	53.9		27.9	83.6	





#81

trans-1,4-Dichloro-2-butene

Concen: 18.104 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

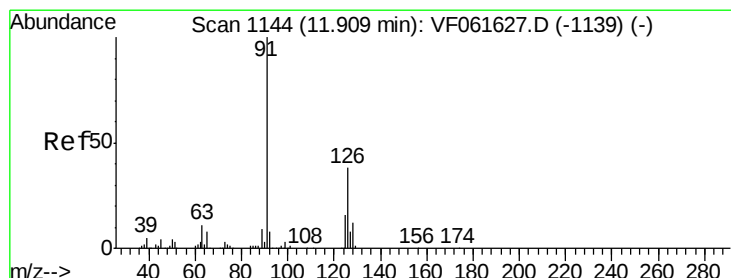
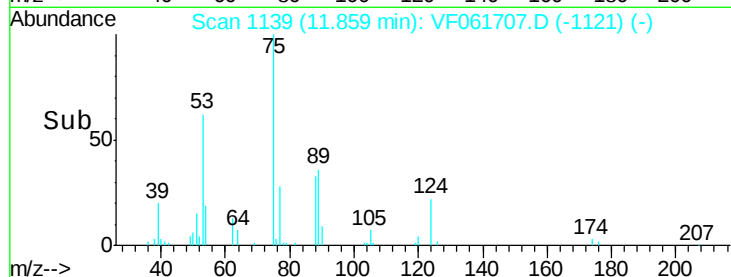
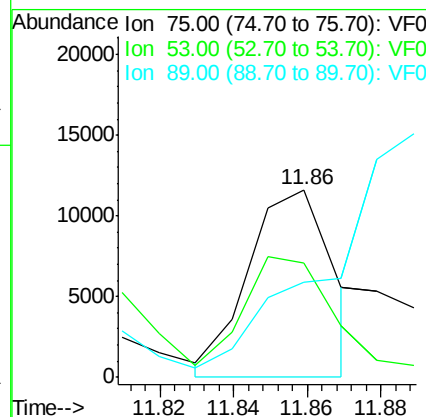
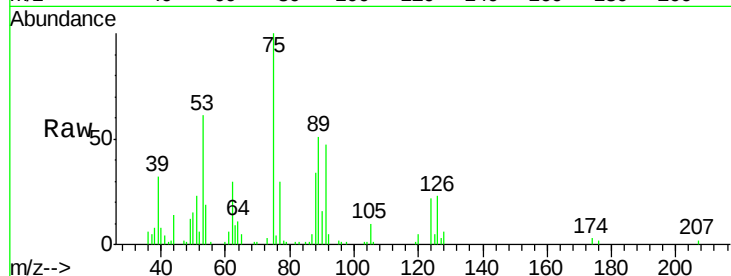
ClientSampleId :

VF0222SBSD01

Tot Ion:	75	Resp:	18535
Ion Ratio	Lower	Upper	
75	100		
53	60.9	53.7	80.5
89	50.8	41.6	62.4

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#82

4-Chlorotoluene

Concen: 21.005 ug/l

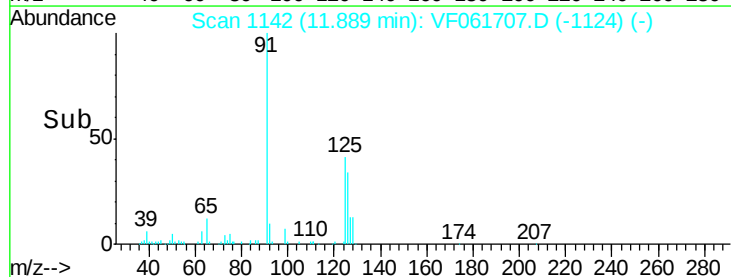
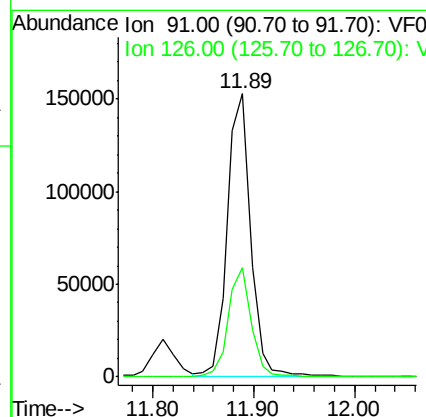
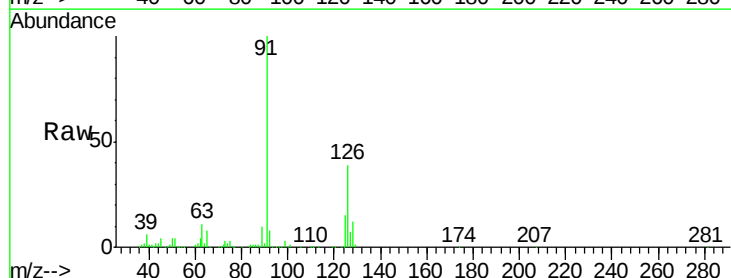
RT: 11.89 min Scan# 1142

