

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012119\
 Data File : VF061468.D
 Acq On : 21 Jan 2019 11:39
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/22/2019 2:50:05 PM

Quant Time: Jan 22 06:35:17 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	4.87	168	178333	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.59	114	295049	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	301041	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	141627	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	100620	45.70	ug/l	0.01
Spiked Amount	50.000		Recovery	=	91.40%	
35) Dibromofluoromethane	4.12	113	119327	51.25	ug/l	0.01
Spiked Amount	50.000		Recovery	=	102.50%	
50) Toluene-d8	7.56	98	347480	54.47	ug/l	0.01
Spiked Amount	50.000		Recovery	=	108.94%	
62) 4-Bromofluorobenzene	11.41	95	148067	49.68	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	178263	50.874	ug/l	94
3) Chloromethane	1.09	50	147127	57.264	ug/l	99
4) Vinyl Chloride	1.14	62	131194	57.403	ug/l	95
5) Bromomethane	1.30	94	81008	54.355	ug/l	89
6) Chloroethane	1.37	64	58414	57.681	ug/l	95
7) Trichlorofluoromethane	1.48	101	223307	50.260	ug/l	99
8) Diethyl Ether	1.63	74	30644	53.827	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.82	101	109000	51.057	ug/l	95
10) Methyl Iodide	1.89	142	187830m	56.752	ug/l	
11) Tert butyl alcohol	2.56	59	21960	235.632	ug/l #	93
12) 1,1-Dichloroethene	1.78	96	94543	59.608	ug/l	90
13) Acrolein	1.99	56	27430	337.914	ug/l	90
14) Allyl chloride	2.09	41	164050	85.493	ug/l	83
15) Acrylonitrile	2.93	53	59246	248.180	ug/l	99
16) Acetone	2.23	43	139614	316.085	ug/l	93
17) Carbon Disulfide	1.77	76	296694	59.992	ug/l	95
18) Methyl Acetate	2.34	43	40852	46.637	ug/l #	86
19) Methyl tert-butyl Ether	2.43	73	171608	48.265	ug/l	98
20) Methylene Chloride	2.18	84	102012m	68.694	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	97447	55.841	ug/l	97
22) Diisopropyl ether	2.79	45	304728	53.988	ug/l	98
23) Vinyl Acetate	3.19	43	613477	247.142	ug/l	99
24) 1,1-Dichloroethane	2.87	63	184116	51.973	ug/l	98
25) 2-Butanone	4.32	43	181664	247.322	ug/l	97
26) 2,2-Dichloropropane	3.60	77	119904	55.090	ug/l	99
27) cis-1,2-Dichloroethene	3.47	96	133356	51.769	ug/l	97
28) Bromochloromethane	3.72	49	74389	46.715	ug/l	88
29) Tetrahydrofuran	4.07	42	75642	239.161	ug/l	97
30) Chloroform	3.86	83	228014	47.693	ug/l	98
31) Cyclohexane	3.69	56	186845	52.801	ug/l	98
32) 1,1,1-Trichloroethane	4.10	97	190861	54.446	ug/l	97
36) 1,1-Dichloropropene	4.28	75	177515	51.891	ug/l	95
37) Ethyl Acetate	4.11	43	64812	47.396	ug/l #	69
38) Carbon Tetrachloride	4.00	117	168540	56.354	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	206054	55.580	ug/l	97
40) Benzene	4.64	78	394182	51.783	ug/l	97
41) Methacrylonitrile	4.75	41	34415	47.297	ug/l	93
42) 1,2-Dichloroethane	4.94	62	131200	48.368	ug/l	96
43) Isopropyl Acetate	6.96	43	81408	47.433	ug/l #	90
44) Trichloroethene	5.51	130	119758	51.285	ug/l	100
45) 1,2-Dichloropropane	6.24	63	104732	52.422	ug/l	99
46) Dibromomethane	6.09	93	65318	49.169	ug/l	97
47) Bromodichloromethane	6.38	83	168012	51.117	ug/l	98
48) Methyl methacrylate	6.72	41	56152	48.723	ug/l	92
49) 1,4-Dioxane	6.71	88	9039	1132.809	ug/l #	70
51) 4-Methyl-2-Pentanone	8.26	43	314629	249.364	ug/l	96
52) Toluene	7.63	92	262304	52.326	ug/l	96
53) t-1,3-Dichloropropene	8.28	75	134715	51.616	ug/l	97
54) cis-1,3-Dichloropropene	7.30	75	172725	52.945	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	74898	52.615	ug/l	99
56) Ethyl methacrylate	8.62	69	82441	49.778	ug/l	95
57) 1,3-Dichloropropane	8.85	76	131740	49.374	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.29	63	34987	206.801	ug/l	98
59) 2-Hexanone	9.49	43	250092	284.252	ug/l	98
60) Dibromochloromethane	8.71	129	109521	52.626	ug/l	94
61) 1,2-Dibromoethane	8.99	107	77347	47.463	ug/l	88
64) Tetrachloroethene	8.15	164	107735	47.589	ug/l	99
65) Chlorobenzene	9.80	112	304636	49.762	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.94	131	118631	48.644	ug/l	98
67) Ethyl Benzene	9.91	91	542486	48.501	ug/l	98
68) m/p-Xylenes	10.13	106	368173	91.520	ug/l	98
69) o-Xylene	10.71	106	206517	47.366	ug/l	93
70) Styrene	10.79	104	292765	49.054	ug/l	94
71) Bromoform	10.77	173	51637	47.125	ug/l #	94
73) Isopropylbenzene	11.13	105	608814	52.854	ug/l	100
74) N-amyl acetate	11.38	43	135575	49.775	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	97190	47.363	ug/l	98
76) 1,2,3-Trichloropropane	11.79	75	69826	47.356	ug/l	100
77) Bromobenzene	11.49	156	117259	48.202	ug/l	90
78) n-propylbenzene	11.59	91	709943	50.691	ug/l	100
79) 2-Chlorotoluene	11.72	91	406428	50.853	ug/l	96
80) 1,3,5-Trimethylbenzene	11.82	105	489122	52.617	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	32586m	50.838	ug/l	
82) 4-Chlorotoluene	11.90	91	404786	50.191	ug/l	99
83) tert-Butylbenzene	12.13	119	490260	50.955	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	474973	49.605	ug/l	98
85) sec-Butylbenzene	12.30	105	663368	50.770	ug/l	96
86) p-Isopropyltoluene	12.46	119	542945	50.620	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	227008	46.599	ug/l	99
88) 1,4-Dichlorobenzene	12.57	146	225453	49.044	ug/l	96
89) n-Butylbenzene	12.85	91	562848	50.883	ug/l	98
90) Hexachloroethane	12.91	117	137899	54.541	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	220482	48.450	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	17156	47.136	ug/l	86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	146293	45.890	ug/l	98
94) Hexachlorobutadiene	14.19	225	99322	50.209	ug/l	98
95) Naphthalene	14.45	128	278964	46.058	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	135430	45.892	ug/l	98

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

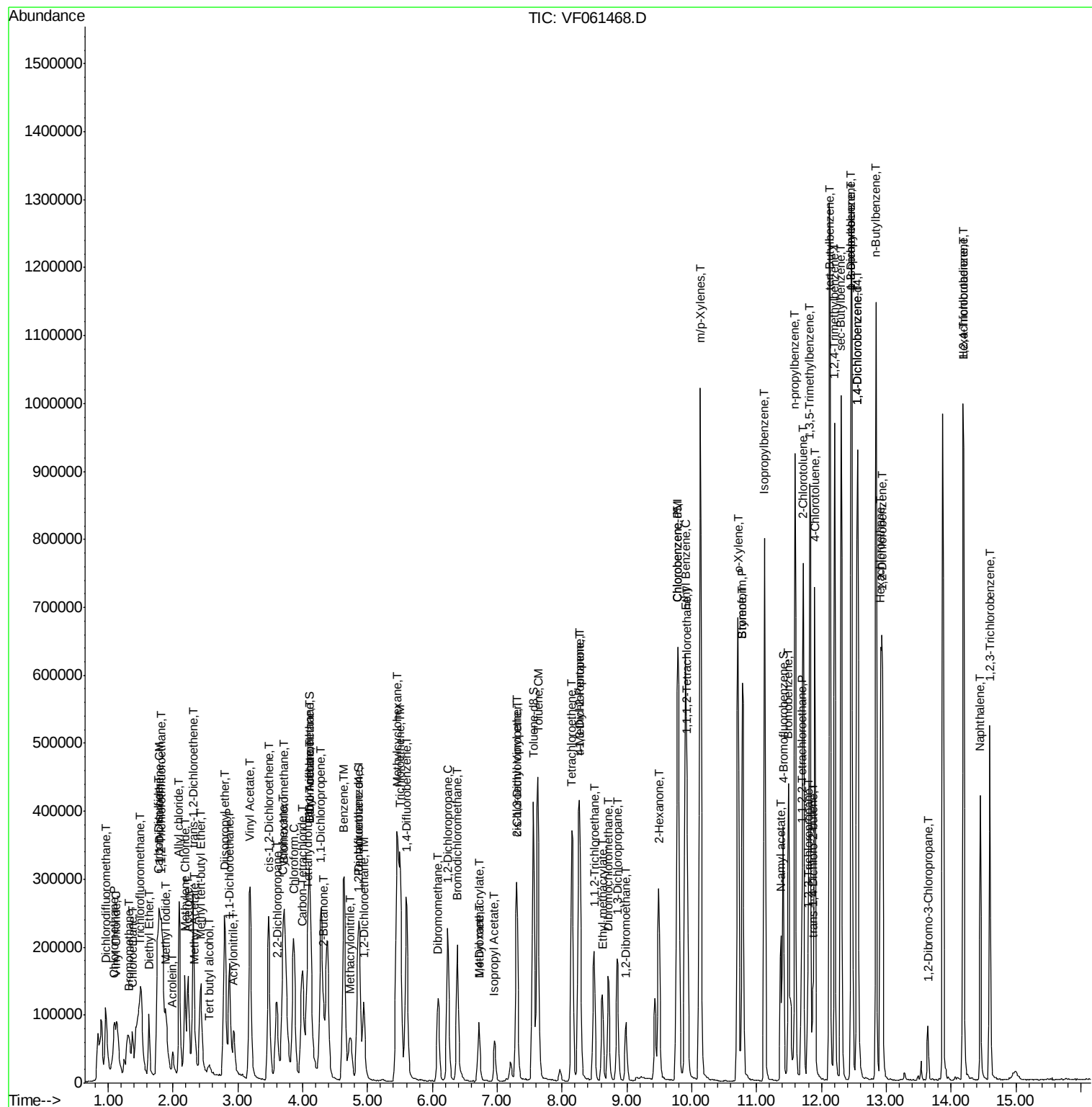
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF012119\
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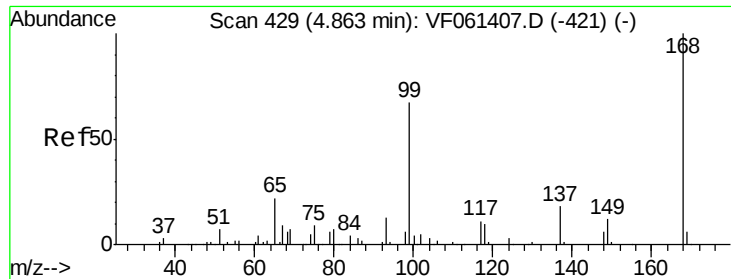
Instrument :
MSVOA_F
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 178333

Ion Ratio Lower Upper

168 100

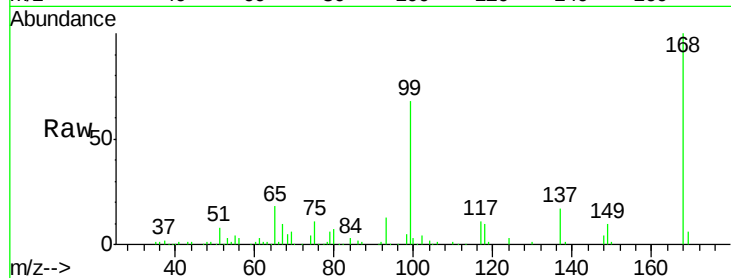
99 68.5 53.5 80.3

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

4.87

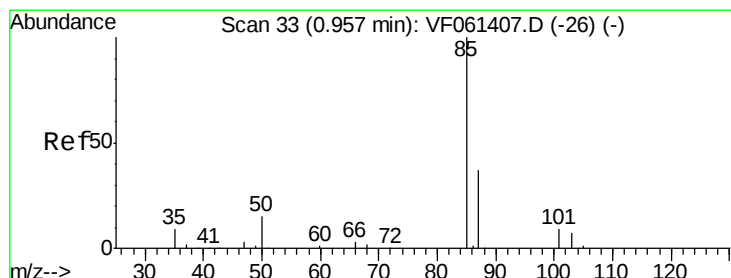
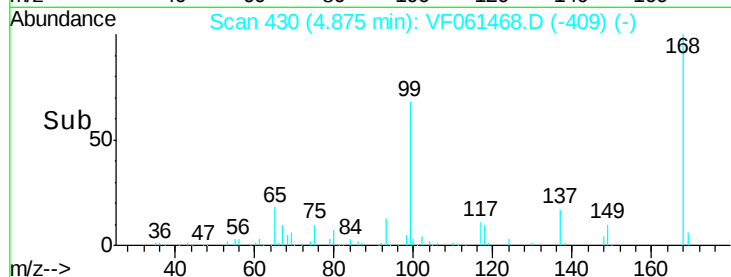
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 50.874 ug/l

RT: 0.96 min Scan# 33

Delta R.T. 0.00 min

Lab File: VF061468.D

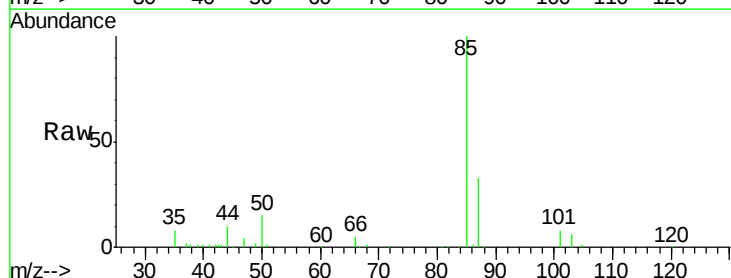
Acq: 21 Jan 2019 11:39

Tgt Ion: 85 Resp: 178263

Ion Ratio Lower Upper

85 100

87 33.3 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

60000

50000

40000

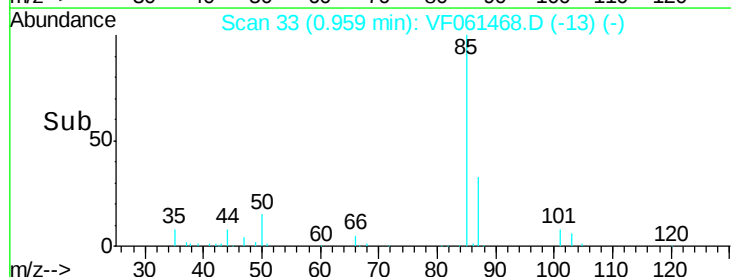
30000

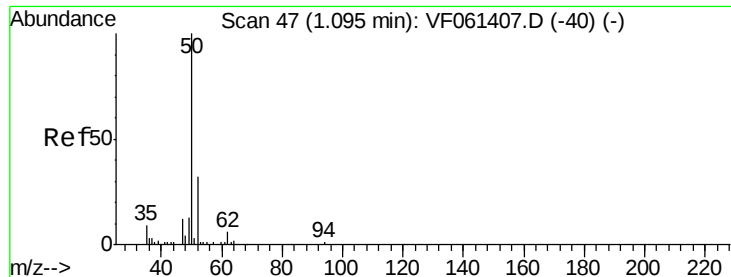
20000

10000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 57.264 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 147127

