

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011619\
 Data File : VF061413.D
 Acq On : 16 Jan 2019 15:35
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 1:23:40 PM

Quant Time: Jan 17 03:04:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	214450	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	368503	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	341324	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	161431	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	122446	46.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.50%	
35) Dibromofluoromethane	4.10	113	145654	50.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.18%	
50) Toluene-d8	7.55	98	434539	54.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.08%	
62) 4-Bromofluorobenzene	11.40	95	180089	48.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.76%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	199975	47.459	ug/l	93
3) Chloromethane	1.10	50	153632	49.726	ug/l	94
4) Vinyl Chloride	1.13	62	138227	50.295	ug/l	96
5) Bromomethane	1.31	94	92474	51.599	ug/l	98
6) Chloroethane	1.39	64	60834	49.954	ug/l	97
7) Trichlorofluoromethane	1.46	101	227383	42.558	ug/l	98
8) Diethyl Ether	1.63	74	33691	49.212	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.83	101	124199	48.378	ug/l	94
10) Methyl Iodide	1.89	142	206554m	51.898	ug/l	
11) Tert butyl alcohol	2.56	59	27640	246.630	ug/l	95
12) 1,1-Dichloroethene	1.79	96	99734	52.290	ug/l	90
13) Acrolein	1.99	56	26379	272.307	ug/l	99
14) Allyl chloride	2.09	41	160086	73.360	ug/l	93
15) Acrylonitrile	2.94	53	71392	248.693	ug/l	95
16) Acetone	2.23	43	143636	270.424	ug/l	98
17) Carbon Disulfide	1.81	76	313968	52.793	ug/l	97
18) Methyl Acetate	2.34	43	52051	49.414	ug/l	98
19) Methyl tert-butyl Ether	2.43	73	192070	44.922	ug/l	98
20) Methylene Chloride	2.18	84	94255m	52.359	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	98247	46.818	ug/l	95
22) Diisopropyl ether	2.79	45	337458	49.718	ug/l	99
23) Vinyl Acetate	3.18	43	843311	282.058	ug/l	99
24) 1,1-Dichloroethane	2.86	63	204895	48.098	ug/l	100
25) 2-Butanone	4.32	43	231919	262.565	ug/l	97
26) 2,2-Dichloropropane	3.59	77	113107	43.215	ug/l	98
27) cis-1,2-Dichloroethene	3.46	96	152169	49.123	ug/l	93
28) Bromochloromethane	3.71	49	88811	46.379	ug/l #	93
29) Tetrahydrofuran	4.06	42	96956	254.922	ug/l	96
30) Chloroform	3.85	83	271460	47.217	ug/l	98
31) Cyclohexane	3.69	56	210296m	49.419	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	198797	47.159	ug/l	98
36) 1,1-Dichloropropene	4.27	75	216028	50.561	ug/l	98
37) Ethyl Acetate	4.09	43	87150	51.028	ug/l	100
38) Carbon Tetrachloride	3.98	117	170113	45.542	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	232064	50.119	ug/l	98
40) Benzene	4.63	78	485957	51.114	ug/l	99
41) Methacrylonitrile	4.73	41	48658	53.542	ug/l	94
42) 1,2-Dichloroethane	4.93	62	161912	47.792	ug/l	99
43) Isopropyl Acetate	6.95	43	114674	53.498	ug/l	93
44) Trichloroethene	5.49	130	140948	48.328	ug/l	96
45) 1,2-Dichloropropane	6.22	63	127190	50.973	ug/l	98
46) Dibromomethane	6.08	93	82629	49.802	ug/l	94
47) Bromodichloromethane	6.37	83	206444	50.290	ug/l	98
48) Methyl methacrylate	6.71	41	80504	55.929	ug/l	91
49) 1,4-Dioxane	6.70	88	11250	1128.605	ug/l	90
51) 4-Methyl-2-Pentanone	8.25	43	397438	252.208	ug/l	97
52) Toluene	7.62	92	317441	50.702	ug/l	97
53) t-1,3-Dichloropropene	8.27	75	167603	51.417	ug/l	98
54) cis-1,3-Dichloropropene	7.29	75	208612	51.199	ug/l	99
55) 1,1,2-Trichloroethane	8.48	97	95610	53.777	ug/l	97
56) Ethyl methacrylate	8.61	69	106676	51.572	ug/l	99
57) 1,3-Dichloropropane	8.85	76	165308	49.605	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.29	63	59836	273.016	ug/l	100
59) 2-Hexanone	9.48	43	298605	271.740	ug/l	100
60) Dibromochloromethane	8.71	129	129989	50.011	ug/l	99
61) 1,2-Dibromoethane	8.98	107	100965	49.606	ug/l	92
64) Tetrachloroethene	8.15	164	127396	49.632	ug/l	95
65) Chlorobenzene	9.79	112	349712	50.383	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.92	131	132886	48.059	ug/l	100
67) Ethyl Benzene	9.89	91	620038	48.893	ug/l	98
68) m/p-Xylenes	10.12	106	442787	97.077	ug/l	99
69) o-Xylene	10.70	106	255293	51.642	ug/l	92
70) Styrene	10.78	104	326281	48.218	ug/l	98
71) Bromoform	10.76	173	65571	52.779	ug/l #	97
73) Isopropylbenzene	11.12	105	679576	51.760	ug/l	99
74) N-amyl acetate	11.36	43	177202	57.076	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	119074	50.908	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	84125	50.055	ug/l	99
77) Bromobenzene	11.49	156	149346	53.861	ug/l	99
78) n-propylbenzene	11.59	91	771393	48.001	ug/l	97
79) 2-Chlorotoluene	11.71	91	446928	49.061	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	550404	51.946	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	42268m	57.854	ug/l	
82) 4-Chlorotoluene	11.90	91	463787	50.452	ug/l	95
83) tert-Butylbenzene	12.12	119	569405	51.921	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	544884	49.925	ug/l	99
85) sec-Butylbenzene	12.30	105	778946	52.302	ug/l	100
86) p-Isopropyltoluene	12.46	119	617916	50.542	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	266940	48.243	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	268196	51.185	ug/l	99
89) n-Butylbenzene	12.83	91	641834	50.905	ug/l	97
90) Hexachloroethane	12.91	117	153483	53.257	ug/l	98
91) 1,2-Dichlorobenzene	12.93	146	255105	49.181	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	22346	53.864	ug/l	94

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	186439	51.309	ug/l	99
94) Hexachlorobutadiene	14.19	225	120263	53.337	ug/l	98
95) Naphthalene	14.45	128	367488	53.231	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	174923	52.003	ug/l	97

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

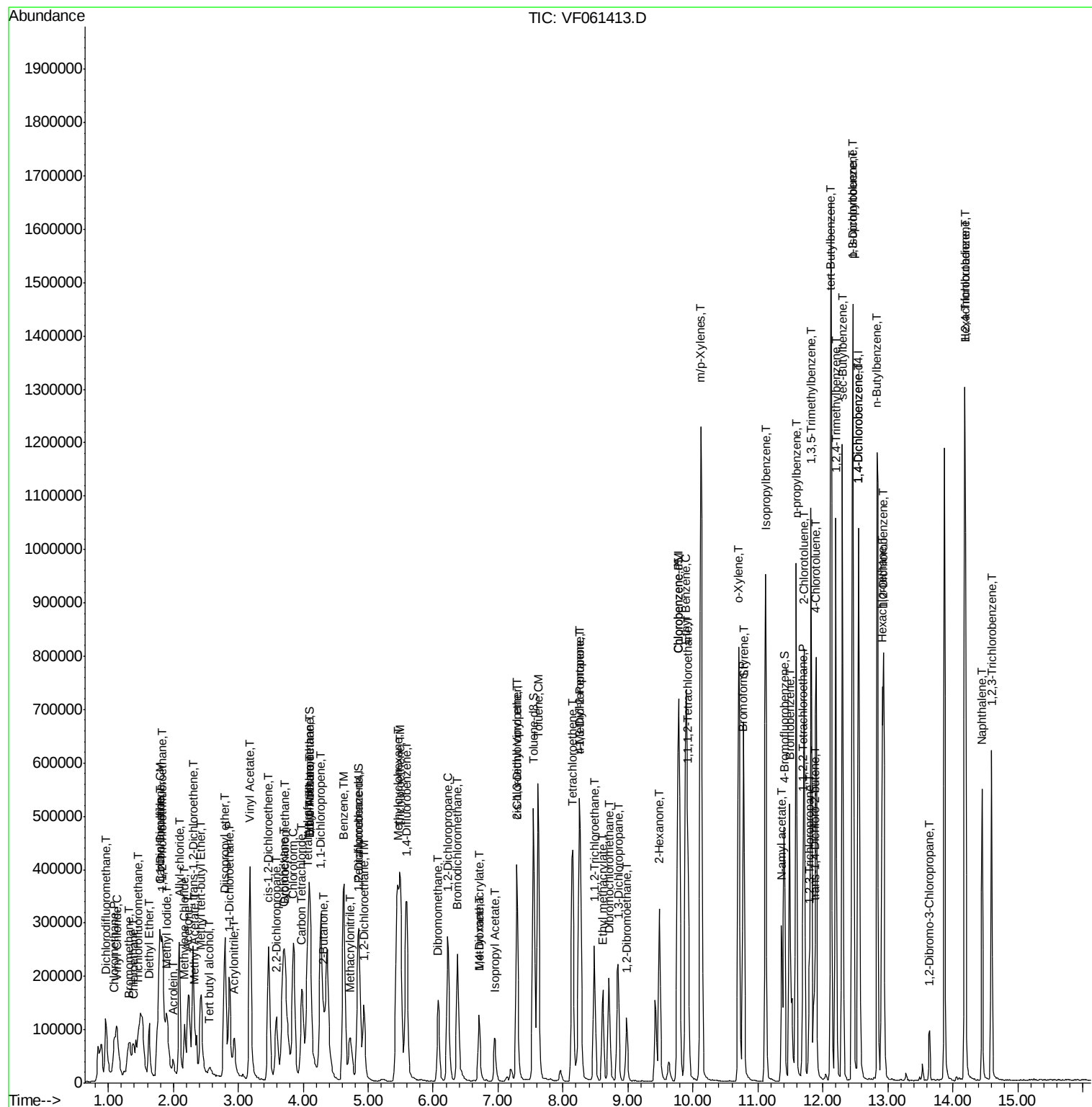
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Data File : VF061413.D
Acq On : 16 Jan 2019 15:35
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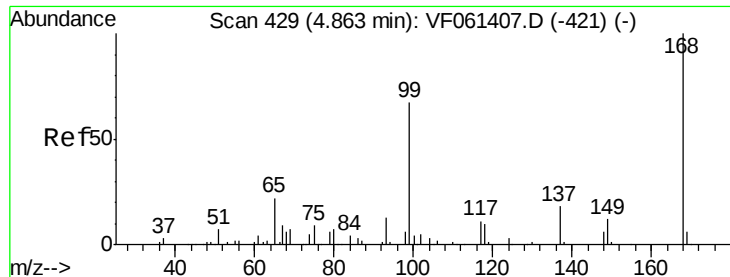
Instrument :
MSVOA_F
Client Sample Id :
VSTDCCC050

Manual Integrations
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MMDadoda
1/17/2019 1:23:40 PM

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 214450

Ion Ratio Lower Upper

168 100

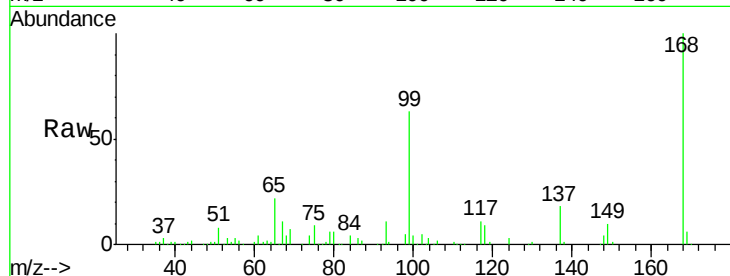
99 62.7 53.5 80.3

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

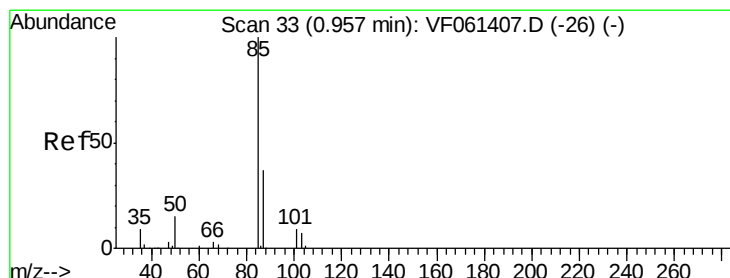
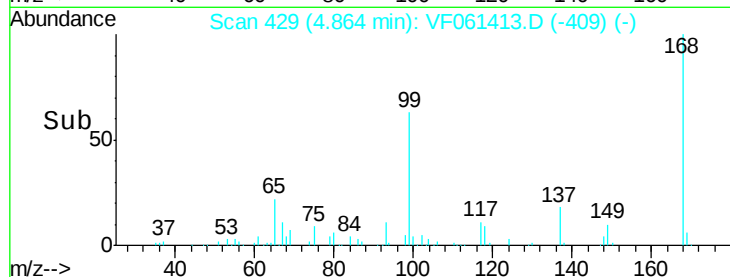
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 47.459 ug/l

RT: 0.96 min Scan# 33

Delta R.T. 0.00 min

Lab File: VF061413.D

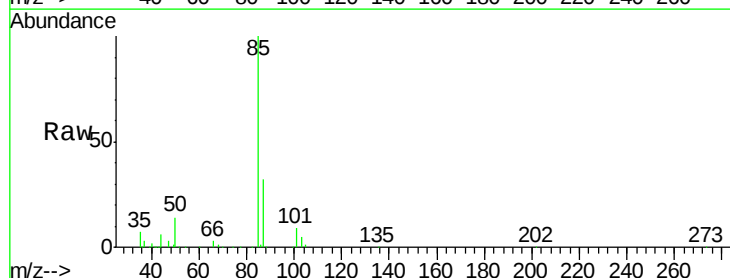
Acq: 16 Jan 2019 15:35

Tgt Ion: 85 Resp: 199975

Ion Ratio Lower Upper

85 100

87 32.5 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

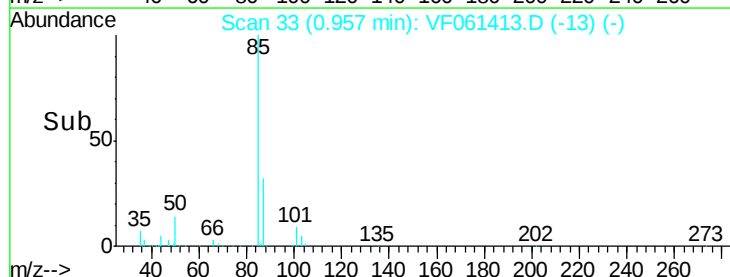
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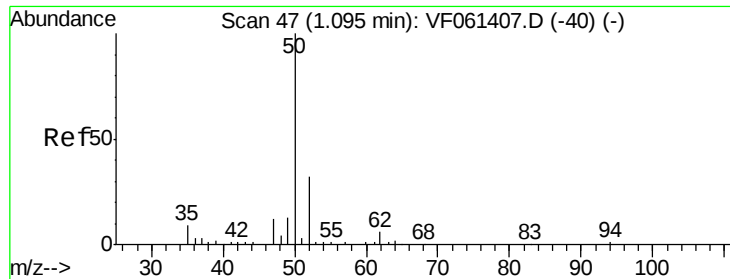
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20000

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Time-->





#3

Chloromethane

Concen: 49.726 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 153632

Ion Ratio Lower Upper

50 100

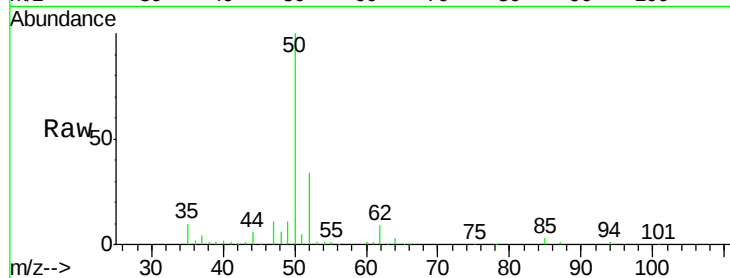
52 33.7 24.6 36.8

Manual Integrations

APPROVED

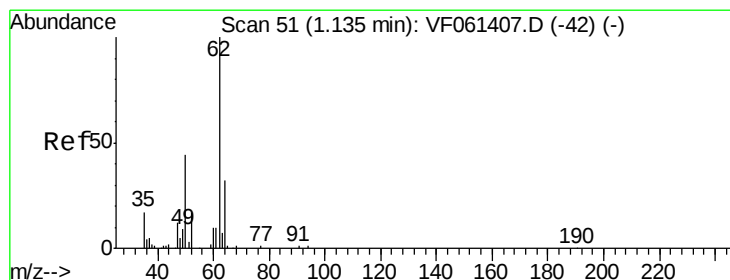
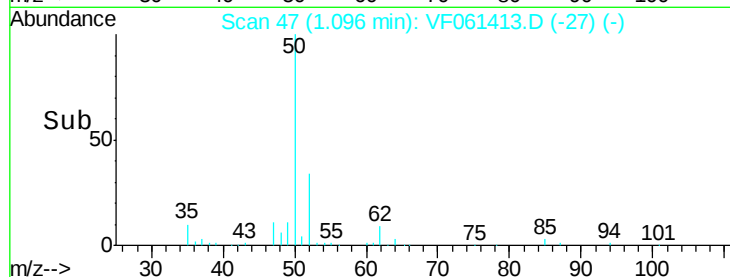
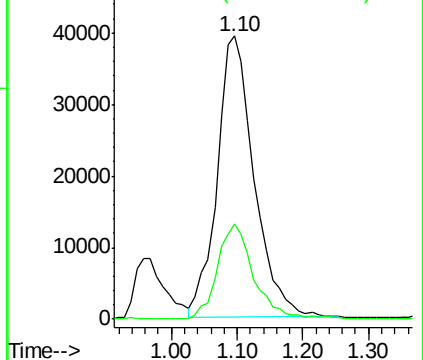
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 50.295 ug/l

RT: 1.13 min Scan# 51

Delta R.T. 0.00 min

Lab File: VF061413.D

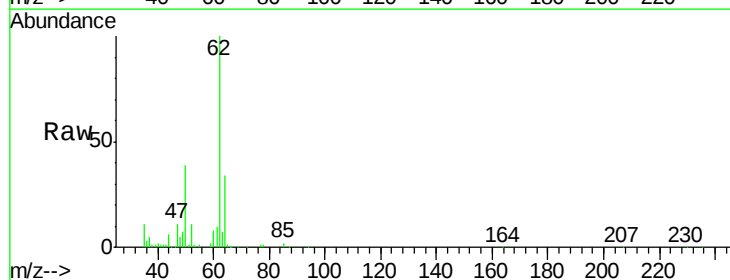
Acq: 16 Jan 2019 15:35

Tgt Ion: 62 Resp: 138227

Ion Ratio Lower Upper

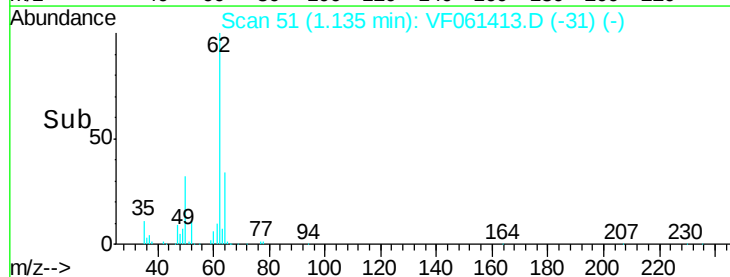
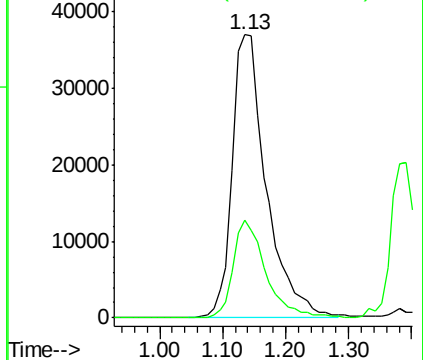
62 100

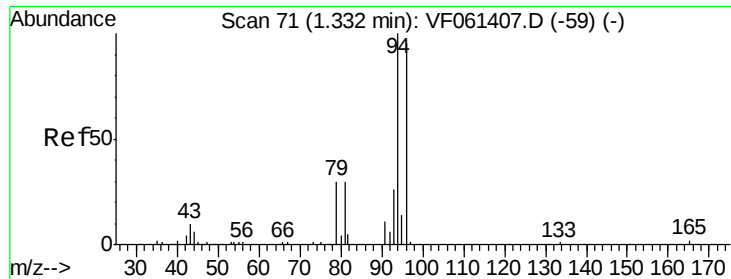
64 34.4 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 51.599 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 92474

Ion Ratio Lower Upper

94 100

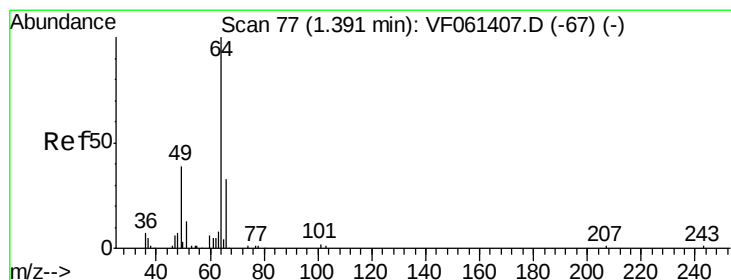
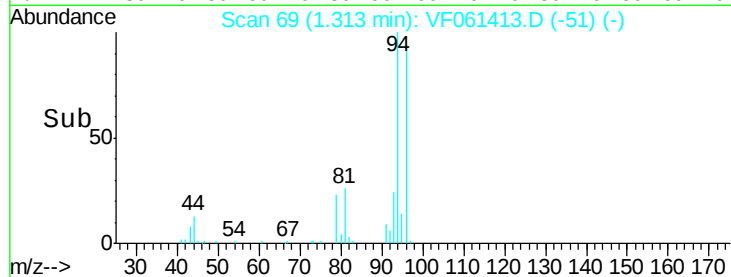
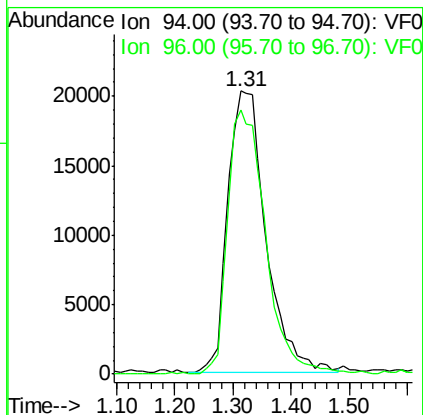
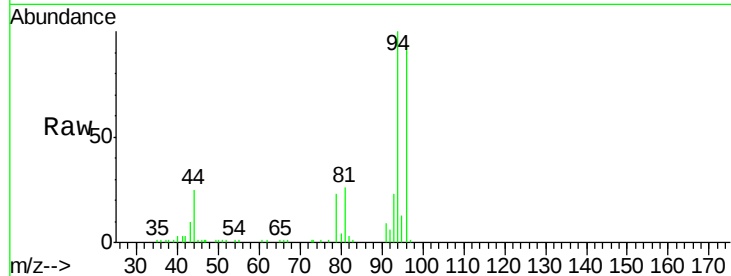
96 93.4 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 49.954 ug/l

RT: 1.39 min Scan# 77

Delta R.T. 0.00 min

Lab File: VF061413.D

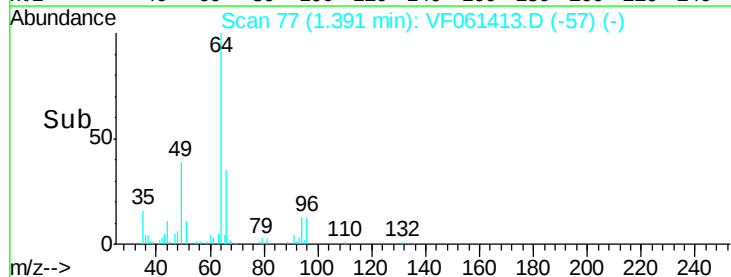
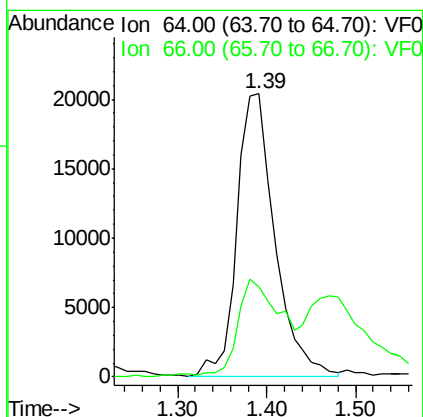
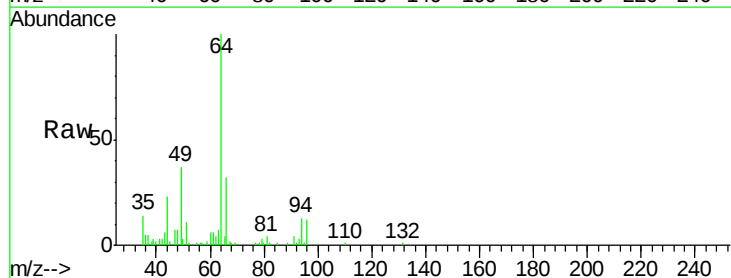
Acq: 16 Jan 2019 15:35

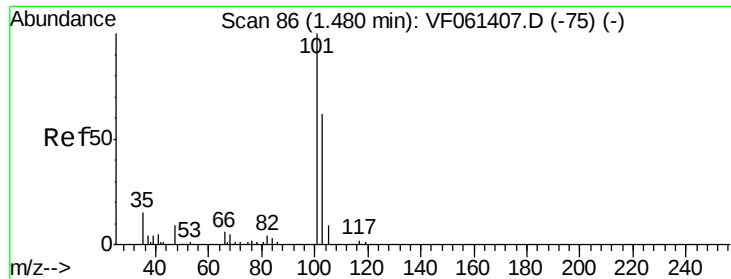
Tgt Ion: 64 Resp: 60834

Ion Ratio Lower Upper

64 100

66 31.7 26.6 40.0





#7

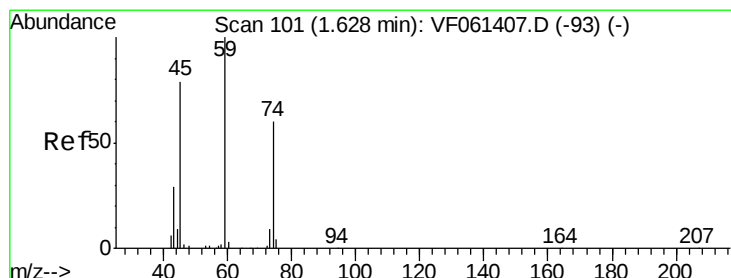
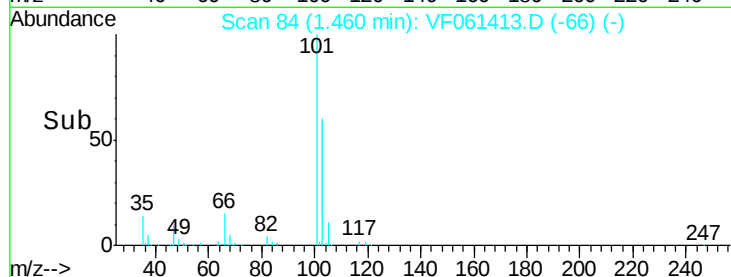
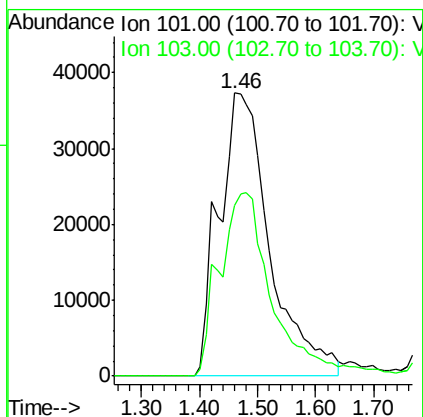
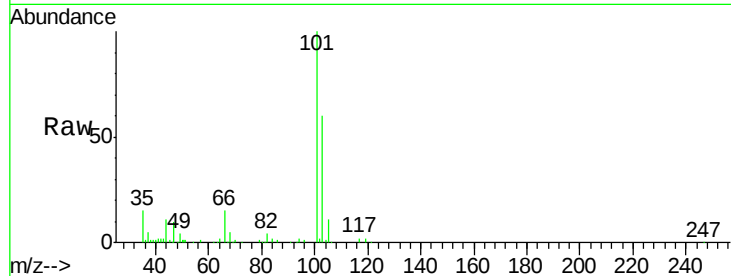
Trichlorofluoromethane
Concen: 42.558 ug/l
RT: 1.46 min Scan# 84
Delta R.T. -0.02 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	60.4	49.7	74.5

Manual Integrations
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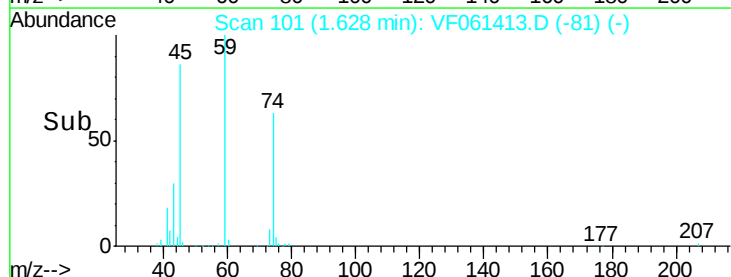
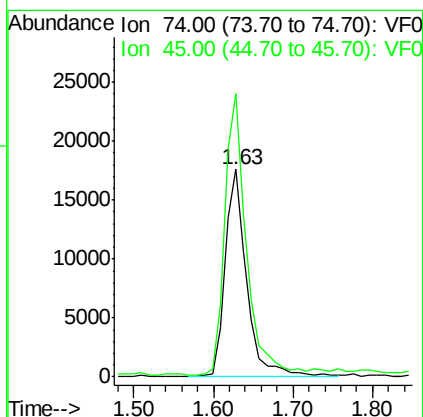
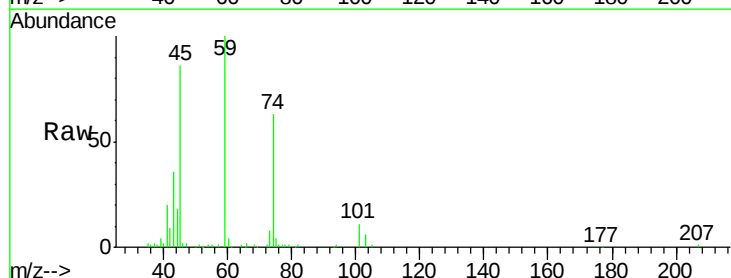
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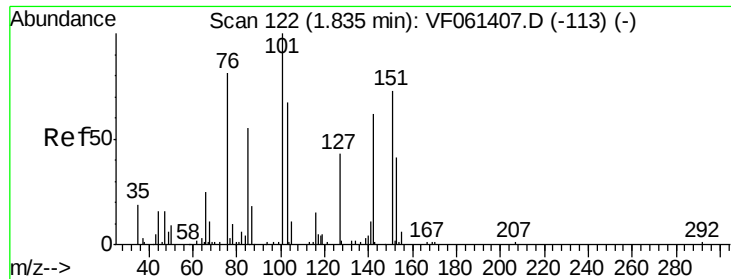


#8

Diethyl Ether
Concen: 49.212 ug/l
RT: 1.63 min Scan# 101
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	136.2	65.8	197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.378 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

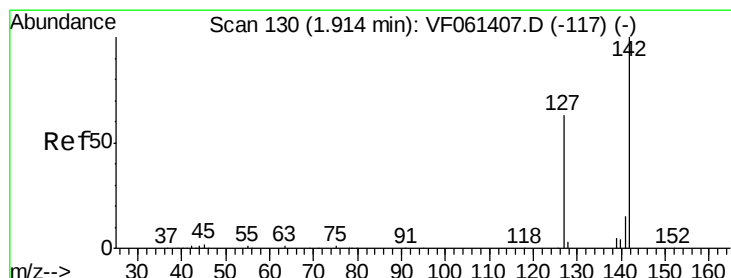
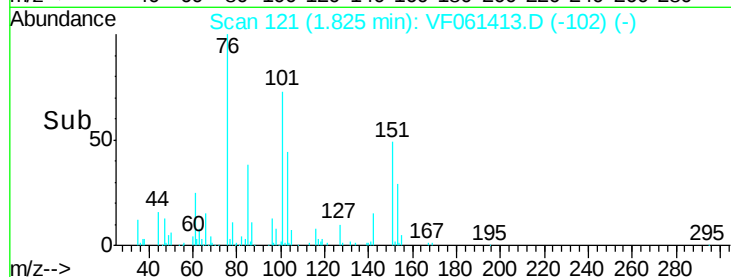
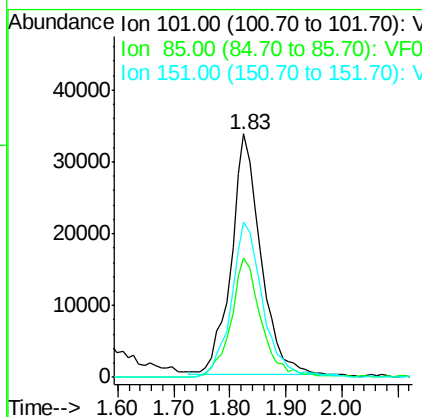
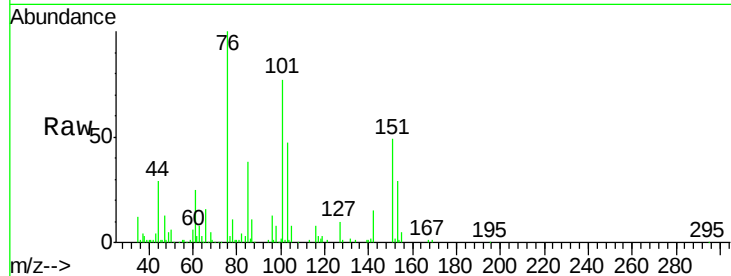
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	124199
Ion Ratio	Lower	Upper	
101	100		
85	49.2	41.9	62.9
151	63.6	55.1	82.7