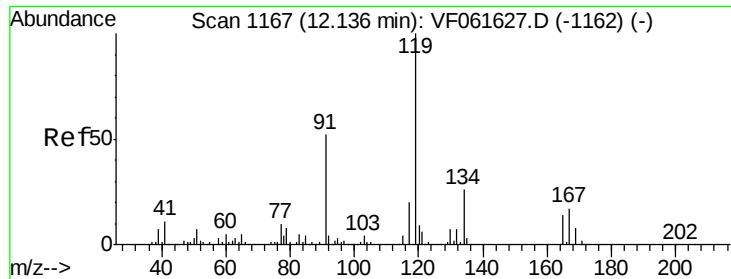
Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Tgt Ion:	91	Resp:	245664
Ion Ratio	Lower	Upper	
91	100		
126	38.8	19.1	57.1





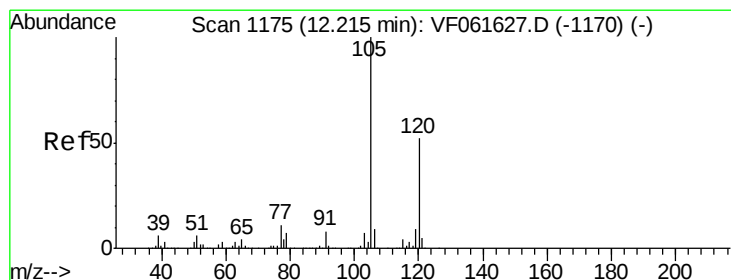
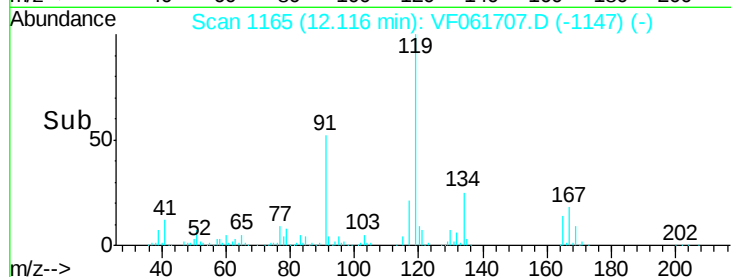
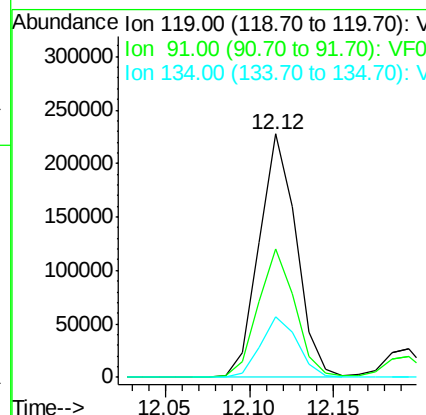
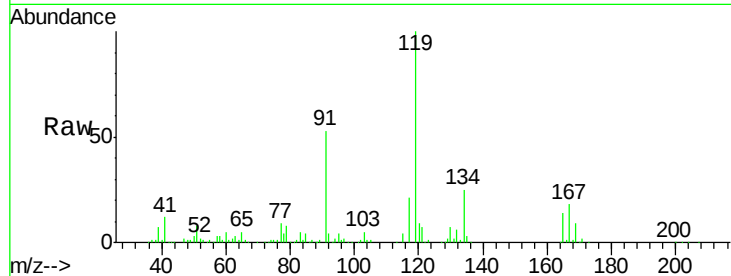
#83
tert-Butylbenzene
Concen: 22.487 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	349019		
91	52.9	26.3	78.8	
134	25.0	12.9	38.7	

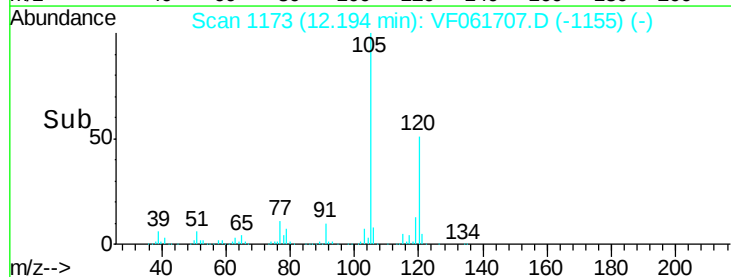
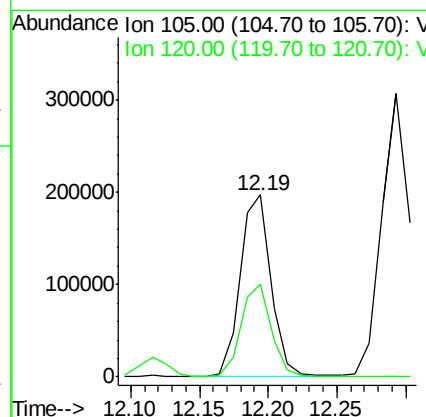
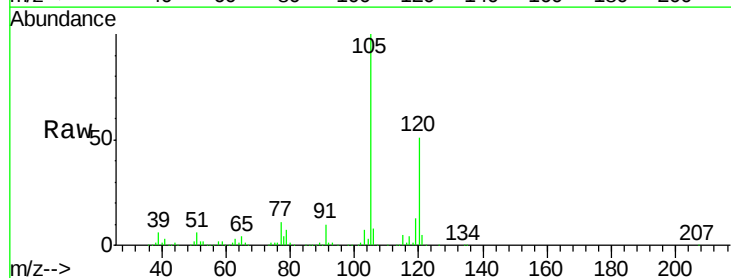
Manual Integrations
APPROVED