Ion Ratio Lower Upper

50 100

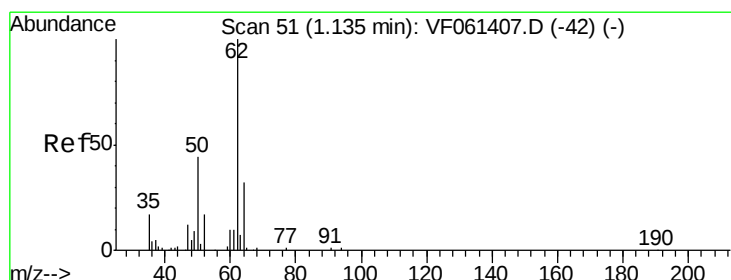
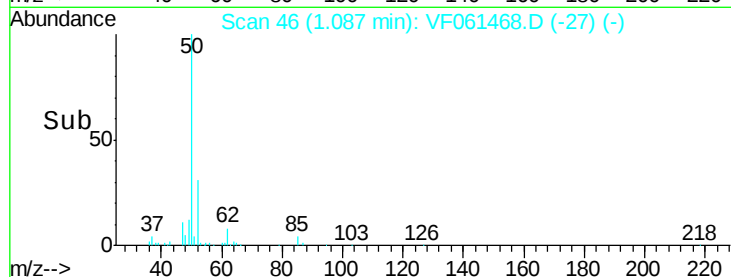
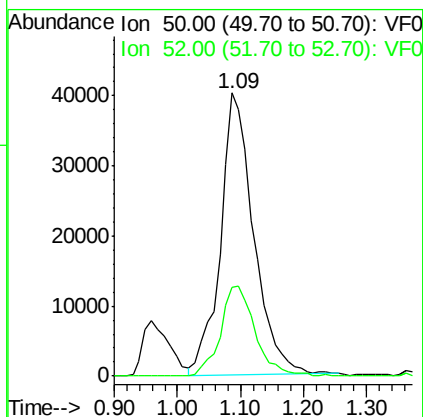
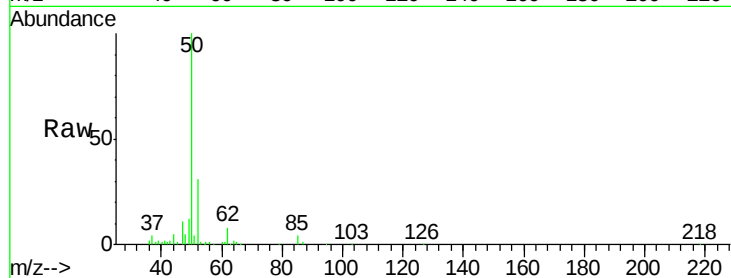
52 31.3 24.6 36.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 57.403 ug/l

RT: 1.14 min Scan# 51

Delta R.T. 0.00 min

Lab File: VF061468.D

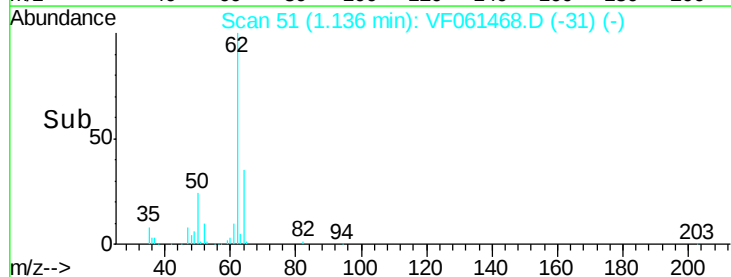
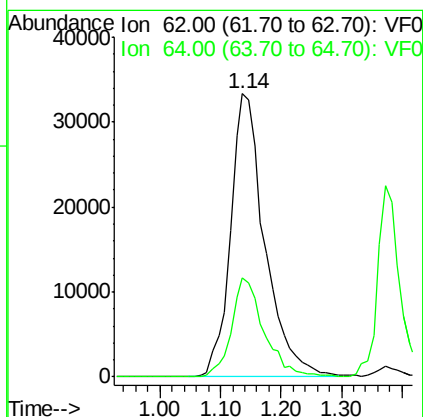
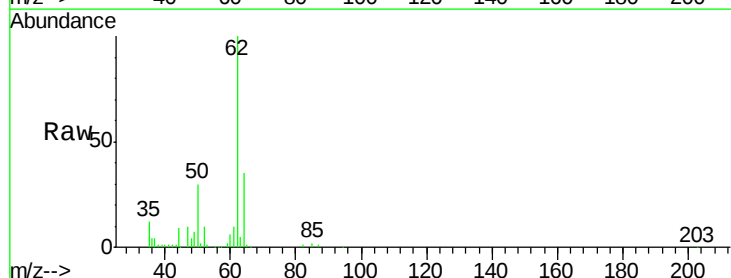
Acq: 21 Jan 2019 11:39

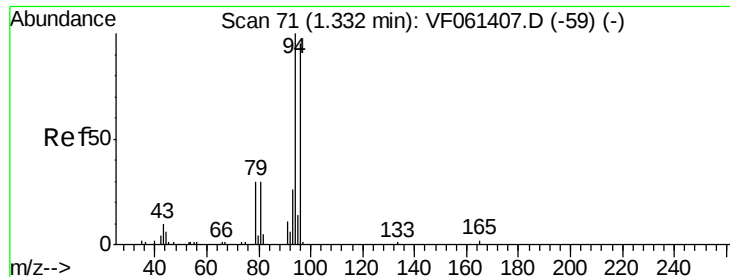
Tgt Ion: 62 Resp: 131194

Ion Ratio Lower Upper

62 100

64 35.0 25.6 38.4





#5

Bromomethane

Concen: 54.355 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.03 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

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ClientSampleId :

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Tot Ion: 94 Resp: 81008

Ion Ratio Lower Upper

94 100

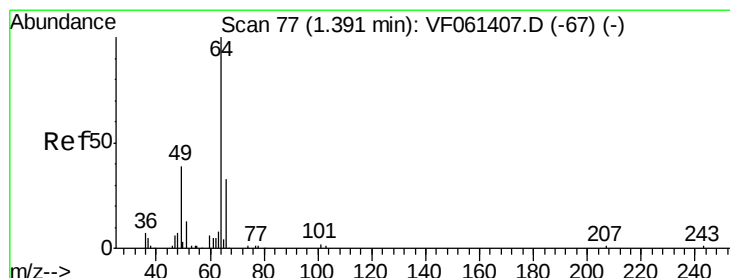
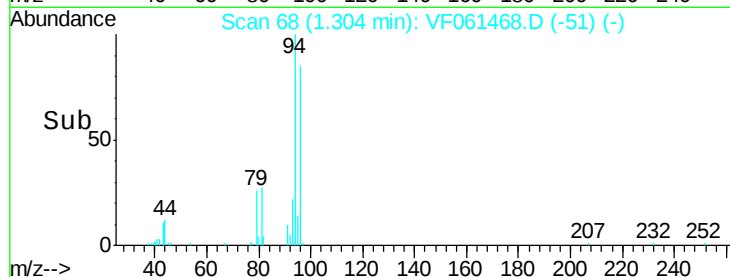
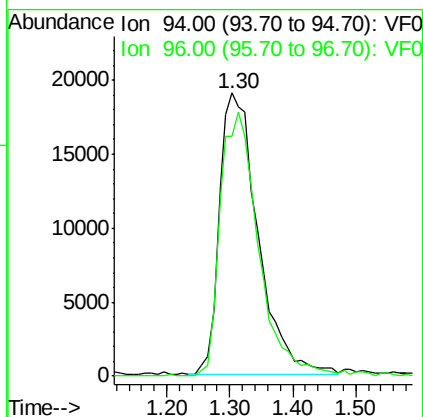
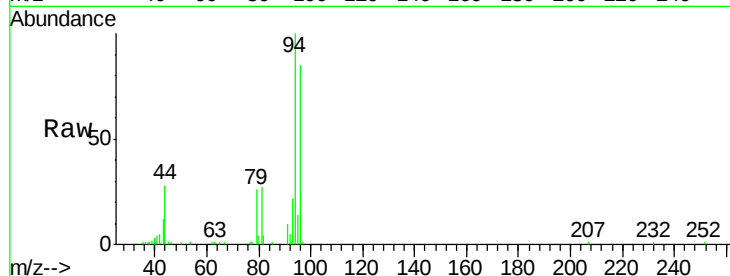
96 84.5 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 57.681 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF061468.D

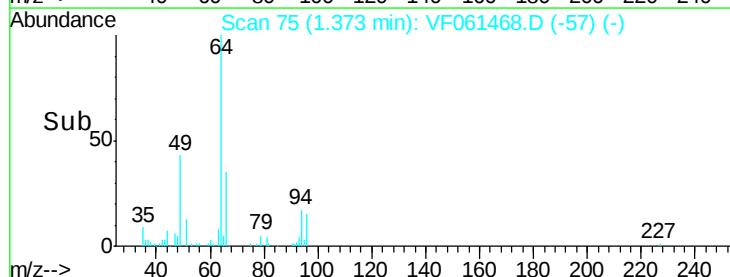
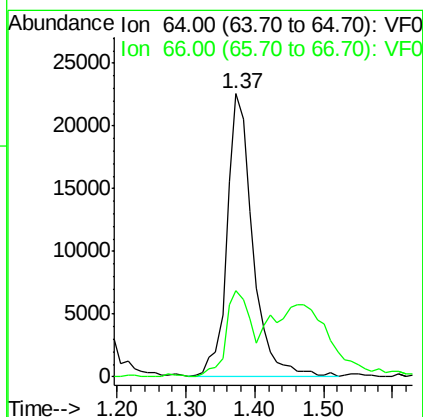
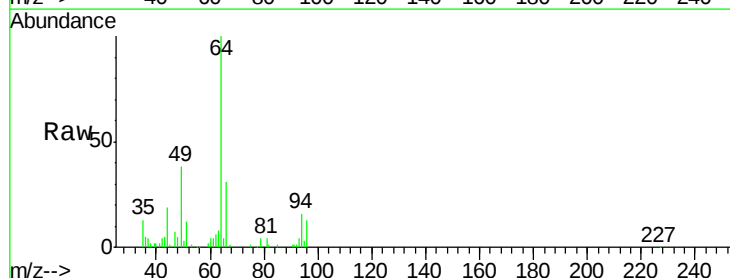
Acq: 21 Jan 2019 11:39

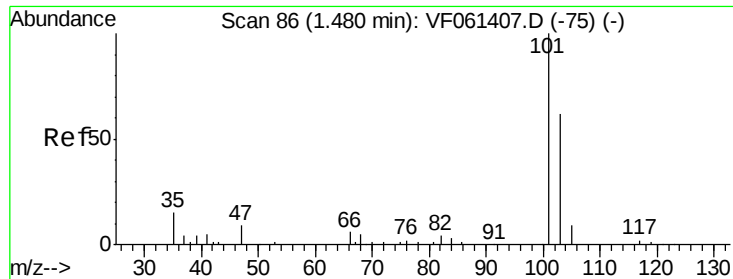
Tgt Ion: 64 Resp: 58414

Ion Ratio Lower Upper

64 100

66 30.6 26.6 40.0





#7

Trichlorofluoromethane

Concen: 50.260 ug/l

RT: 1.48 min Scan# 86

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

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ClientSampleId :

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Tot Ion:101 Resp: 223307

Ion Ratio Lower Upper

101 100

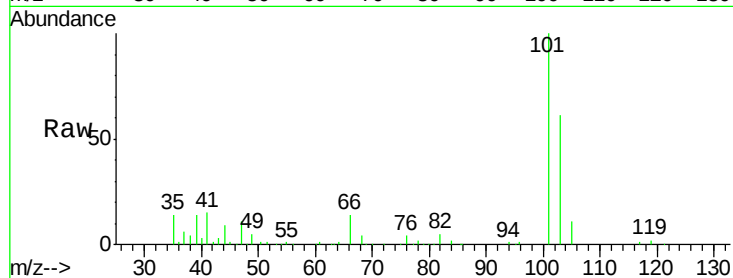
103 61.1 49.7 74.5

Manual Integrations

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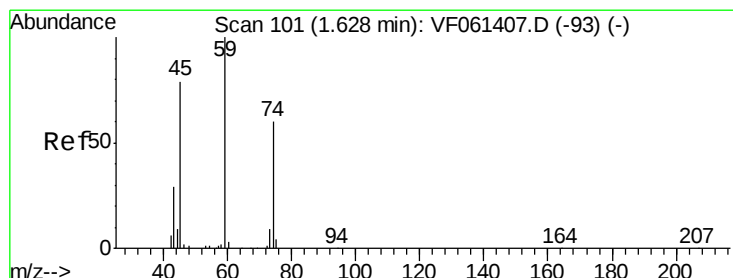
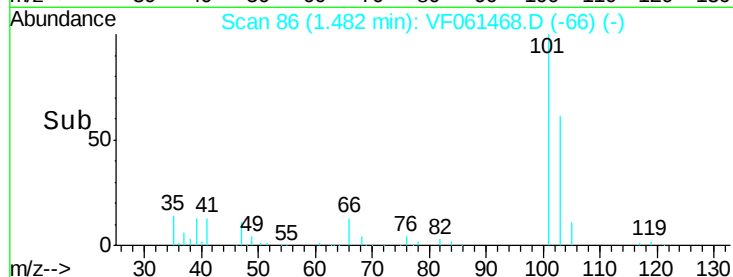
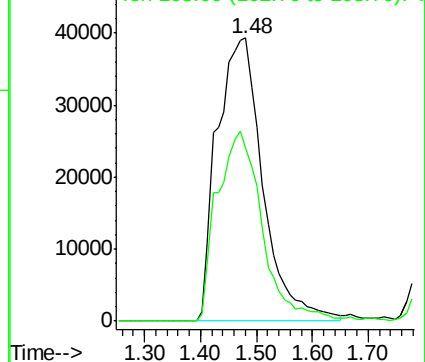
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 53.827 ug/l

RT: 1.63 min Scan# 101

Delta R.T. 0.00 min

Lab File: VF061468.D

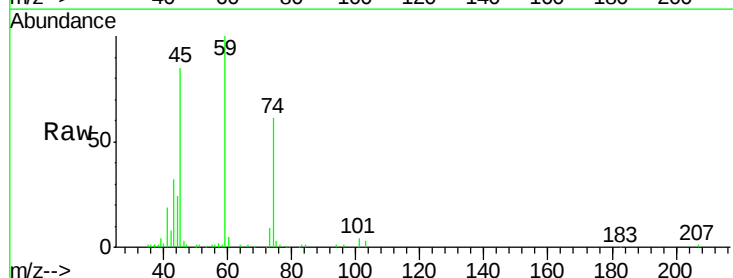
Acq: 21 Jan 2019 11:39

Tgt Ion: 74 Resp: 30644

Ion Ratio Lower Upper

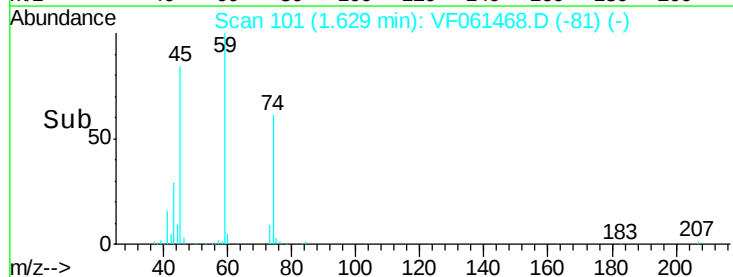
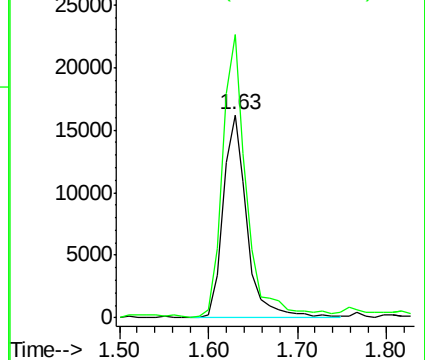
74 100

45 139.3 65.8 197.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.057 ug/l

RT: 1.82 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF061468.D

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MSVOA_F

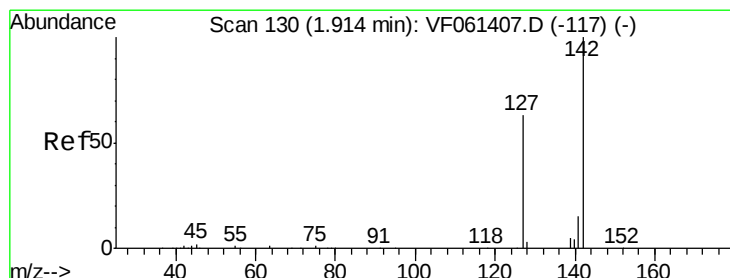
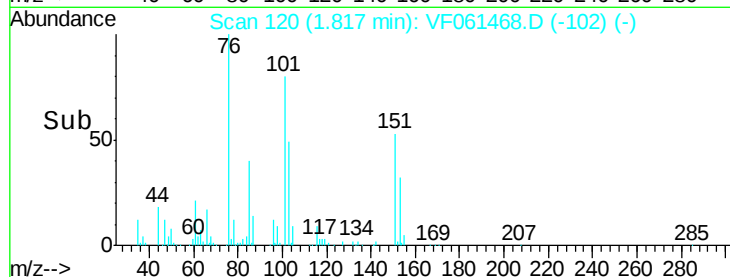
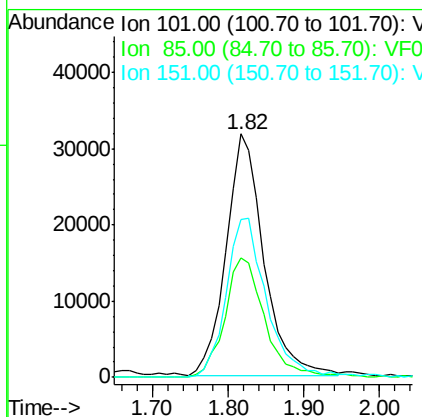
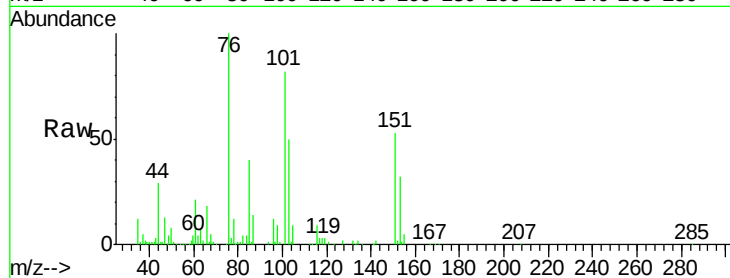
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	109000
Ion Ratio	Lower	Upper	
101	100		
85	49.2	41.9	62.9
151	65.1	55.1	82.7