Manual Integrations
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#10

Methyl Iodide

Concen: 51.898 ug/l m

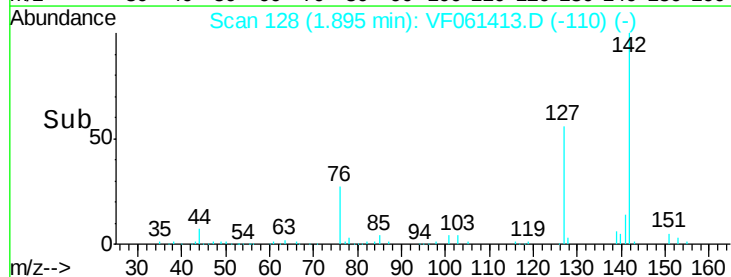
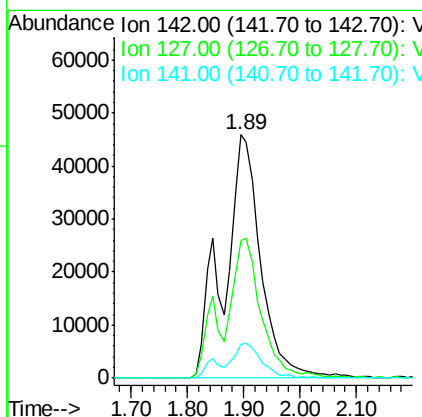
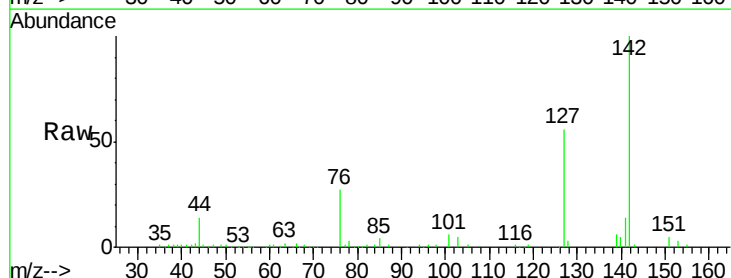
RT: 1.89 min Scan# 128

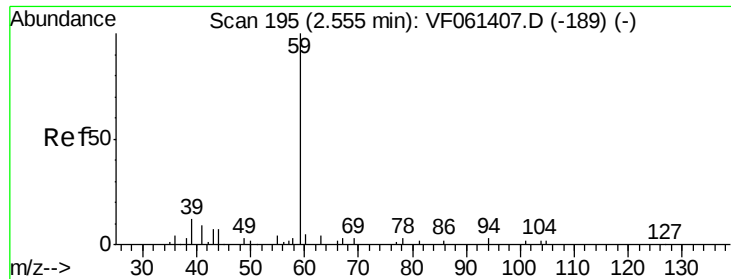
Delta R.T. -0.02 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	142	Resp:	206554
Ion Ratio	Lower	Upper	
142	100		
127	56.3	50.7	76.1
141	13.8	11.8	17.6





#11

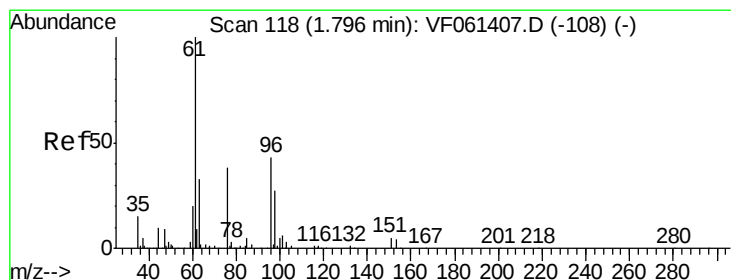
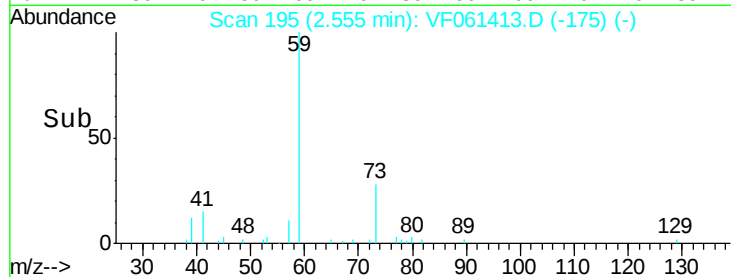
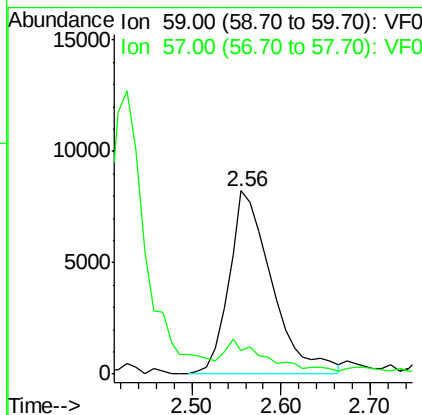
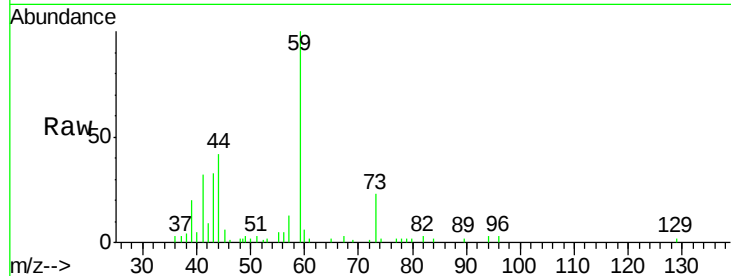
Tert butyl alcohol
Concen: 246.630 ug/l
RT: 2.56 min Scan# 195
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.0	11.9	17.9

Manual Integrations
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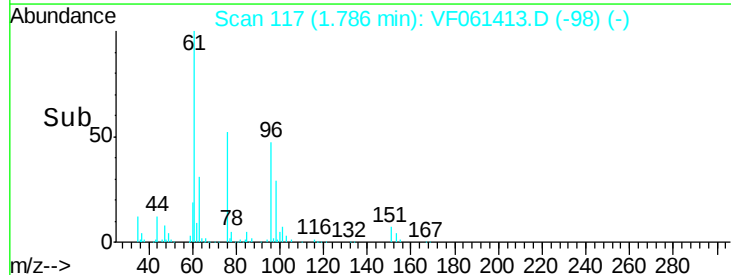
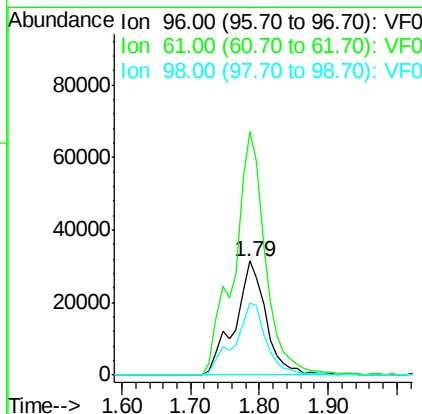
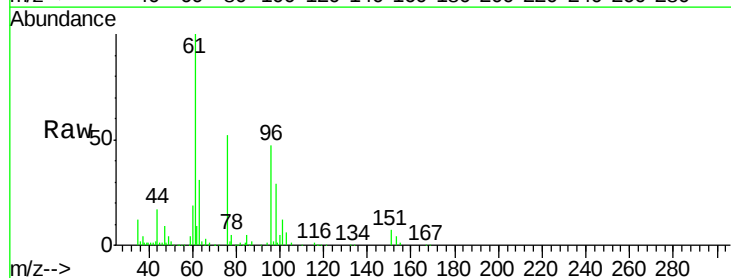
MMDadoda
1/17/2019 1:23:40 PM

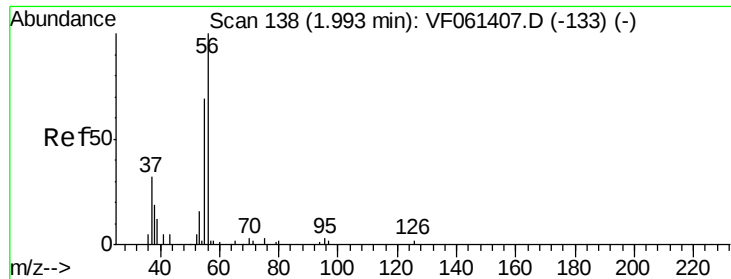


#12

1,1-Dichloroethene
Concen: 52.290 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	213.4	186.9	280.3
98	62.7	53.0	79.4





#13

Acrolein

Concen: 272.307 ug/l

RT: 1.99 min Scan# 138

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 26379

Ion Ratio Lower Upper

56 100

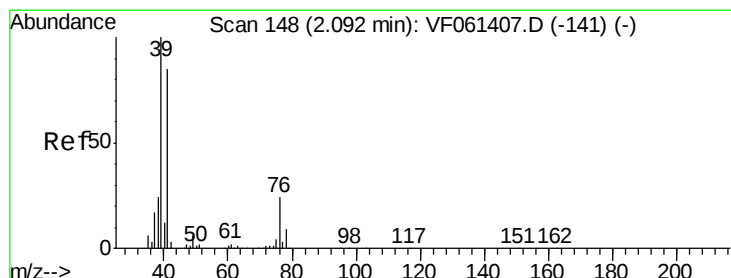
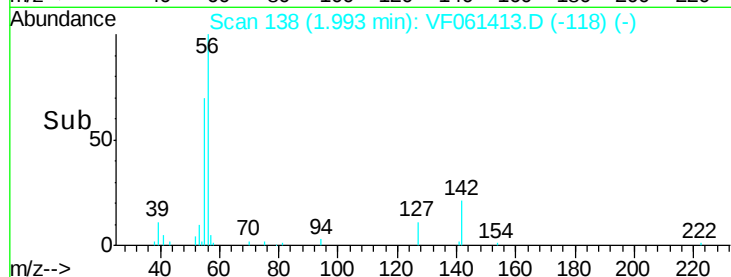
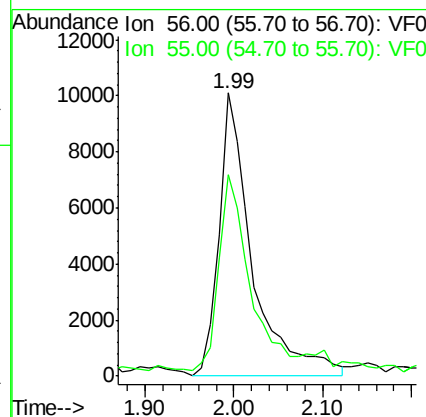
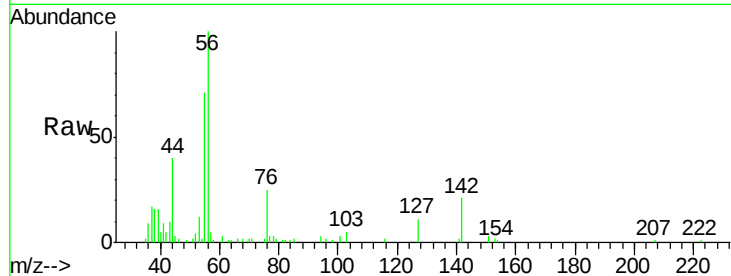
55 71.2 57.5 86.3

Manual Integrations

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#14

Allyl chloride

Concen: 73.360 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

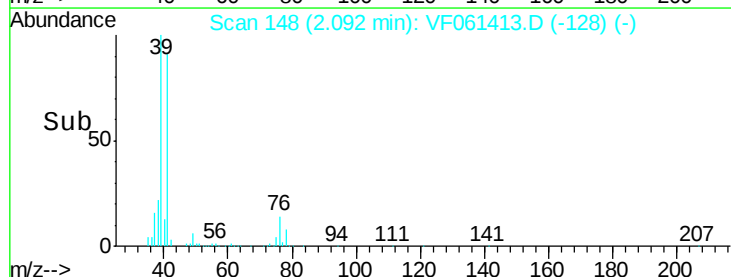
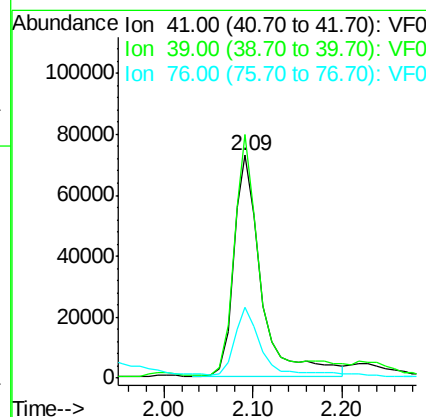
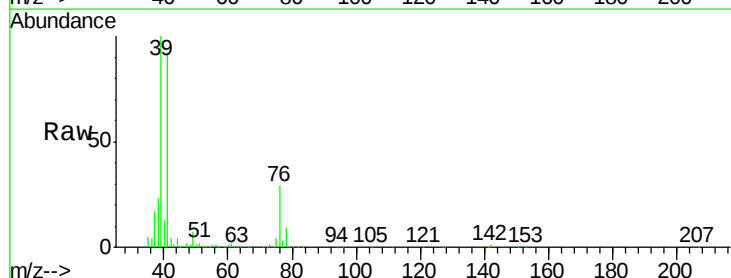
Tgt Ion: 41 Resp: 160086

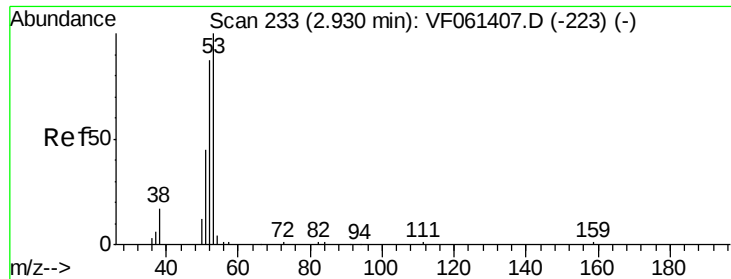
Ion Ratio Lower Upper

41 100

39 109.2 94.6 141.8

76 31.7 25.9 38.9





#15

Acrylonitrile

Concen: 248.693 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

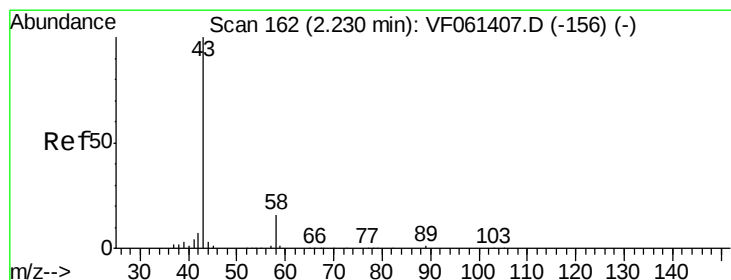
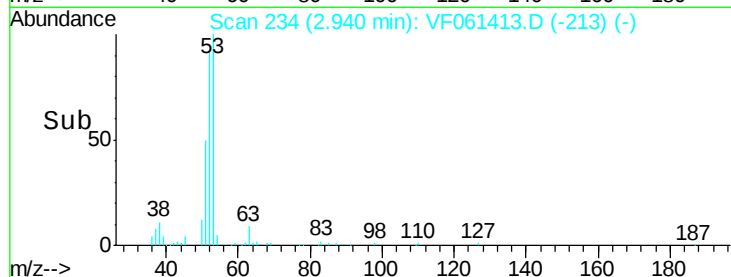
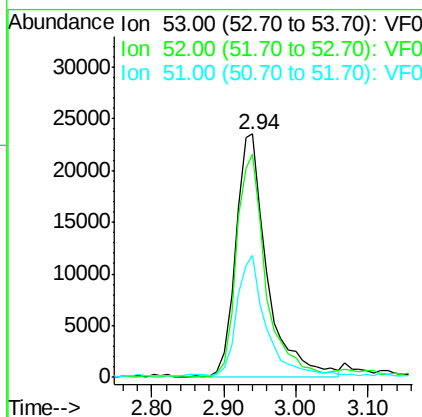
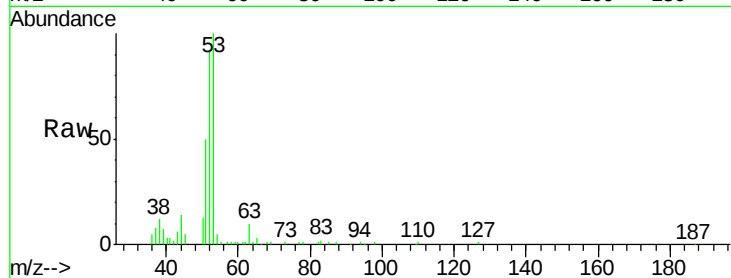
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	71392
Ion	Ratio	Lower	Upper
53	100		
52	91.6	69.6	104.4
51	50.1	36.8	55.2

Manual Integrations
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#16

Acetone

Concen: 270.424 ug/l

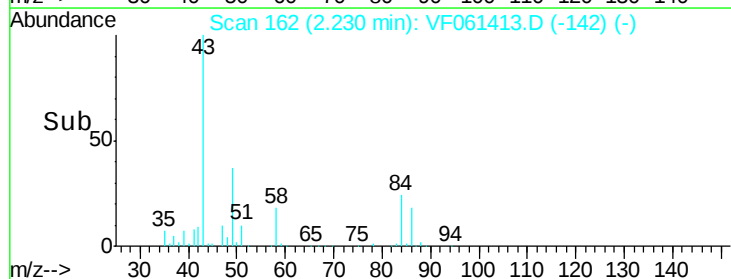
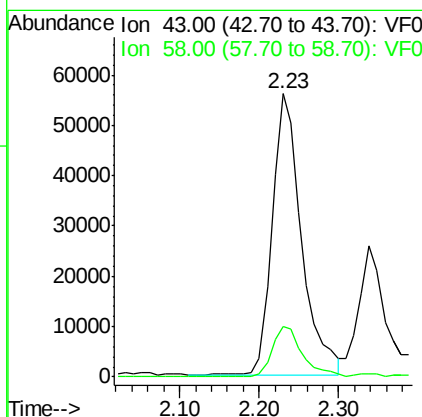
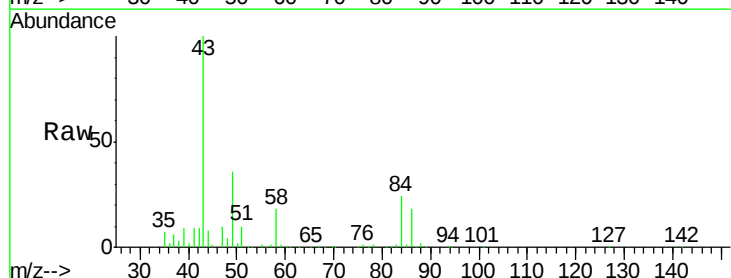
RT: 2.23 min Scan# 162

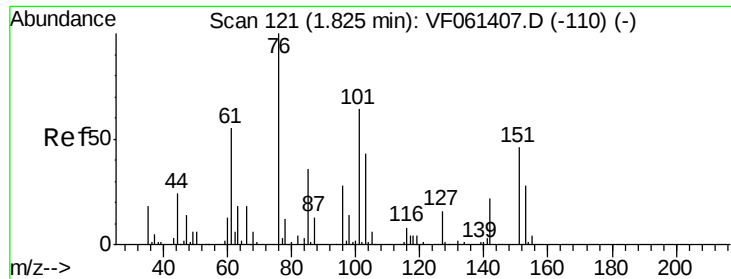
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	43	Resp:	143636
Ion	Ratio	Lower	Upper
43	100		
58	17.6	13.3	19.9





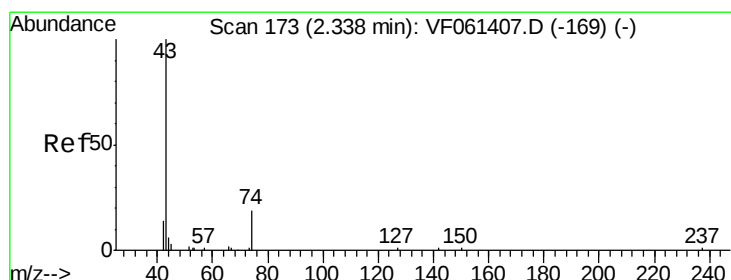
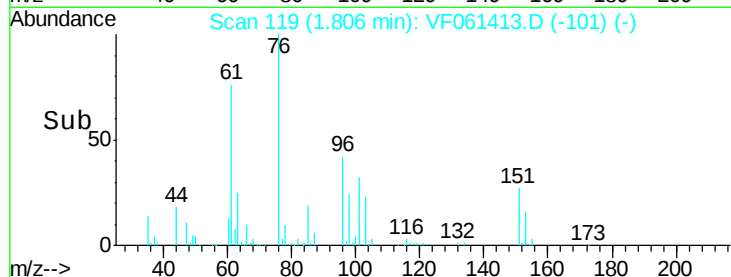
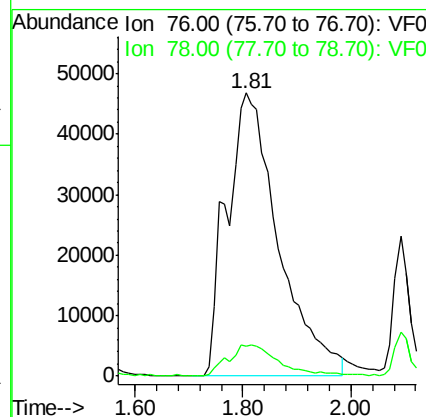
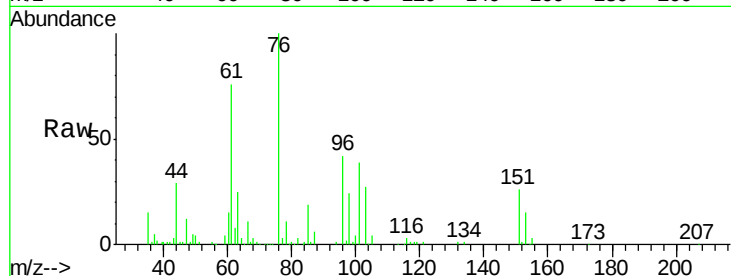
#17
Carbon Disulfide
Concen: 52.793 ug/l
RT: 1.81 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 313968
Ion Ratio Lower Upper
76 100
78 10.7 9.6 14.4

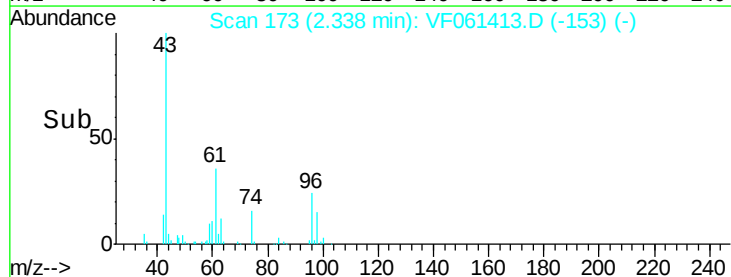
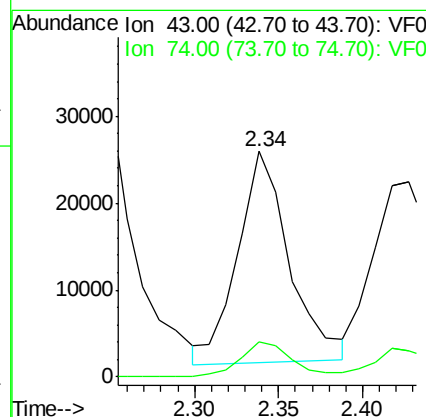
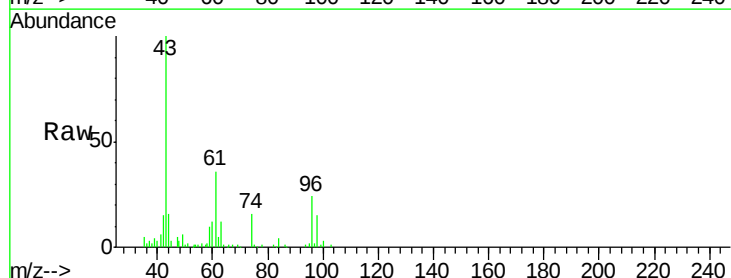
Manual Integrations
APPROVED

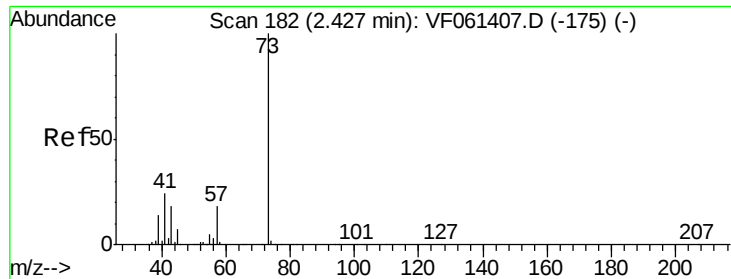
MMDadoda
1/17/2019 1:23:40 PM



#18
Methyl Acetate
Concen: 49.414 ug/l
RT: 2.34 min Scan# 173
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion: 43 Resp: 52051
Ion Ratio Lower Upper
43 100
74 15.7 13.4 20.0





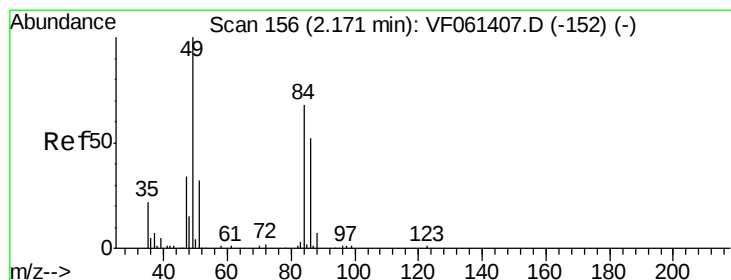
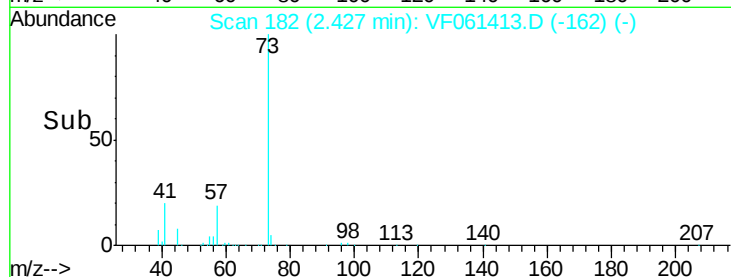
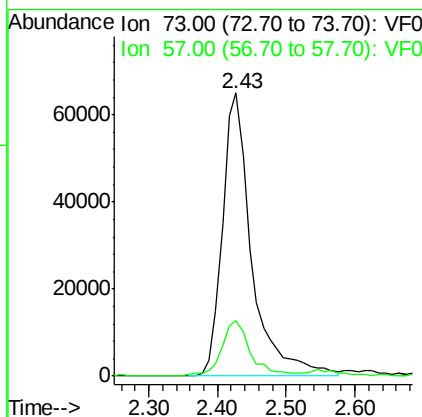
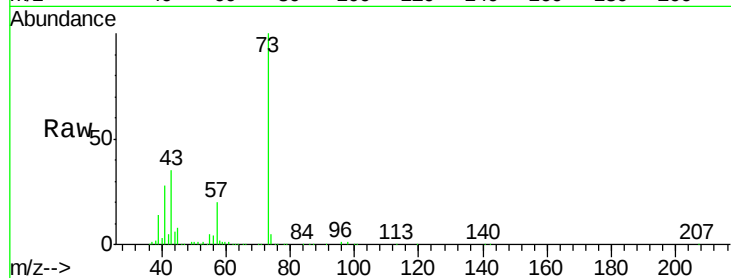
#19
Methvl tert-butvl Ether
Concen: 44.922 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.6	14.8	22.2

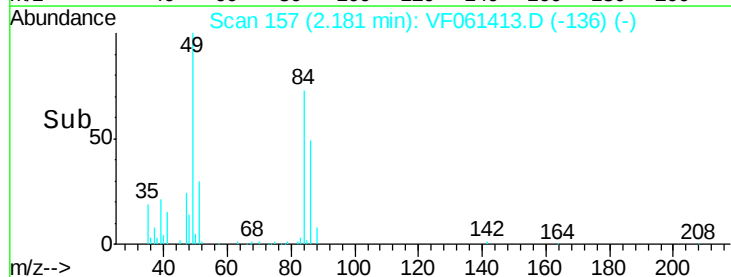
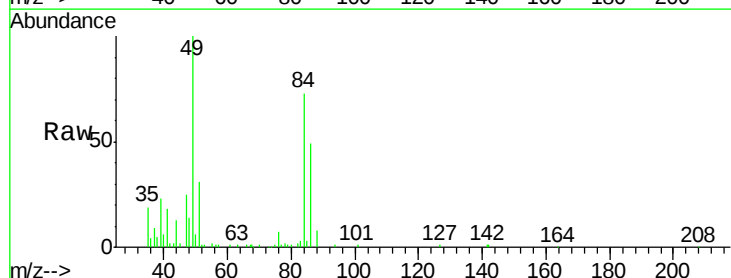
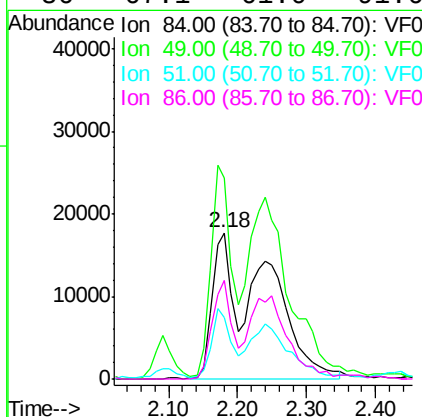
Manual Integrations
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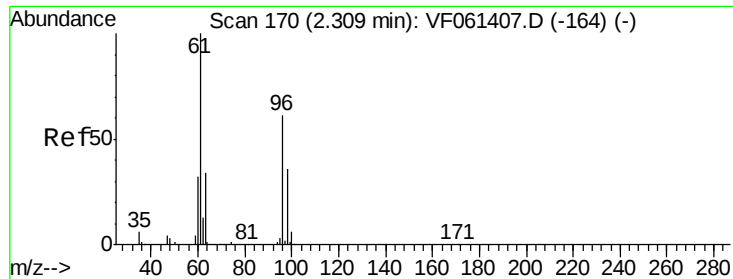
MMDadoda
1/17/2019 1:23:40 PM



#20
Methylene Chloride
Concen: 52.359 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	137.0	120.0	180.0
51	41.8	38.6	58.0
86	67.1	61.0	91.6





#21

trans-1,2-Dichloroethene

Concen: 46.818 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

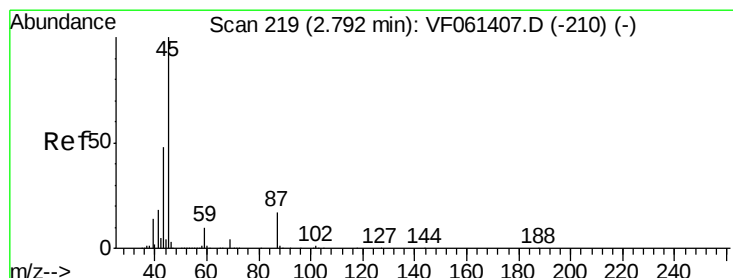
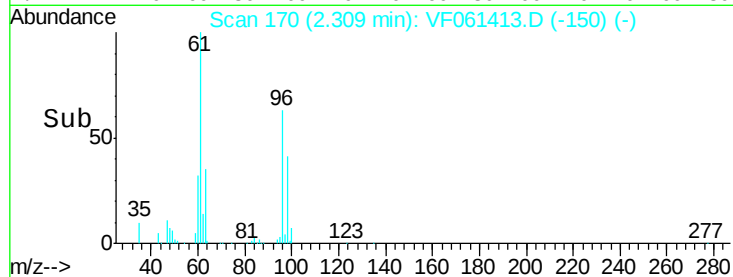
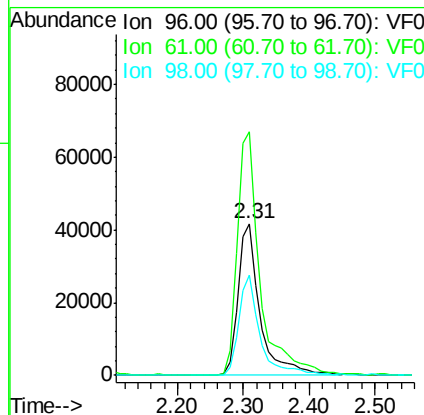
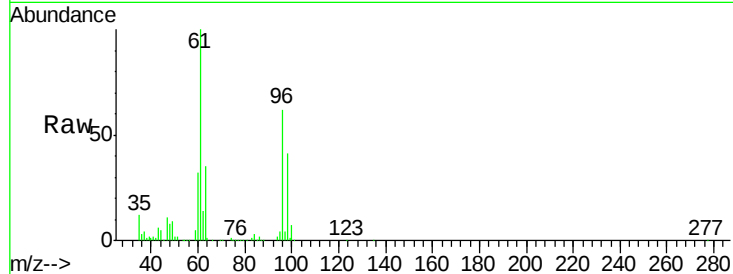
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	98247
Ion	Ratio	Lower	Upper
96	100		
61	160.3	131.8	197.8
98	65.7	47.4	71.0