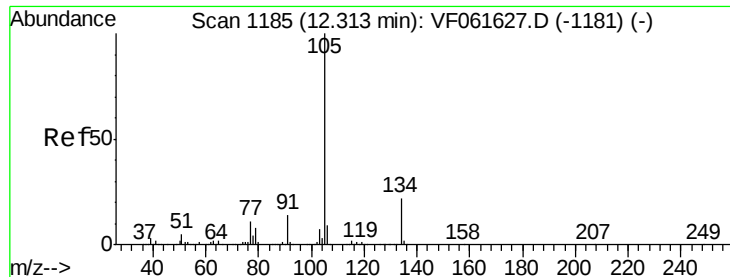
MMDadoda
2/27/2019 5:40:54 PM



#84
1,2,4-Trimethylbenzene
Concen: 22.229 ug/l
RT: 12.19 min Scan# 1173
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	309457		
120	51.3	26.1	78.3	





#85

sec-Butylbenzene

Concen: 22.050 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. -0.02 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

Instrument :

MSVOA_F

ClientSampleId :

VF0222SBS01

Tot Ion:105 Resp: 442558

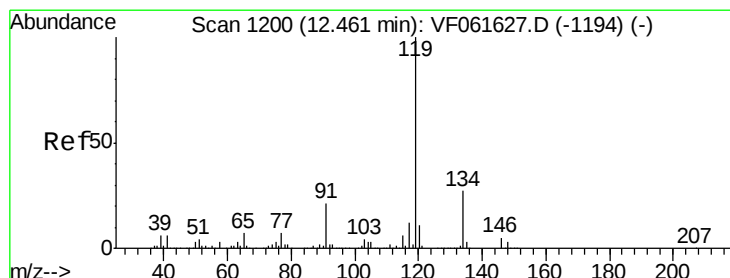
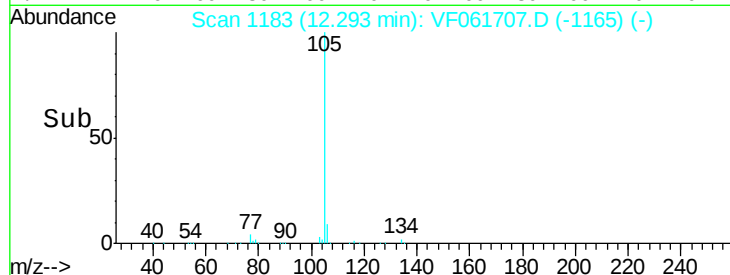
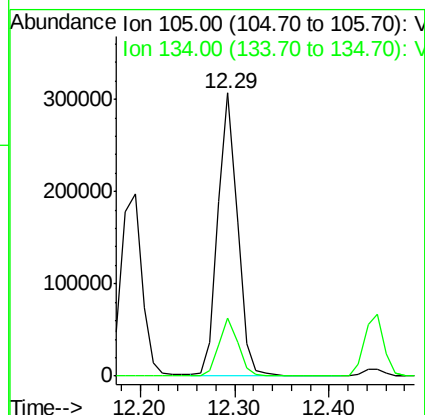
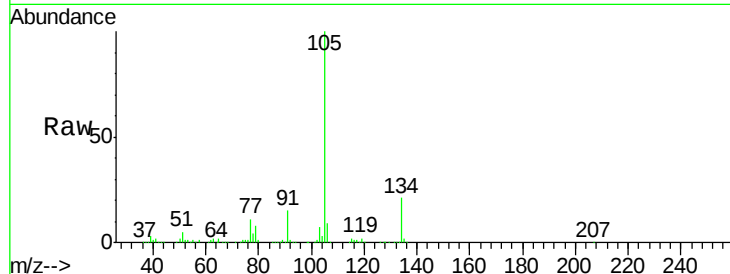
Ion Ratio Lower Upper

105 100

134 20.7 10.8 32.4

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#86

p-Isopropyltoluene

Concen: 22.096 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061707.D

Acq: 22 Feb 2019 14:20

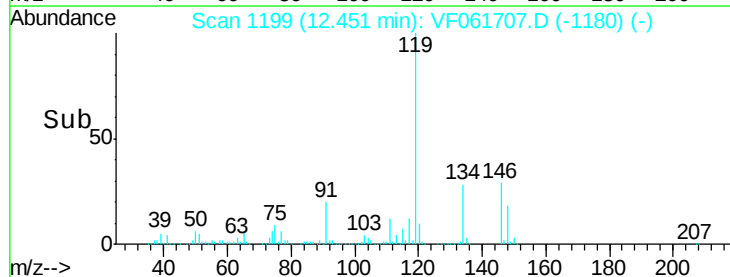
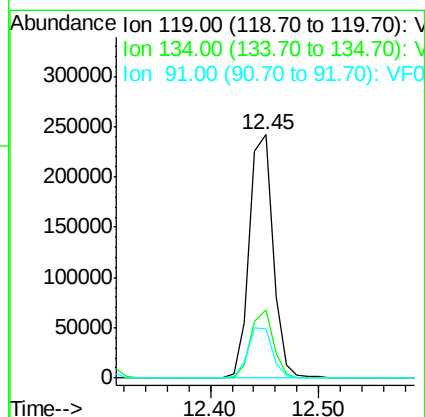
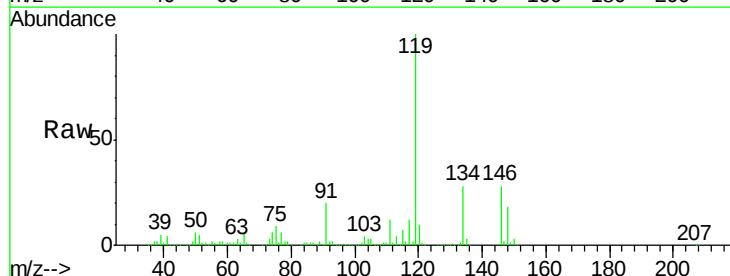
Tgt Ion:119 Resp: 372194