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#10

Methyl Iodide

Concen: 56.752 ug/l m

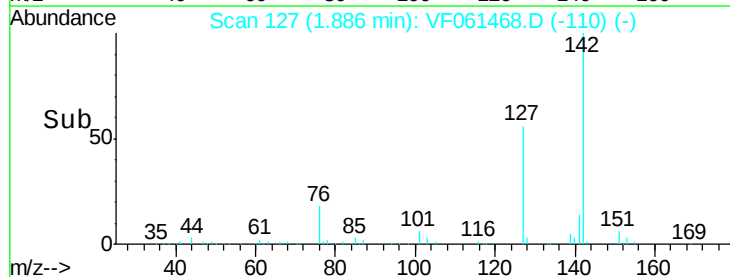
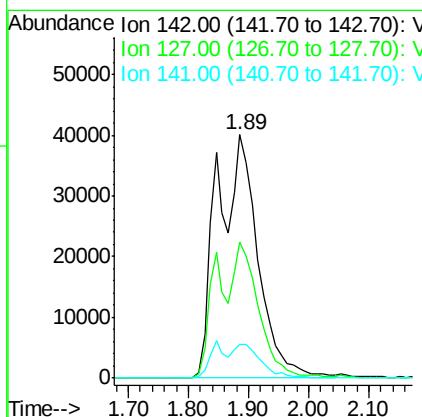
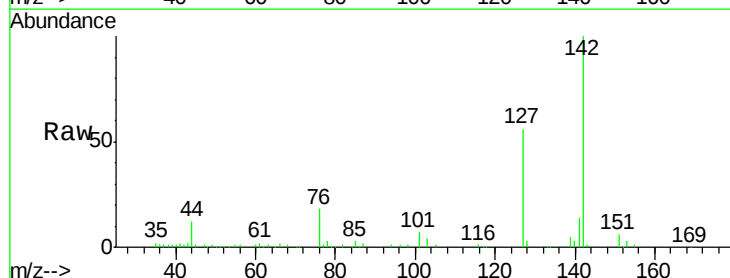
RT: 1.89 min Scan# 127

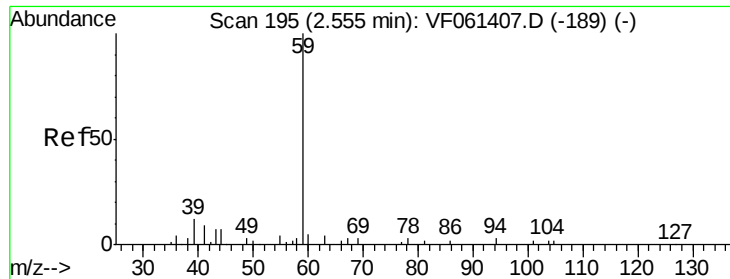
Delta R.T. -0.03 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion:	142	Resp:	187830
Ion Ratio	Lower	Upper	
142	100		
127	55.9	50.7	76.1
141	14.0	11.8	17.6





#11

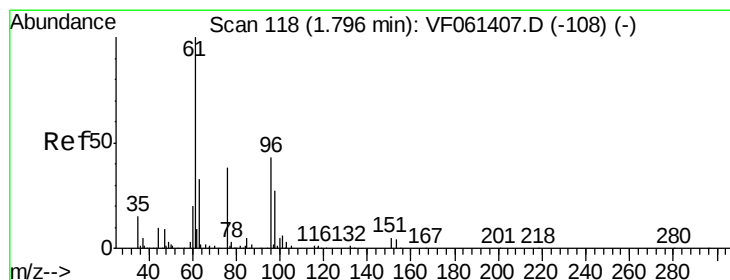
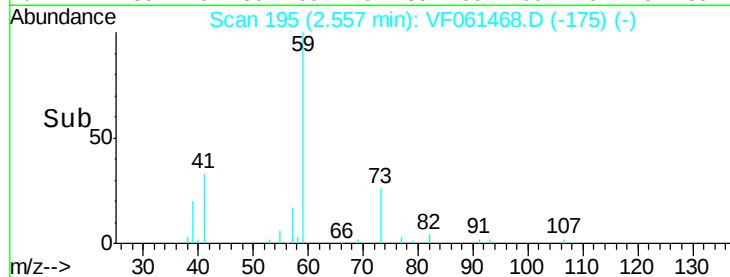
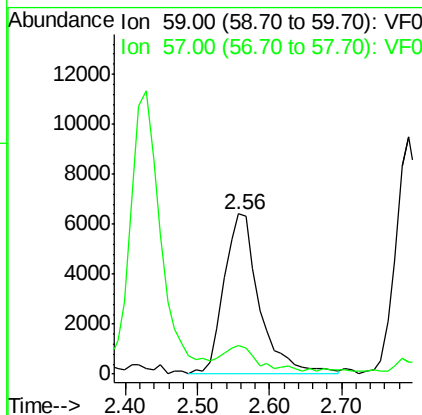
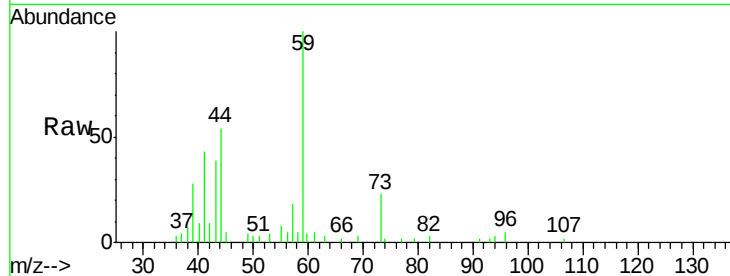
Tert butyl alcohol
Concen: 235.632 ug/l
RT: 2.56 min Scan# 195
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	18.0	11.9	17.9#

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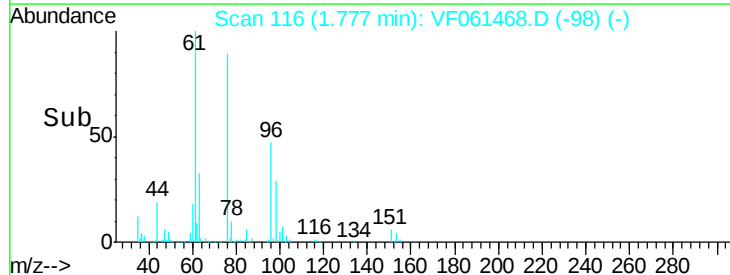
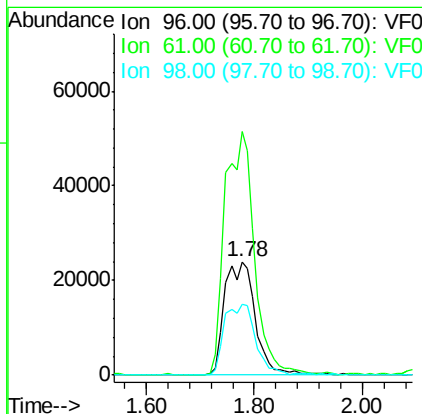
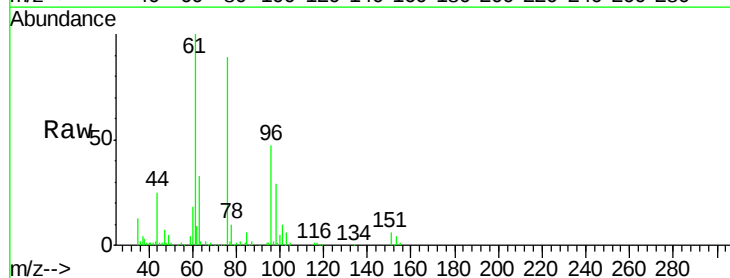
MMDadoda
1/22/2019 2:50:05 PM

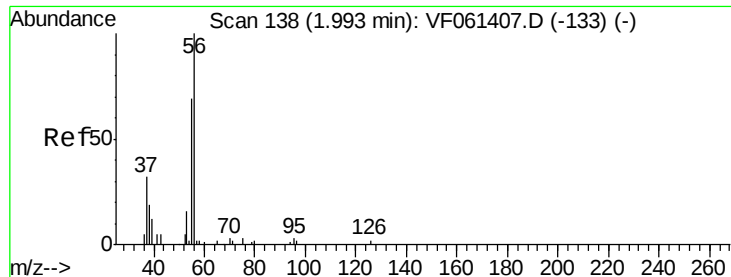


#12

1,1-Dichloroethene
Concen: 59.608 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.02 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	214.5	186.9	280.3
98	62.6	53.0	79.4





#13

Acrolein

Concen: 337.914 ug/l

RT: 1.99 min Scan# 138

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 27430

Ion Ratio Lower Upper

56 100

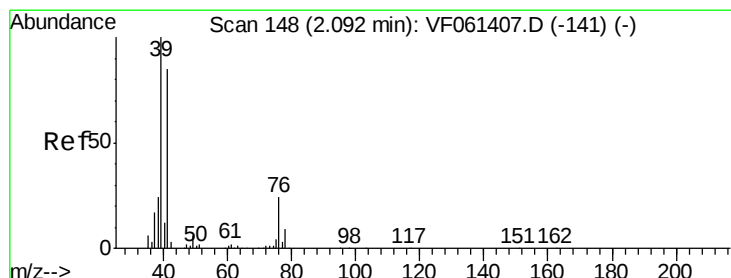
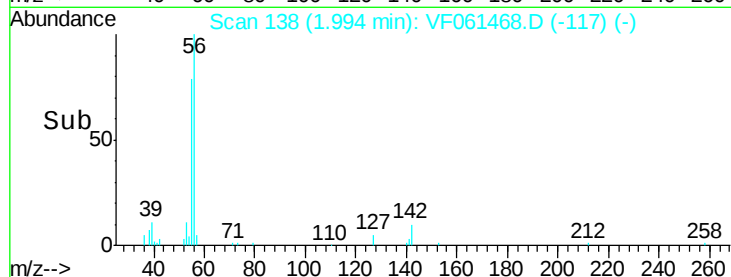
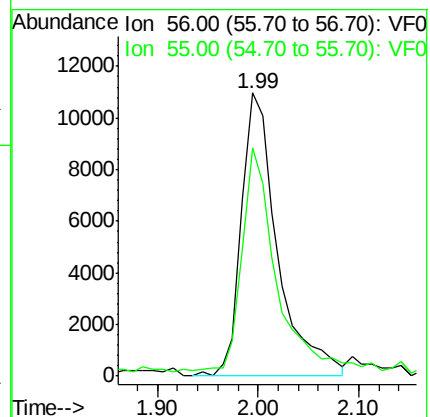
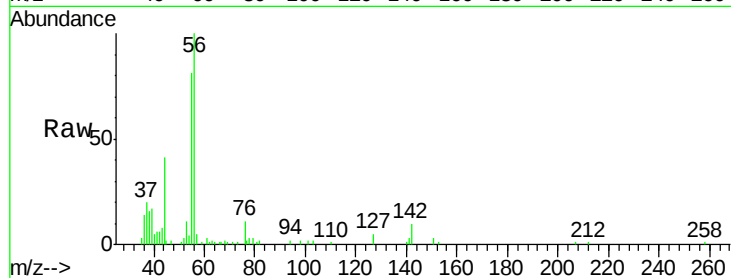
55 80.6 57.5 86.3

Manual Integrations

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#14

Allyl chloride

Concen: 85.493 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

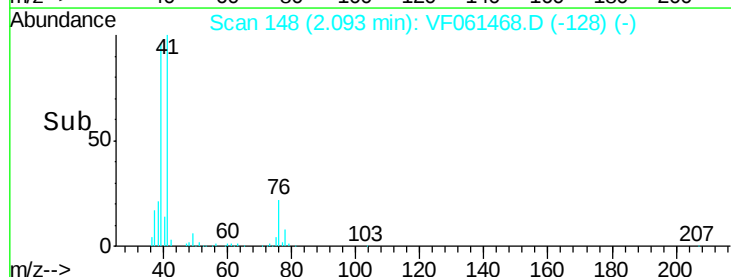
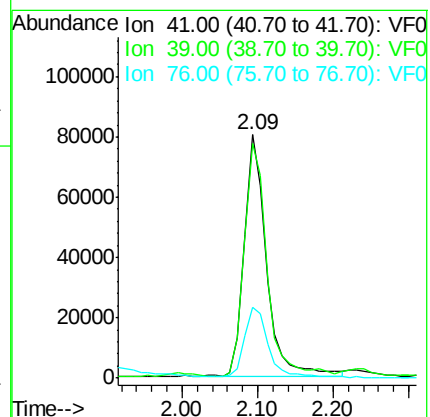
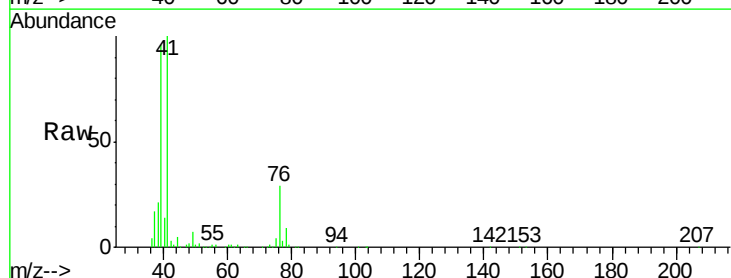
Tgt Ion: 41 Resp: 164050

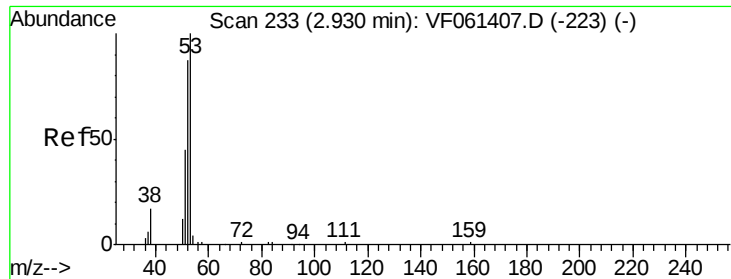
Ion Ratio Lower Upper

41 100

39 96.4 94.6 141.8

76 29.0 25.9 38.9





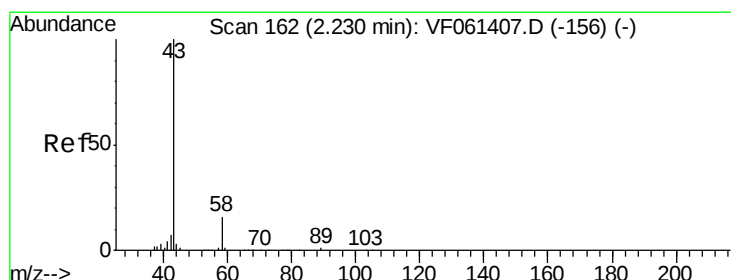
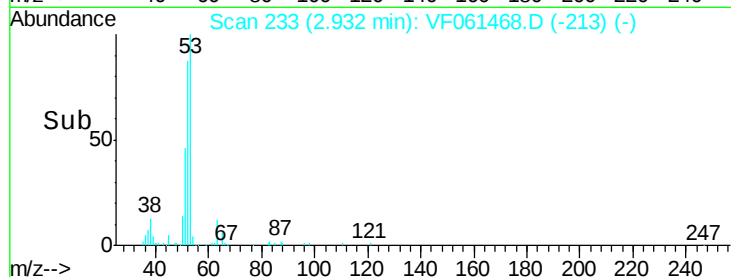
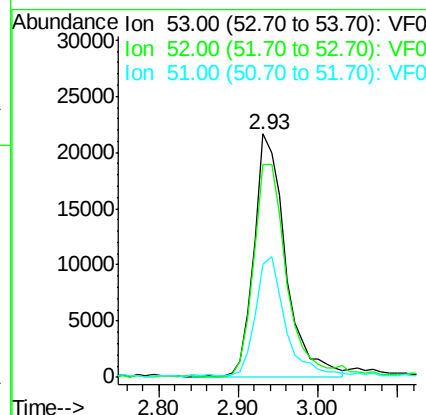
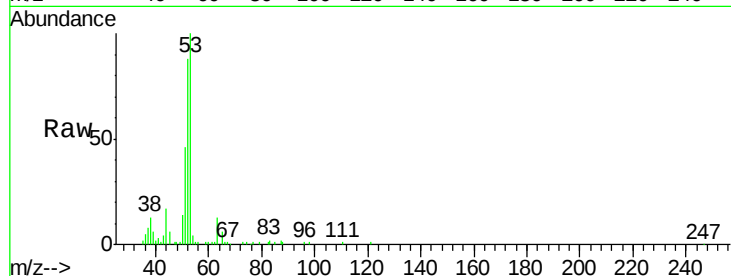
#15
 Acrylonitrile
 Concen: 248.180 ug/l
 RT: 2.93 min Scan# 233
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
53	100		
52	87.5	69.6	104.4
51	46.4	36.8	55.2