Manual Integrations
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1/17/2019 1:23:40 PM



#22

Diisopropyl ether

Concen: 49.718 ug/l

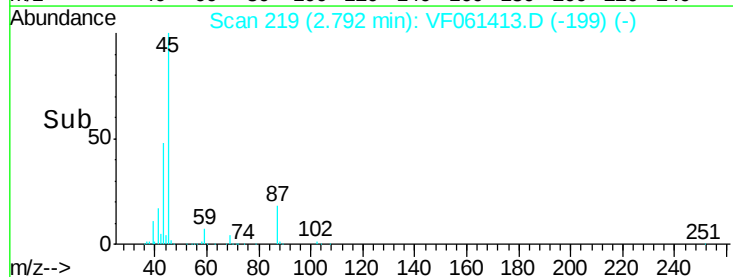
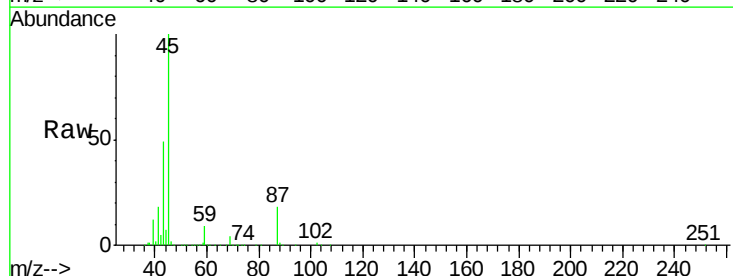
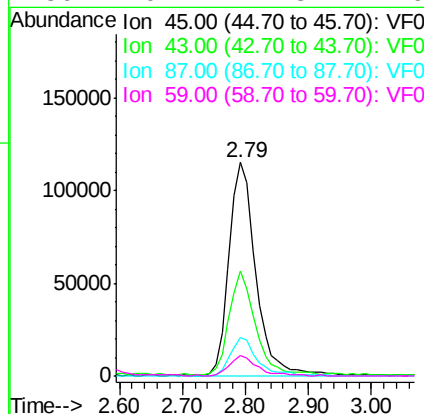
RT: 2.79 min Scan# 219

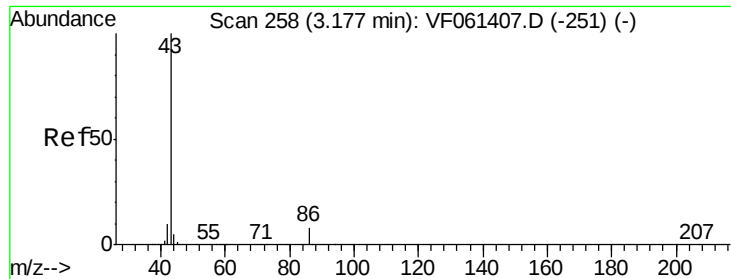
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	45	Resp:	337458
Ion	Ratio	Lower	Upper
45	100		
43	49.3	39.0	58.6
87	18.0	13.9	20.9
59	9.4	7.8	11.6





#23

Vinyl Acetate

Concen: 282.058 ug/l

RT: 3.18 min Scan# 258

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 843311

Ion Ratio Lower Upper

43 100

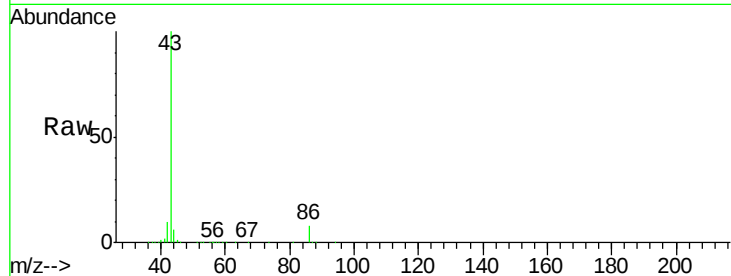
86 7.5 6.2 9.4

Manual Integrations

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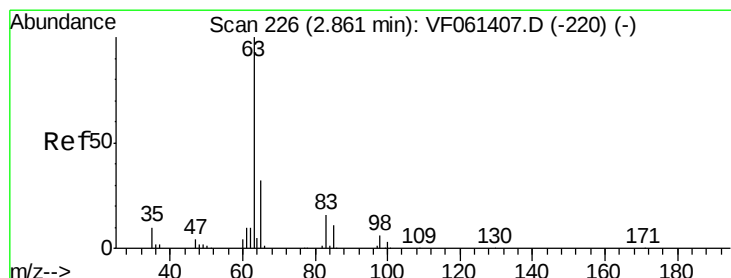
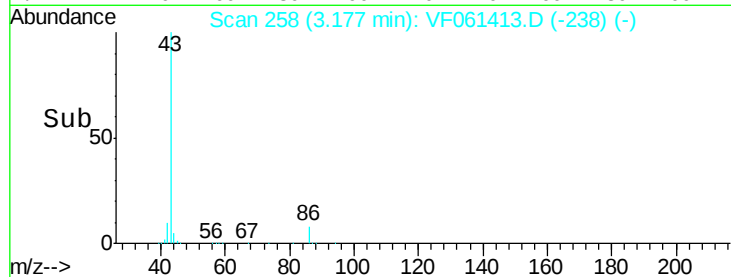
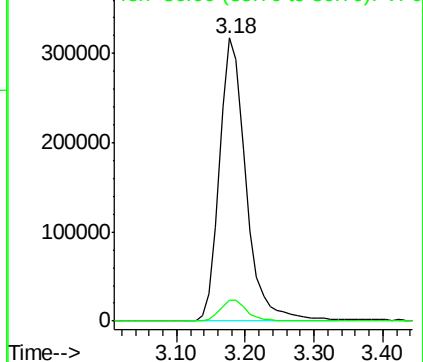
MMDadoda

1/17/2019 1:23:40 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 48.098 ug/l

RT: 2.86 min Scan# 226

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

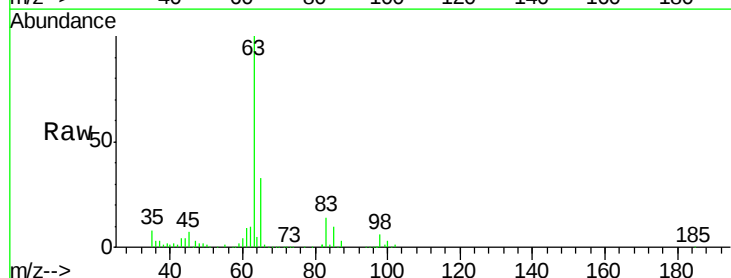
Tgt Ion: 63 Resp: 204895

Ion Ratio Lower Upper

63 100

98 5.9 2.9 8.8

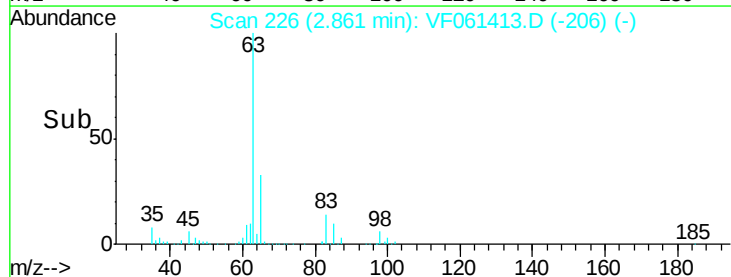
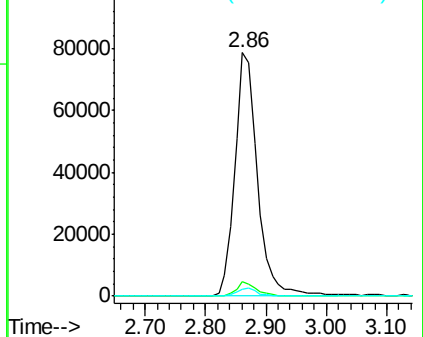
100 2.9 1.6 4.8

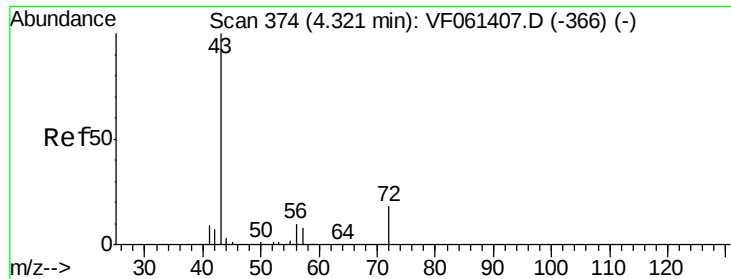


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 262.565 ug/l

RT: 4.32 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 231919

Ion Ratio Lower Upper

43 100

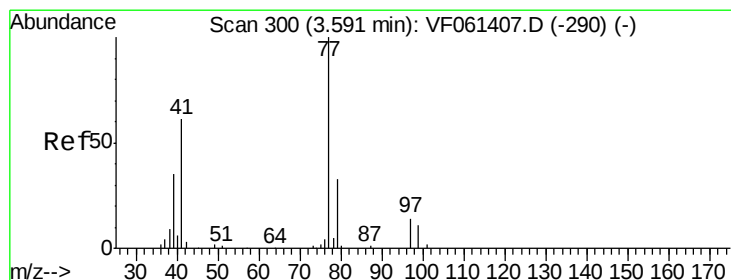
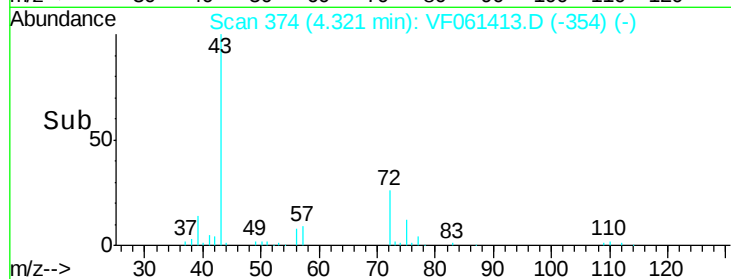
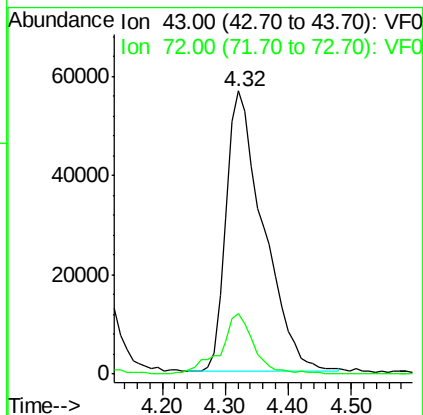
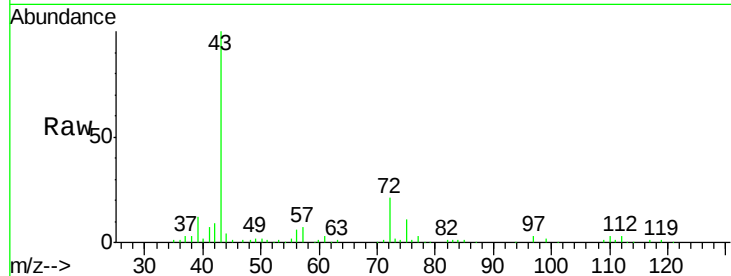
72 21.3 15.8 23.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 43.215 ug/l

RT: 3.59 min Scan# 300

Delta R.T. 0.00 min

Lab File: VF061413.D

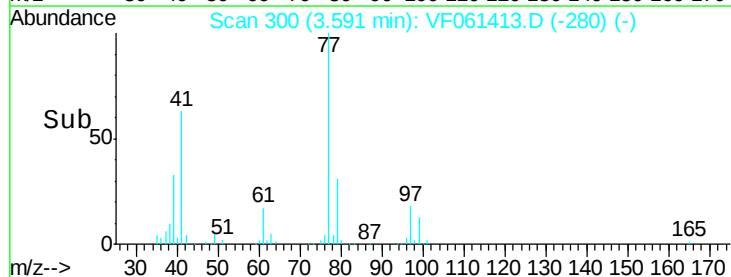
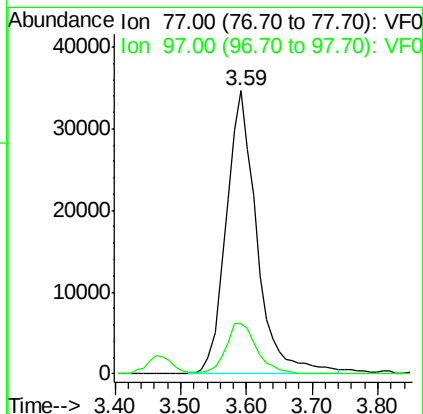
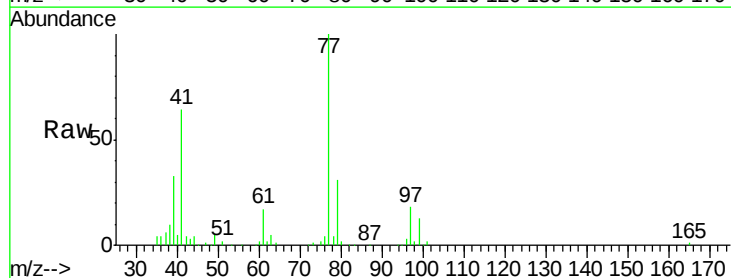
Acq: 16 Jan 2019 15:35

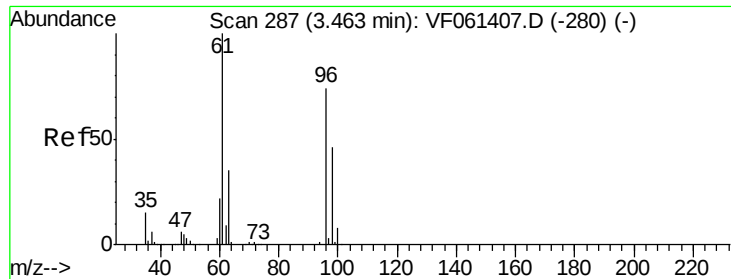
Tgt Ion: 77 Resp: 113107

Ion Ratio Lower Upper

77 100

97 18.0 8.5 25.5





#27

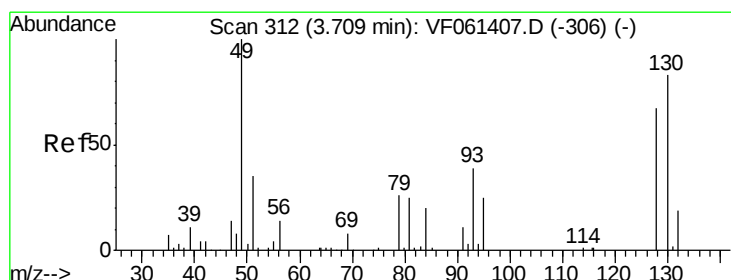
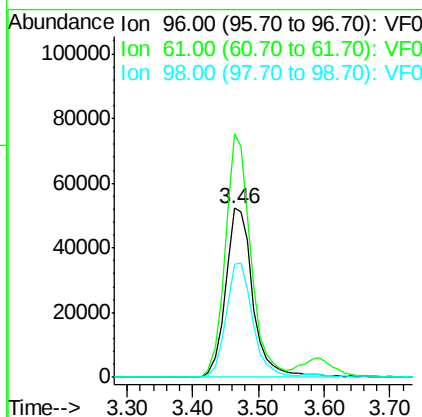
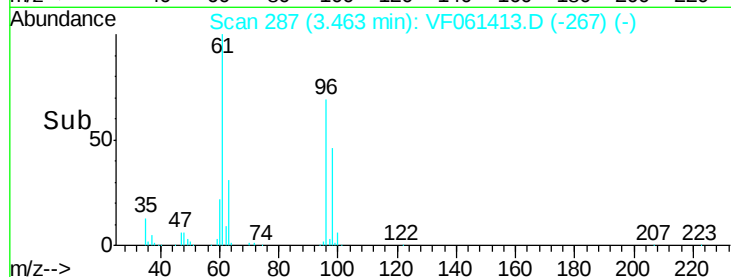
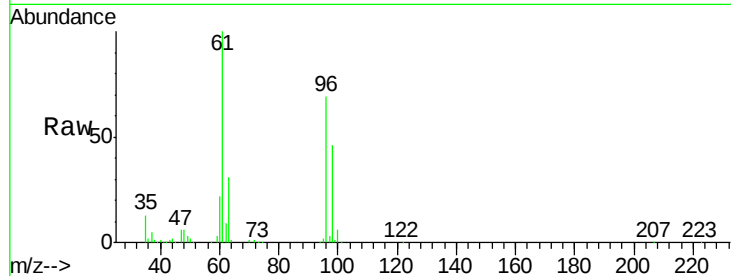
cis-1,2-Dichloroethene
Concen: 49.123 ug/l
RT: 3.46 min Scan# 287
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	144.0	0.0	270.2	
98	66.8	0.0	124.0	

Manual Integrations
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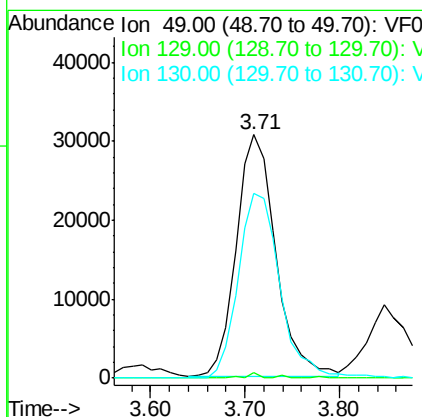
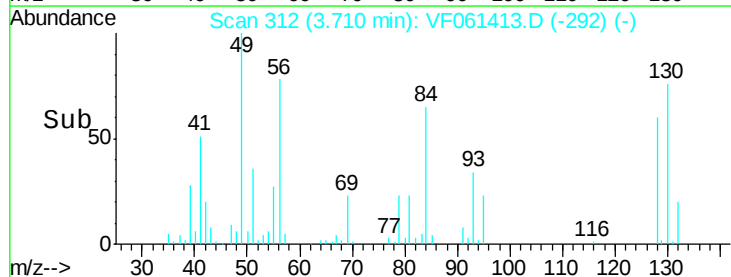
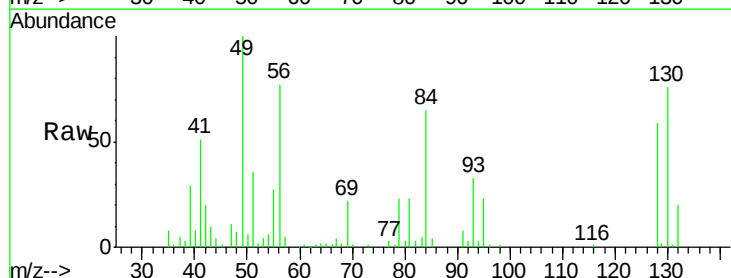
MMDadoda
1/17/2019 1:23:40 PM

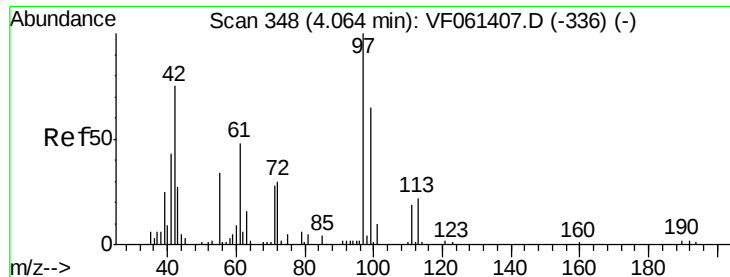


#28

Bromochloromethane
Concen: 46.379 ug/l
RT: 3.71 min Scan# 312
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.3	0.0	0.0#	
130	75.7	65.4	98.2	





#29

Tetrahydrofuran

Concen: 254.922 ug/l

RT: 4.06 min Scan# 348

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

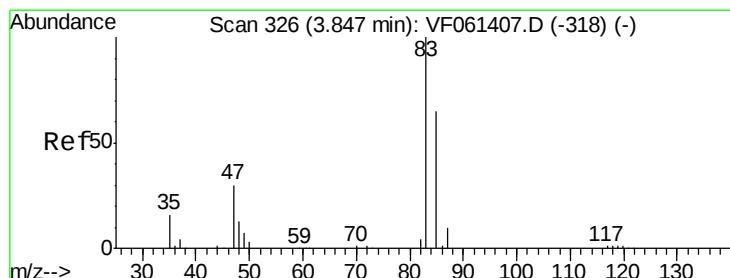
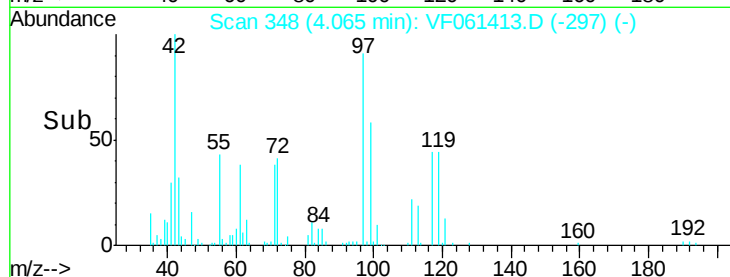
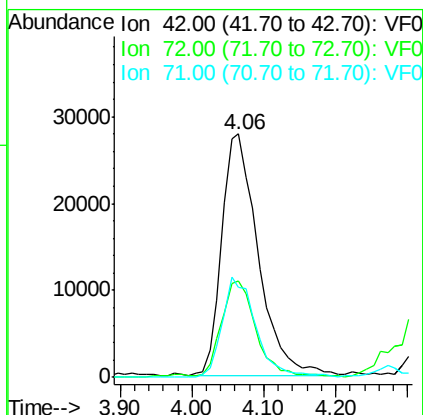
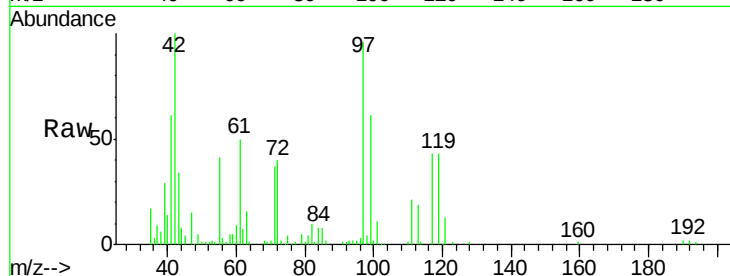
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	96956
Ion	Ratio	Lower	Upper
42	100		
72	38.7	28.9	43.3
71	38.6	29.6	44.4

Manual Integrations
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#30

Chloroform

Concen: 47.217 ug/l

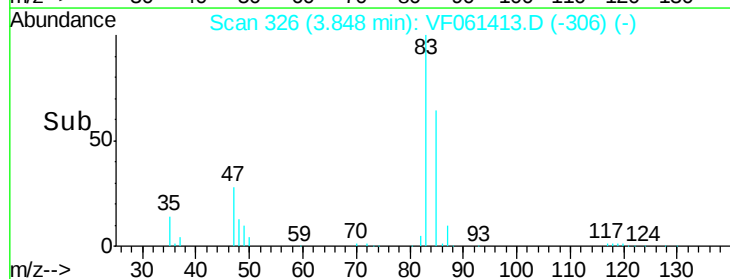
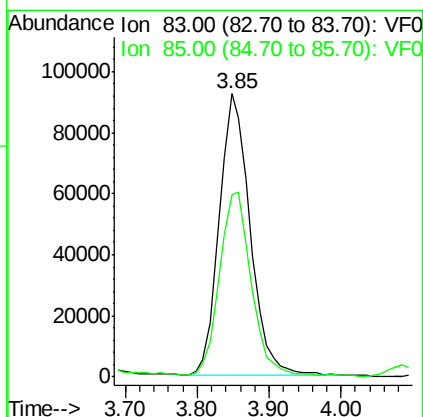
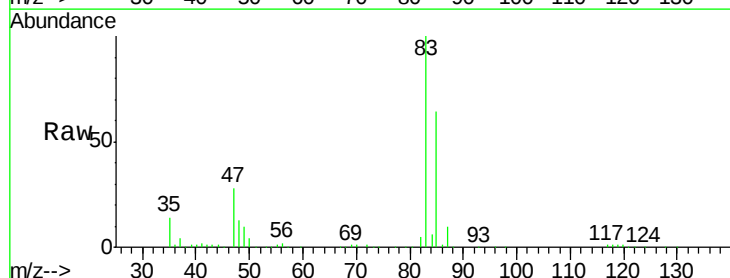
RT: 3.85 min Scan# 326

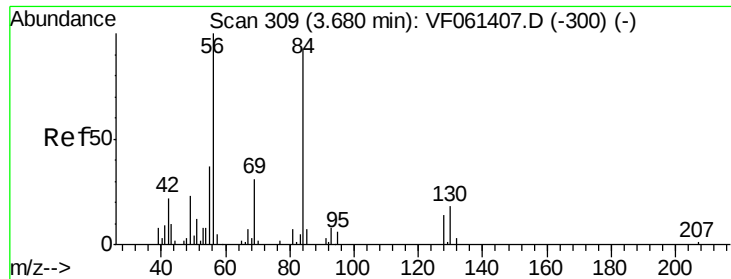
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	83	Resp:	271460
Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.7	79.1





#31

Cvclohexane

Concen: 49.419 ug/l m

RT: 3.69 min Scan# 310

Delta R.T. 0.01 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

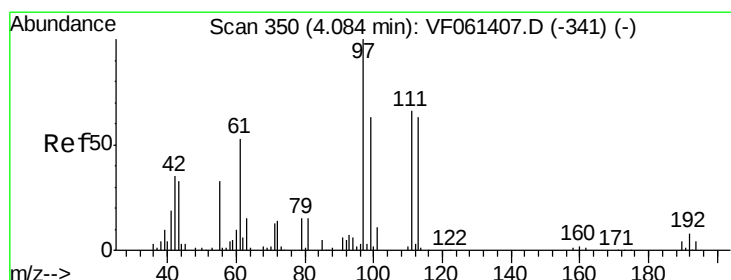
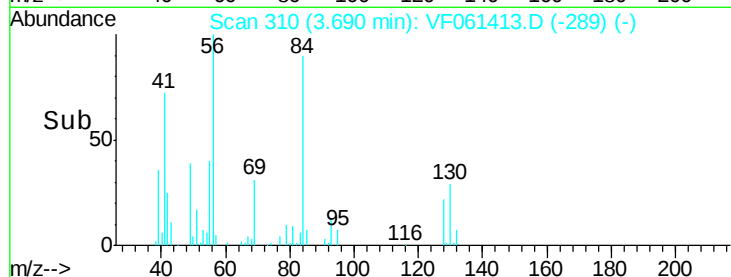
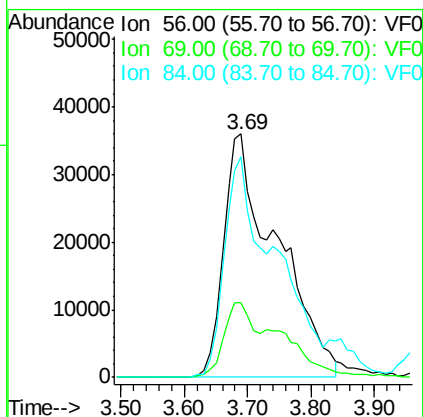
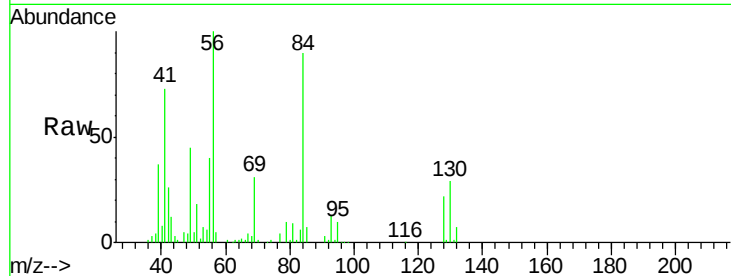
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	210296
Ion Ratio	Lower	Upper	
56	100		
69	30.8	24.6	36.8
84	90.5	74.2	111.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 47.159 ug/l

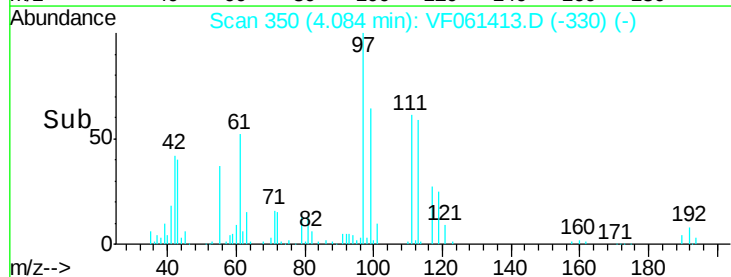
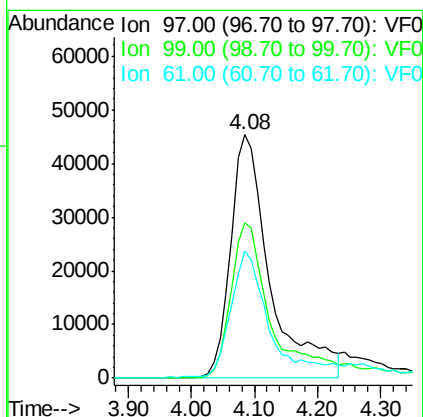
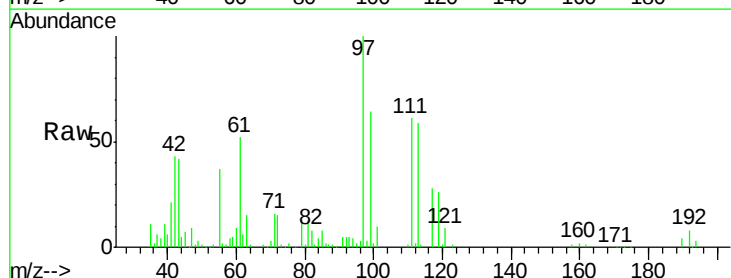
RT: 4.08 min Scan# 350

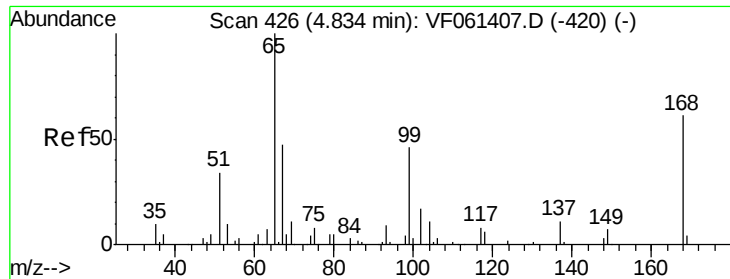
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	97	Resp:	198797
Ion Ratio	Lower	Upper	
97	100		
99	63.9	50.1	75.1
61	52.3	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 46.247 ug/l

RT: 4.83 min Scan# 426

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tot Ion: 65 Resp: 122446

Ion Ratio Lower Upper

65 100

67 52.9 0.0 99.8

Instrument :

MSVOA_F

ClientSampleId :

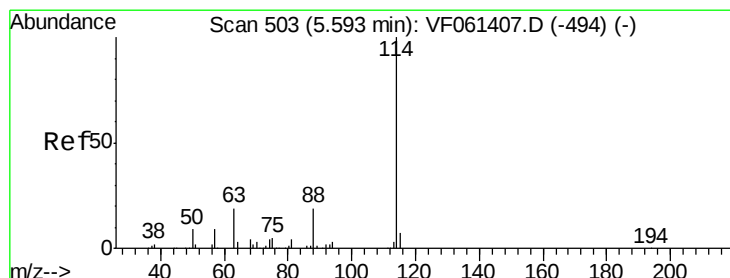
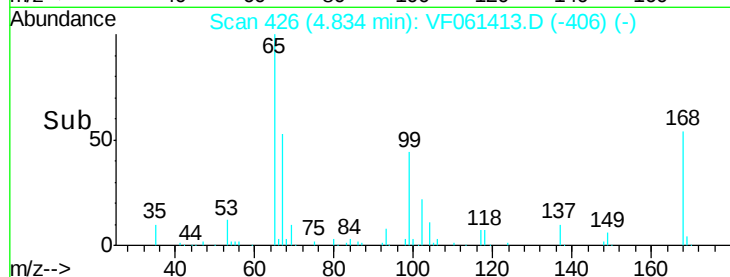
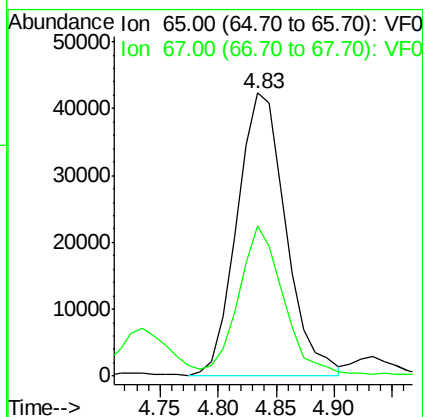
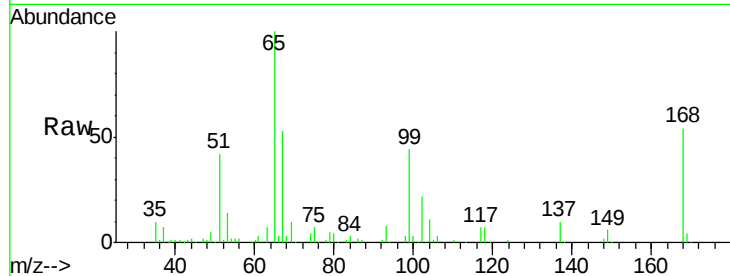
VSTDCCC050