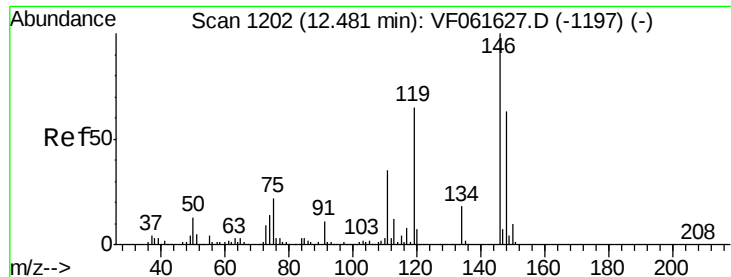
Ion Ratio Lower Upper

119 100

134 27.9 13.7 41.1

91 20.0 10.8 32.4





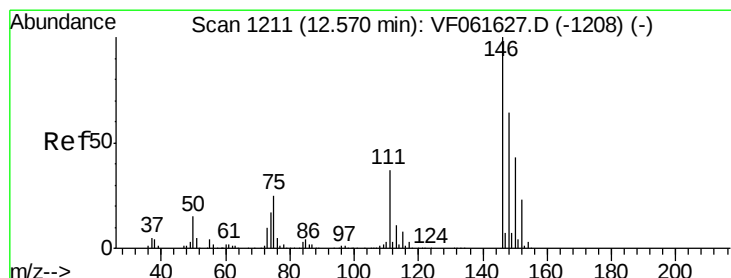
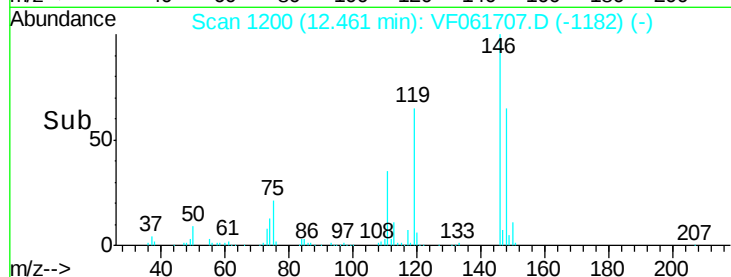
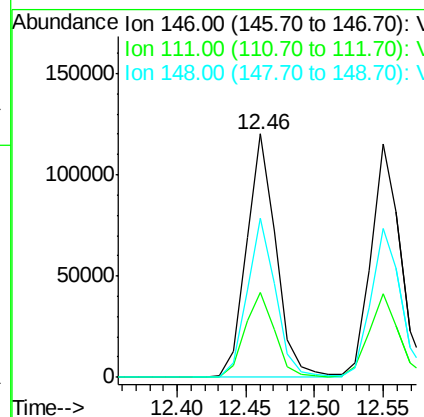
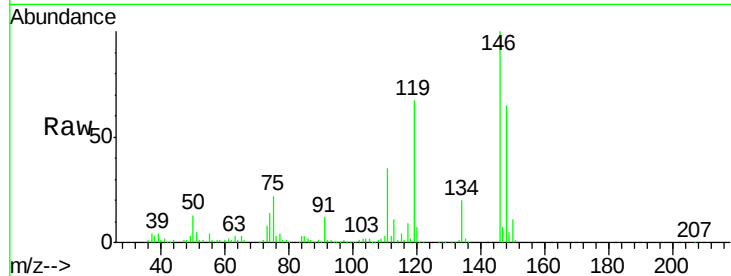
#87
 1,3-Dichlorobenzene
 Concen: 21.303 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.02 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0222SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	34.9	17.5	52.6
148	65.1	31.4	94.3

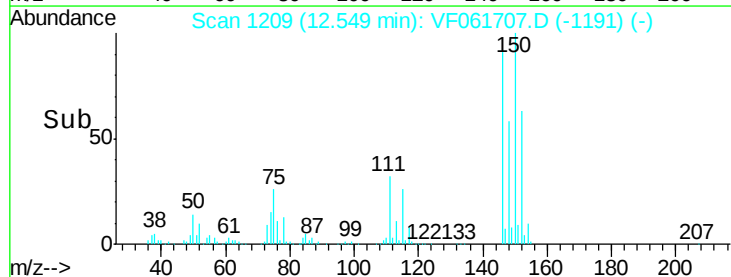
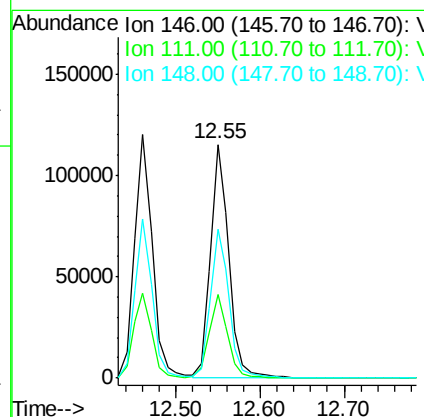
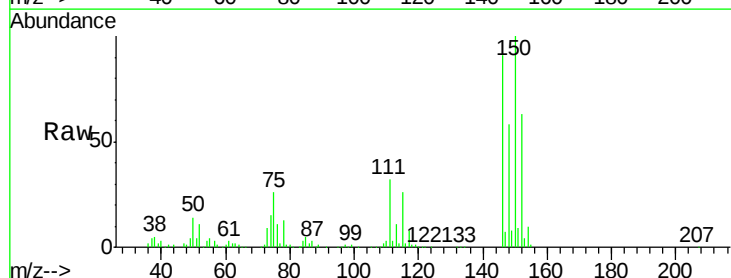
Manual Integrations
 APPROVED