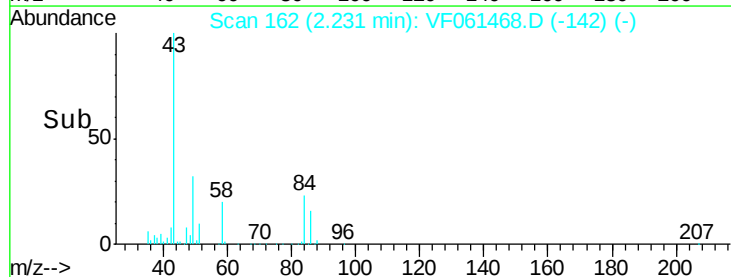
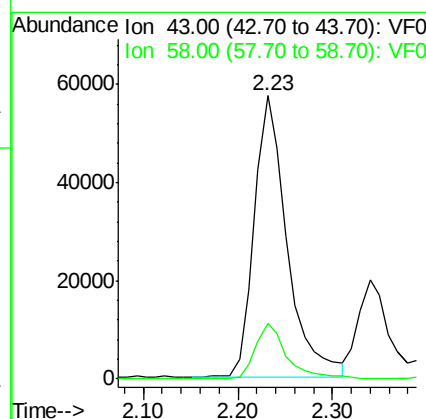
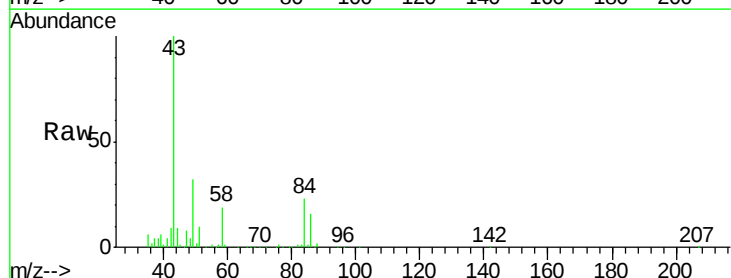
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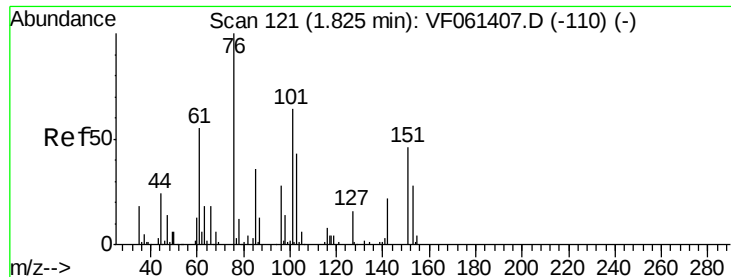
MMDadoda
 1/22/2019 2:50:05 PM



#16
 Acetone
 Concen: 316.085 ug/l
 RT: 2.23 min Scan# 162
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.4	13.3	19.9





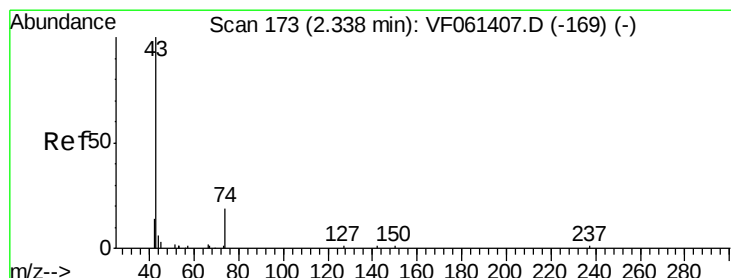
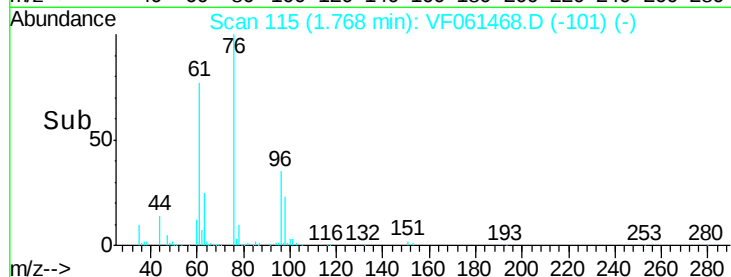
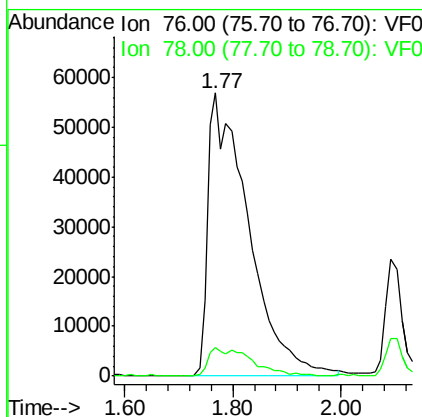
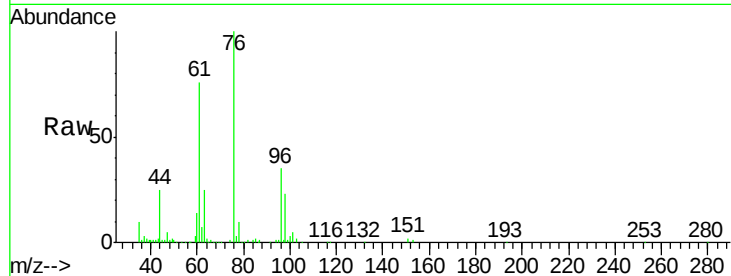
#17
Carbon Disulfide
Concen: 59.992 ug/l
RT: 1.77 min Scan# 115
Delta R.T. -0.06 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.0	9.6	14.4

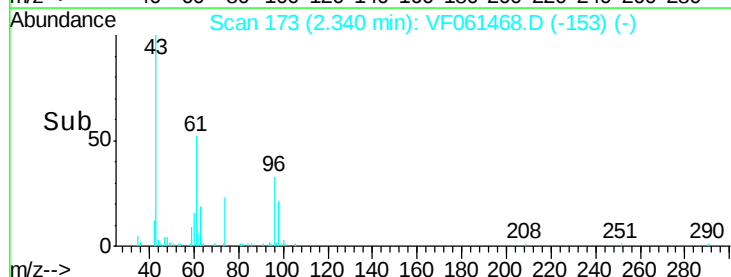
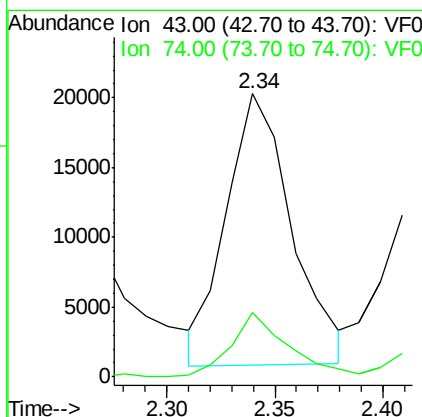
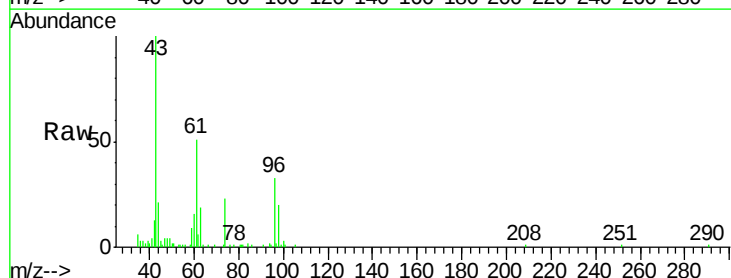
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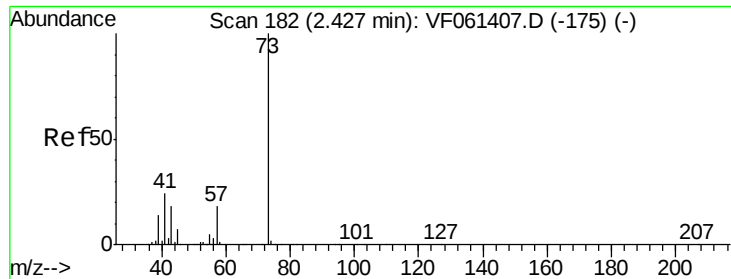
MMDadoda
1/22/2019 2:50:05 PM



#18
Methyl Acetate
Concen: 46.637 ug/l
RT: 2.34 min Scan# 173
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.8	13.4	20.0#





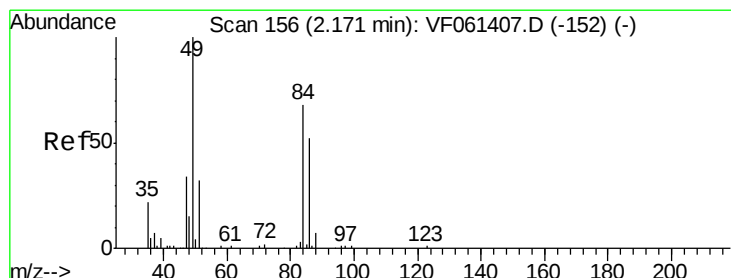
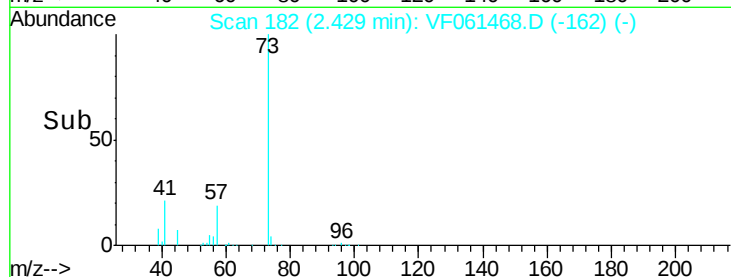
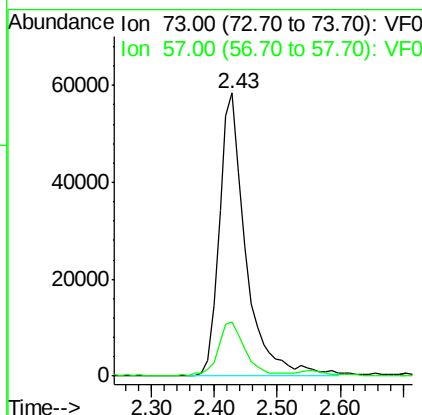
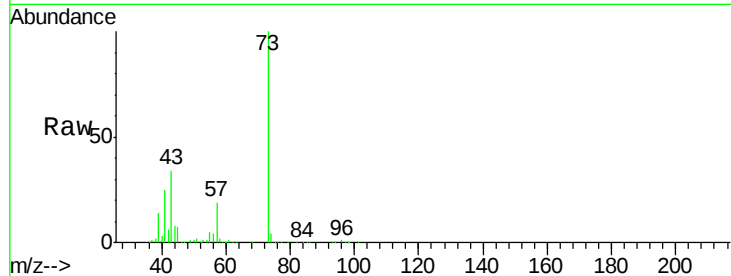
#19
Methvl tert-butvl Ether
Concen: 48.265 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 171608
Ion Ratio Lower Upper
73 100
57 19.4 14.8 22.2

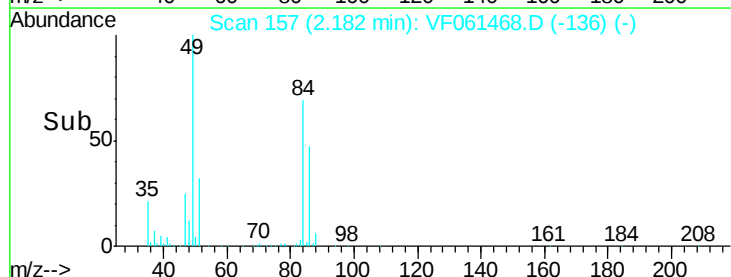
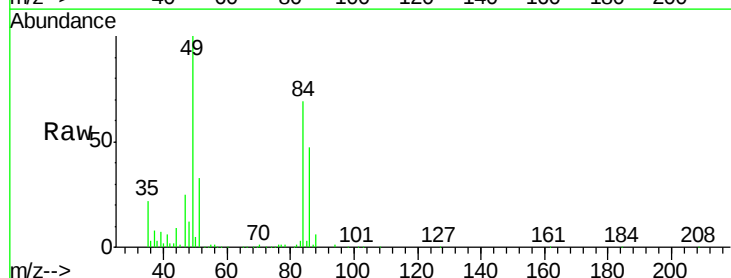
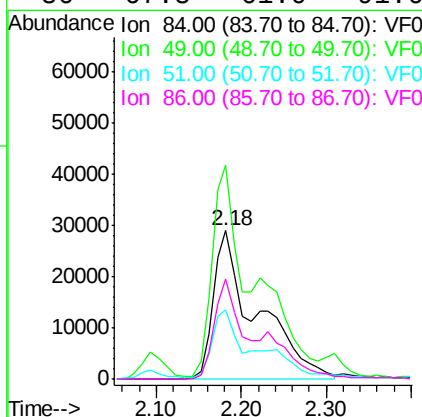
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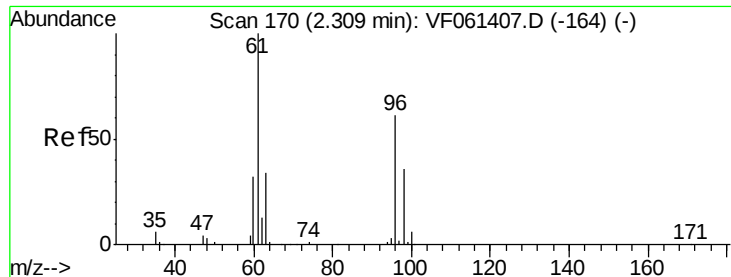
MMDadoda
1/22/2019 2:50:05 PM



#20
Methylene Chloride
Concen: 68.694 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion: 84 Resp: 102012
Ion Ratio Lower Upper
84 100
49 144.0 120.0 180.0
51 47.0 38.6 58.0
86 67.8 61.0 91.6





#21

trans-1,2-Dichloroethene

Concen: 55.841 ug/l

RT: 2.31 min Scan# 170

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

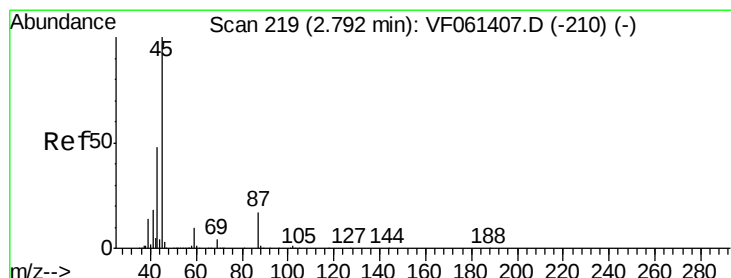
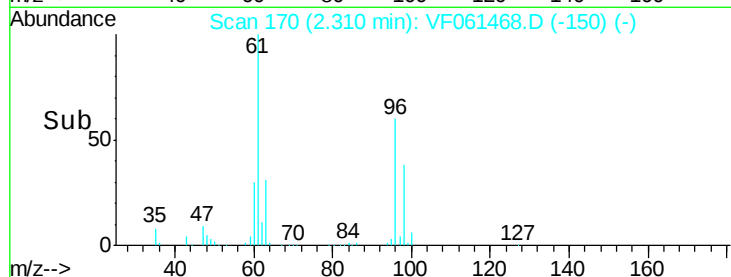
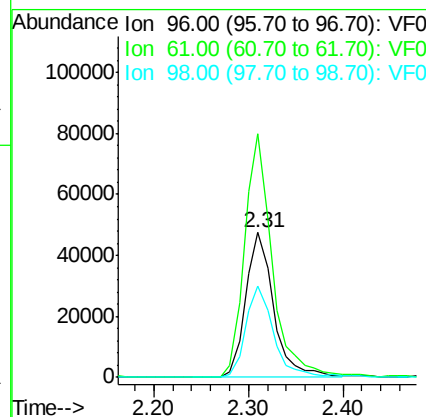
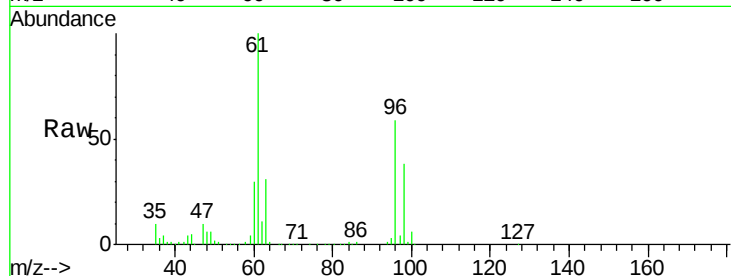
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	97447
Ion	Ratio	Lower	Upper
96	100		
61	168.3	131.8	197.8
98	63.1	47.4	71.0