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

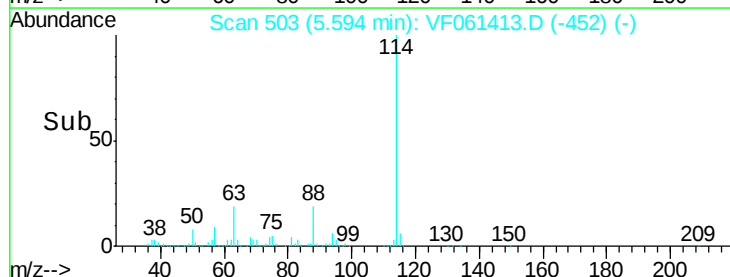
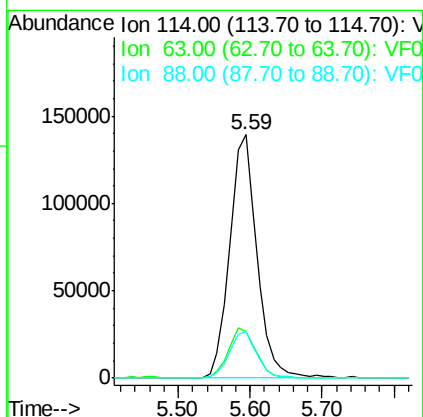
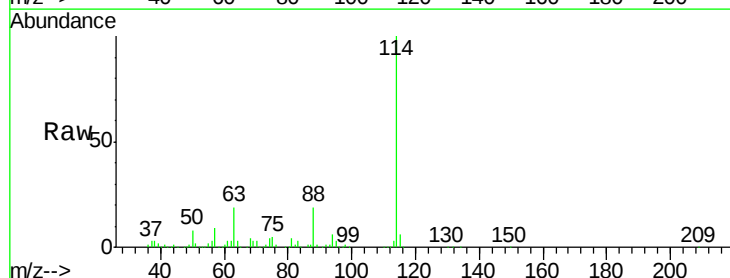
Tgt Ion: 114 Resp: 368503

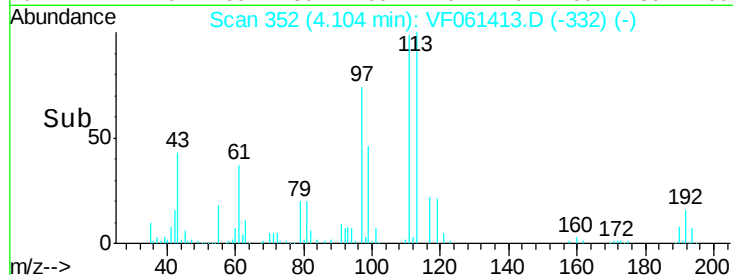
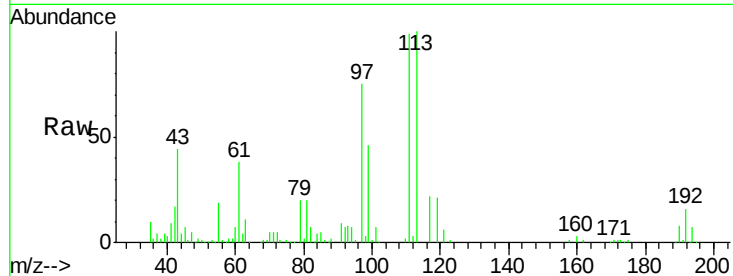
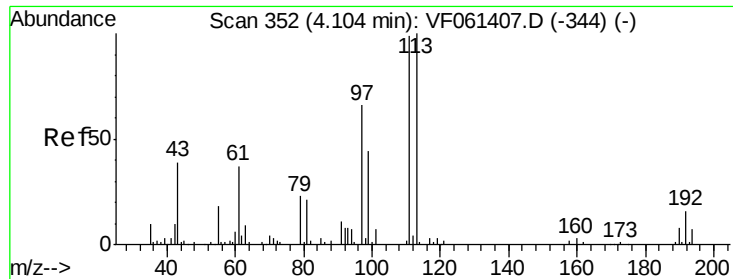
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.0

88 19.1 0.0 37.4





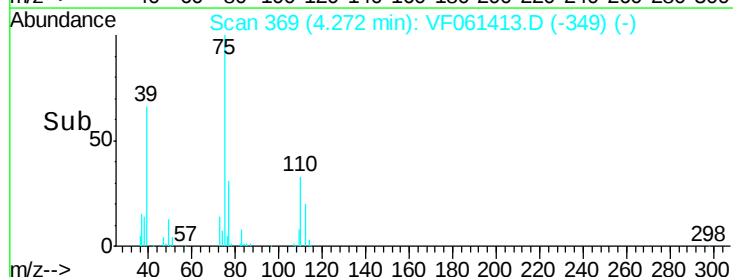
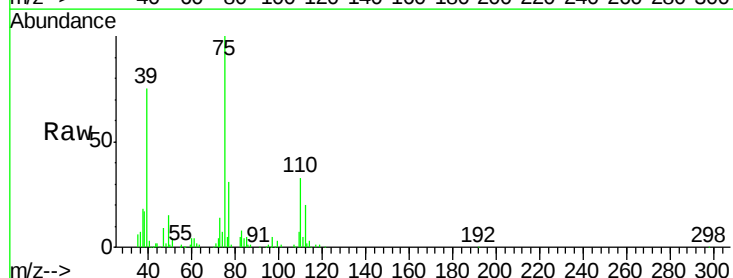
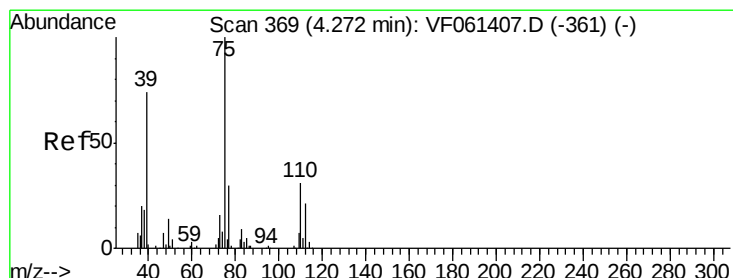
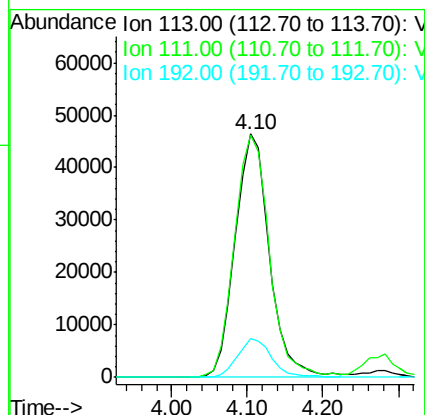
#35
Dibromofluoromethane
Concen: 50.091 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tot Ion	Ratio	Resp	Lower	Upper
113	100	145654		
111	99.5	79.4	119.0	
192	16.0	12.4	18.6	

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

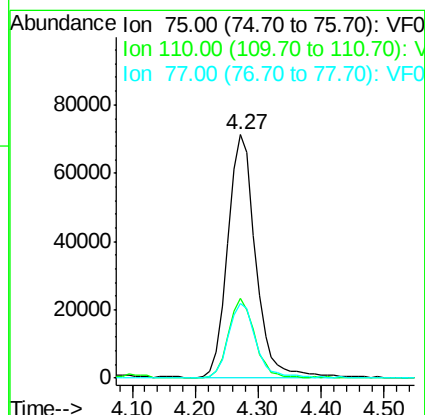
Manual Integrations
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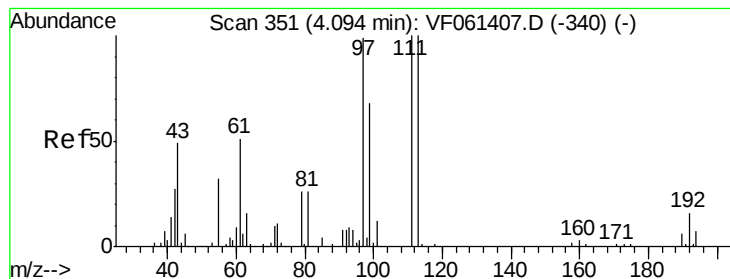
MMDadoda
1/17/2019 1:23:40 PM



#36
1,1-Dichloropropene
Concen: 50.561 ug/l
RT: 4.27 min Scan# 369
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	216028		
110	32.6	15.8	47.3	
77	30.7	24.0	36.0	





#37

Ethyl Acetate

Concen: 51.028 ug/l

RT: 4.09 min Scan# 351

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

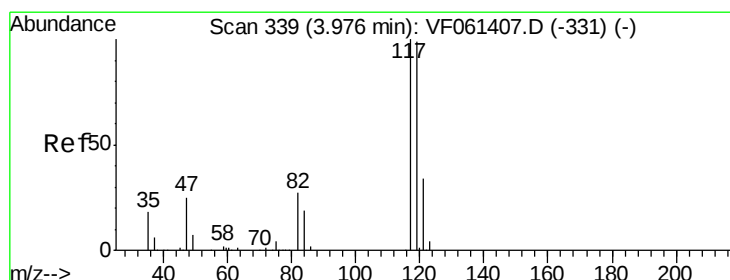
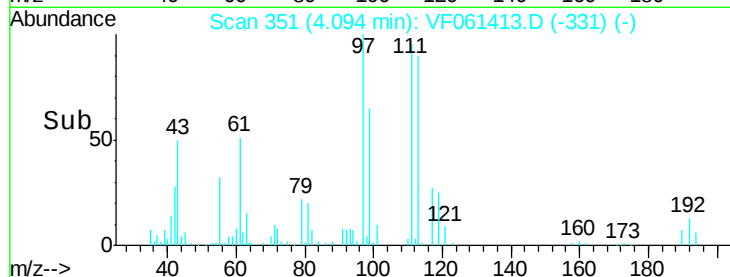
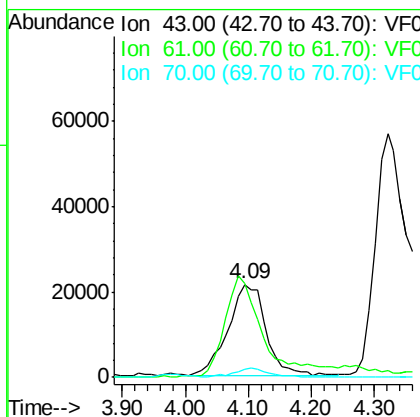
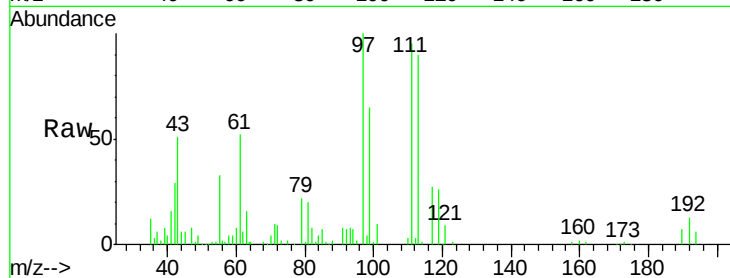
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	87150
Ion	Ratio	Lower	Upper
43	100		
61	101.8	81.7	122.5
70	8.8	6.2	9.2

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 45.542 ug/l

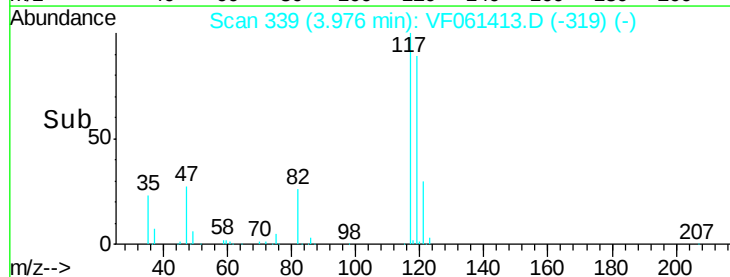
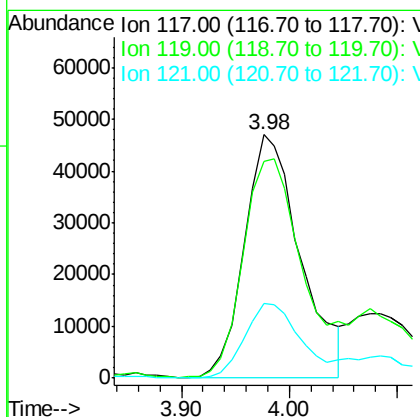
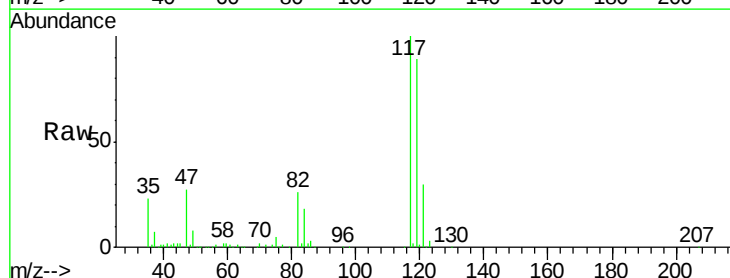
RT: 3.98 min Scan# 339

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	117	Resp:	170113
Ion	Ratio	Lower	Upper
117	100		
119	89.0	79.0	118.6
121	30.5	27.0	40.6





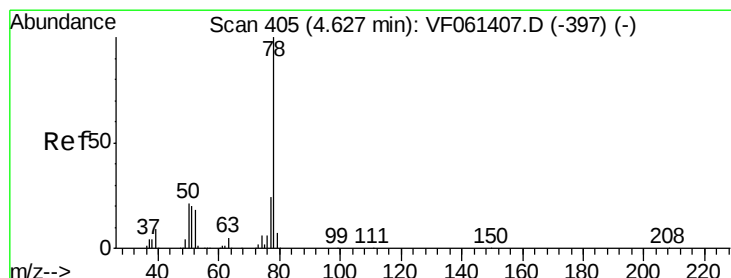
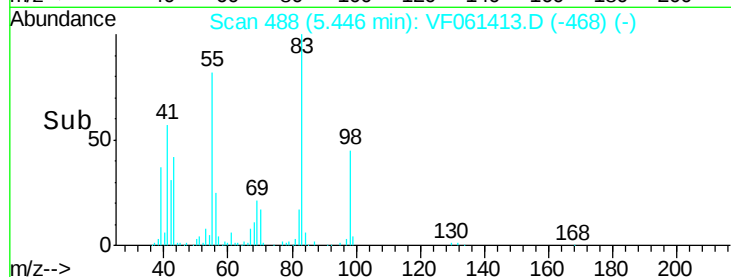
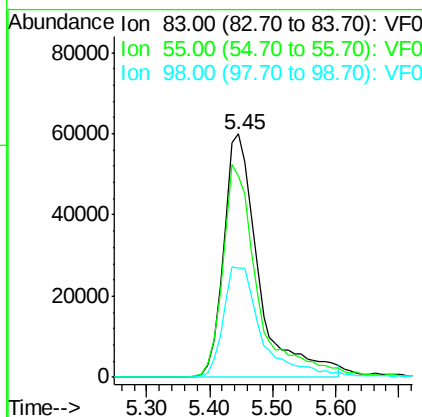
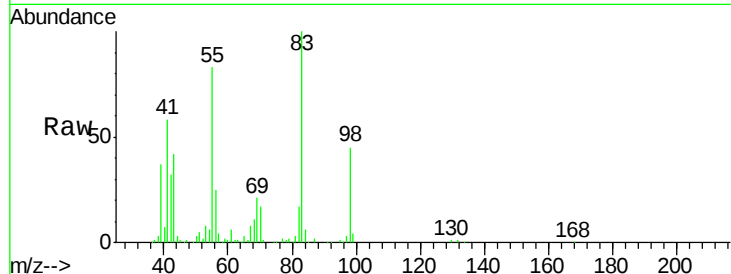
#39
Methvlcvclohexane
Concen: 50.119 ug/l
RT: 5.45 min Scan# 488
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.7	67.4	101.2
98	44.7	36.7	55.1

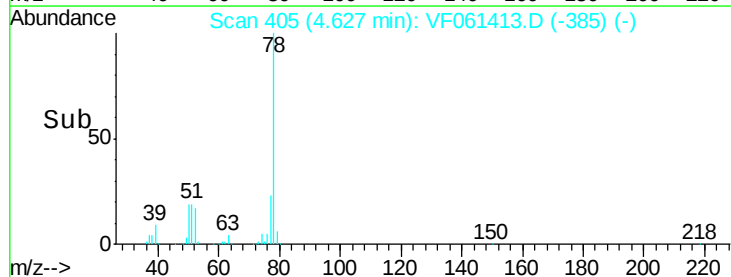
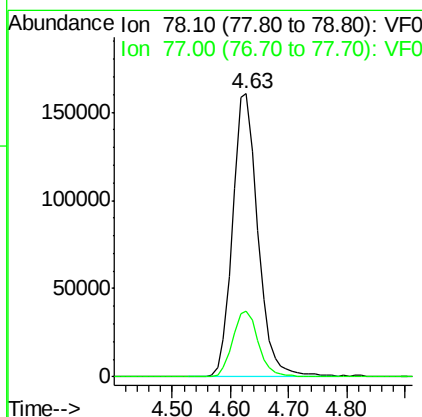
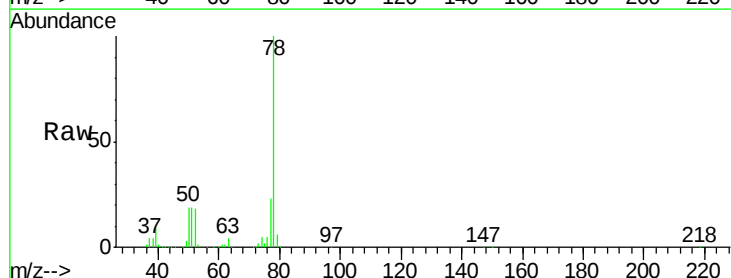
Manual Integrations
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#40
Benzene
Concen: 51.114 ug/l
RT: 4.63 min Scan# 405
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6





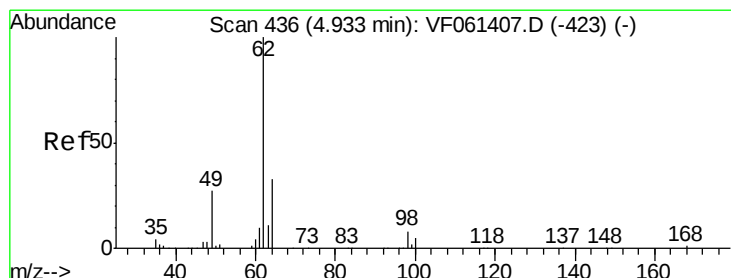
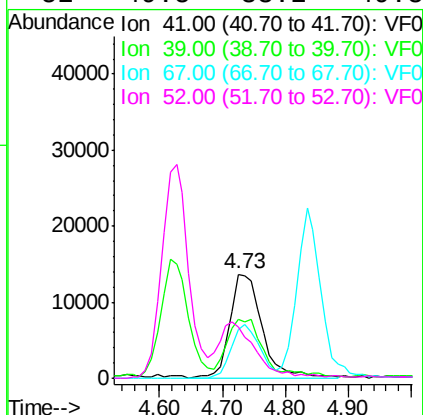
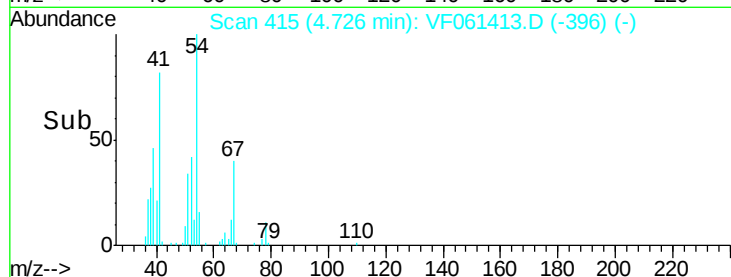
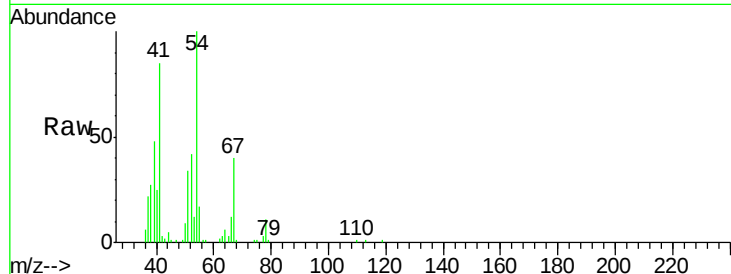
#41
Methacrylonitrile
Concen: 53.542 ug/l
RT: 4.73 min Scan# 415
Delta R.T. -0.01 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		48658		
39	56.7	43.1	64.7		
67	47.3	38.8	58.2		
52	49.5	33.2	49.8		

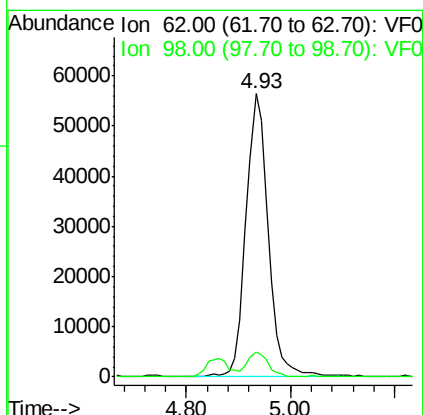
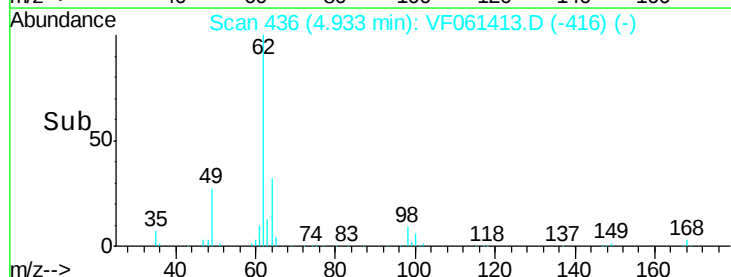
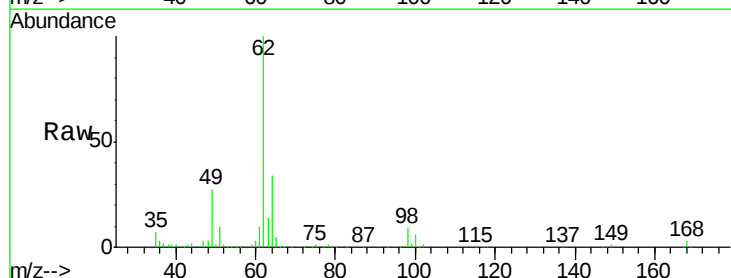
Manual Integrations
APPROVED

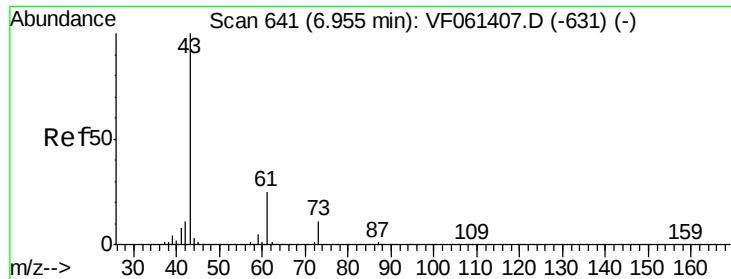
MMDadoda
1/17/2019 1:23:40 PM



#42
1,2-Dichloroethane
Concen: 47.792 ug/l
RT: 4.93 min Scan# 436
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		161912		
98	9.0	0.0	17.0		





#43

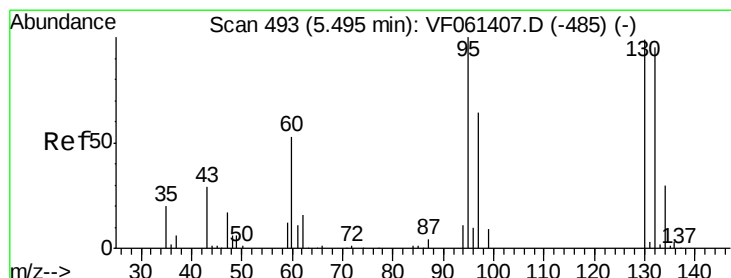
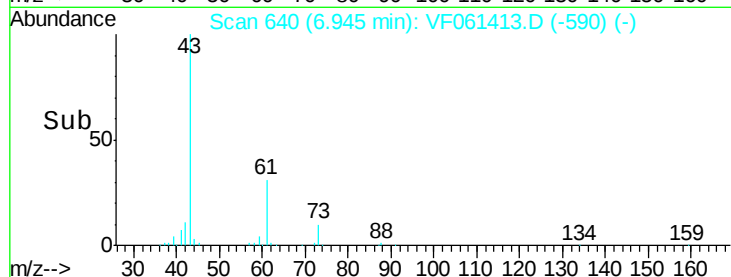
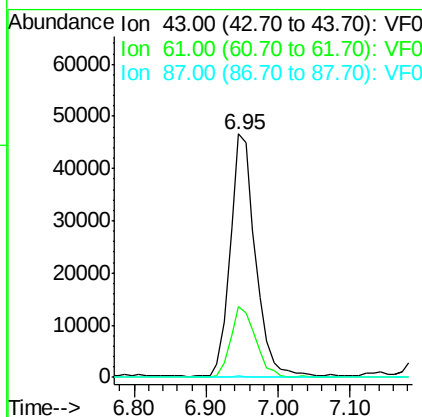
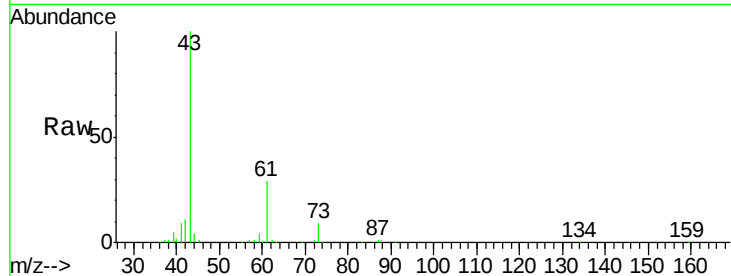
Isopropyl Acetate
 Concen: 53.498 ug/l
 RT: 6.95 min Scan# 640
 Delta R.T. -0.01 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.2	20.3	30.5
87	0.5	0.5	0.7

Manual Integrations
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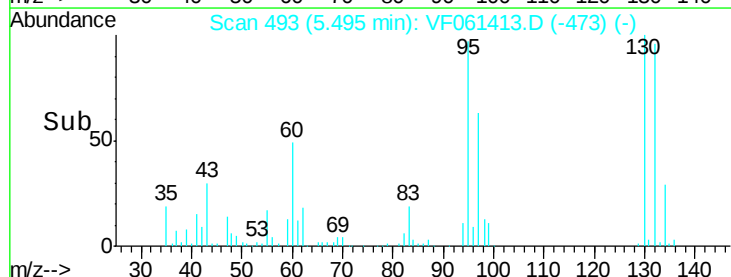
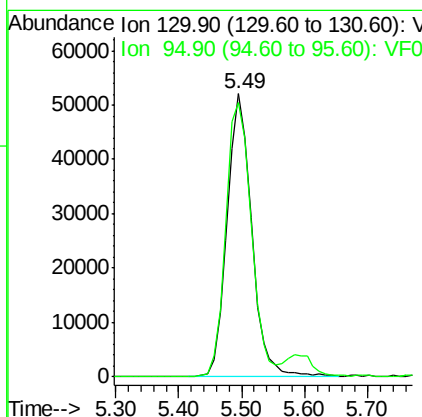
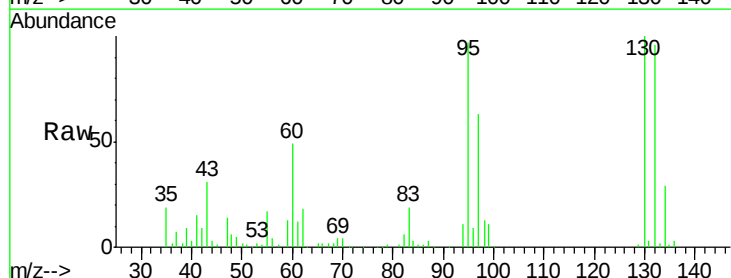
MMDadoda
 1/17/2019 1:23:40 PM

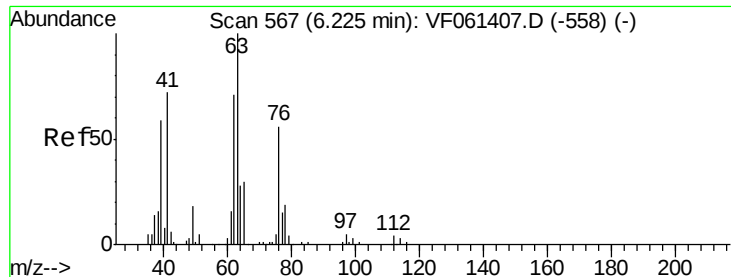


#44

Trichloroethene
 Concen: 48.328 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. 0.00 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.0	0.0	202.8





#45

1,2-Dichloropropane

Concen: 50.973 ug/l

RT: 6.22 min Scan# 567

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 127190

Ion Ratio Lower Upper

63 100

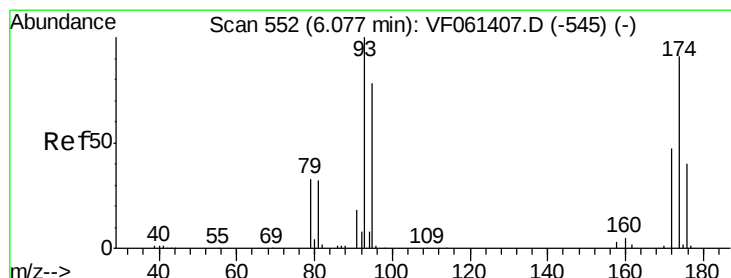
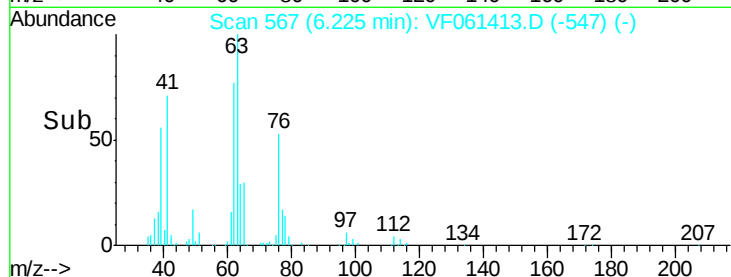
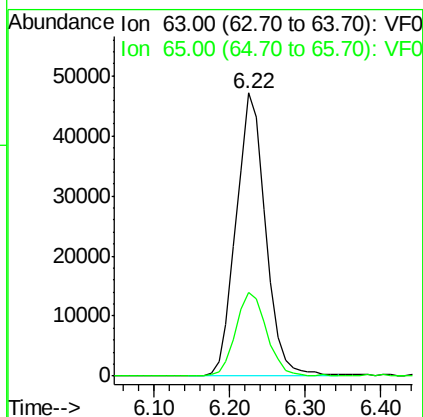
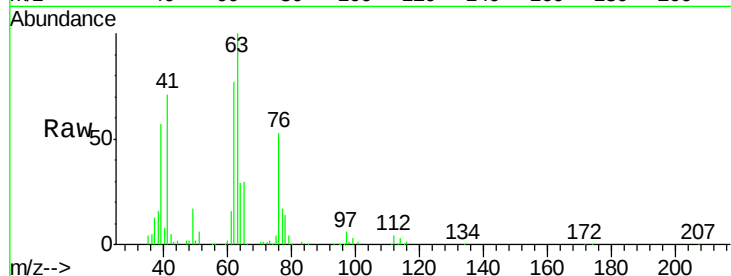
65 29.6 24.4 36.6