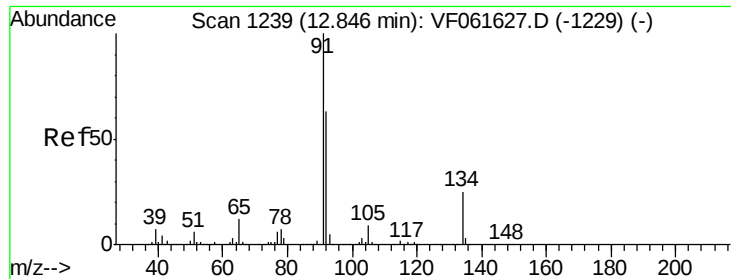
MMDadoda
 2/27/2019 5:40:54 PM



#88
 1,4-Dichlorobenzene
 Concen: 21.461 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.6	18.4	55.4
148	63.8	32.2	96.6





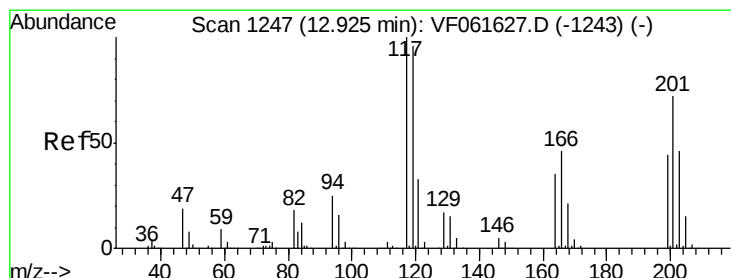
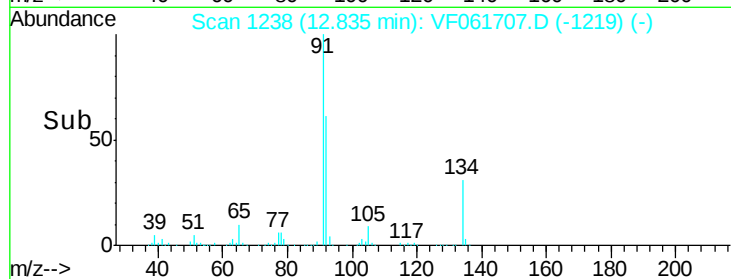
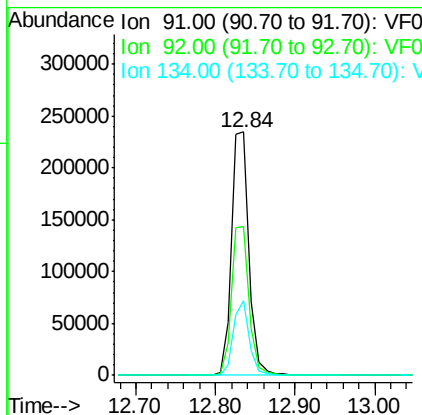
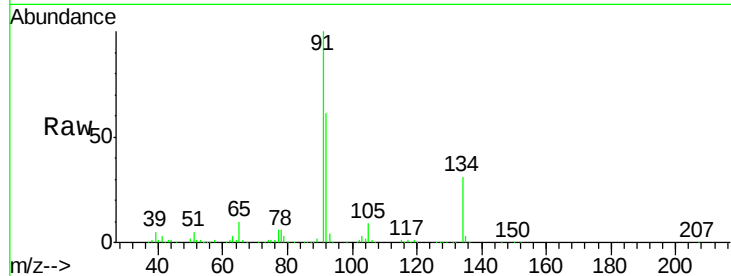
#89
n-Butylbenzene
Concen: 22.876 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.3	31.4	94.3
134	30.8	12.3	36.9

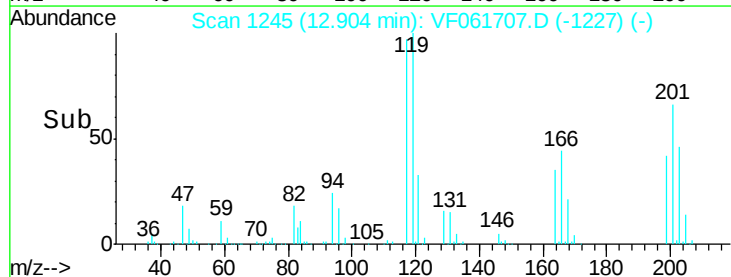
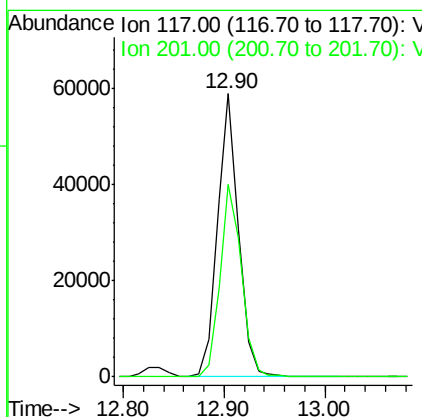
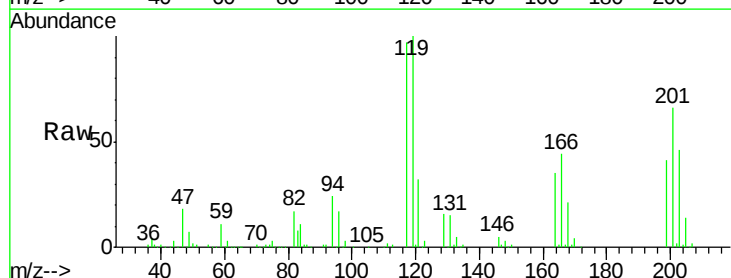
Manual Integrations
APPROVED