Manual Integrations
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#22

Diisopropyl ether

Concen: 53.988 ug/l

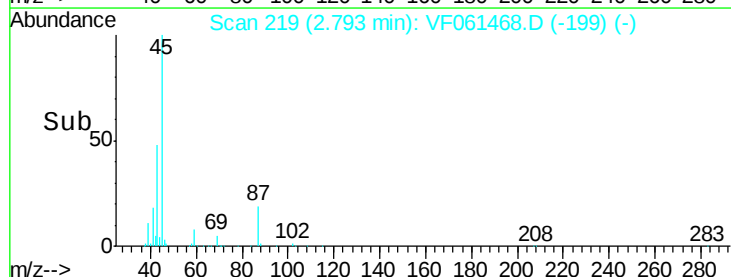
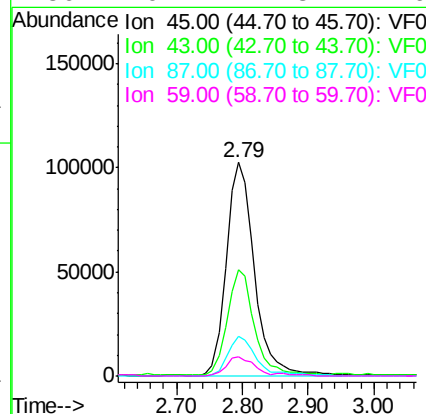
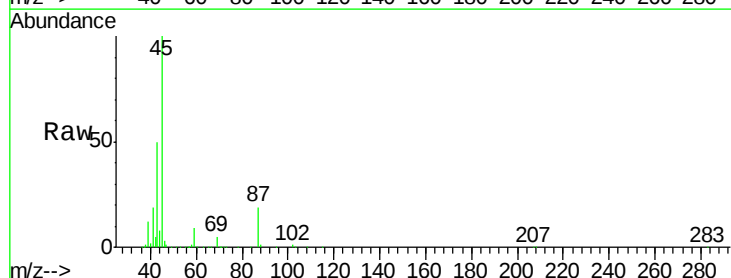
RT: 2.79 min Scan# 219

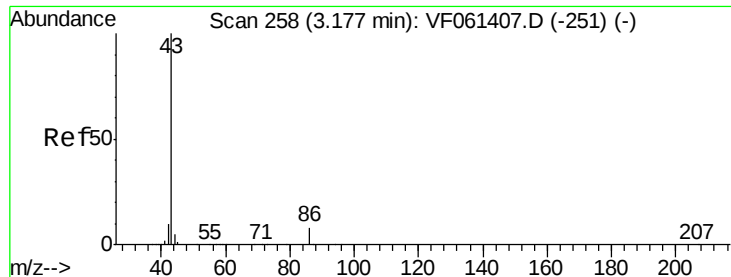
Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion:	45	Resp:	304728
Ion	Ratio	Lower	Upper
45	100		
43	49.6	39.0	58.6
87	18.9	13.9	20.9
59	9.2	7.8	11.6





#23

Vinyl Acetate

Concen: 247.142 ug/l

RT: 3.19 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 613477

Ion Ratio Lower Upper

43 100

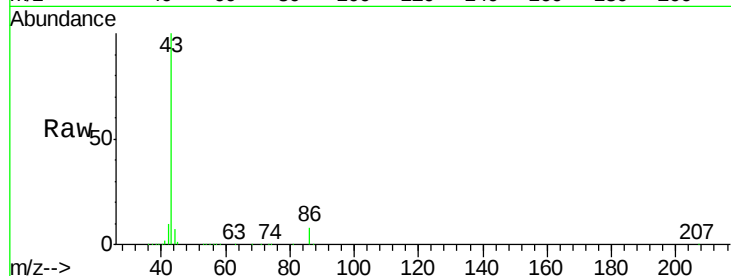
86 7.5 6.2 9.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

250000

200000

150000

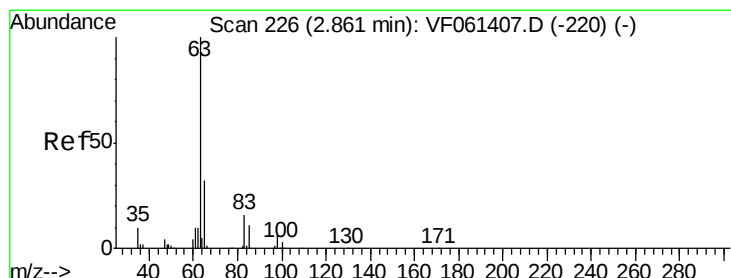
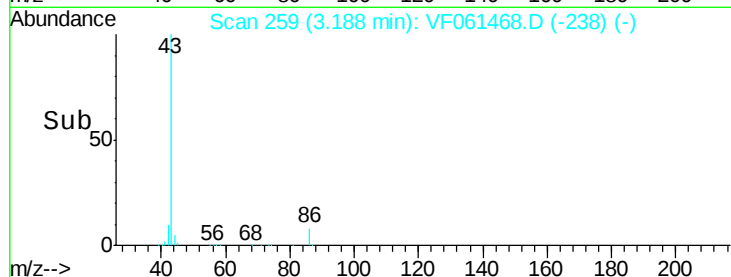
100000

50000

0

3.00 3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 51.973 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

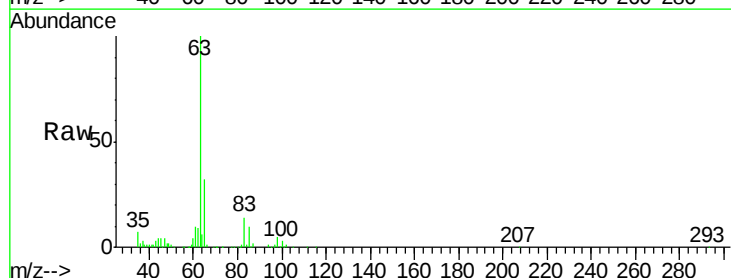
Tgt Ion: 63 Resp: 184116

Ion Ratio Lower Upper

63 100

98 4.8 2.9 8.8

100 3.2 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

100000

80000

60000

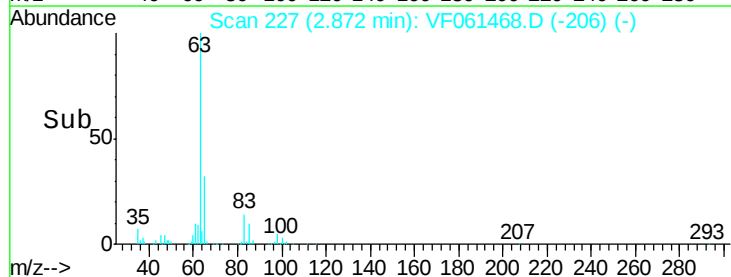
40000

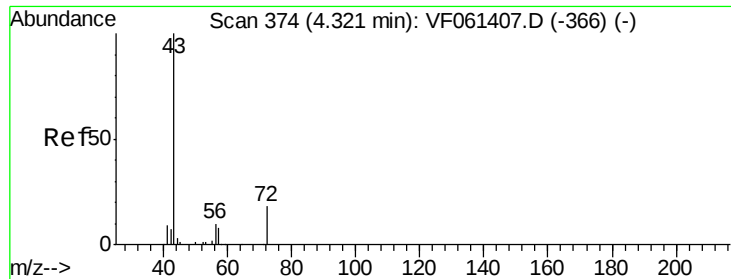
20000

0

2.70 2.80 2.90 3.00 3.10

Time-->





#25

2-Butanone

Concen: 247.322 ug/l

RT: 4.32 min Scan# 374

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 181664

Ion Ratio Lower Upper

43 100

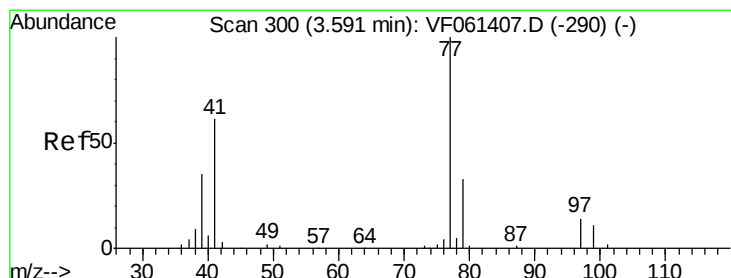
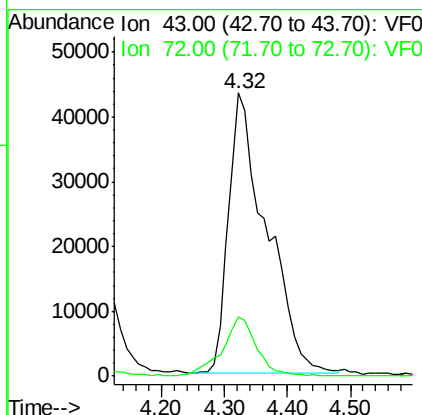
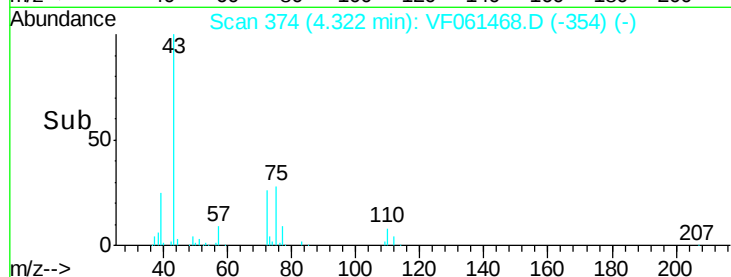
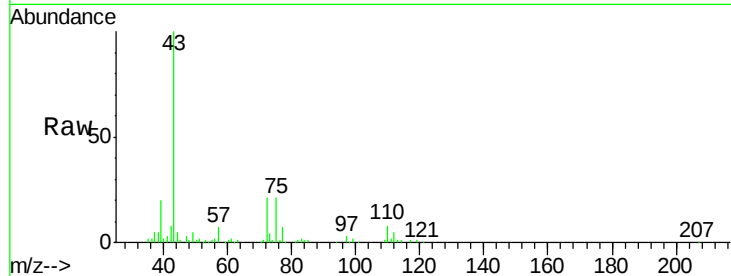
72 20.9 15.8 23.6

Manual Integrations

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MMDadoda

1/22/2019 2:50:05 PM



#26

2,2-Dichloropropane

Concen: 55.090 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061468.D

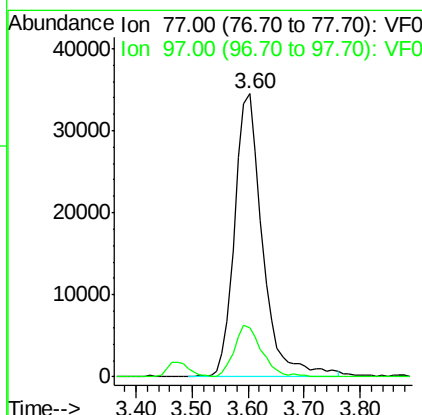
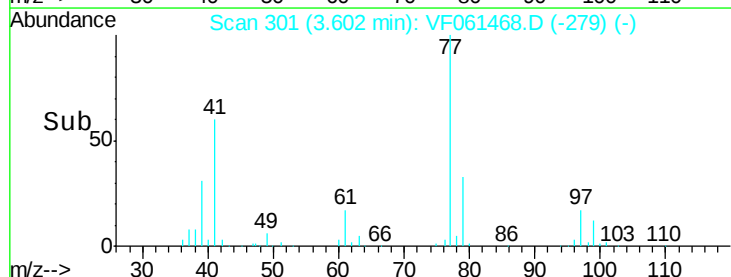
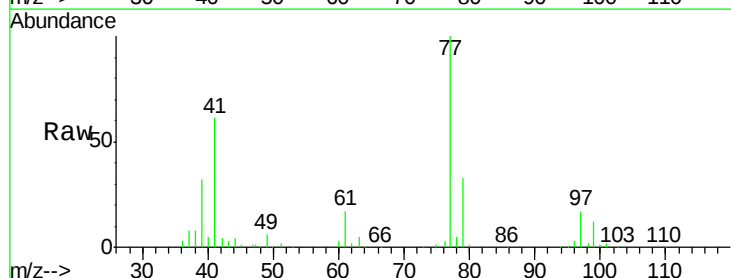
Acq: 21 Jan 2019 11:39

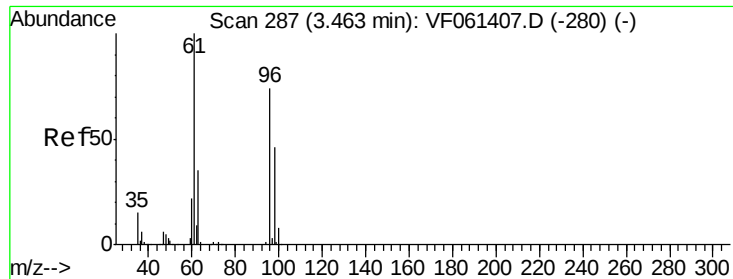
Tgt Ion: 77 Resp: 119904

Ion Ratio Lower Upper

77 100

97 17.3 8.5 25.5





#27

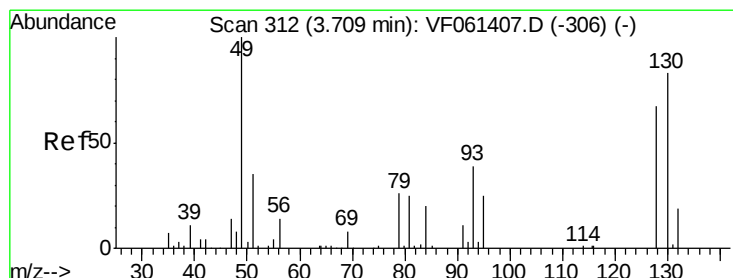
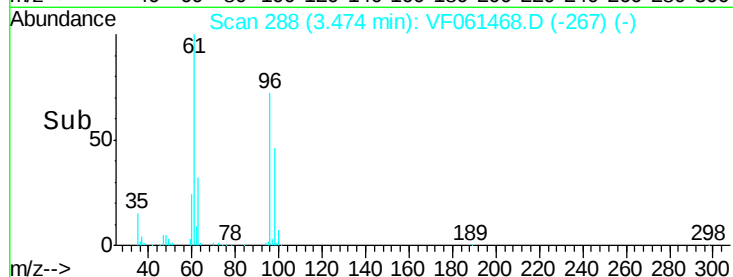
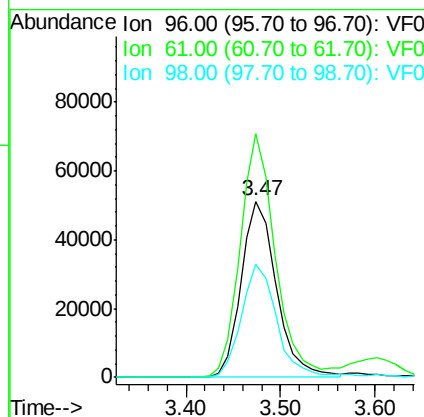
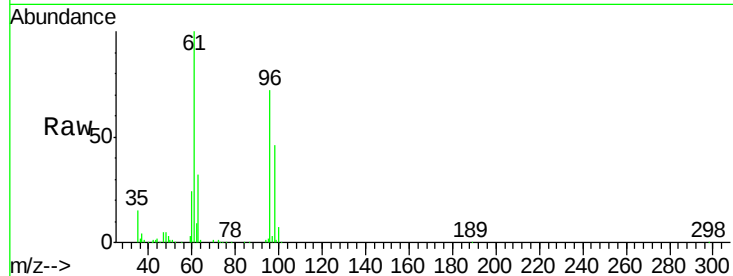
cis-1,2-Dichloroethene
Concen: 51.769 ug/l
RT: 3.47 min Scan# 288
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	138.3	0.0	270.2		
98	64.2	0.0	124.0		

Manual Integrations
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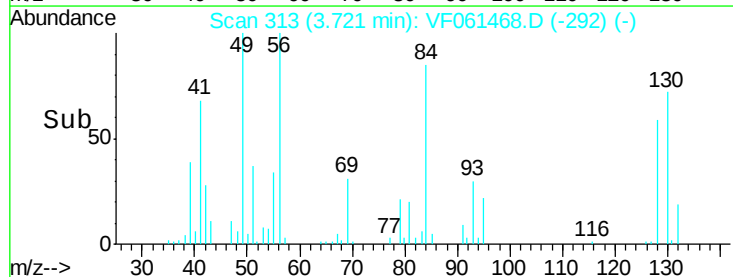
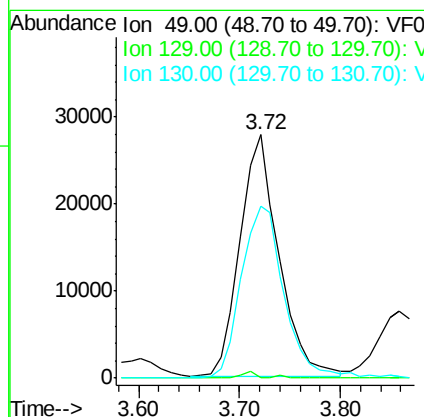
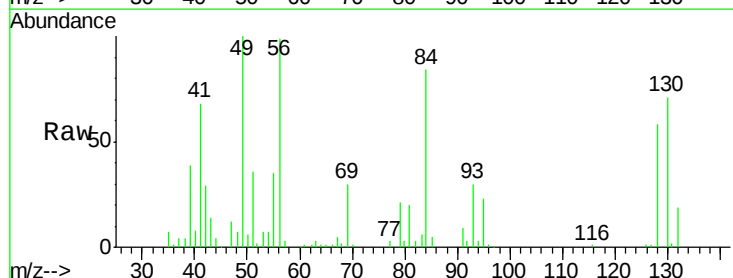
MMDadoda
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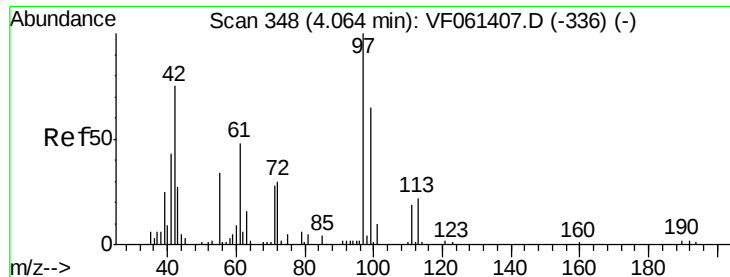