Manual Integrations

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#46

Dibromomethane

Concen: 49.802 ug/l

RT: 6.08 min Scan# 552

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

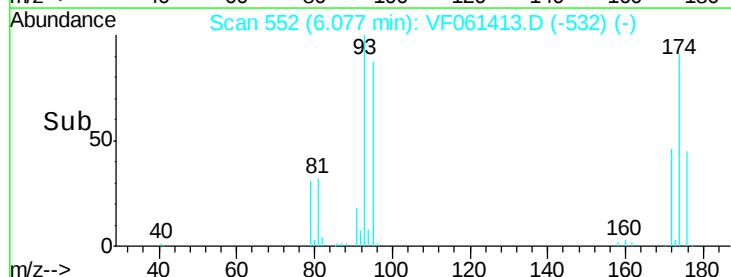
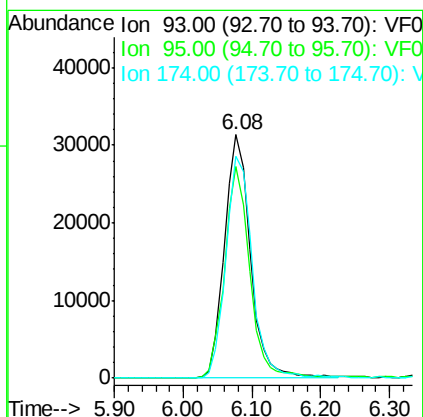
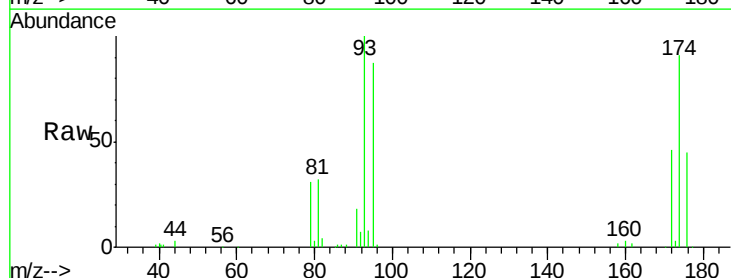
Tgt Ion: 93 Resp: 82629

Ion Ratio Lower Upper

93 100

95 87.2 62.1 93.1

174 91.0 74.6 111.8





#47

Bromodichloromethane

Concen: 50.290 ug/l

RT: 6.37 min Scan# 582

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

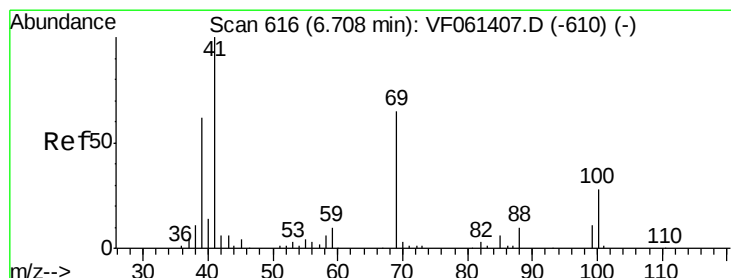
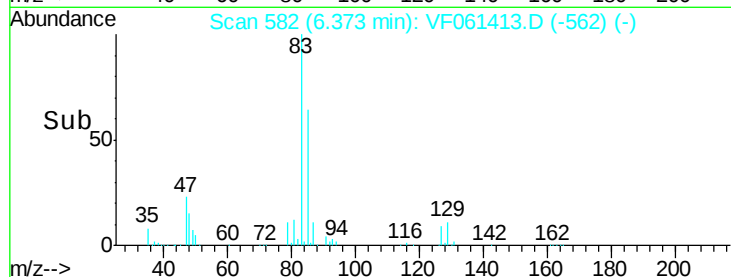
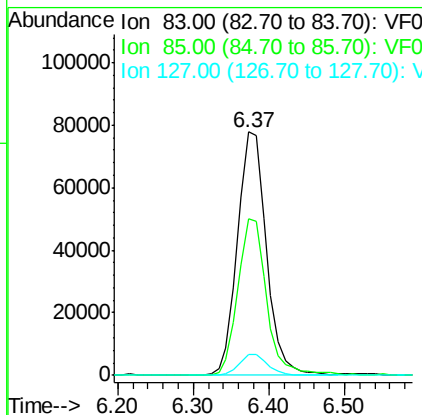
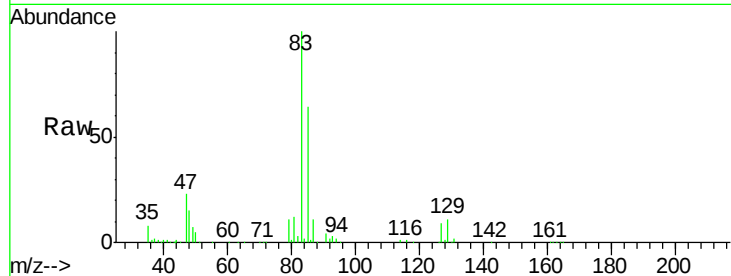
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	206444
Ion Ratio	Lower	Upper	
83	100		
85	64.3	53.0	79.4
127	8.8	6.9	10.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 55.929 ug/l

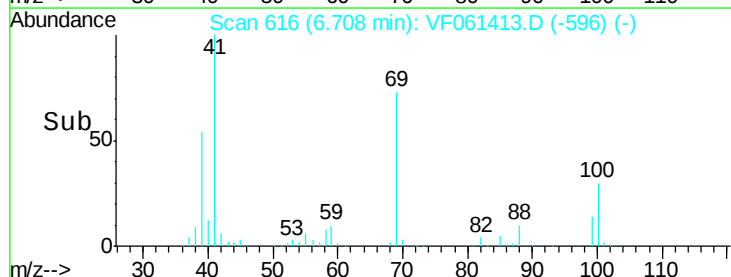
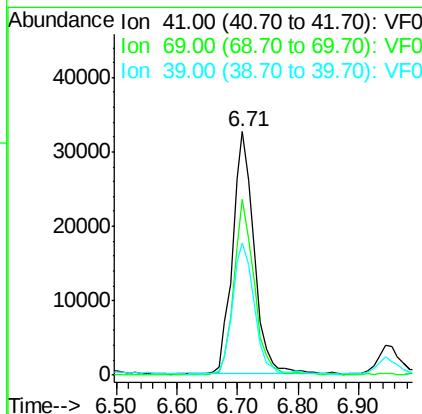
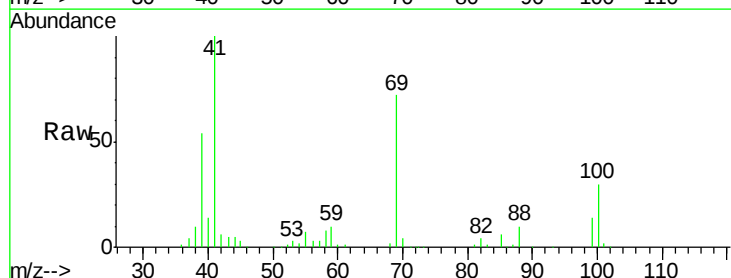
RT: 6.71 min Scan# 616

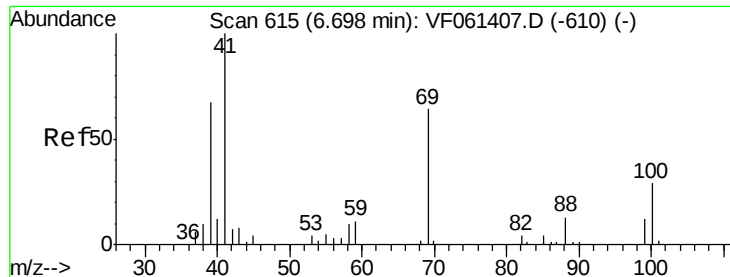
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	41	Resp:	80504
Ion Ratio	Lower	Upper	
41	100		
69	72.2	51.7	77.5
39	54.5	49.2	73.8





#49

1,4-Dioxane

Concen: 1128.605 ug/l

RT: 6.70 min Scan# 615

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

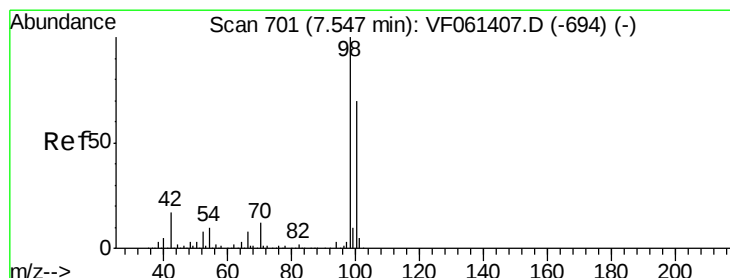
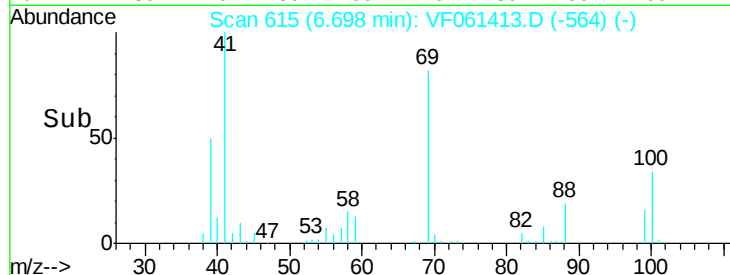
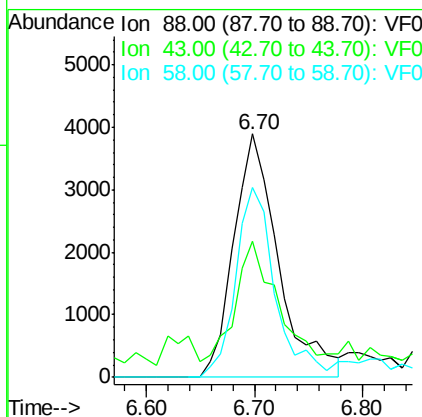
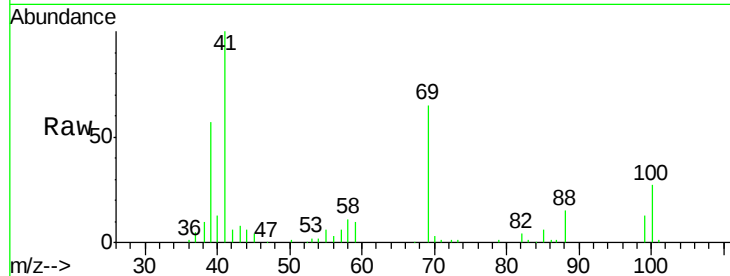
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	11250
Ion	Ratio	Lower	Upper
88	100		
43	56.0	55.5	83.3
58	77.9	59.9	89.9

Manual Integrations
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#50

Toluene-d8

Concen: 54.543 ug/l

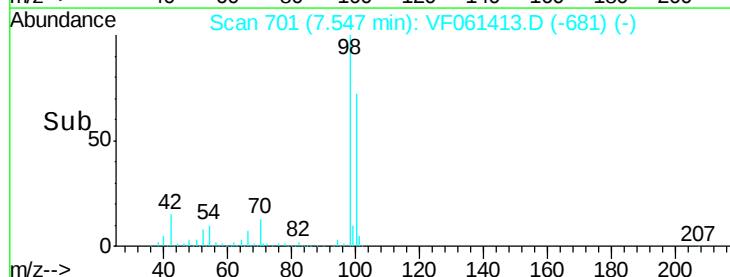
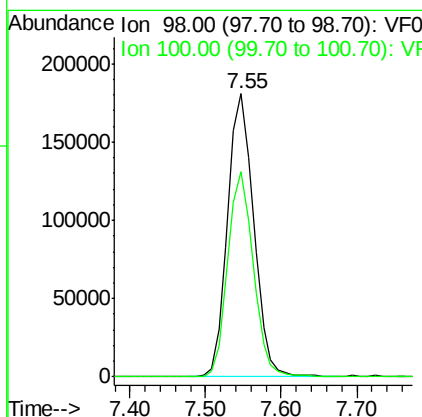
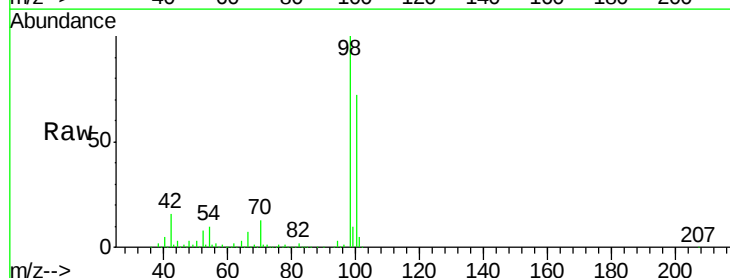
RT: 7.55 min Scan# 701

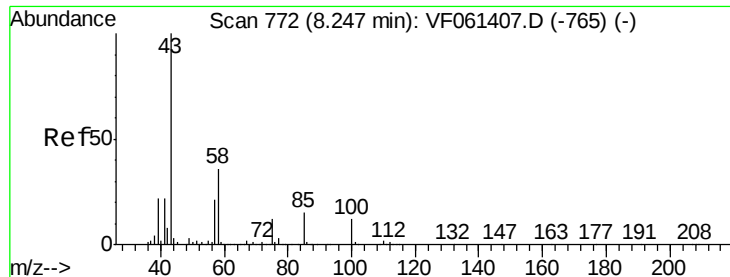
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	98	Resp:	434539
Ion	Ratio	Lower	Upper
98	100		
100	72.5	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 252.208 ug/l

RT: 8.25 min Scan# 772

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 397438

Ion Ratio Lower Upper

43 100

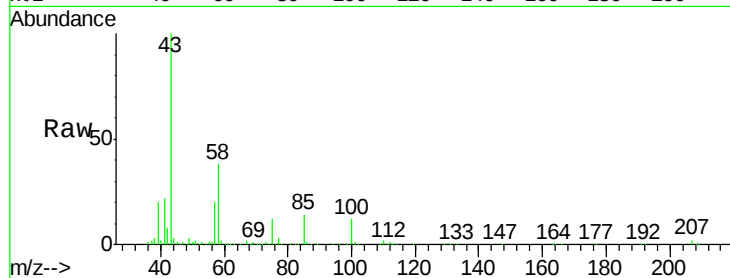
58 37.7 28.8 43.2

Manual Integrations

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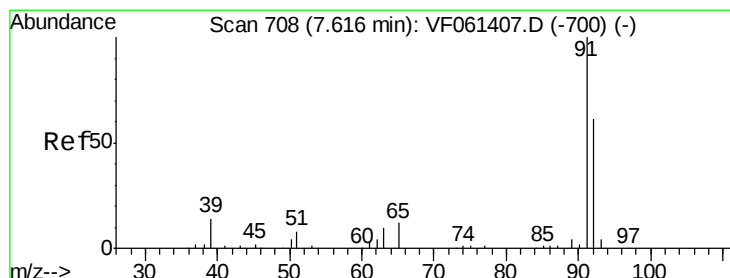
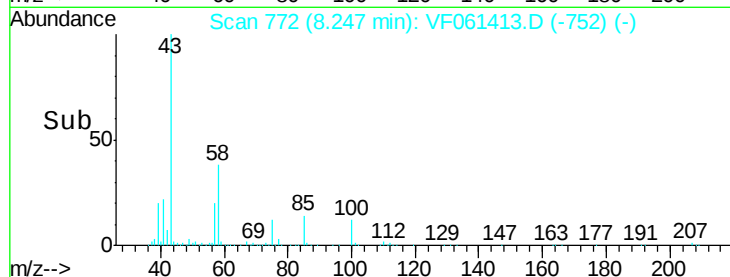
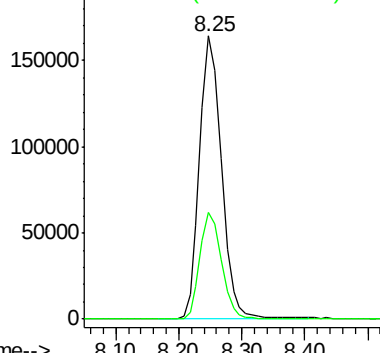
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 50.702 ug/l

RT: 7.62 min Scan# 708

Delta R.T. 0.00 min

Lab File: VF061413.D

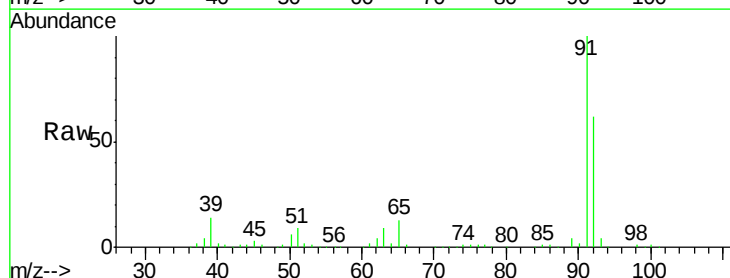
Acq: 16 Jan 2019 15:35

Tgt Ion: 92 Resp: 317441

Ion Ratio Lower Upper

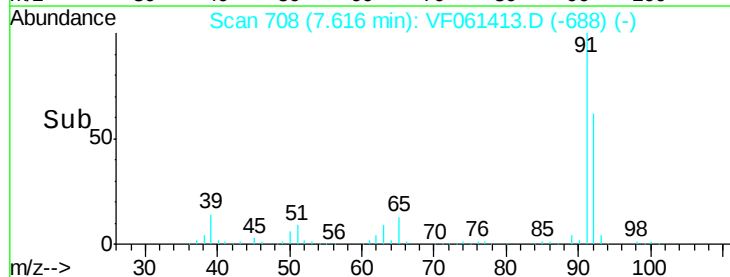
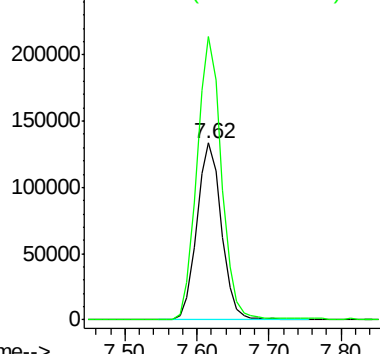
92 100

91 160.4 131.2 196.8



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: 51.417 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 167603

Ion Ratio Lower Upper

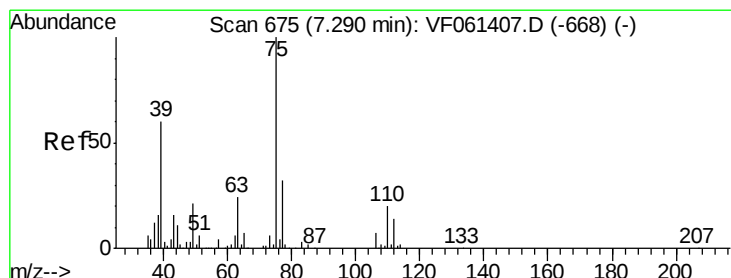
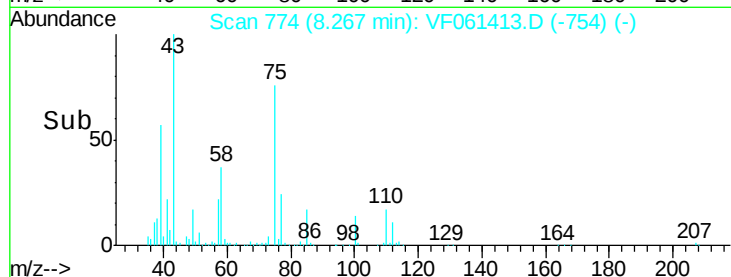
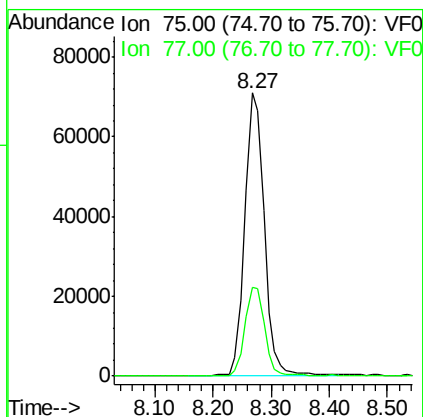
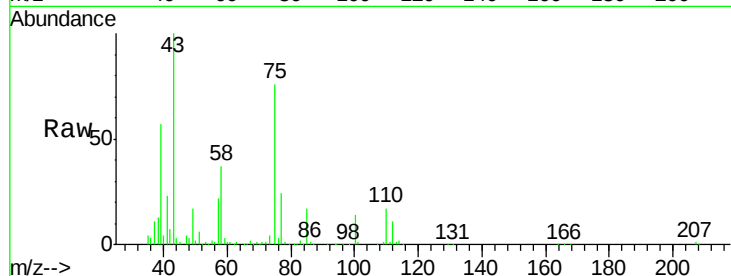
75 100

77 31.5 24.4 36.6

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 51.199 ug/l

RT: 7.29 min Scan# 675

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

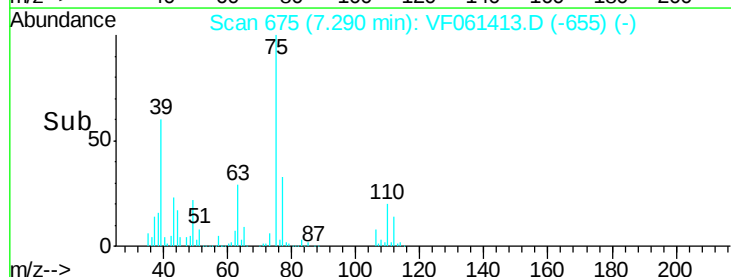
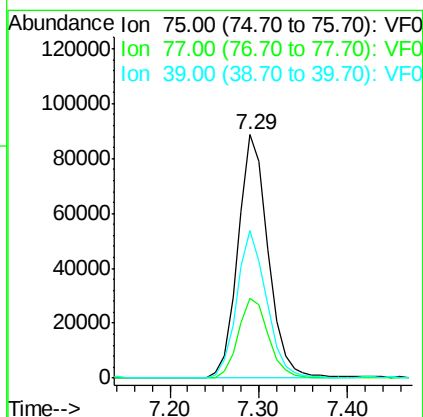
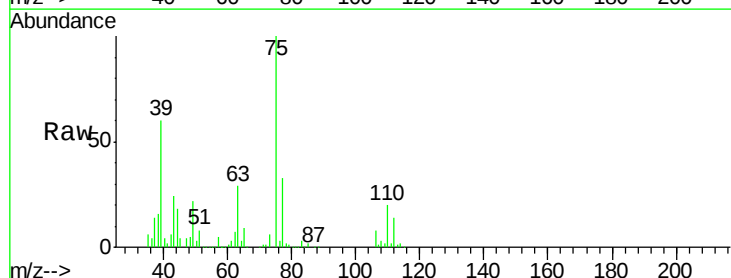
Tgt Ion: 75 Resp: 208612

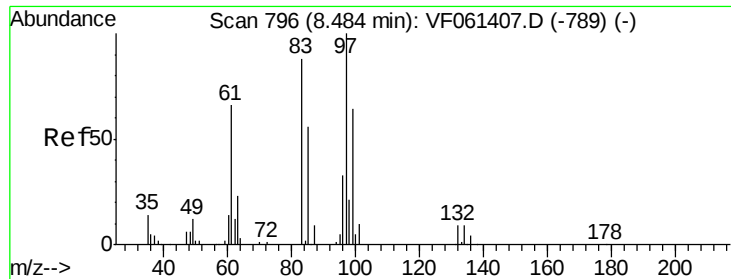
Ion Ratio Lower Upper

75 100

77 32.8 25.4 38.0

39 60.5 47.8 71.8





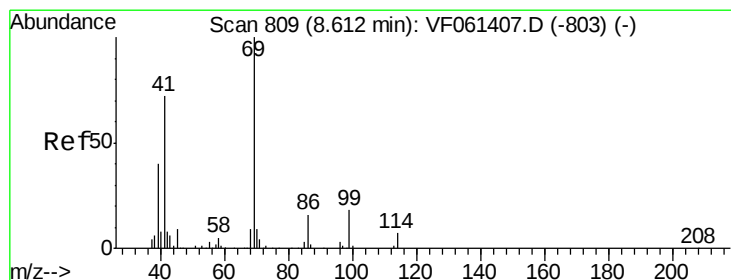
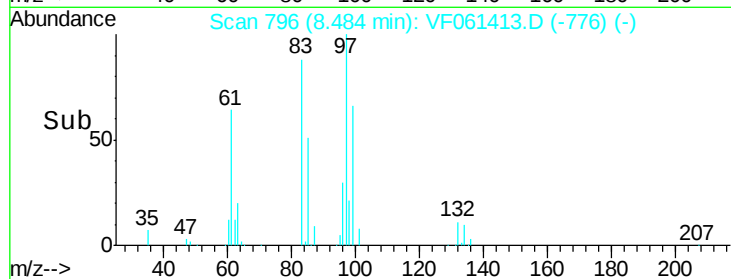
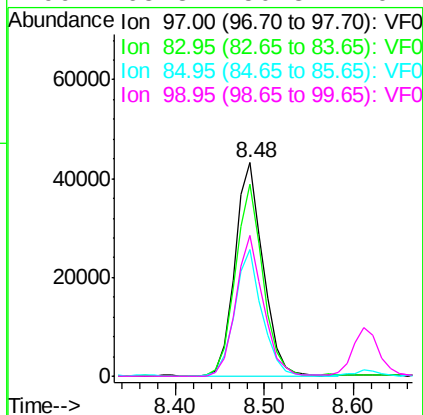
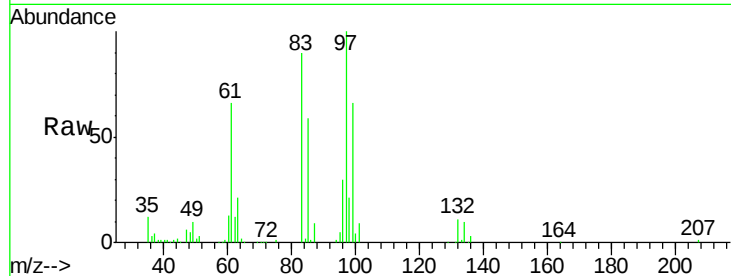
#55
 1,1,2-Trichloroethane
 Concen: 53.777 ug/l
 RT: 8.48 min Scan# 796
 Delta R.T. 0.00 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	95610
Ion	Ratio	Lower	Upper
97	100		
83	89.8	70.4	105.6
85	59.1	44.7	67.1
99	65.8	50.8	76.2

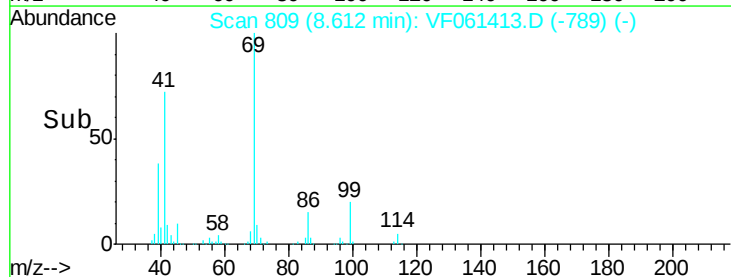
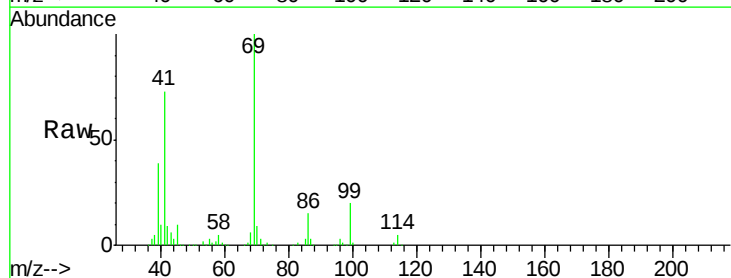
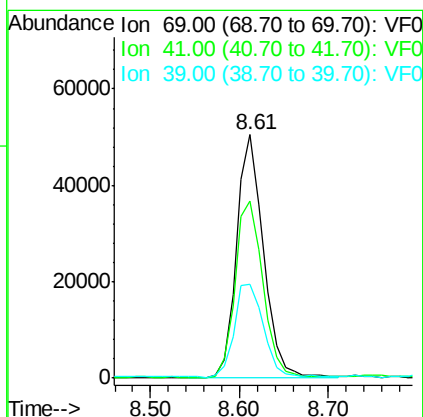
Manual Integrations
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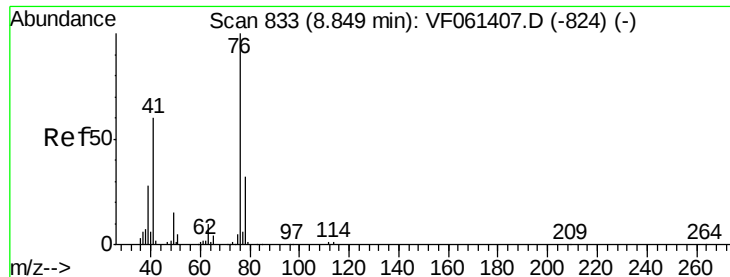
MMDadoda
 1/17/2019 1:23:40 PM



#56
 Ethyl methacrylate
 Concen: 51.572 ug/l
 RT: 8.61 min Scan# 809
 Delta R.T. 0.00 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Tgt Ion:	69	Resp:	106676
Ion	Ratio	Lower	Upper
69	100		
41	72.6	57.5	86.3
39	38.6	32.0	48.0





#57

1,3-Dichloropropane

Concen: 49.605 ug/l

RT: 8.85 min Scan# 833

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 165308

Ion Ratio Lower Upper

76 100

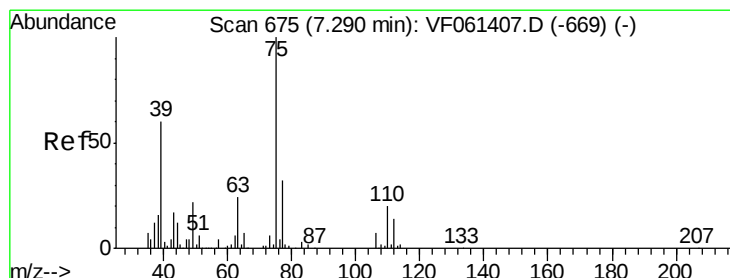
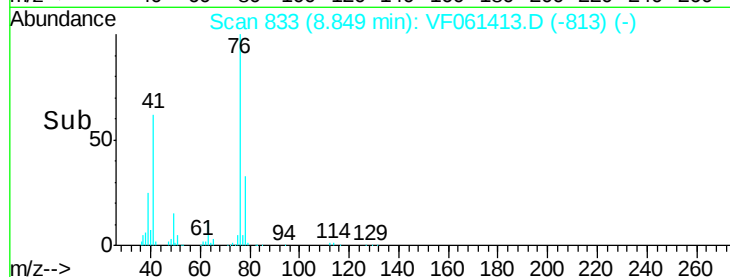
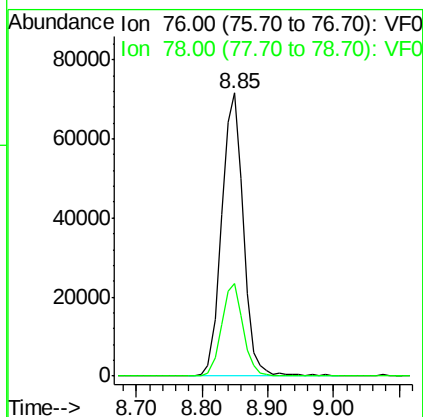
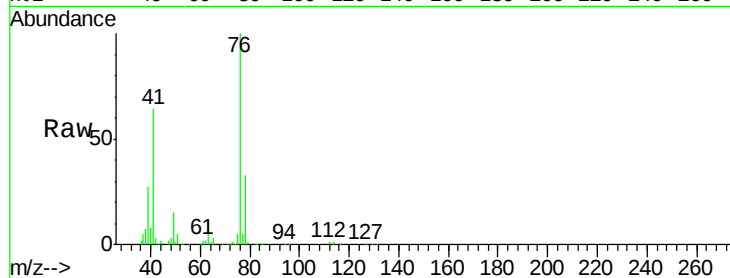
78 32.5 25.3 37.9

Manual Integrations

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1/17/2019 1:23:40 PM



#58

2-Chloroethyl Vinyl ether

Concen: 273.016 ug/l

RT: 7.29 min Scan# 675

Delta R.T. 0.00 min

Lab File: VF061413.D

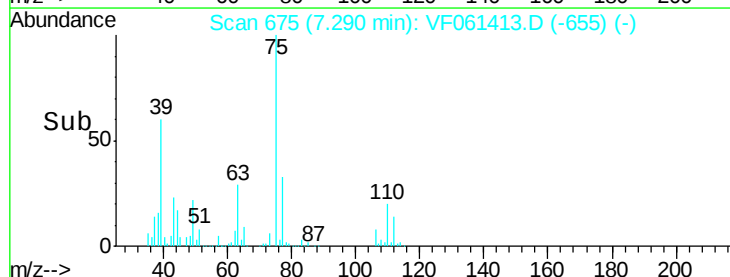
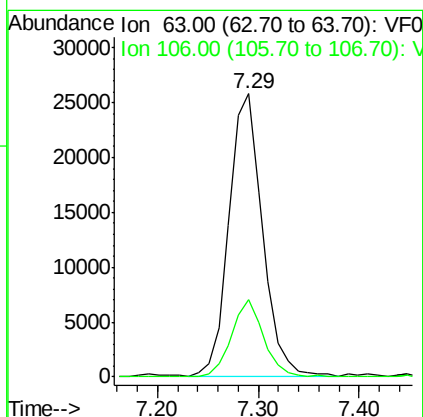
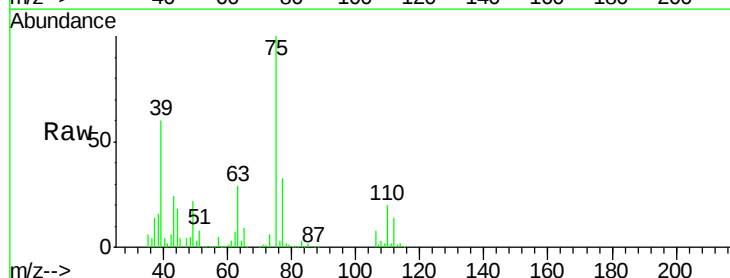
Acq: 16 Jan 2019 15:35