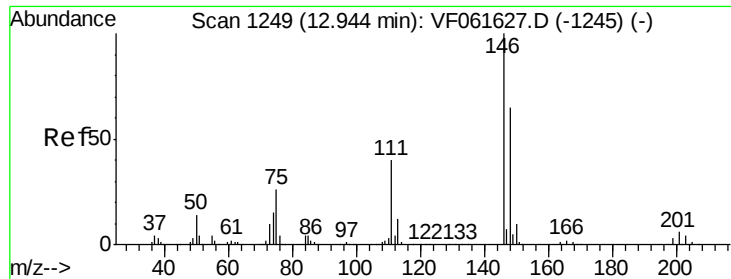
MMDadoda
2/27/2019 5:40:54 PM



#90
Hexachloroethane
Concen: 21.866 ug/l
RT: 12.90 min Scan# 1245
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.1	36.2	108.6





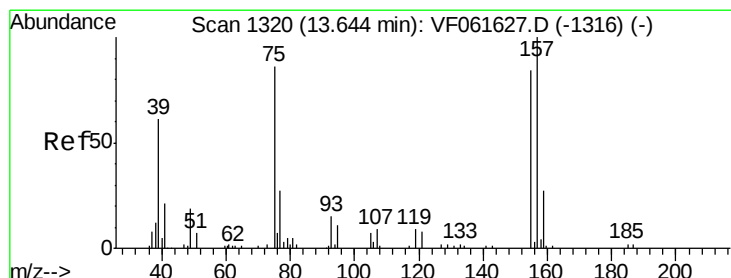
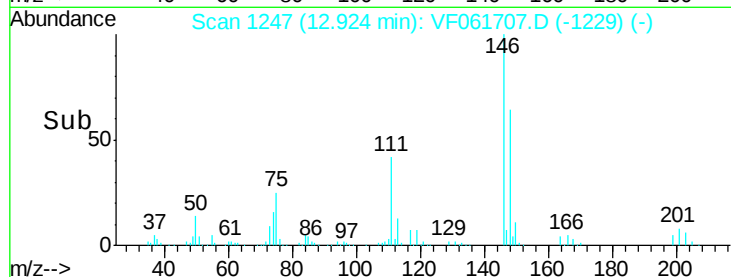
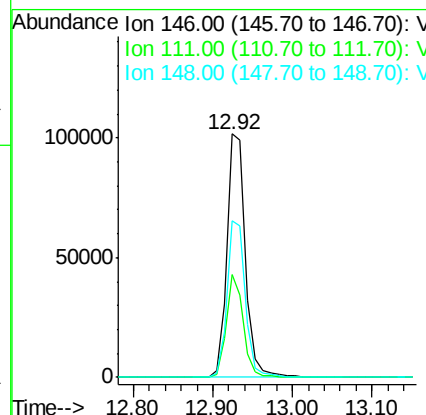
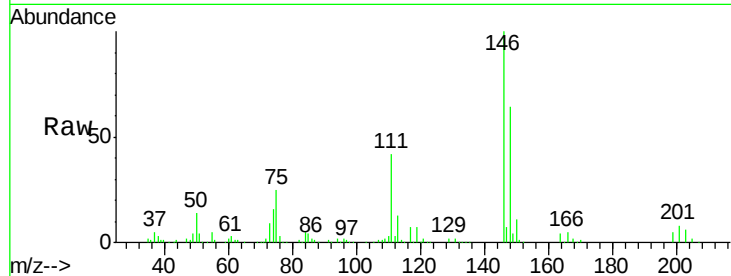
#91
 1,2-Dichlorobenzene
 Concen: 20.673 ug/l
 RT: 12.92 min Scan# 1247
 Delta R.T. -0.02 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0222SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	166041		
111	42.3	20.2	60.5	
148	64.1	32.3	96.9	