#28

Bromochloromethane
Concen: 46.715 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100				
129	0.0	0.0	0.0		
130	70.9	65.4	98.2		





#29

Tetrahydrofuran

Concen: 239.161 ug/l

RT: 4.07 min Scan# 348

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

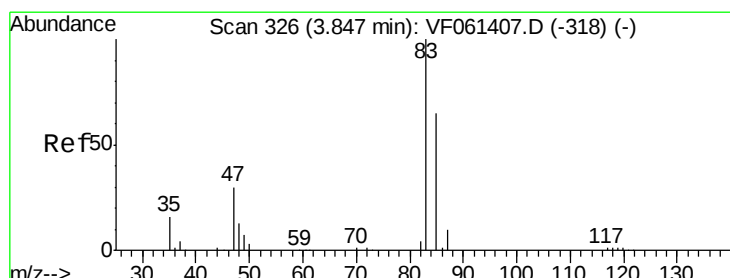
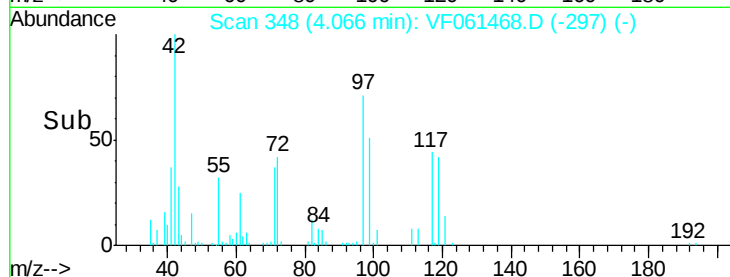
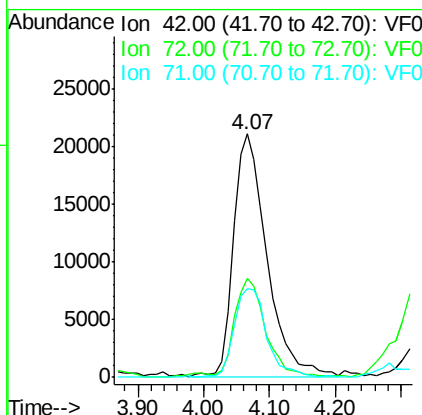
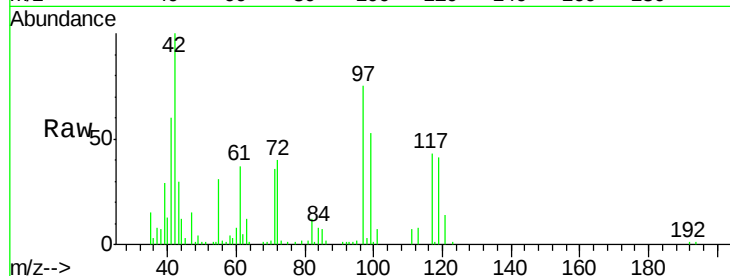
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	75642
Ion	Ratio	Lower	Upper
42	100		
72	38.3	28.9	43.3
71	35.2	29.6	44.4

Manual Integrations
APPROVED

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#30

Chloroform

Concen: 47.693 ug/l

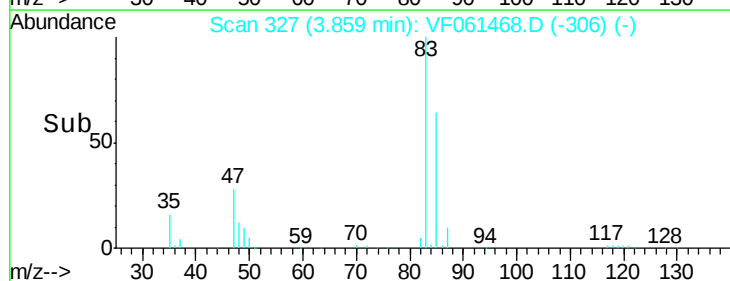
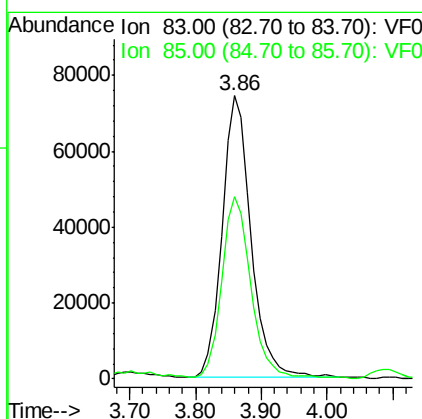
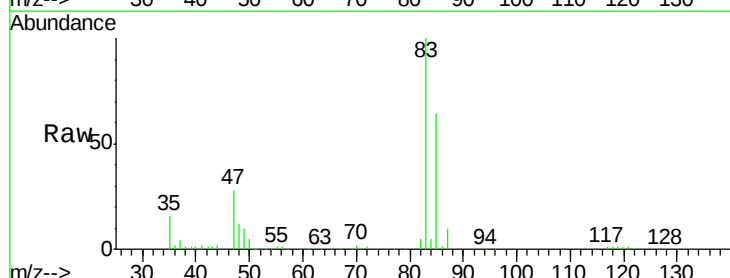
RT: 3.86 min Scan# 327

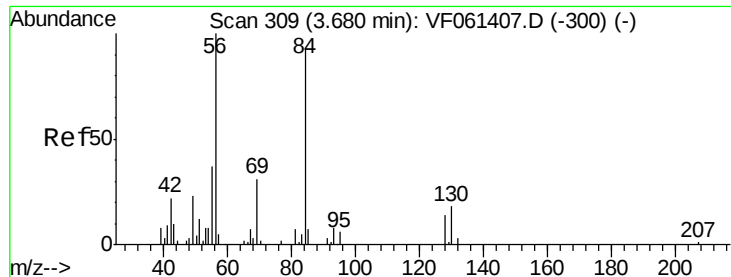
Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion:	83	Resp:	228014
Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.7	79.1





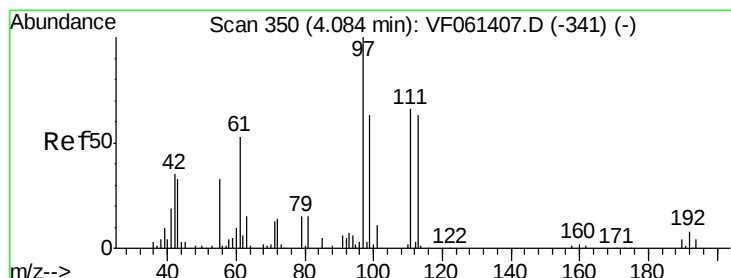
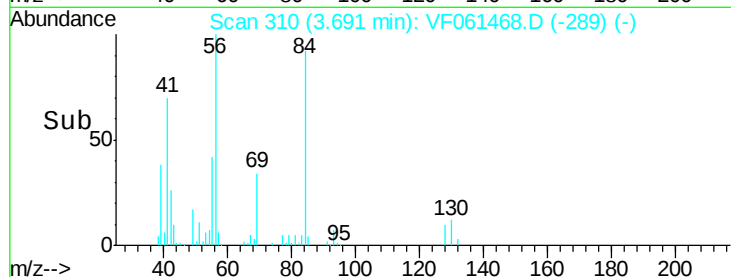
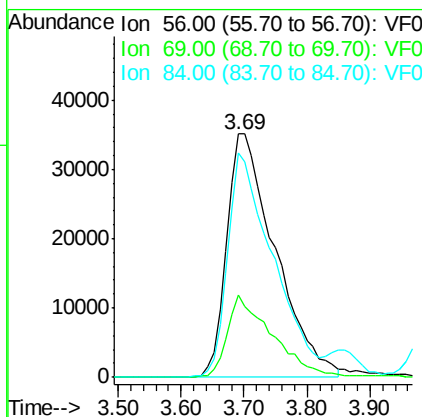
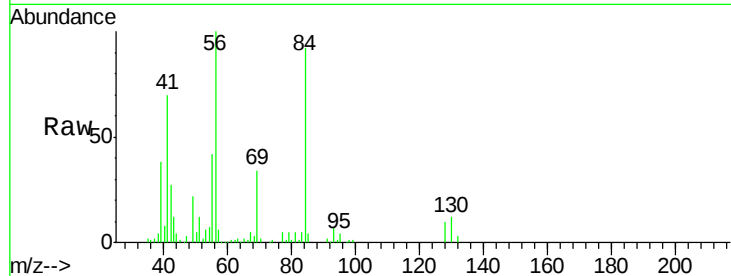
#31
Cvclohexane
Concen: 52.801 ug/l
RT: 3.69 min Scan# 310
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.7	24.6	36.8
84	92.2	74.2	111.2

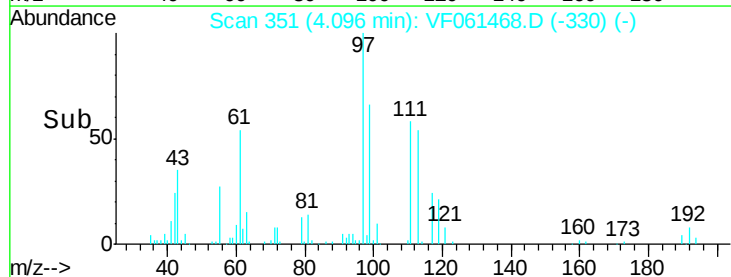
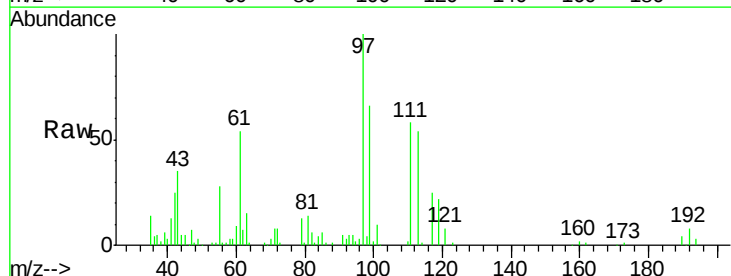
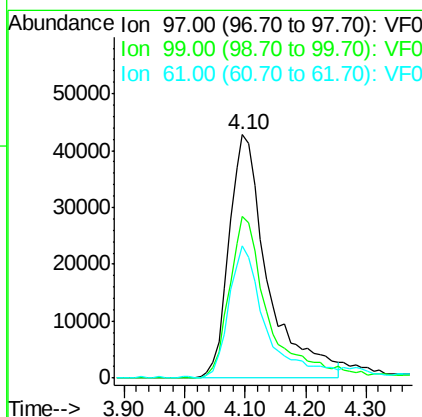
Manual Integrations
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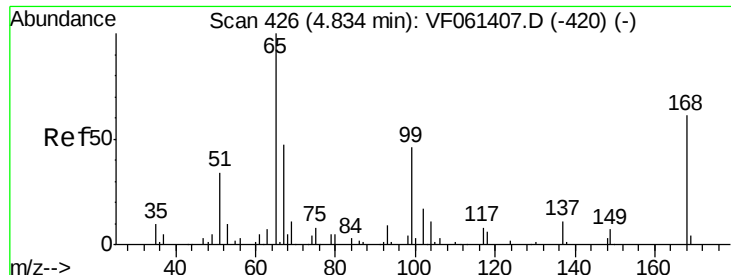
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#32
1,1,1-Trichloroethane
Concen: 54.446 ug/l
RT: 4.10 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.2	50.1	75.1
61	54.3	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 45.700 ug/l

RT: 4.85 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061468.D

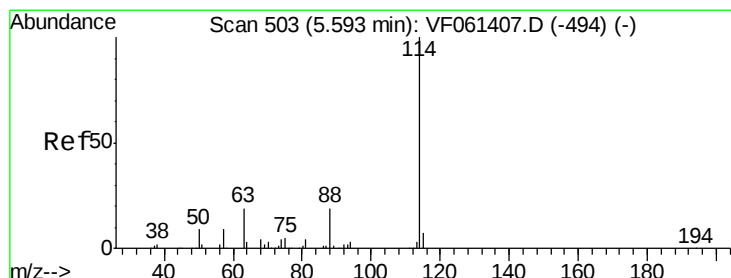
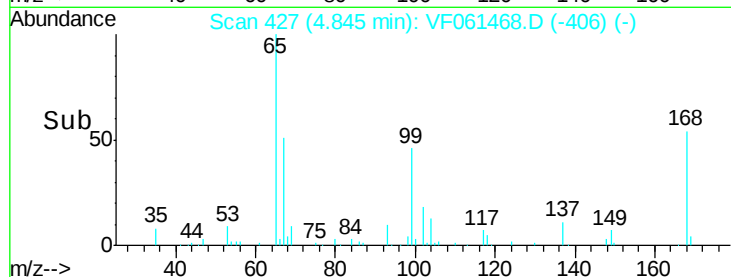
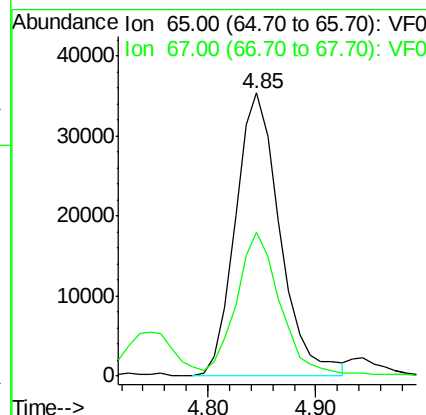
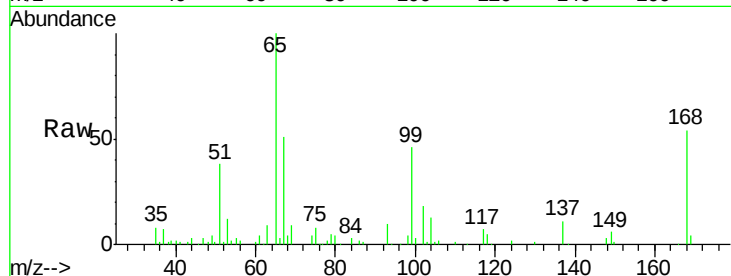
Acq: 21 Jan 2019 11:39

Tot Ion	Ratio	Resp	Lower	Upper
65	100	100620		
67	50.8	0.0	99.8	

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Manual Integrations
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1/22/2019 2:50:05 PM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

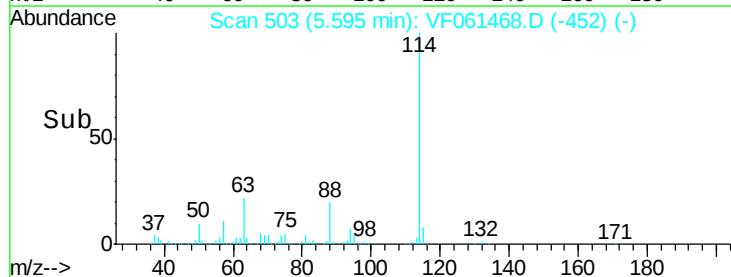
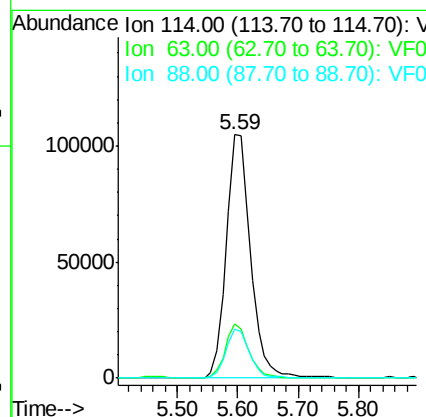
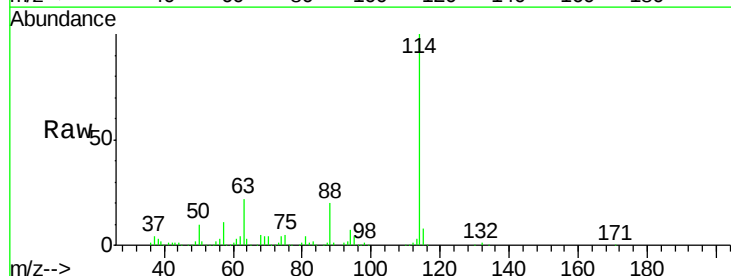
RT: 5.59 min Scan# 503