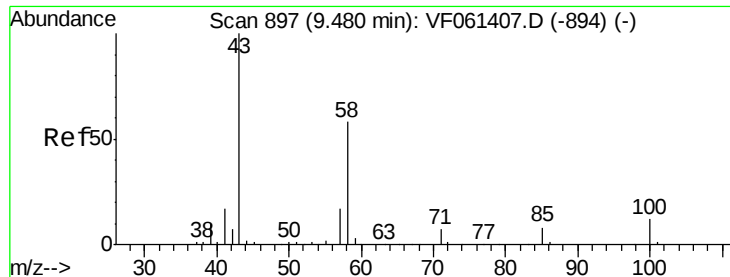
Tgt Ion: 63 Resp: 59836

Ion Ratio Lower Upper

63 100

106 27.5 21.9 32.9





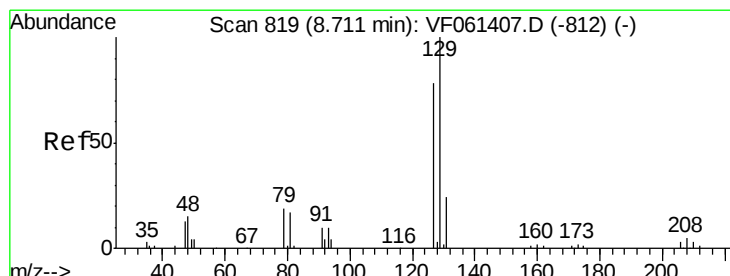
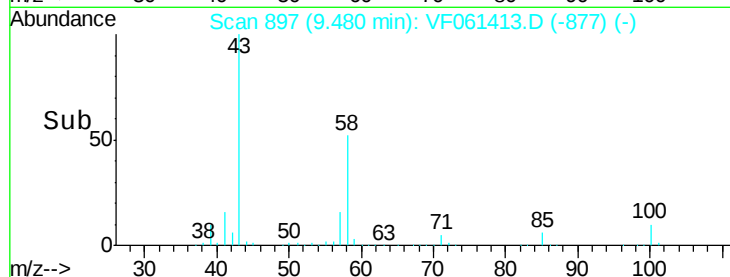
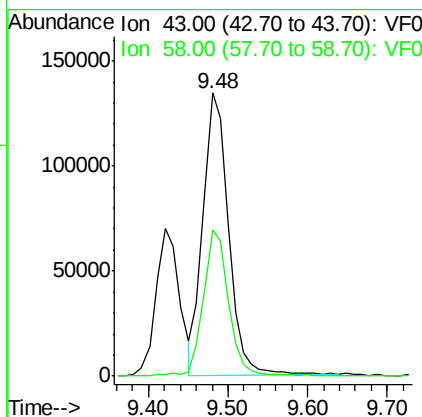
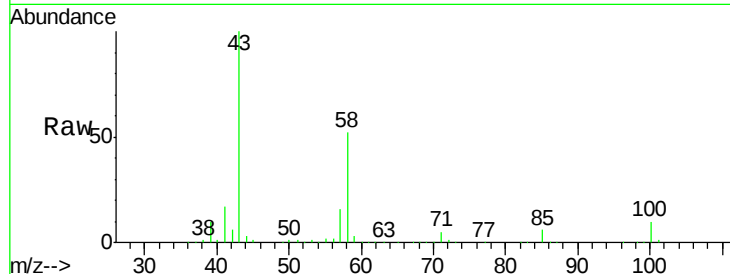
#59
2-Hexanone
Concen: 271.740 ug/l
RT: 9.48 min Scan# 897
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 298605
Ion Ratio Lower Upper
43 100
58 51.8 25.9 77.6

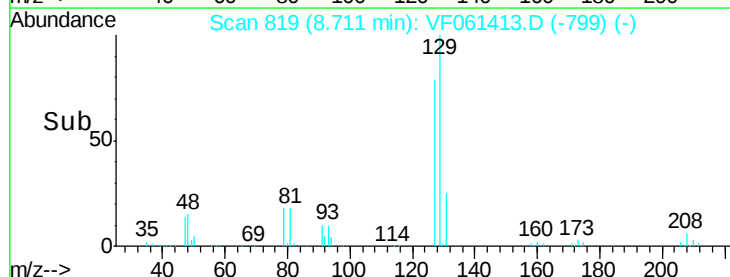
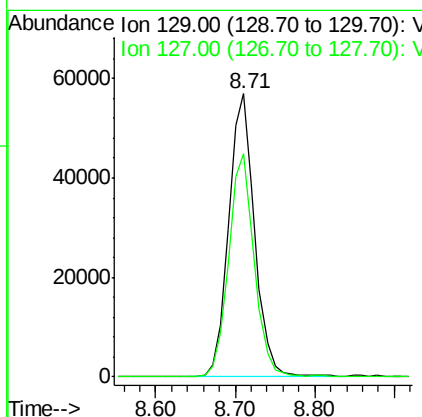
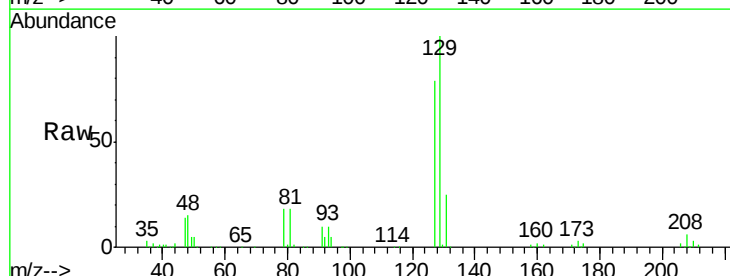
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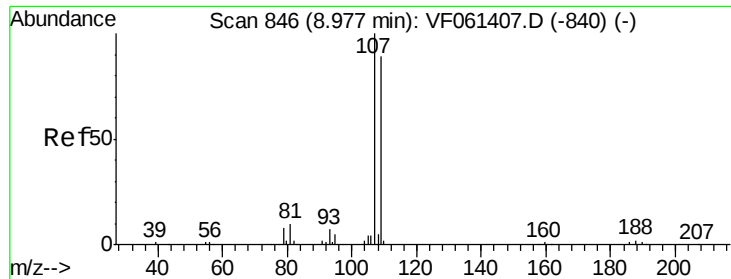
MMDadoda
1/17/2019 1:23:40 PM



#60
Dibromochloromethane
Concen: 50.011 ug/l
RT: 8.71 min Scan# 819
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion: 129 Resp: 129989
Ion Ratio Lower Upper
129 100
127 79.0 39.1 117.2





#61

1,2-Dibromoethane

Concen: 49.606 ug/l

RT: 8.98 min Scan# 846

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 100965

Ion Ratio Lower Upper

107 100

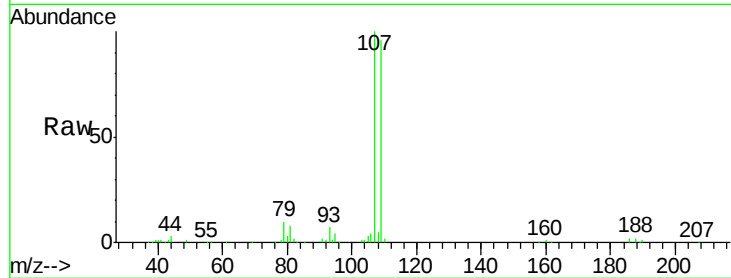
109 95.9 70.8 106.2

Manual Integrations

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.98

50000

40000

30000

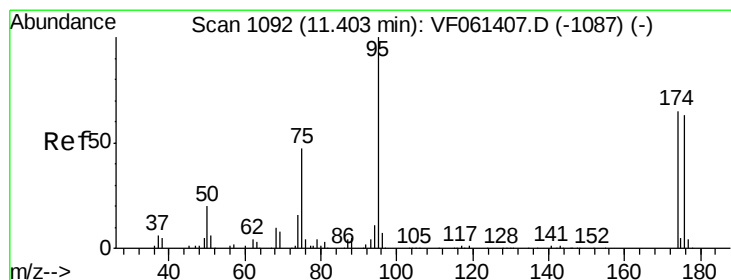
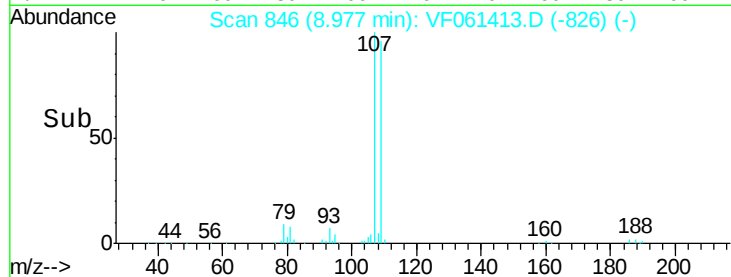
20000

10000

0

Time-->

8.90 9.00 9.10



#62

4-Bromofluorobenzene

Concen: 48.381 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

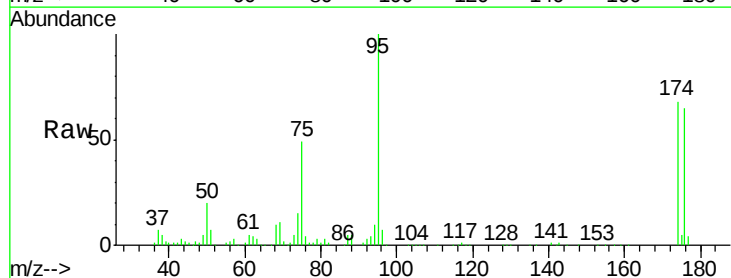
Tgt Ion: 95 Resp: 180089

Ion Ratio Lower Upper

95 100

174 68.2 0.0 130.4

176 64.9 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.40

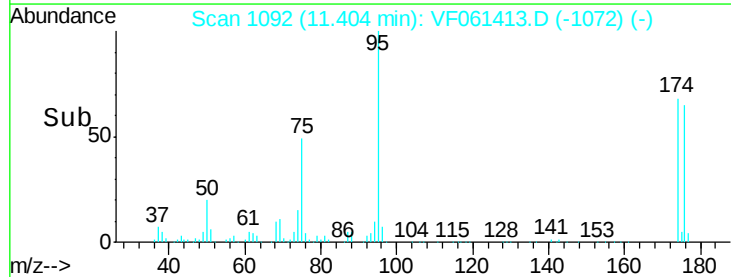
100000

50000

0

Time-->

11.30 11.40 11.50 11.60





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

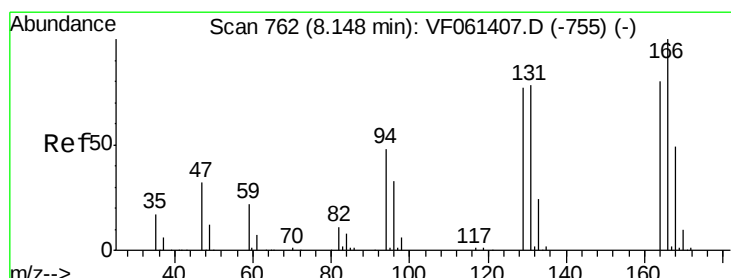
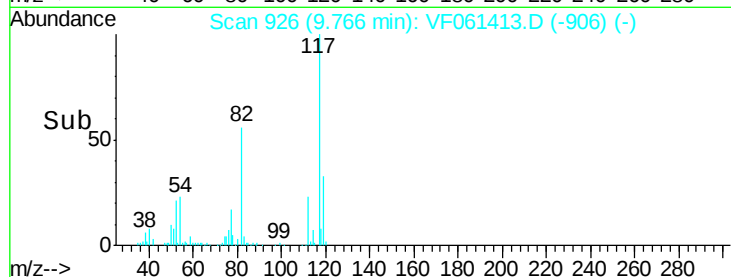
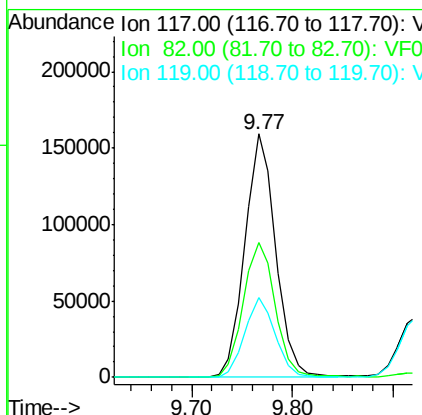
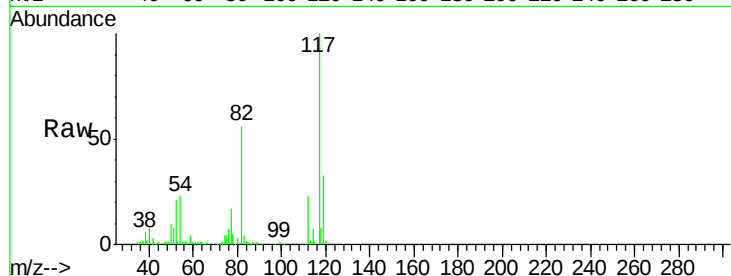
ClientSampleId :

VSTDCCC050

Tot Ion:	117	Resp:	341324
Ion Ratio	Lower	Upper	
117	100		
82	55.6	46.4	69.6
119	32.7	27.2	40.8

Manual Integrations
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#64

Tetrachloroethene

Concen: 49.632 ug/l

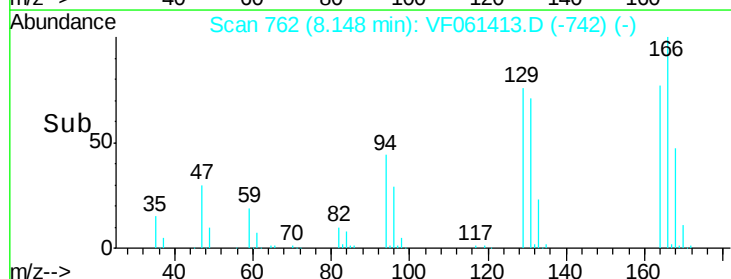
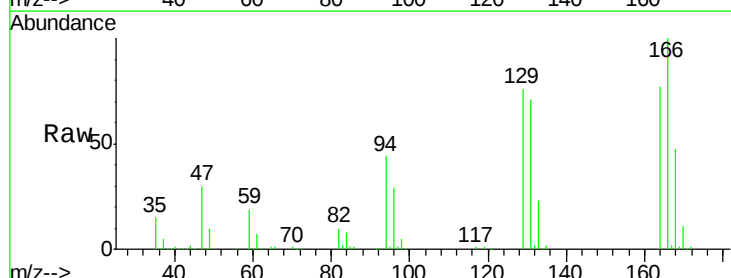
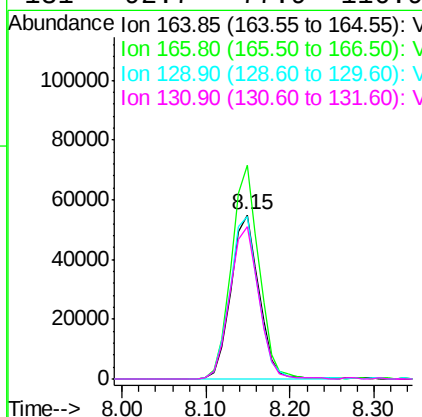
RT: 8.15 min Scan# 762

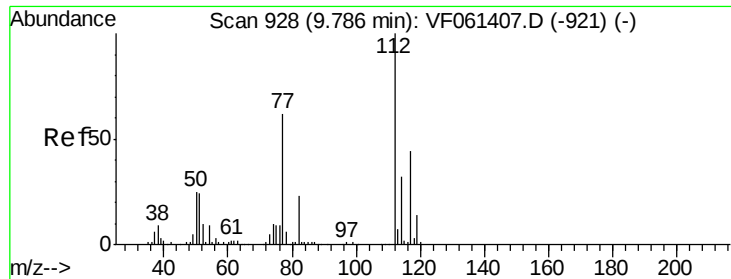
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	164	Resp:	127396
Ion Ratio	Lower	Upper	
164	100		
166	130.2	99.6	149.4
129	99.1	76.4	114.6
131	92.7	77.9	116.9





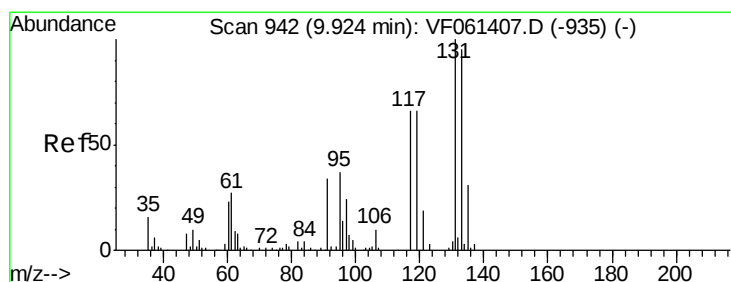
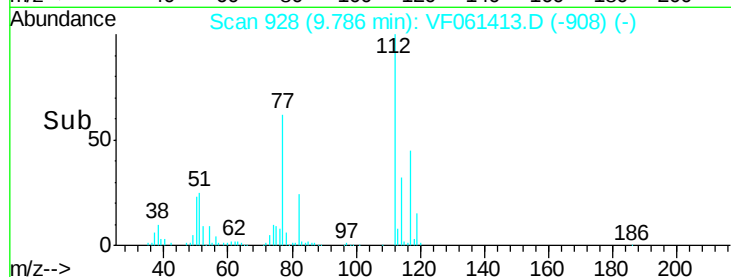
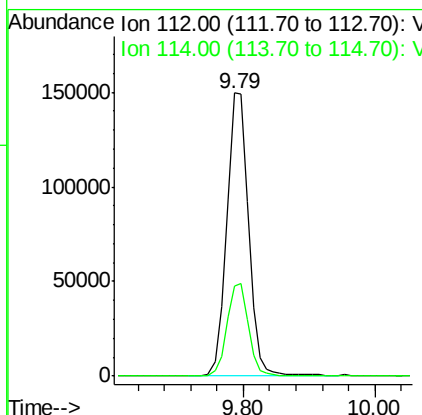
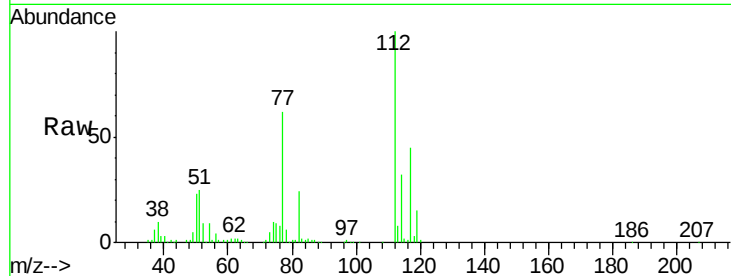
#65
Chlorobenzene
Concen: 50.383 ug/l
RT: 9.79 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
112	100	349712		
114	31.8	25.4	38.0	

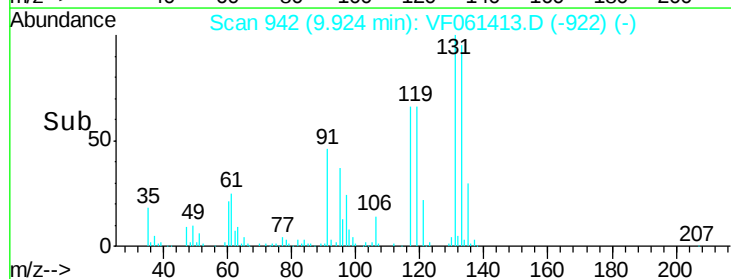
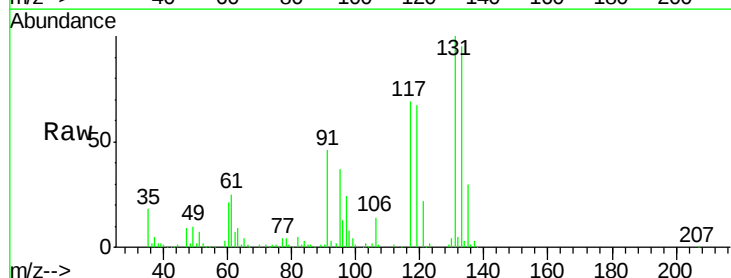
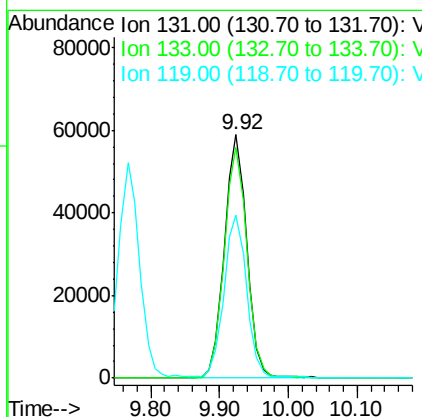
Manual Integrations
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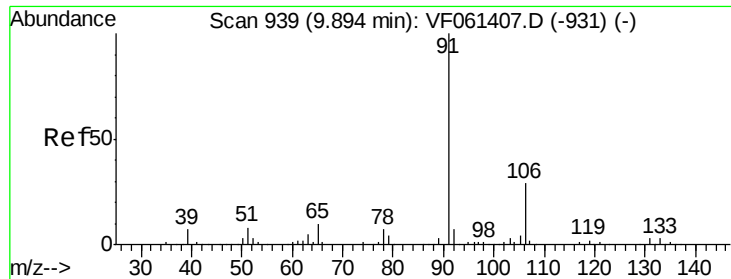
MMDadoda
1/17/2019 1:23:40 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 48.059 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	132886		
133	95.0	47.4	142.2	
119	66.7	33.1	99.3	





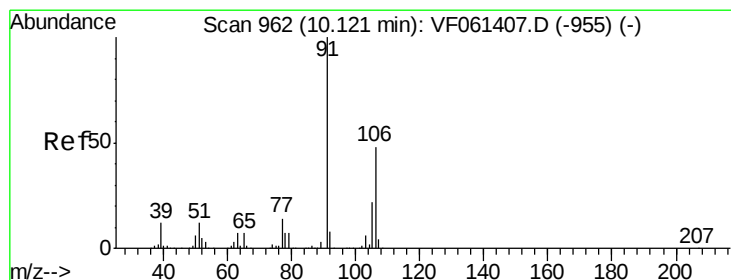
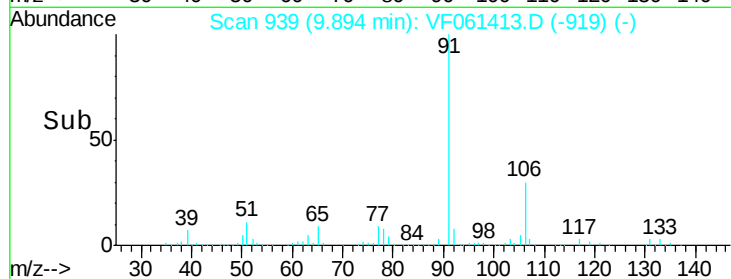
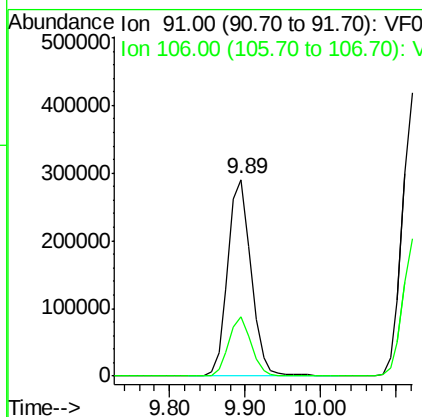
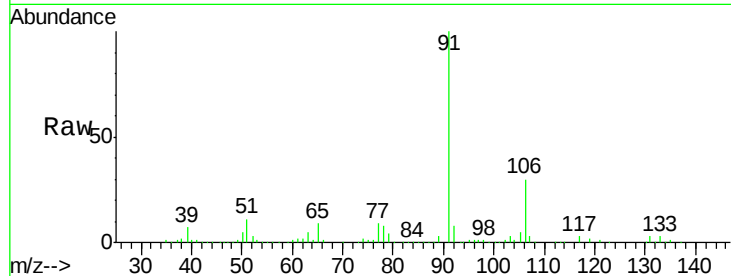
#67
Ethyl Benzene
Concen: 48.893 ug/l
RT: 9.89 min Scan# 939
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 620038
Ion Ratio Lower Upper
91 100
106 30.1 23.1 34.7

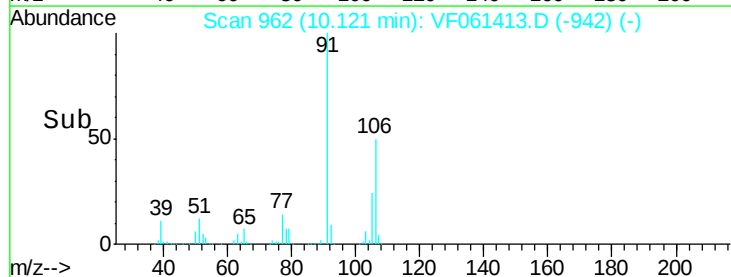
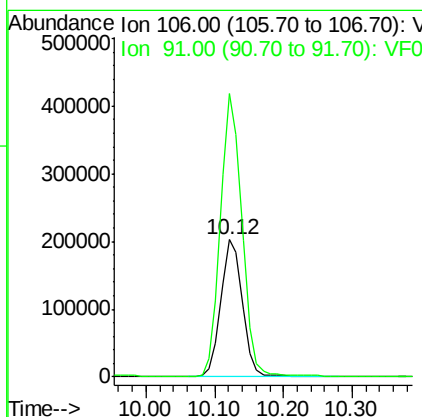
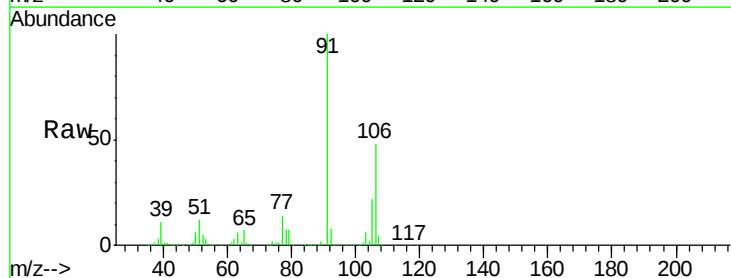
Manual Integrations
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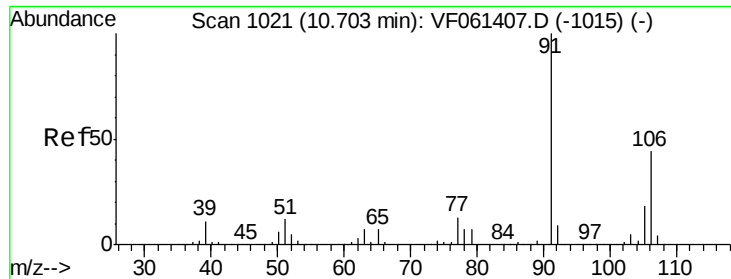
MMDadoda
1/17/2019 1:23:40 PM



#68
m/p-Xylenes
Concen: 97.077 ug/l
RT: 10.12 min Scan# 962
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion: 106 Resp: 442787
Ion Ratio Lower Upper
106 100
91 206.3 166.2 249.4





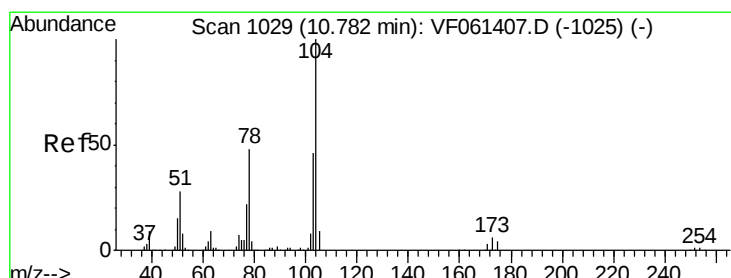
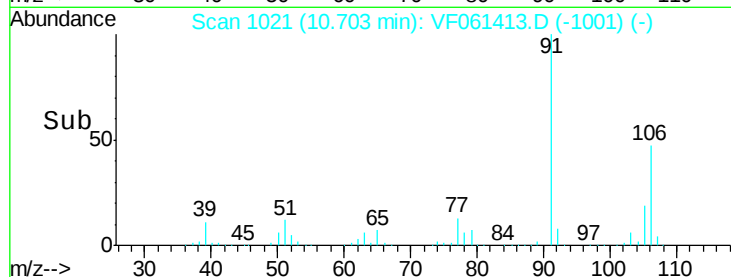
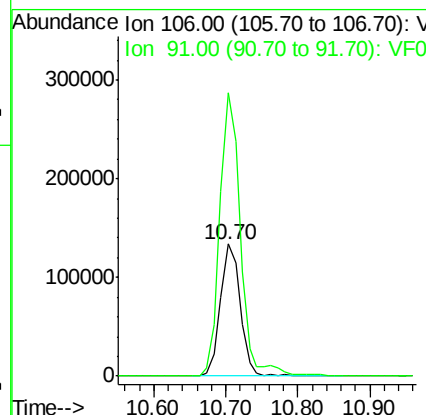
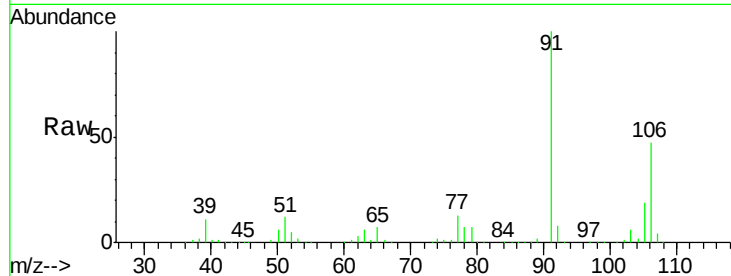
#69
o-Xylene
Concen: 51.642 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	213.9	113.3	255293	339.8	

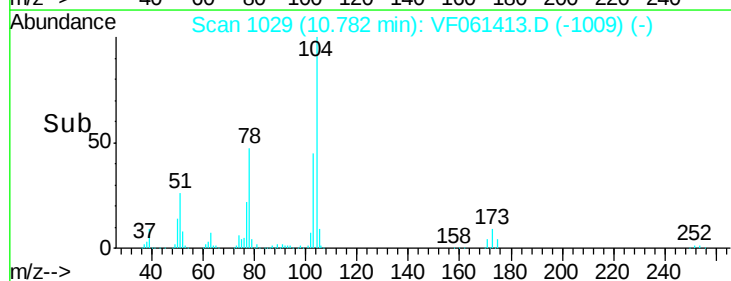
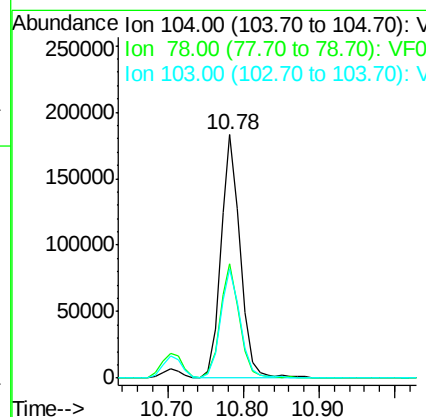
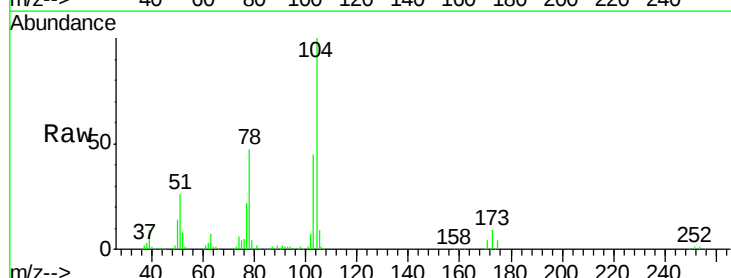
Manual Integrations
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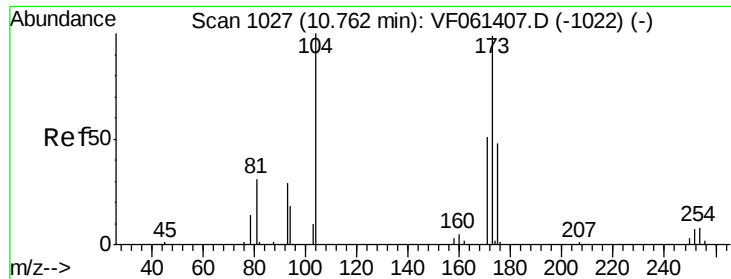
MMDadoda
1/17/2019 1:23:40 PM



#70
Styrene
Concen: 48.218 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	46.9	38.8	326281	58.2	
103	45.1	37.0		55.6	