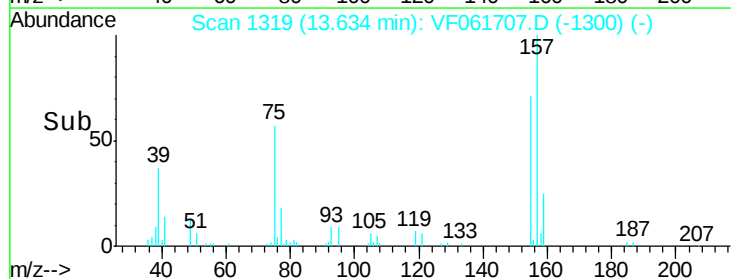
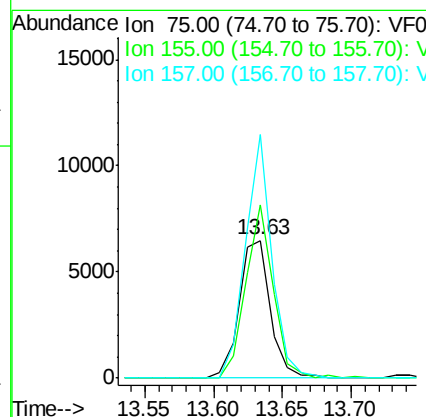
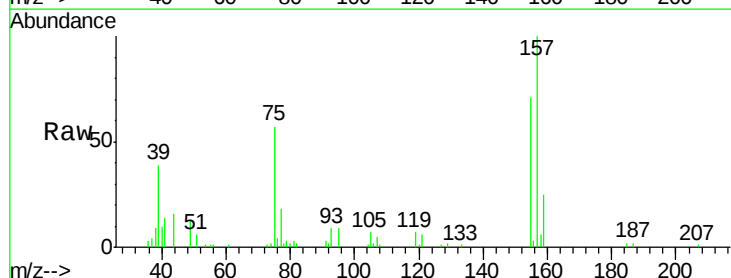
Manual Integrations
 APPROVED

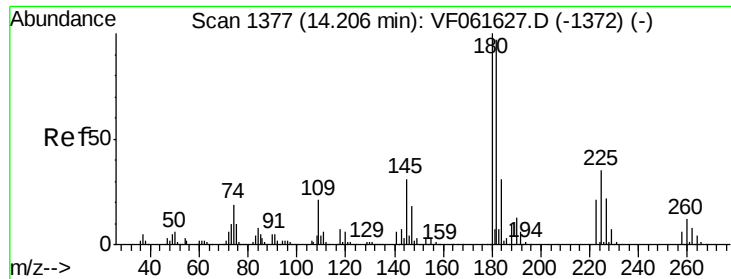
MMDadoda
 2/27/2019 5:40:54 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.472 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	10195		
155	125.7	48.9	146.8	
157	176.9	58.3	174.8	





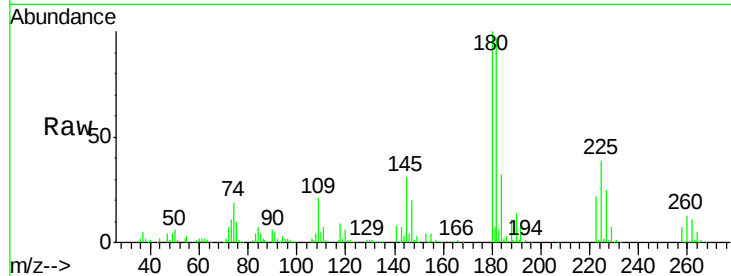
#93
 1,2,4-Trichlorobenzene
 Concen: 22.357 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0222SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	128708		
182	96.6	48.6	145.9	
145	30.7	15.3	45.9	

Manual Integrations
 APPROVED

MMDadoda
 2/27/2019 5:40:54 PM

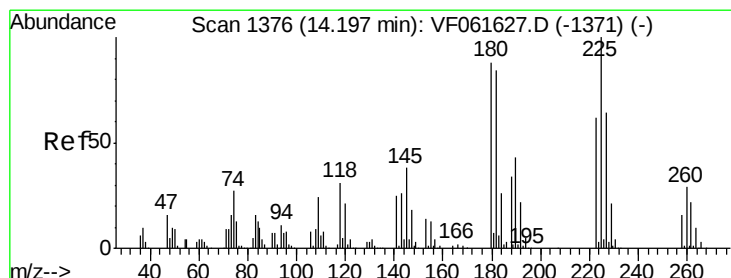
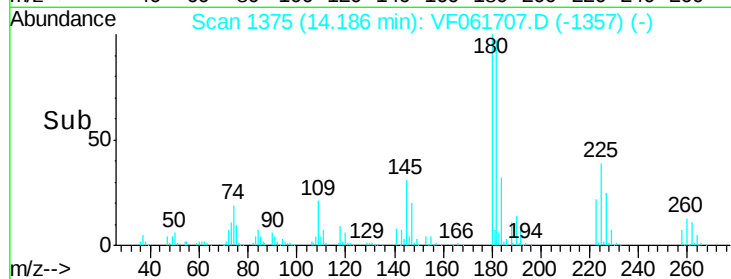
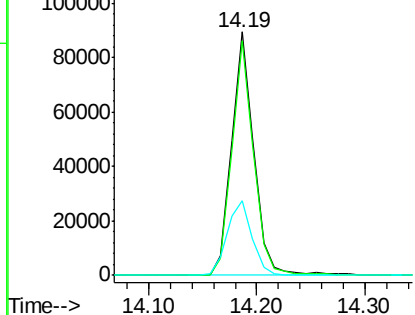


Abundance

Ion 180.00 (179.70 to 180.70): V

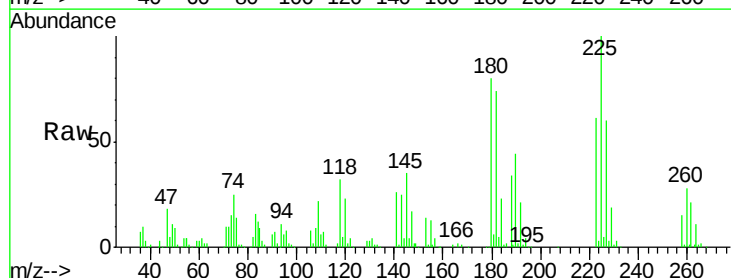
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#94
 Hexachlorobutadiene
 Concen: 23.073 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.02 min
 Lab File: VF061707.D
 Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	82033		
223	61.4	30.9	92.7	
227	59.6	32.1	96.3	