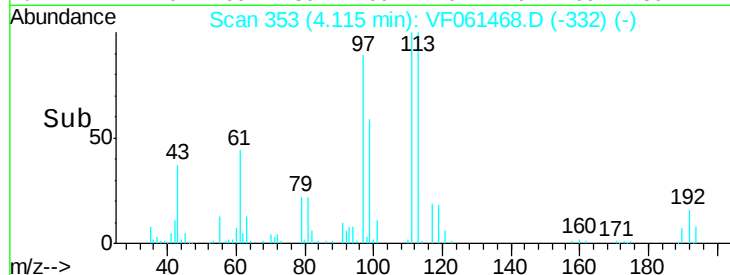
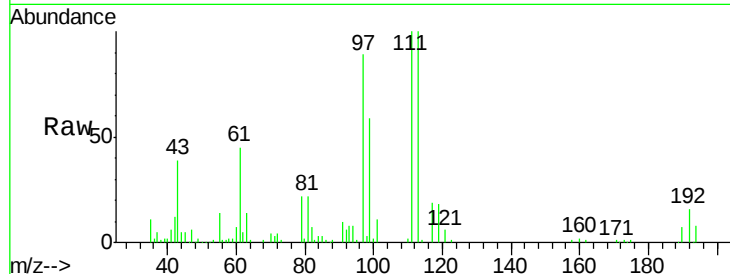
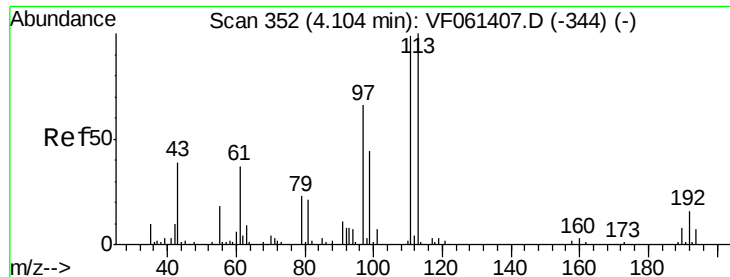
Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	295049		
63	22.2	0.0	39.0	
88	20.0	0.0	37.4	





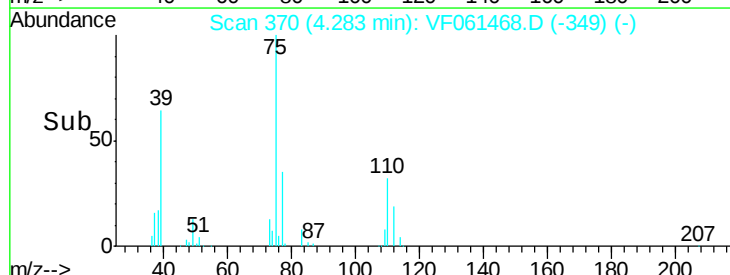
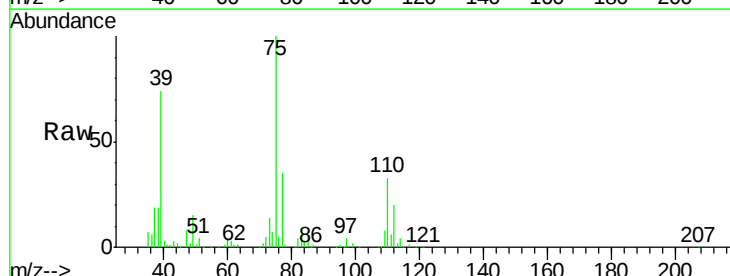
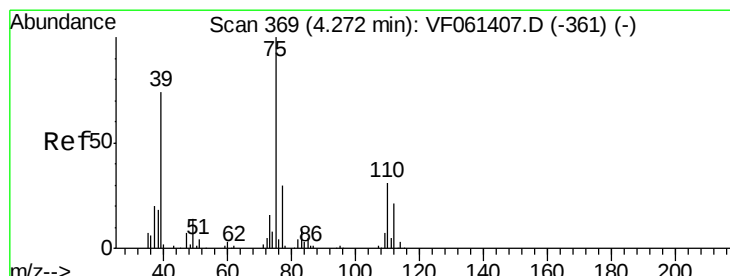
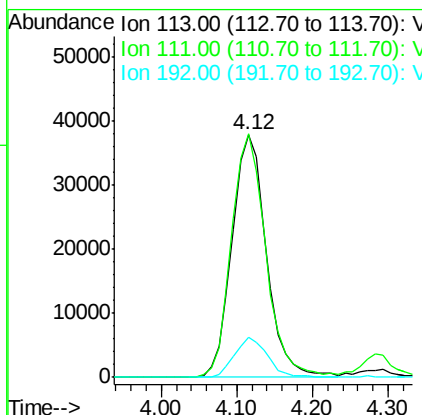
#35
Dibromofluoromethane
Concen: 51.253 ug/l
RT: 4.12 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tot Ion	Ratio	Resp	Lower	Upper
113	100	119327		
111	100.5	79.4	119.0	
192	16.3	12.4	18.6	

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

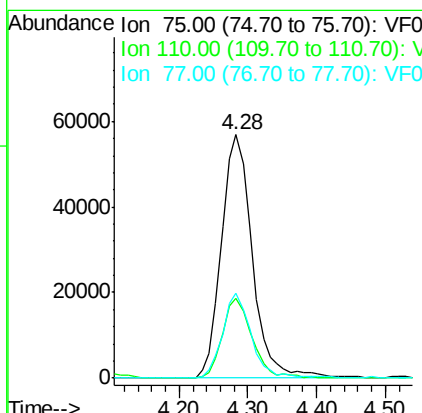
Manual Integrations
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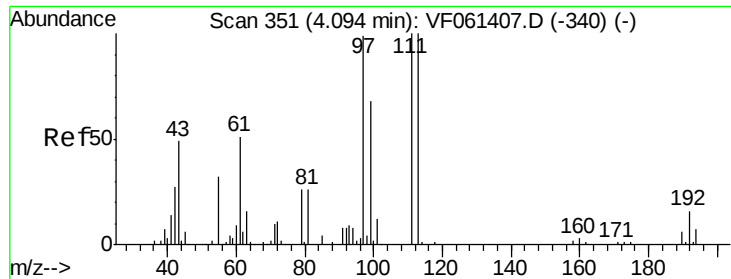
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#36
1,1-Dichloropropene
Concen: 51.891 ug/l
RT: 4.28 min Scan# 370
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	177515		
110	32.5	15.8	47.3	
77	35.0	24.0	36.0	





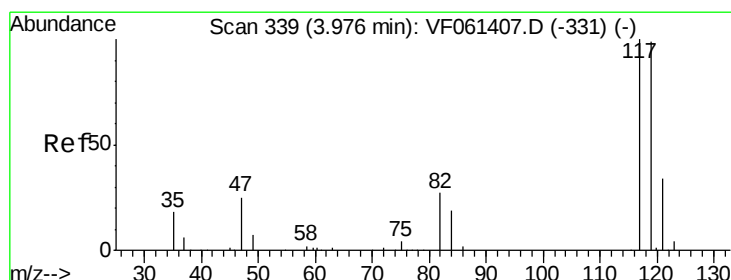
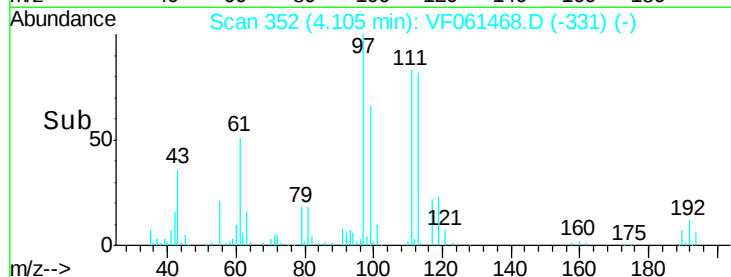
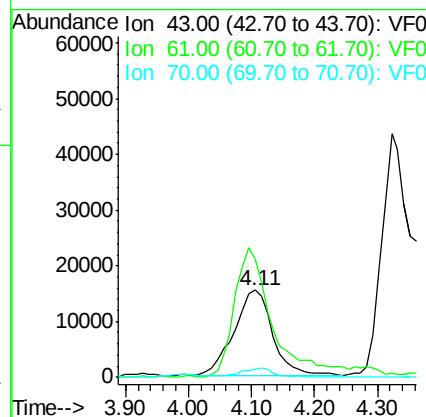
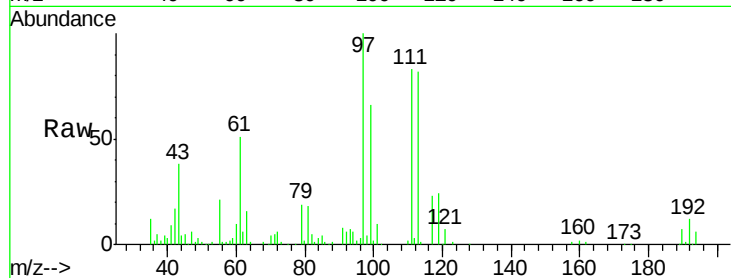
#37
Ethyl Acetate
Concen: 47.396 ug/l
RT: 4.11 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	135.2	81.7	122.5#
70	9.5	6.2	9.2#

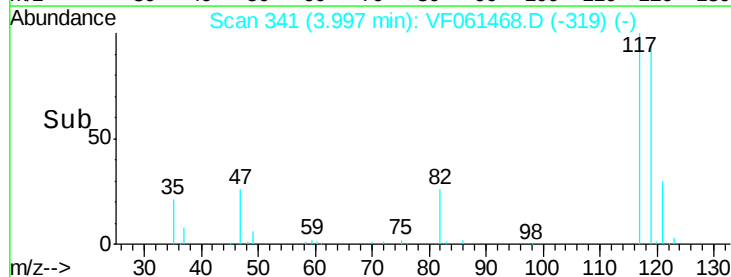
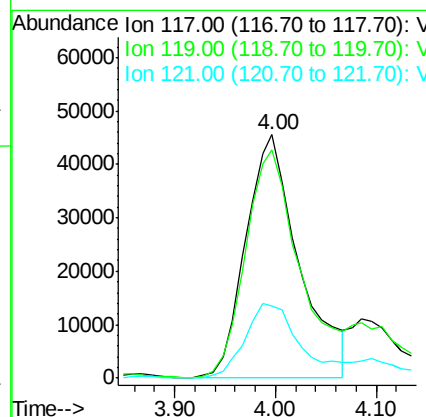
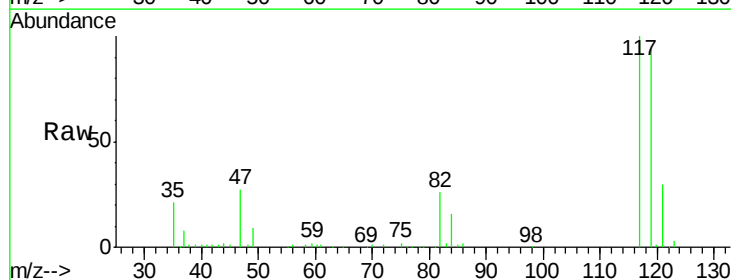
Manual Integrations
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#38
Carbon Tetrachloride
Concen: 56.354 ug/l
RT: 4.00 min Scan# 341
Delta R.T. 0.02 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.6	79.0	118.6
121	29.7	27.0	40.6





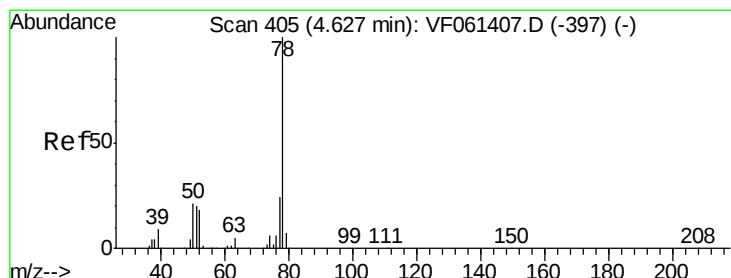
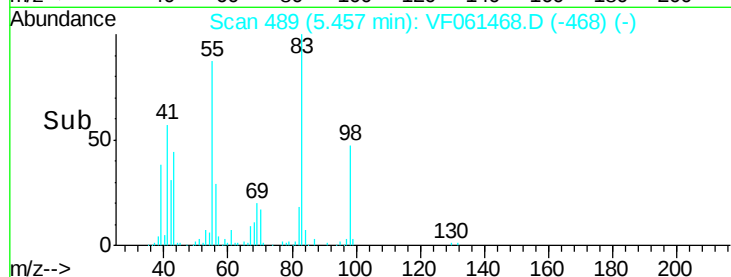
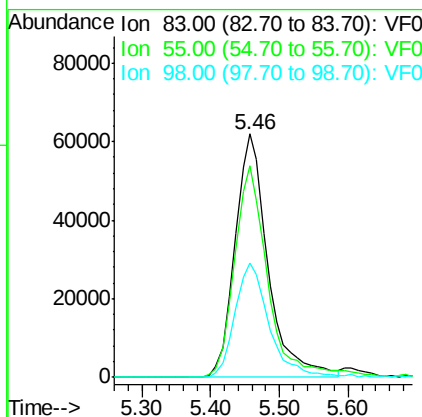
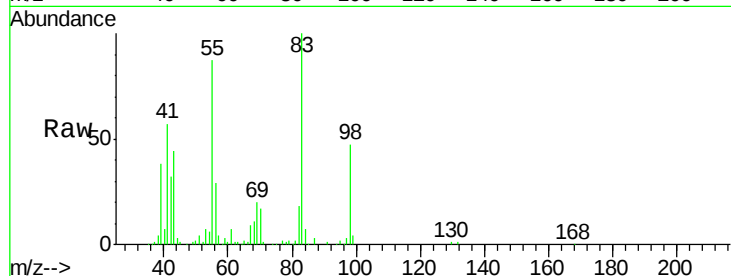
#39
Methvlcvclohexane
Concen: 55.580 ug/l
RT: 5.46 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	87.1	67.4	101.2
98	47.1	36.7	55.1

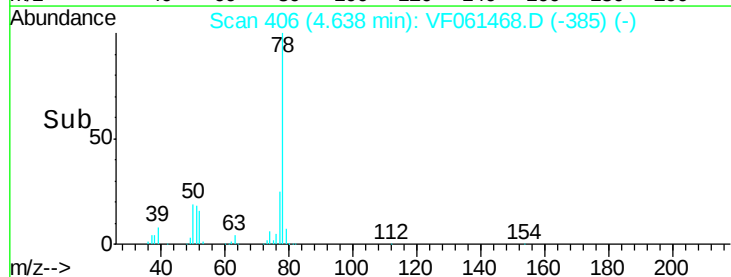
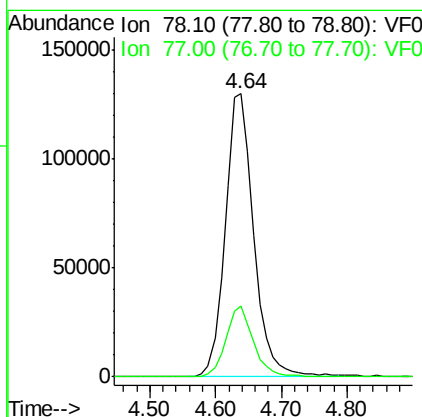
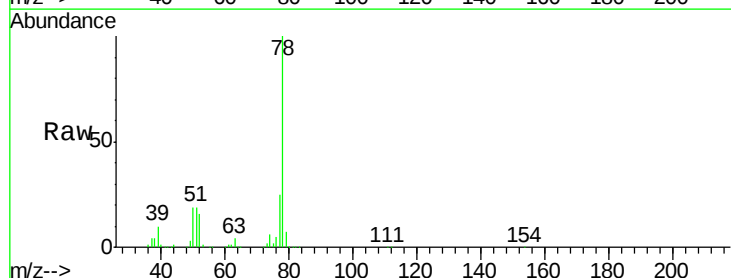
Manual Integrations
APPROVED

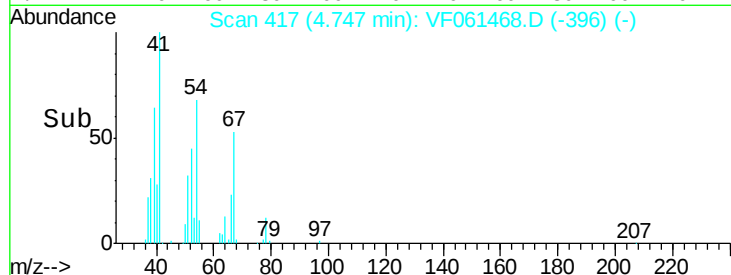
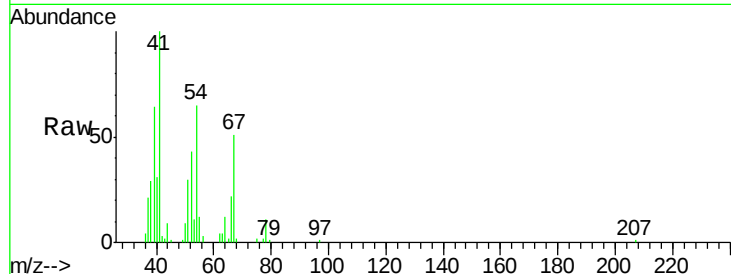
MMDadoda
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#40
Benzene
Concen: 51.783 ug/l
RT: 4.64 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.0	28.6