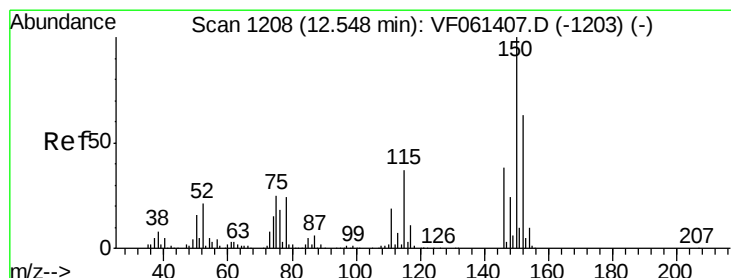
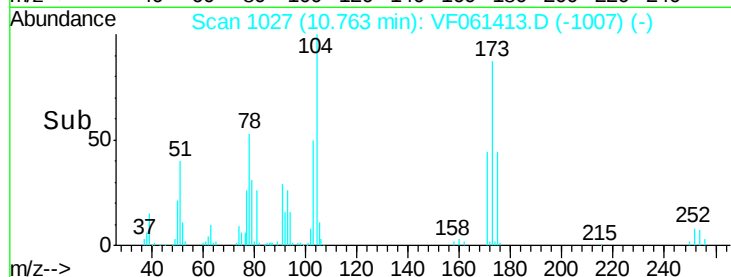
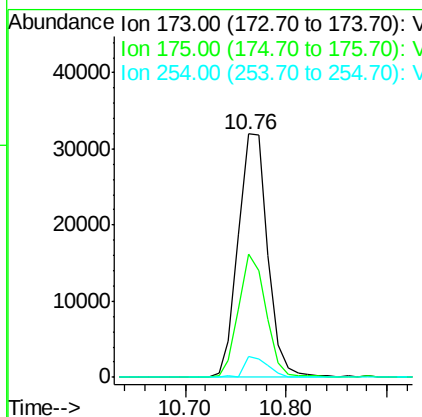
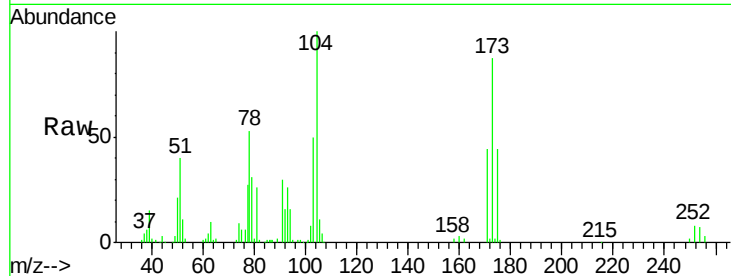
#71
Bromoform
Concen: 52.779 ug/l
RT: 10.76 min Scan# 1027
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.6	24.1	72.4
254	8.6	0.0	0.0#

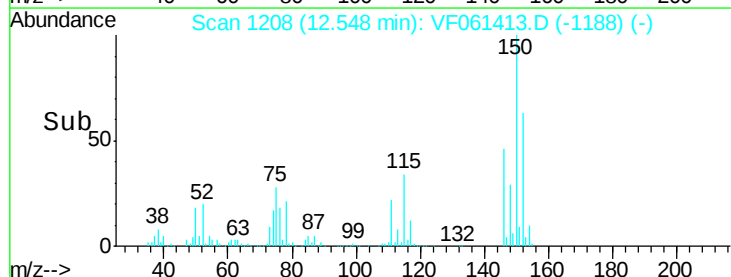
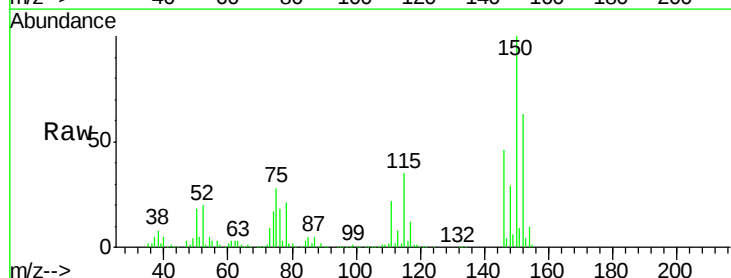
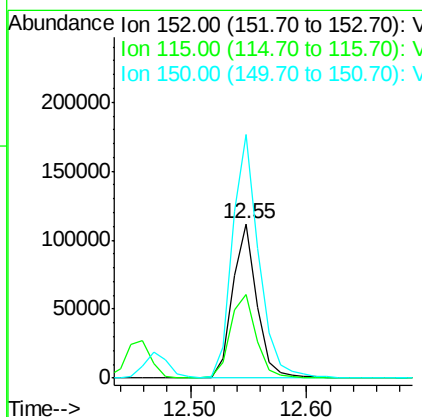
Manual Integrations
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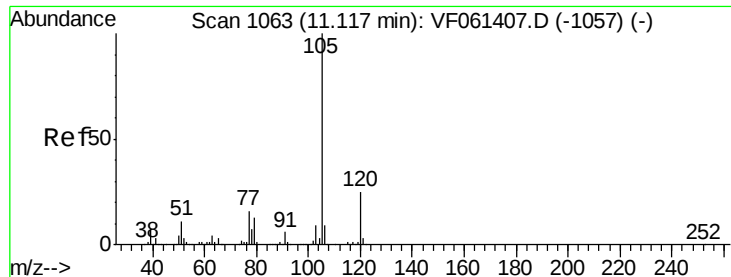
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.5	30.0	90.0
150	157.6	0.0	321.4





#73

Isopropylbenzene

Concen: 51.760 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 679576

Ion Ratio Lower Upper

105 100

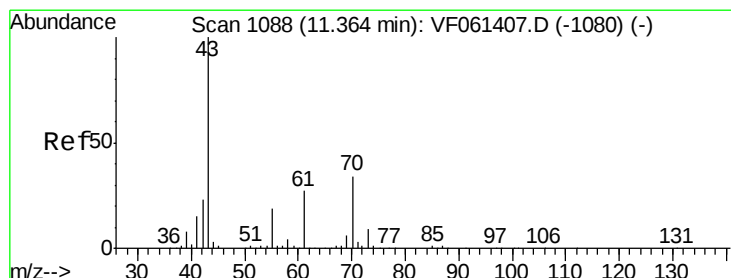
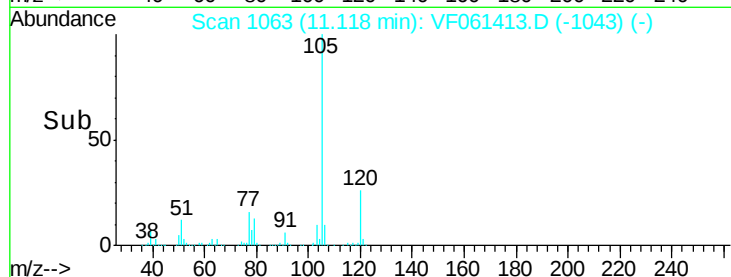
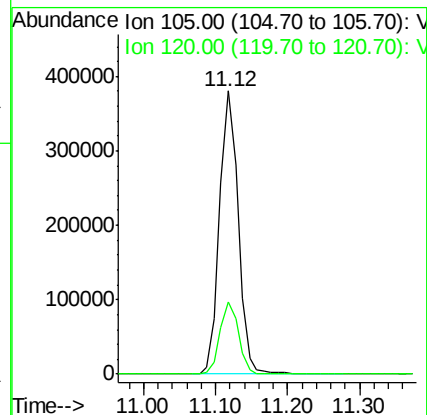
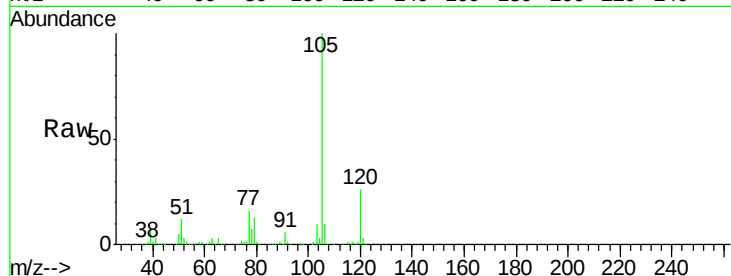
120 25.7 12.6 37.8

Manual Integrations

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#74

N-ethyl acetate

Concen: 57.076 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion: 43 Resp: 177202

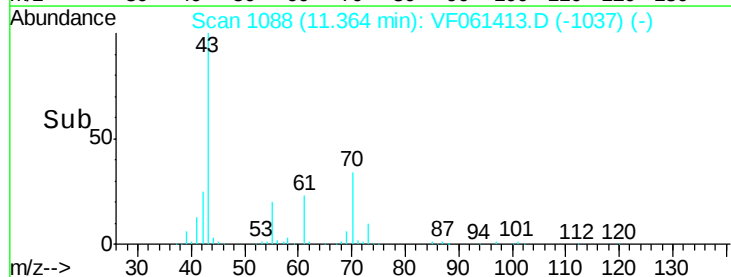
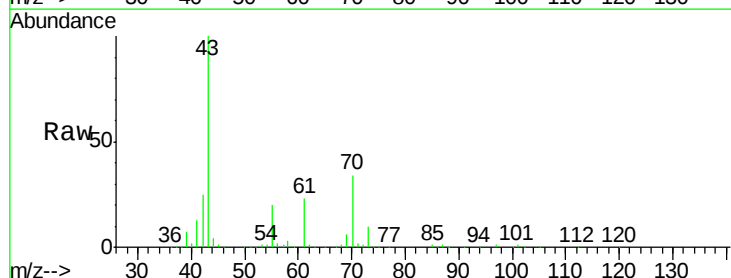
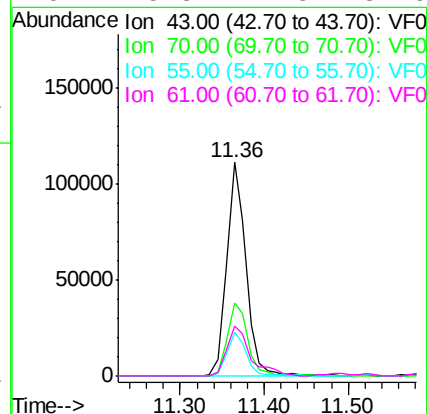
Ion Ratio Lower Upper

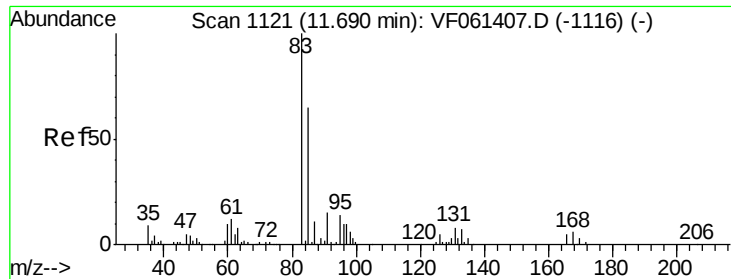
43 100

70 33.9 27.6 41.4

55 20.4 15.4 23.2

61 23.3 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 50.908 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

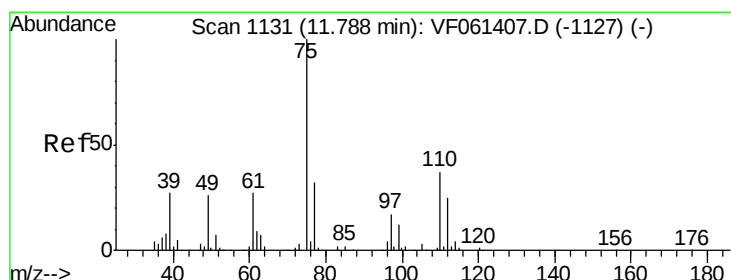
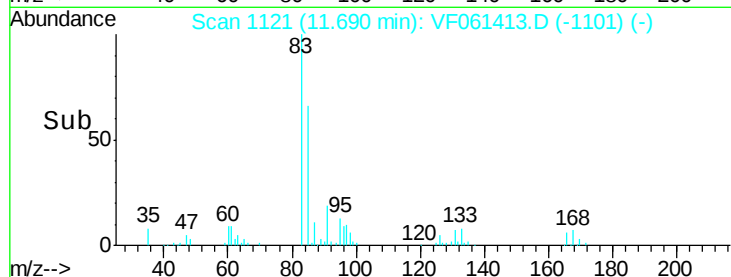
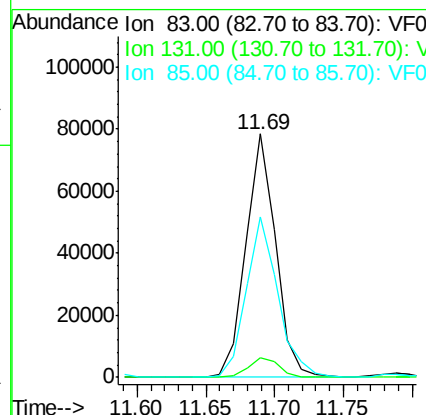
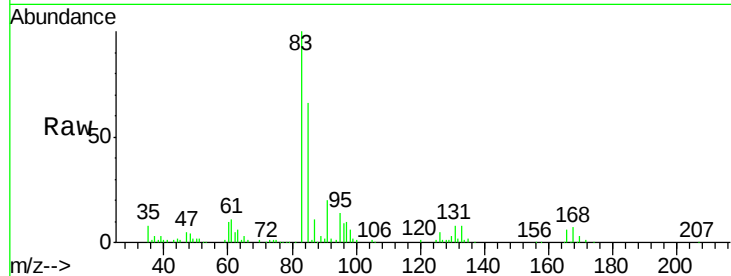
ClientSampleId :

VSTDCCC050

Tot Ion	83	Resp	119074
Ion	Ratio	Lower	Upper
83	100		
131	8.0	4.0	12.2
85	66.1	32.7	98.1

Manual Integrations
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1/17/2019 1:23:40 PM



#76

1,2,3-Trichloropropane

Concen: 50.055 ug/l

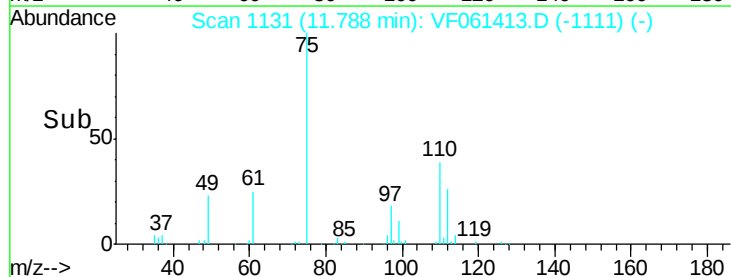
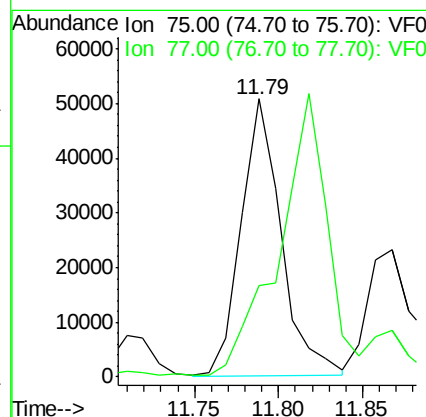
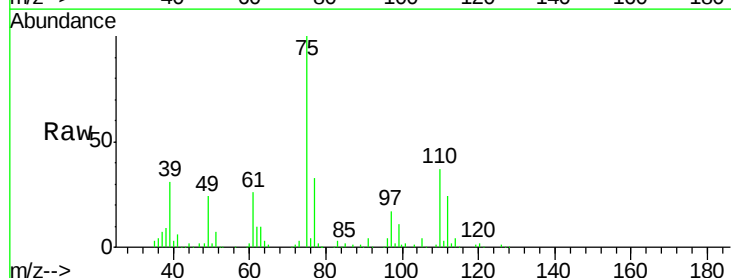
RT: 11.79 min Scan# 1131

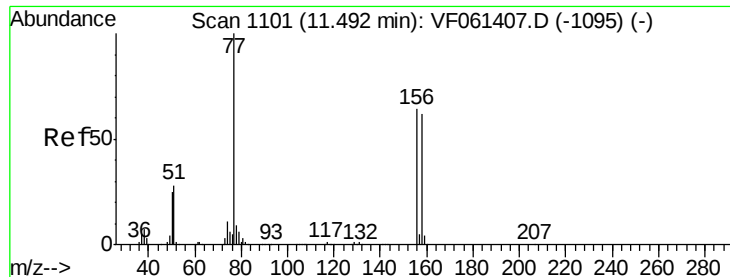
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion	75	Resp	84125
Ion	Ratio	Lower	Upper
75	100		
77	33.0	16.1	48.3





#77

Bromobenzene

Concen: 53.861 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

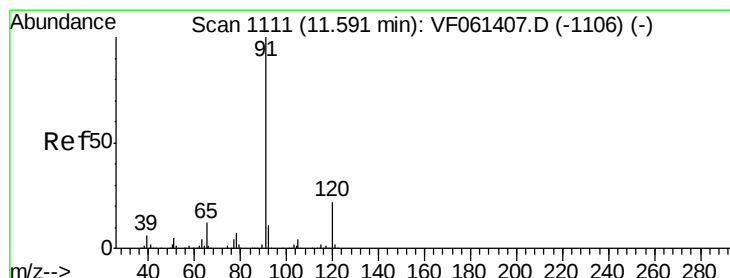
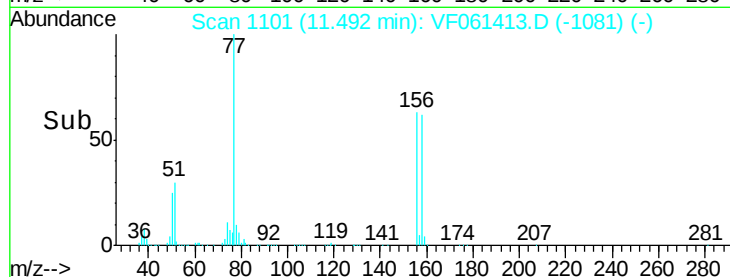
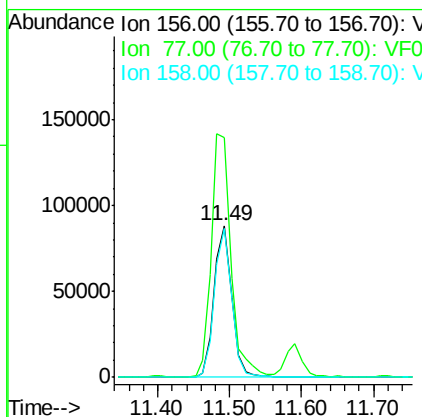
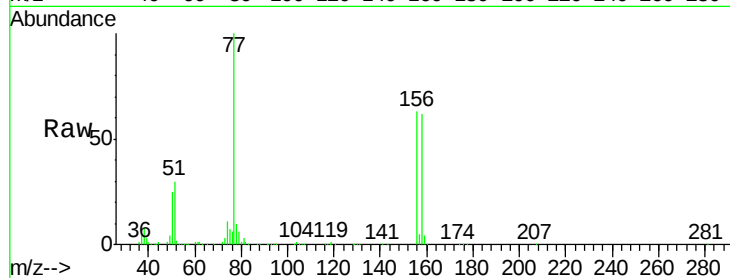
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	149346
Ion Ratio	Lower	Upper	
156	100		
77	158.4	78.3	234.9
158	98.5	48.9	146.7

Manual Integrations
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#78

n-propylbenzene

Concen: 48.001 ug/l

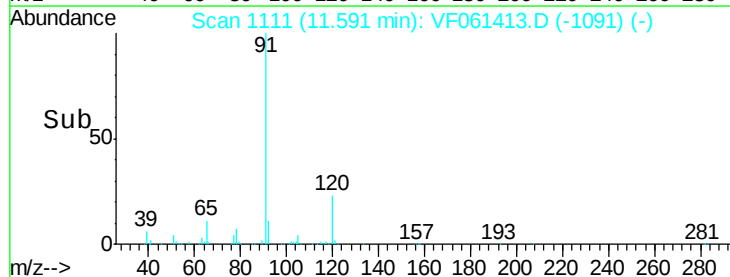
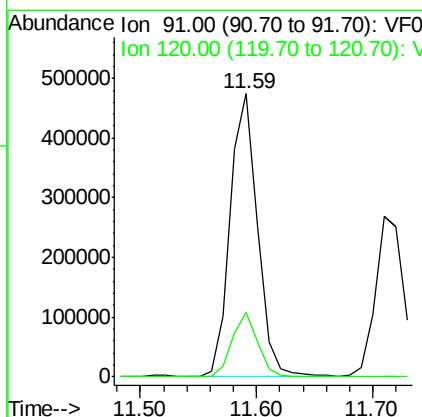
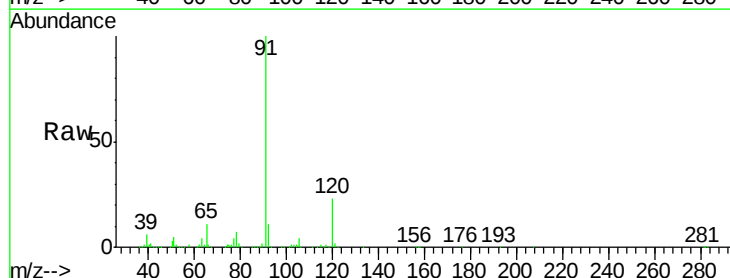
RT: 11.59 min Scan# 1111

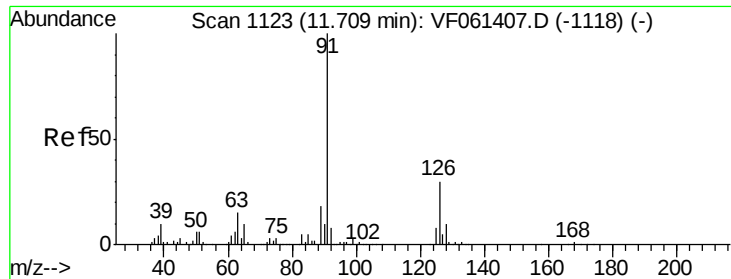
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	91	Resp:	771393
Ion Ratio	Lower	Upper	
91	100		
120	22.9	10.9	32.6





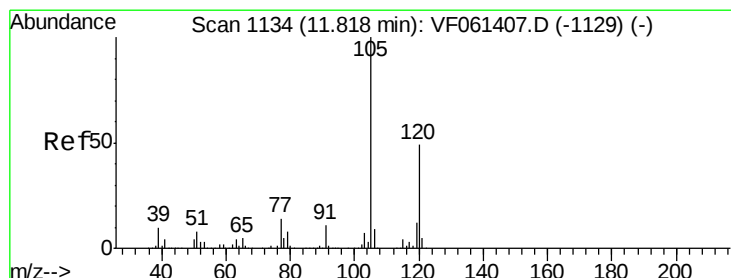
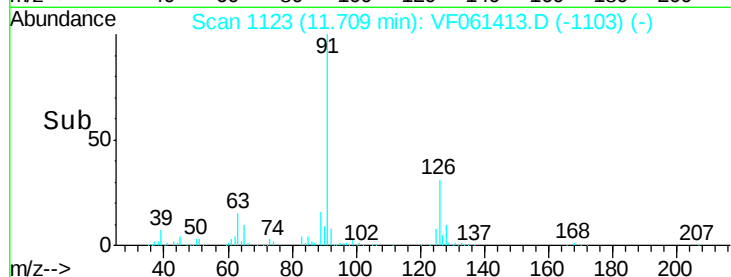
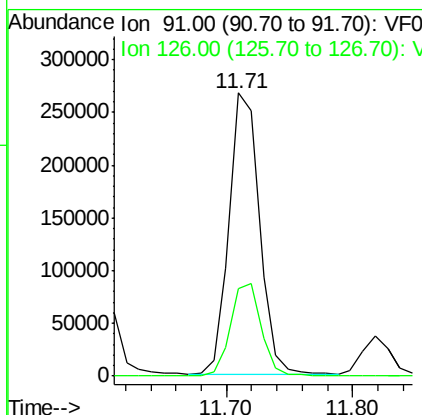
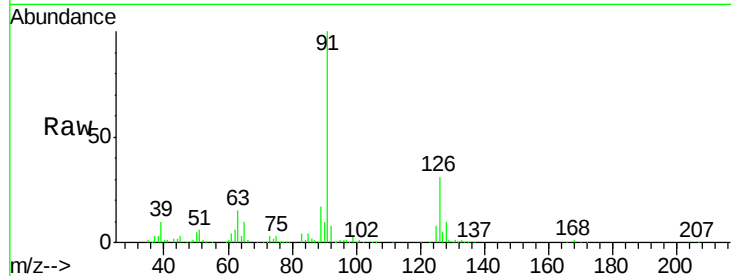
#79
 2-Chlorotoluene
 Concen: 49.061 ug/l
 RT: 11.71 min Scan# 1123
 Delta R.T. 0.00 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 446928
 Ion Ratio Lower Upper
 91 100
 126 30.9 15.0 45.1

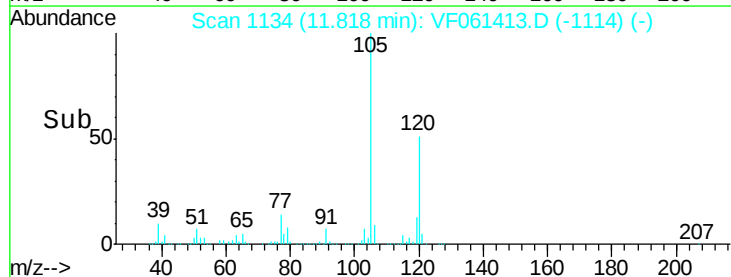
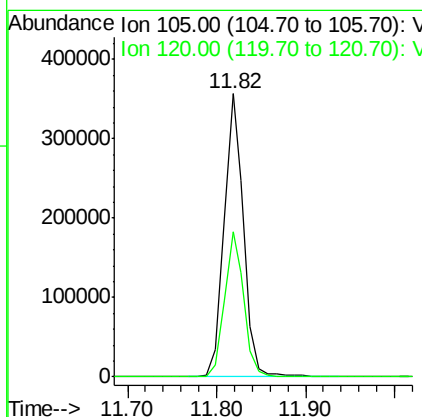
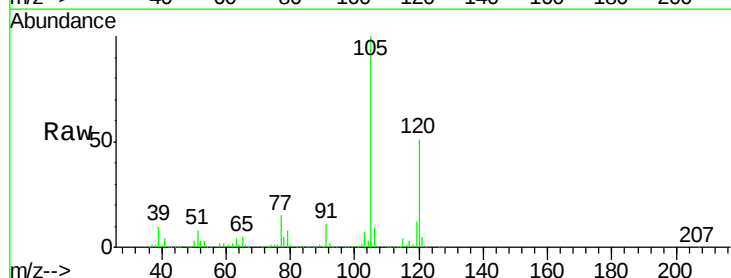
Manual Integrations
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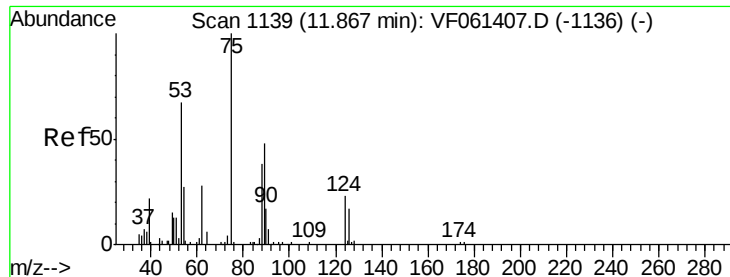
MMDadoda
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#80
 1,3,5-Trimethylbenzene
 Concen: 51.946 ug/l
 RT: 11.82 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Tgt Ion: 105 Resp: 550404
 Ion Ratio Lower Upper
 105 100
 120 51.3 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 57.854 ug/l m

RT: 11.87 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 42268

Ion Ratio Lower Upper

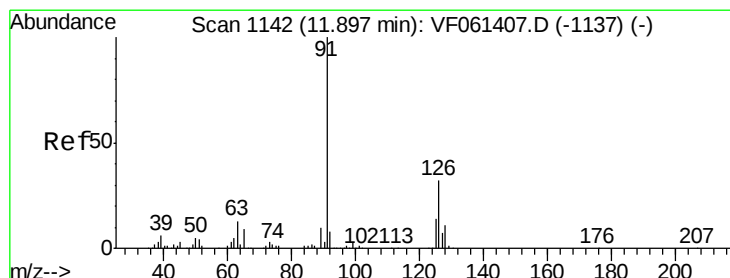
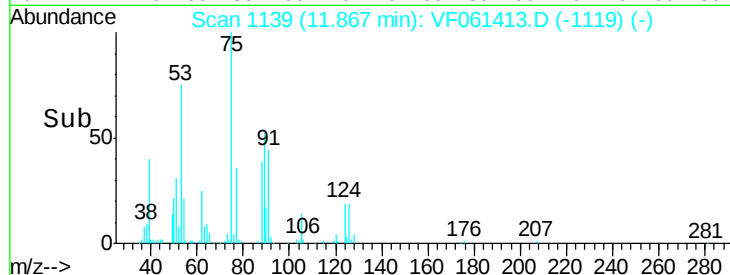
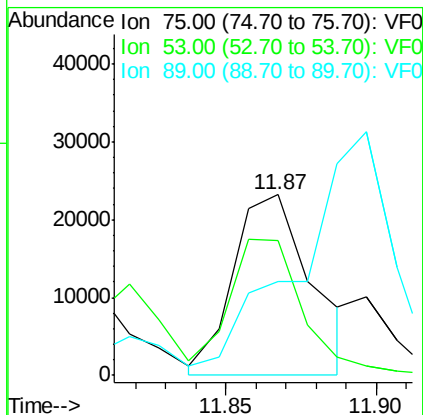
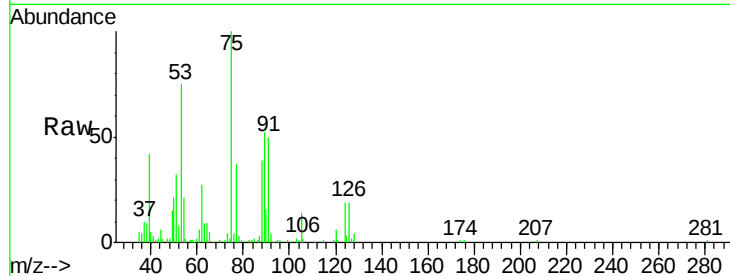
75 100

53 74.9 57.8 86.6

89 51.7 40.7 61.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 50.452 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF061413.D

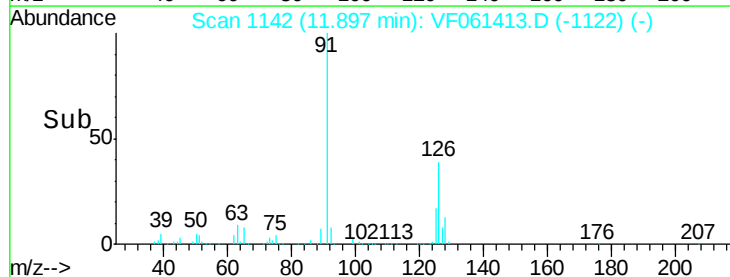
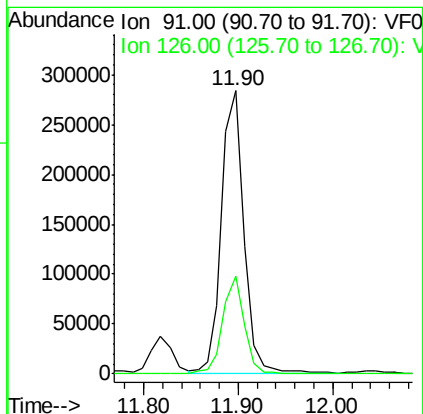
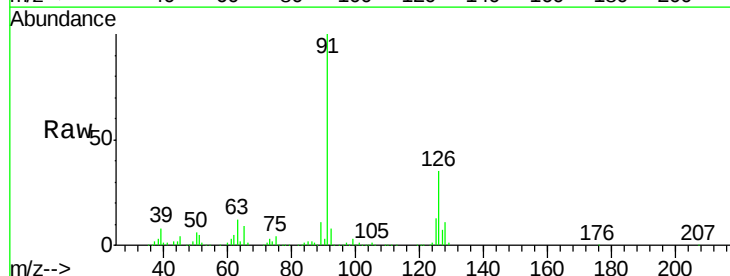
Acq: 16 Jan 2019 15:35

Tgt Ion: 91 Resp: 463787

Ion Ratio Lower Upper

91 100

126 34.6 16.0 47.9





#83

tert-Butylbenzene

Concen: 51.921 ug/l

RT: 12.12 min Scan# 1165

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

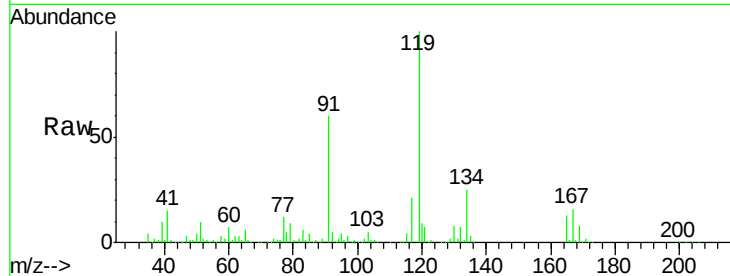
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	569405
Ion Ratio	Lower	Upper	
119	100		
91	60.3	31.3	93.8
134	24.7	12.4	37.0