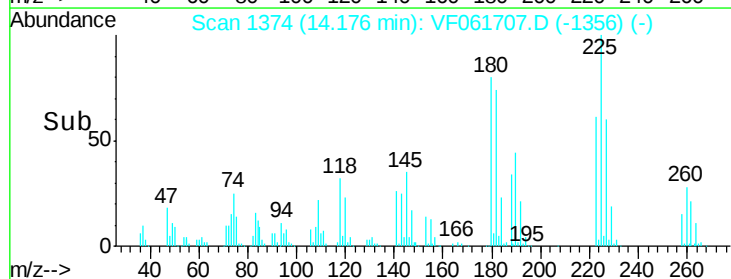
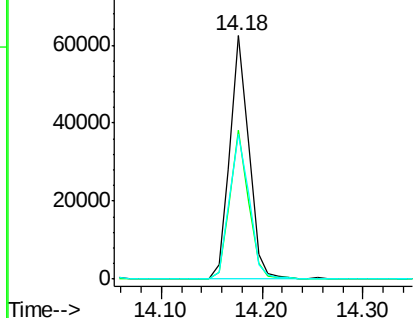


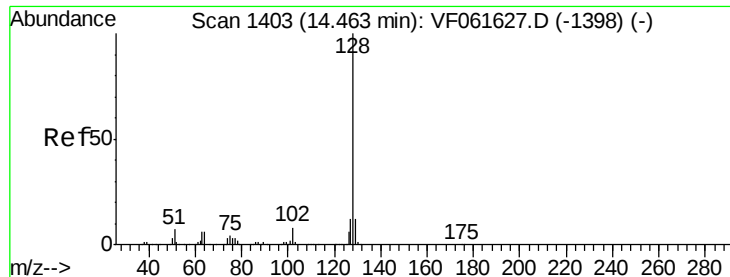
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





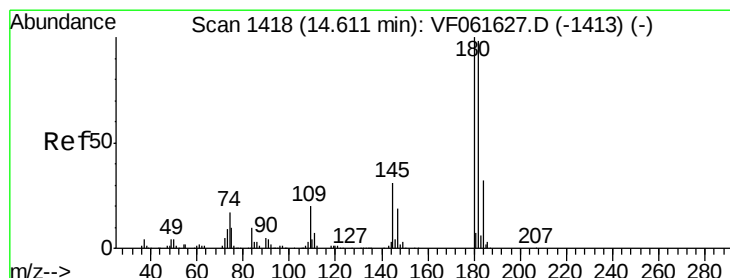
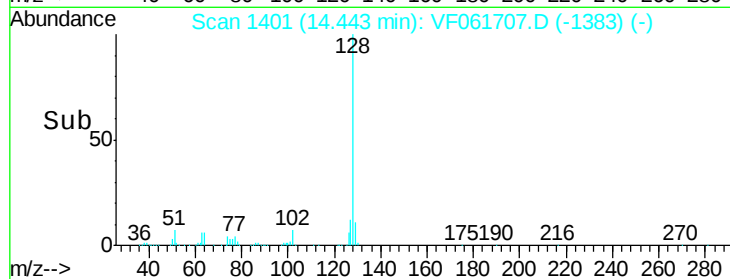
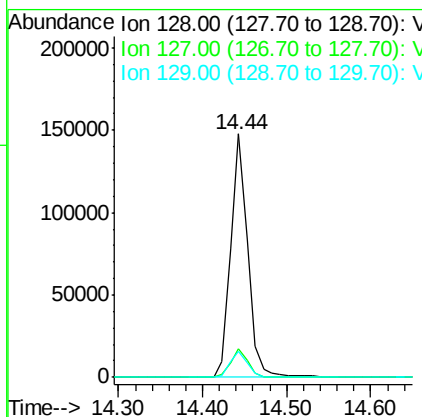
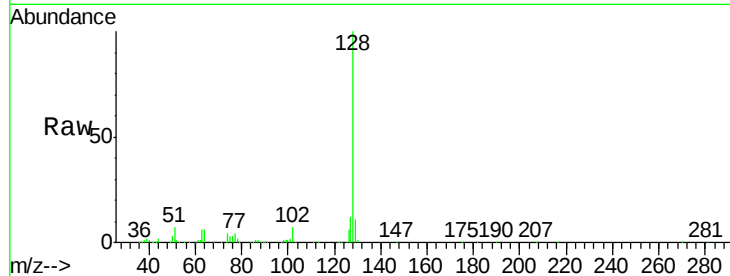
#95
Naphthalene
Concen: 20.744 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Instrument :
MSVOA_F
ClientSampleId :
VF0222SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	11.9	9.8	14.6	
129	10.6	9.4	14.2	

Manual Integrations
APPROVED

MMDadoda
2/27/2019 5:40:54 PM



#96
1,2,3-Trichlorobenzene
Concen: 21.747 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF061707.D
Acq: 22 Feb 2019 14:20

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	92.6	49.0	147.2	
145	31.9	15.4	46.1	