Manual Integrations
APPROVED

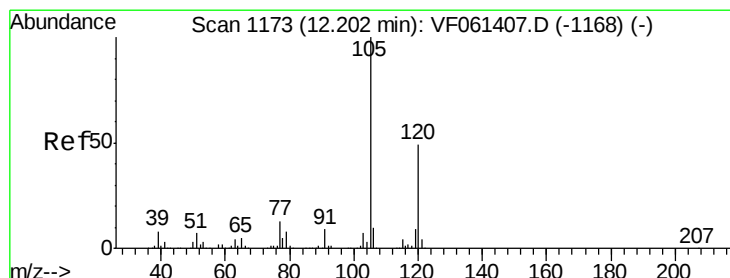
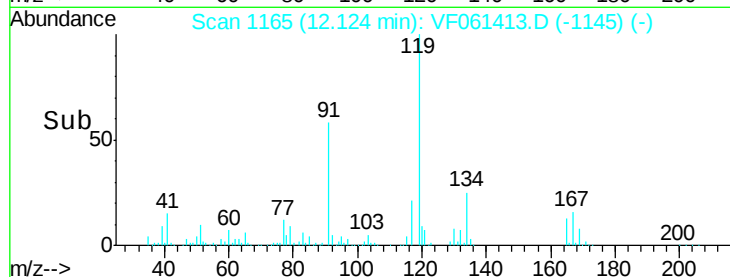
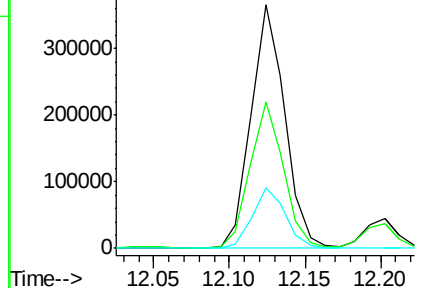
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Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 49.925 ug/l

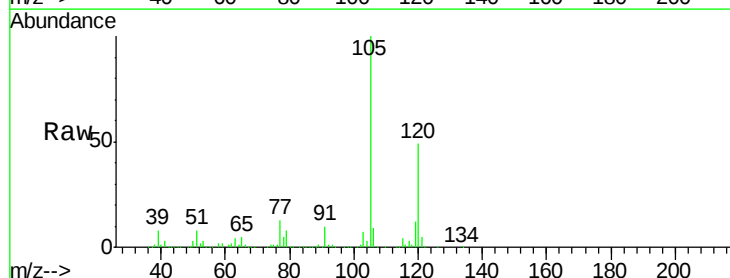
RT: 12.20 min Scan# 1173

Delta R.T. 0.00 min

Lab File: VF061413.D

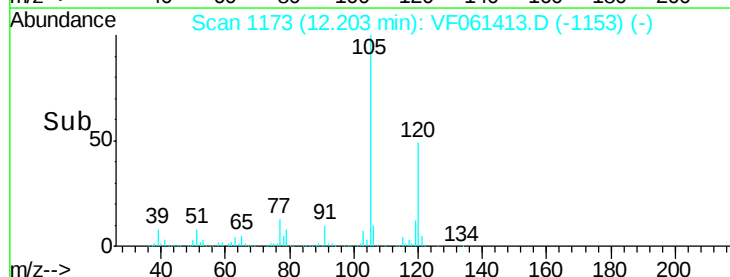
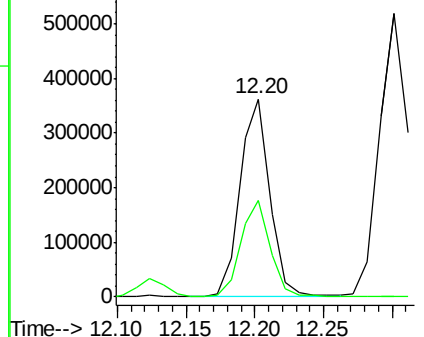
Acq: 16 Jan 2019 15:35

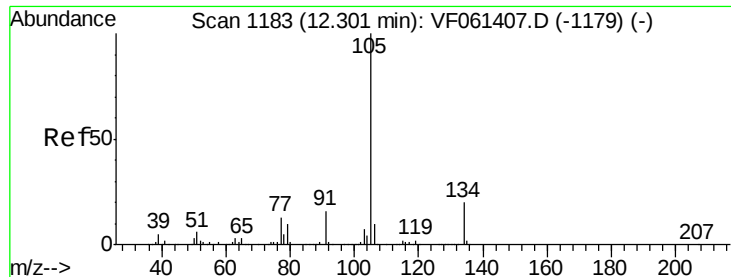
Tgt Ion:	105	Resp:	544884
Ion Ratio	Lower	Upper	
105	100		
120	48.9	24.9	74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 52.302 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 778946

Ion Ratio Lower Upper

105 100

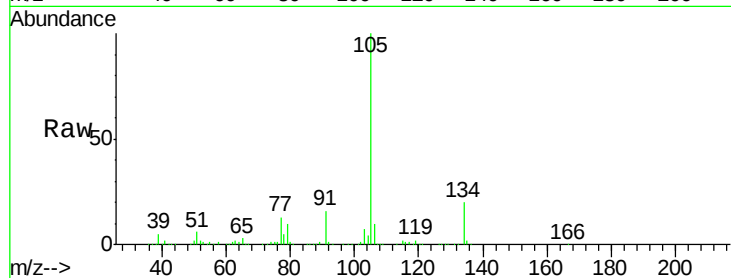
134 20.2 10.0 30.0

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

600000

500000

400000

300000

200000

100000

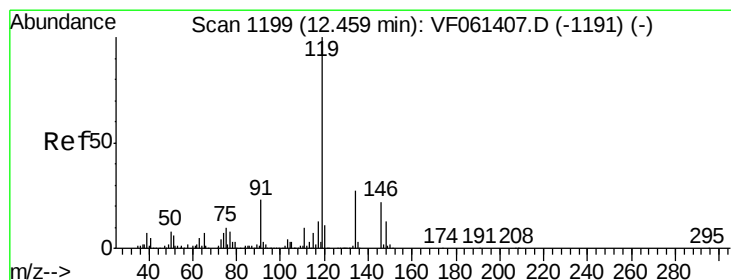
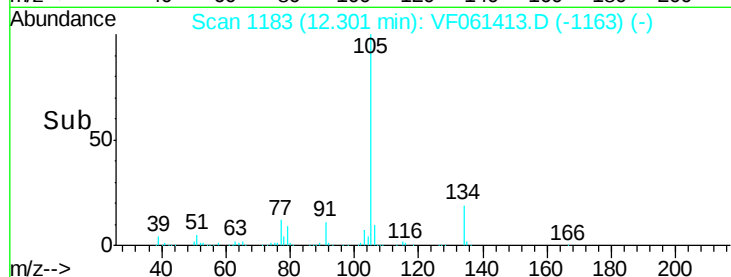
0

12.20

12.30

12.40

Time-->



#86

p-Isopropyltoluene

Concen: 50.542 ug/l

RT: 12.46 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

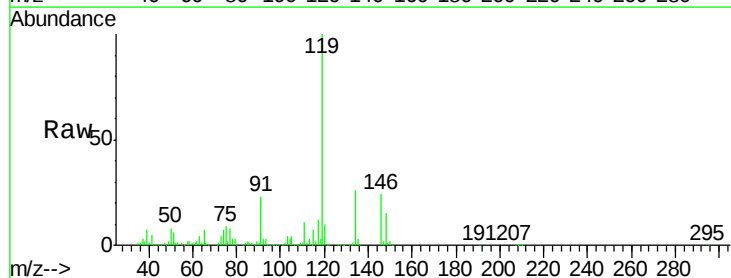
Tgt Ion:119 Resp: 617916

Ion Ratio Lower Upper

119 100

134 26.2 13.4 40.2

91 23.1 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

500000

400000

300000

200000

100000

0

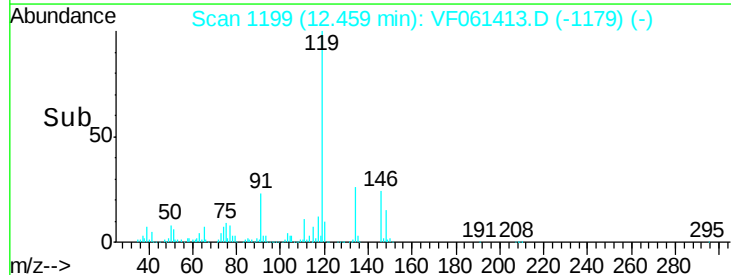
12.30

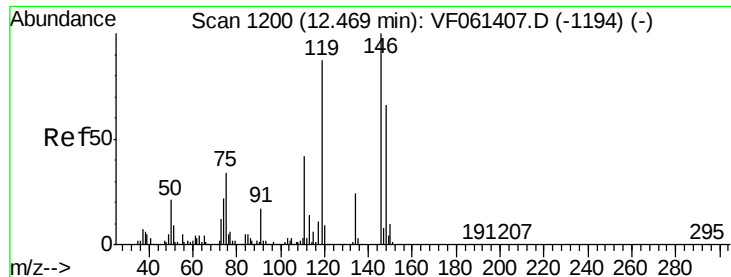
12.40

12.50

12.60

Time-->





#87

1,3-Dichlorobenzene

Concen: 48.243 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

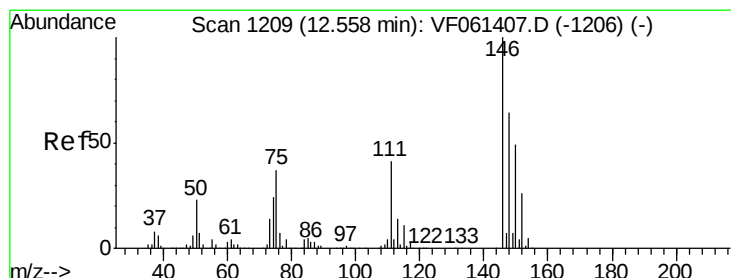
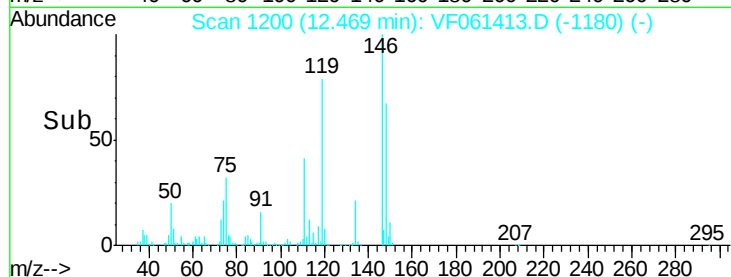
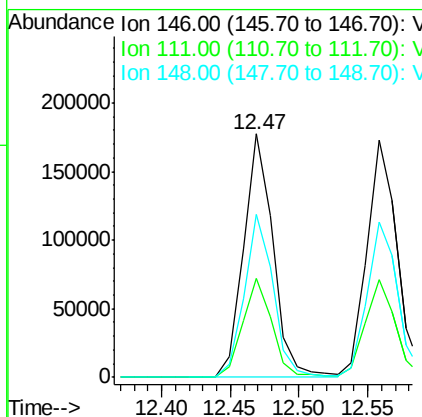
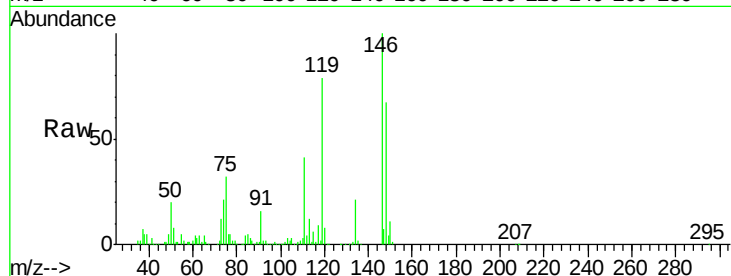
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	266940
Ion Ratio	Lower	Upper	
146	100		
111	40.6	21.1	63.4
148	66.7	32.9	98.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 51.185 ug/l

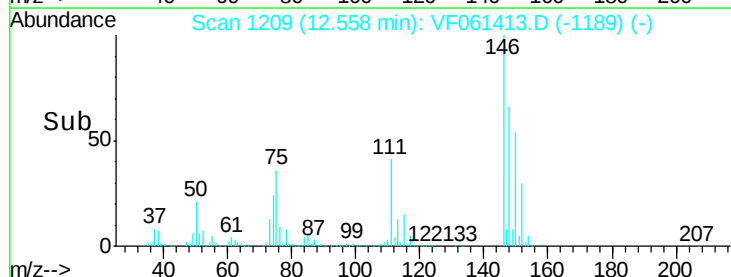
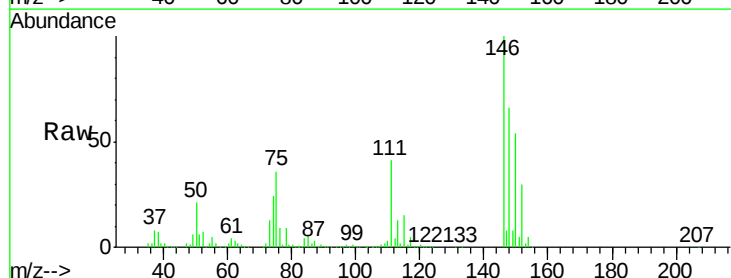
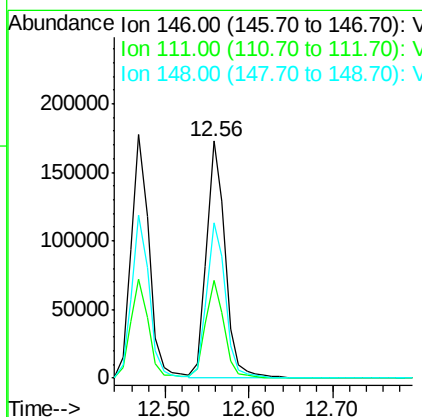
RT: 12.56 min Scan# 1209

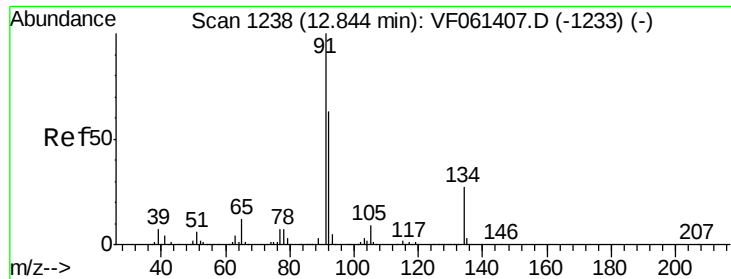
Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	146	Resp:	268196
Ion Ratio	Lower	Upper	
146	100		
111	41.2	20.8	62.2
148	65.6	32.1	96.5





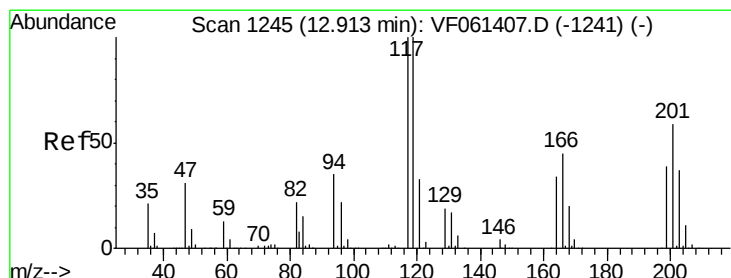
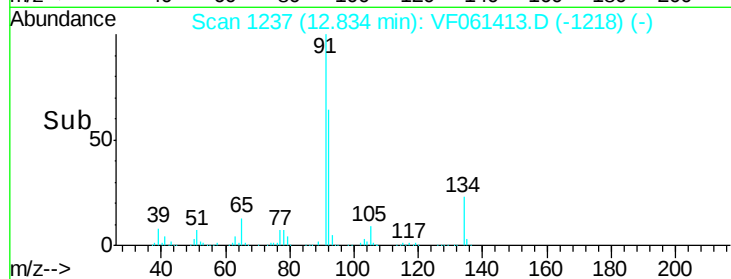
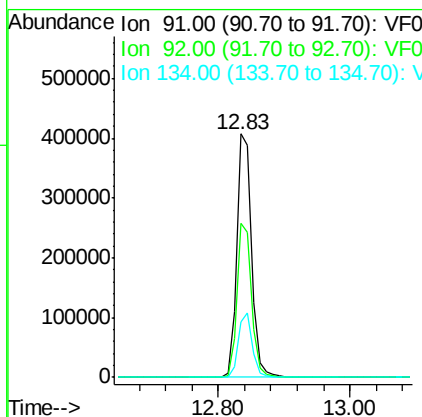
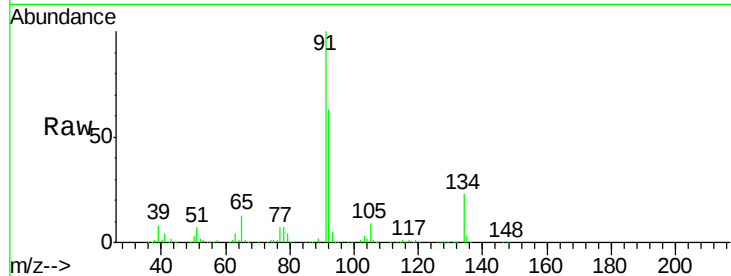
#89
n-Butylbenzene
Concen: 50.905 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		641834		
92	63.5	31.6	94.7		
134	22.7	13.6	40.8		

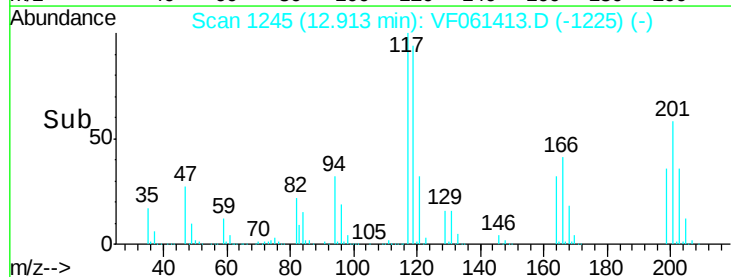
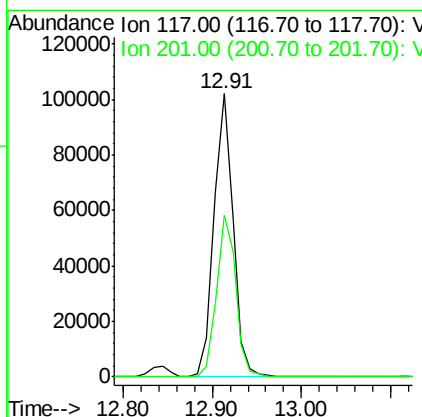
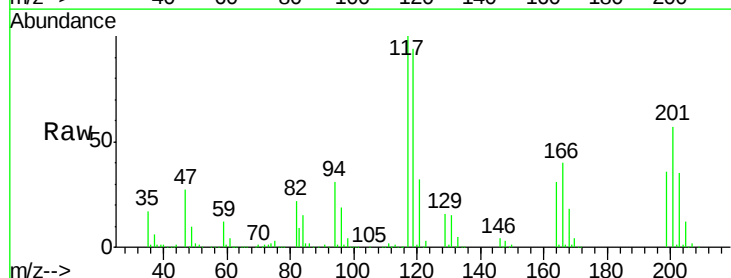
Manual Integrations
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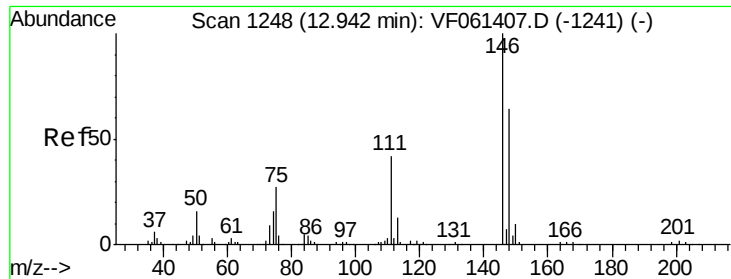
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#90
Hexachloroethane
Concen: 53.257 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF061413.D
Acq: 16 Jan 2019 15:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		153483		
201	57.4	29.3	87.8		





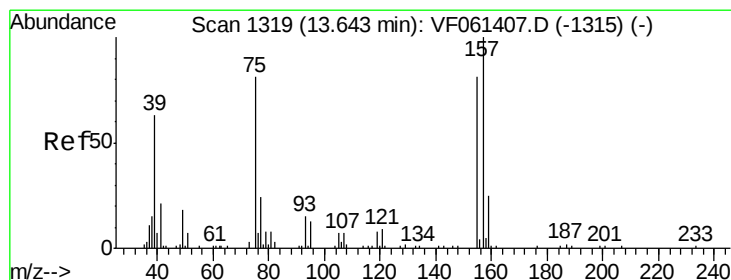
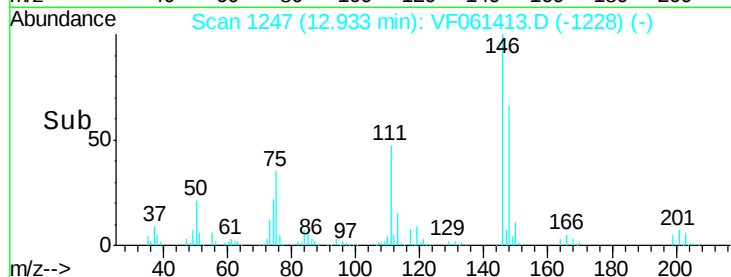
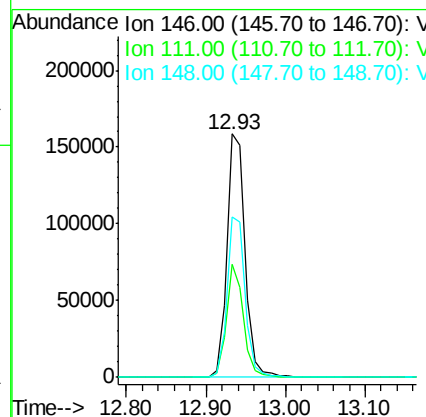
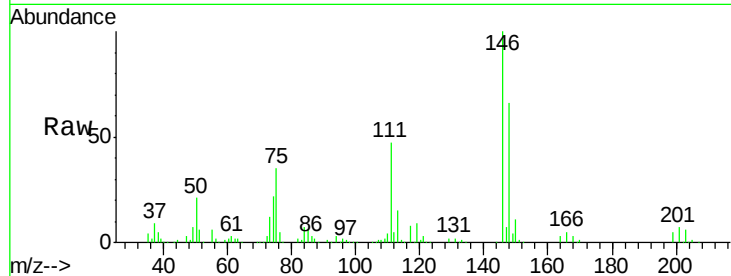
#91
 1,2-Dichlorobenzene
 Concen: 49.181 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	255105		
111	46.6	21.1	63.3	
148	65.6	31.9	95.7	

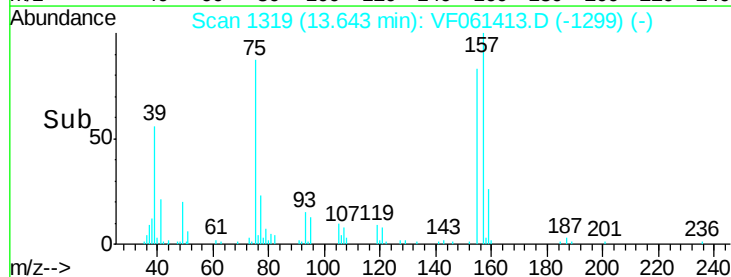
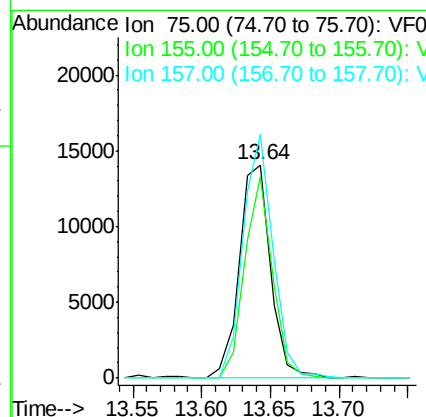
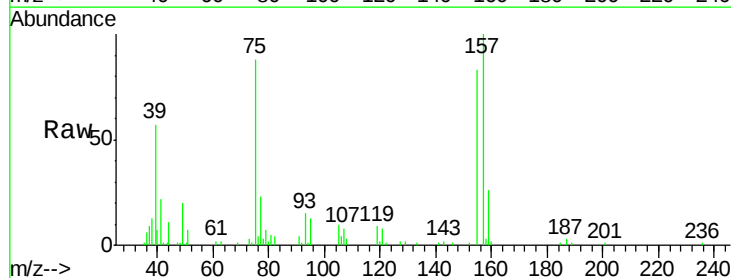
Manual Integrations
 APPROVED

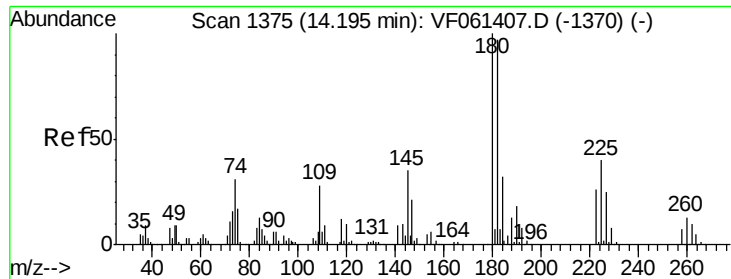
MMDadoda
 1/17/2019 1:23:40 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 53.864 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. 0.00 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	22346		
155	94.7	49.7	149.1	
157	114.2	61.4	184.1	





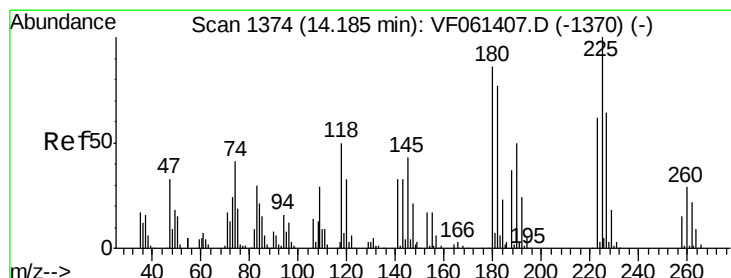
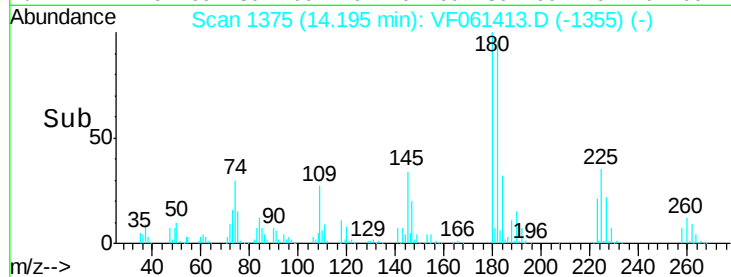
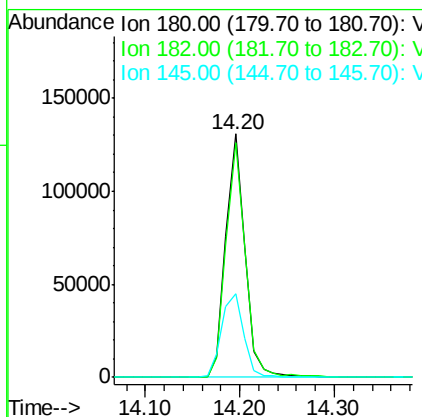
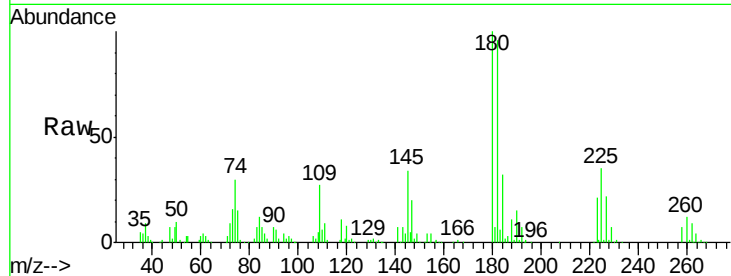
#93
 1,2,4-Trichlorobenzene
 Concen: 51.309 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	186439		
182	96.3	48.5	145.6	
145	34.3	17.5	52.6	

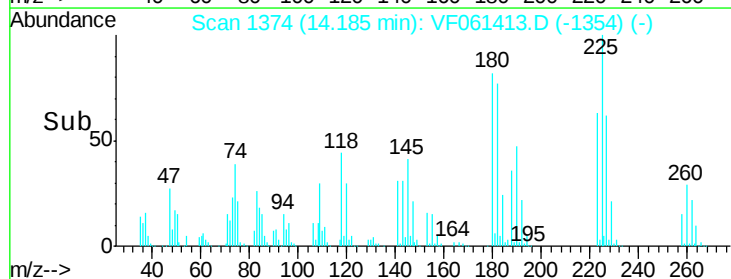
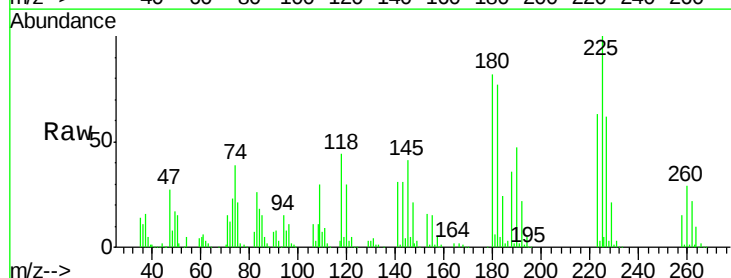
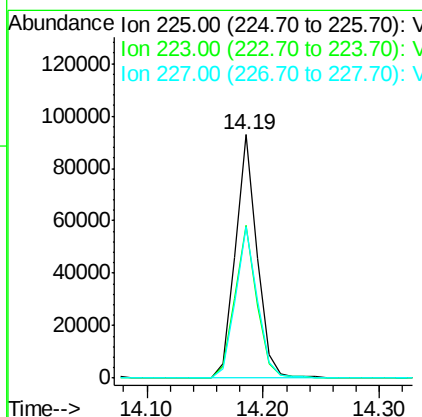
Manual Integrations
 APPROVED

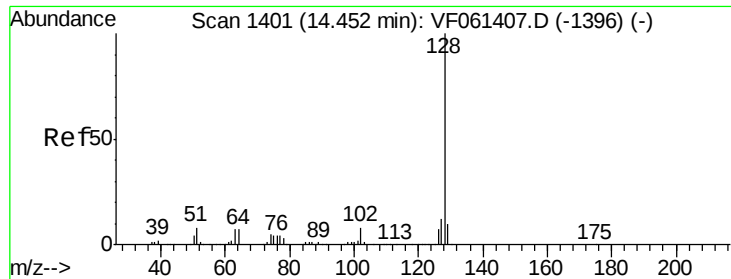
MMDadoda
 1/17/2019 1:23:40 PM



#94
 Hexachlorobutadiene
 Concen: 53.337 ug/l
 RT: 14.19 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VF061413.D
 Acq: 16 Jan 2019 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	120263		
223	62.6	31.1	93.2	
227	62.4	32.2	96.6	





#95

Naphthalene

Concen: 53.231 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Instrument :

MSVOA_F

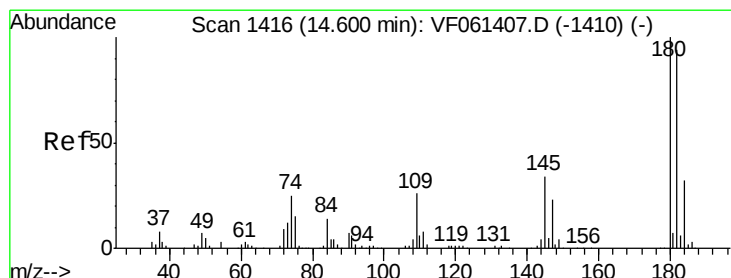
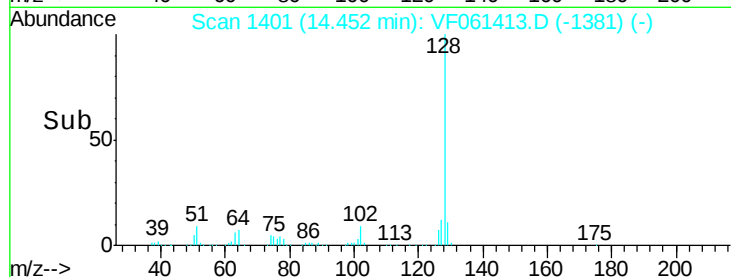
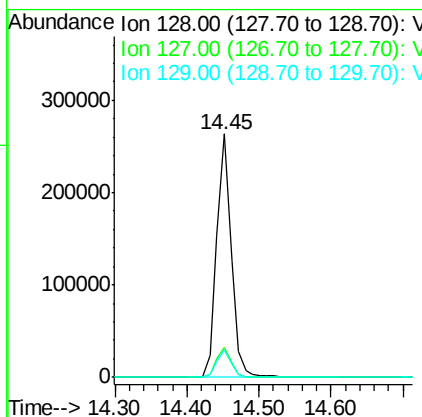
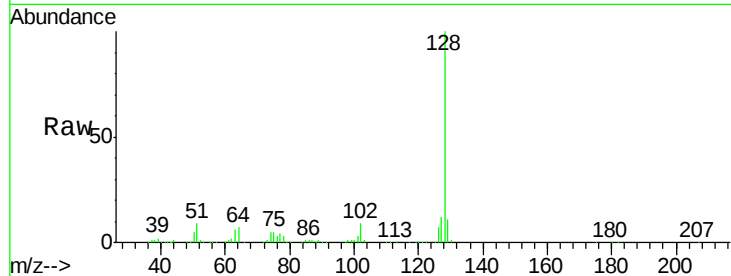
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	367488
Ion Ratio	Lower	Upper	
128	100		
127	12.3	9.5	14.3
129	11.0	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
1/17/2019 1:23:40 PM



#96

1,2,3-Trichlorobenzene

Concen: 52.003 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VF061413.D

Acq: 16 Jan 2019 15:35

Tgt Ion:	180	Resp:	174923
Ion Ratio	Lower	Upper	
180	100		
182	96.7	47.0	141.2
145	35.4	17.1	51.2