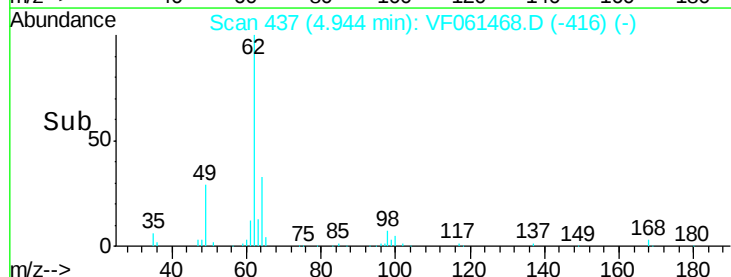
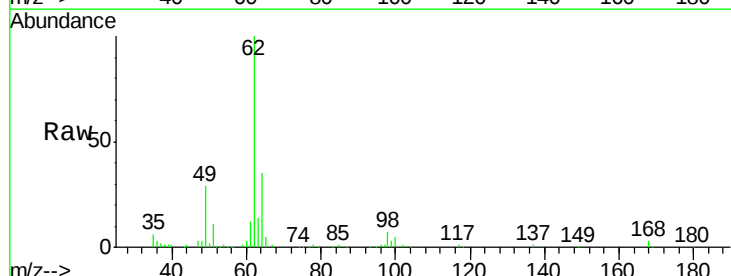
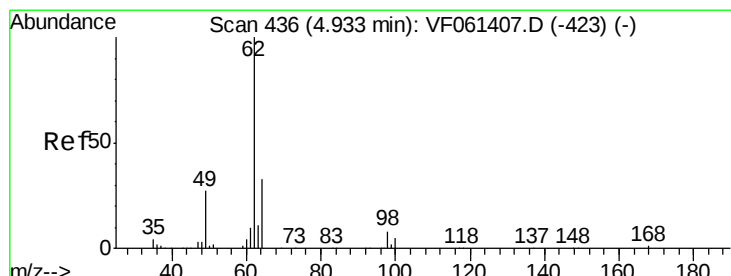
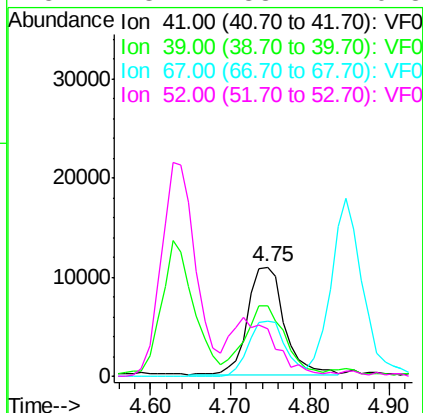
#41
Methacrylonitrile
Concen: 47.297 ug/l
RT: 4.75 min Scan# 417
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		34415		
39	64.5	43.1	64.7		
67	50.7	38.8	58.2		
52	43.1	33.2	49.8		

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

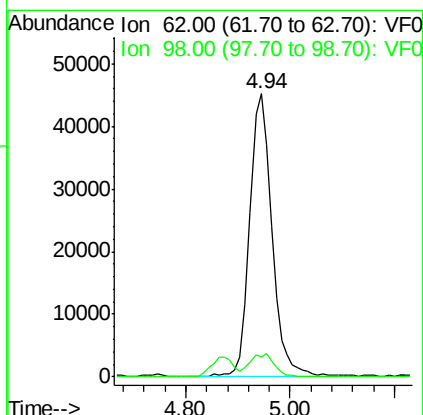
Manual Integrations
APPROVED

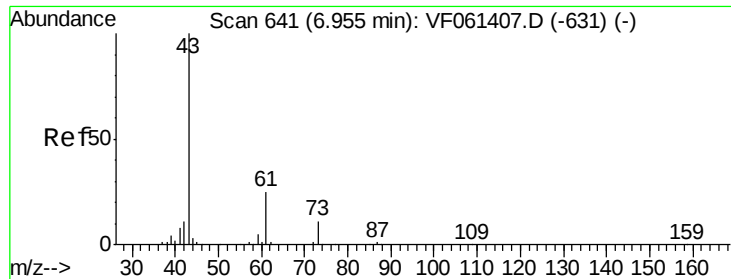
MMDadoda
1/22/2019 2:50:05 PM



#42
1,2-Dichloroethane
Concen: 48.368 ug/l
RT: 4.94 min Scan# 437
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		131200		
98	7.1	0.0	17.0		





#43

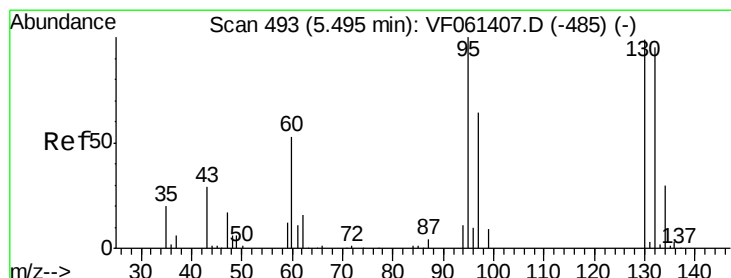
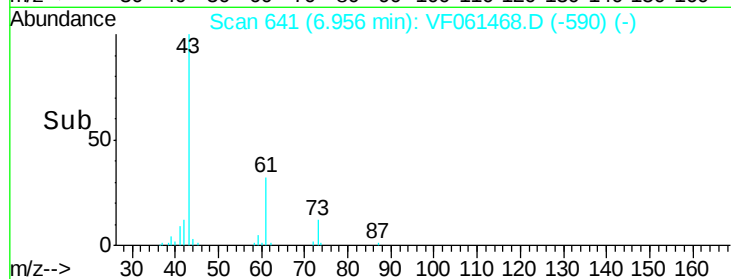
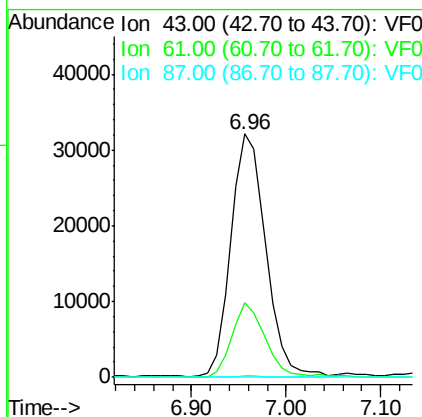
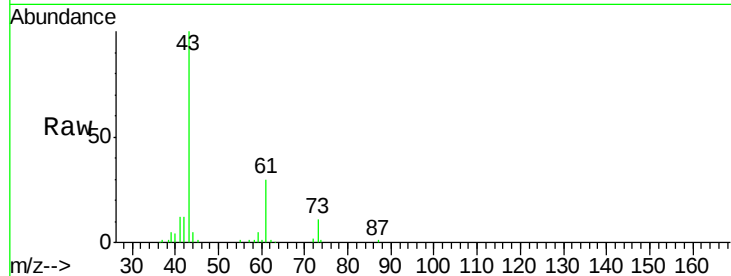
Isopropyl Acetate
 Concen: 47.433 ug/l
 RT: 6.96 min Scan# 641
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

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

Manual Integrations
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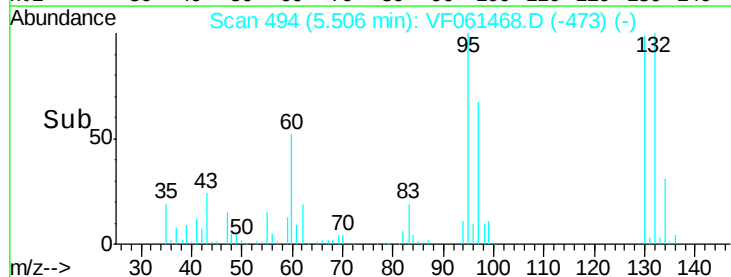
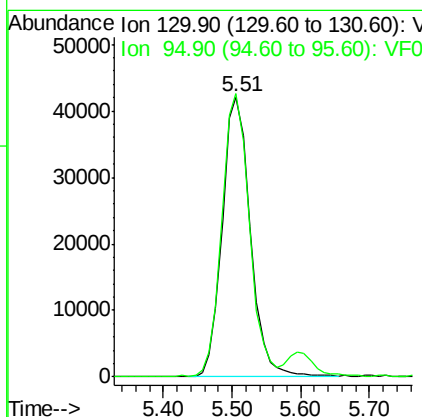
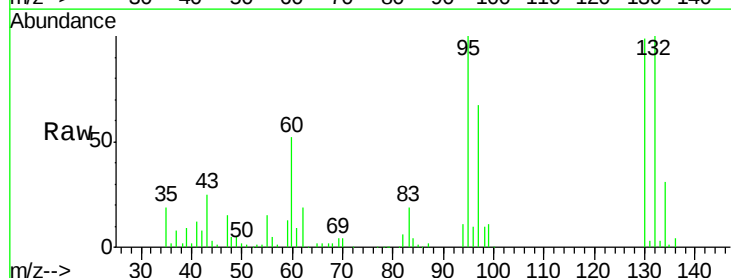
MMDadoda
 1/22/2019 2:50:05 PM

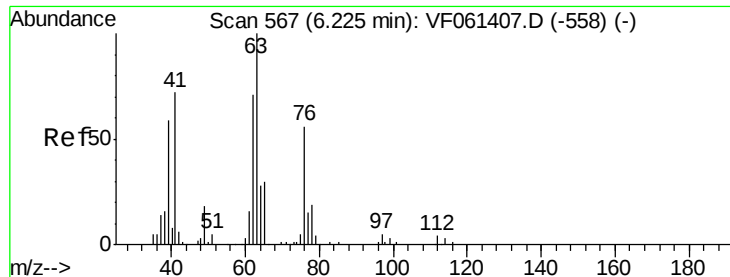


#44

Trichloroethene
 Concen: 51.285 ug/l
 RT: 5.51 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	202.8





#45

1,2-Dichloropropane

Concen: 52.422 ug/l

RT: 6.24 min Scan# 568

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 104732

Ion Ratio Lower Upper

63 100

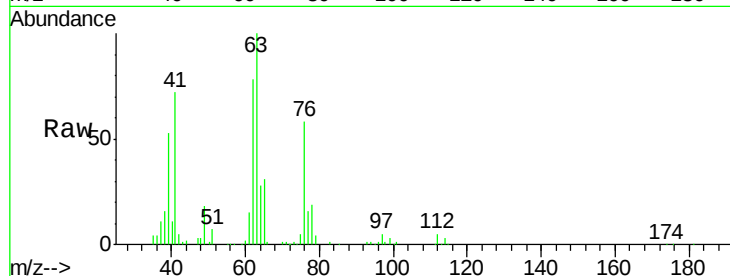
65 31.0 24.4 36.6

Manual Integrations

APPROVED

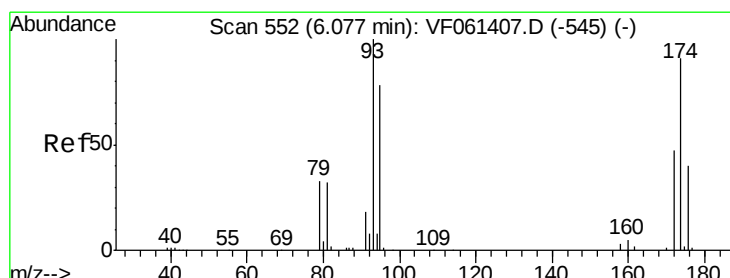
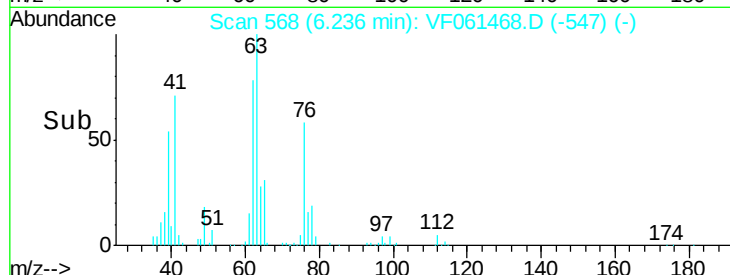
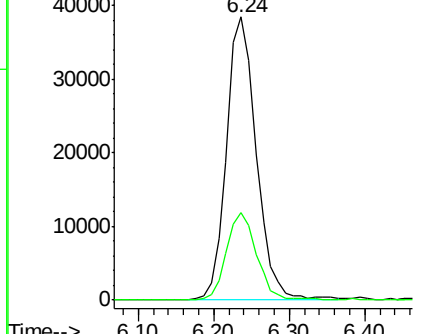
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 49.169 ug/l

RT: 6.09 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

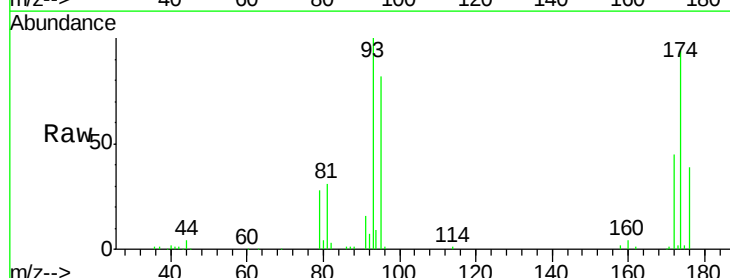
Tgt Ion: 93 Resp: 65318

Ion Ratio Lower Upper

93 100

95 82.4 62.1 93.1

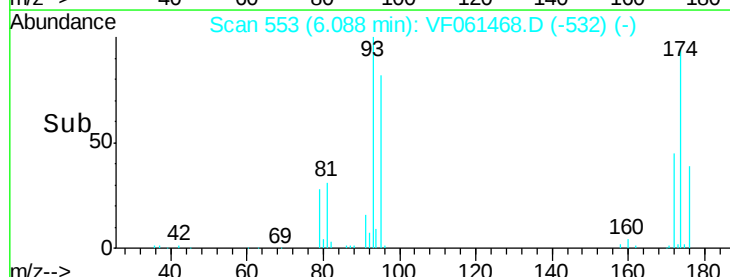
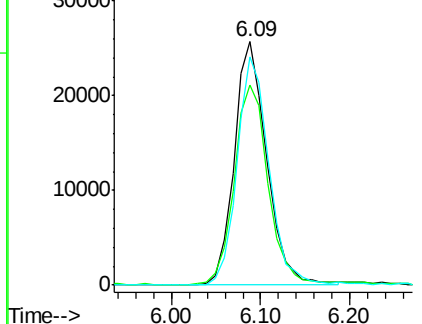
174 93.9 74.6 111.8



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 51.117 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

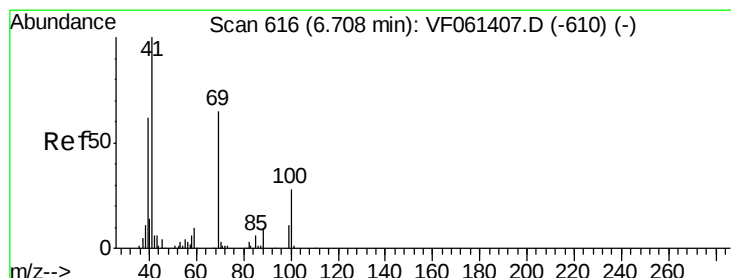
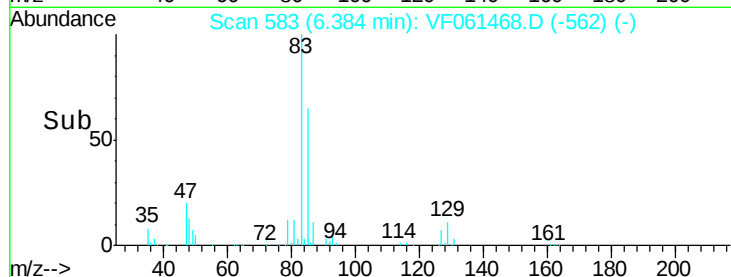
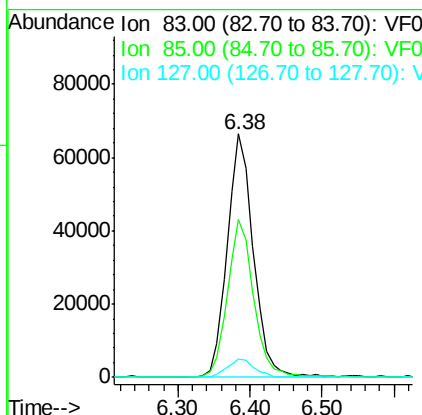
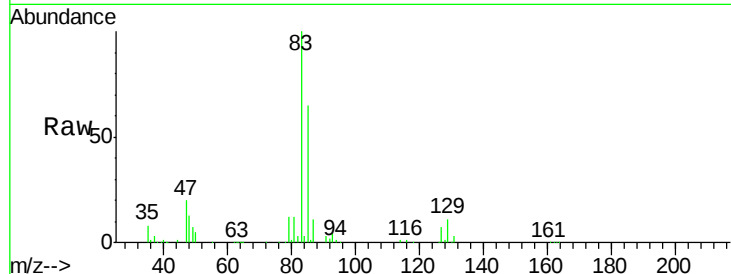
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	168012
Ion Ratio	Lower	Upper	
83	100		
85	64.7	53.0	79.4
127	7.4	6.9	10.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 48.723 ug/l

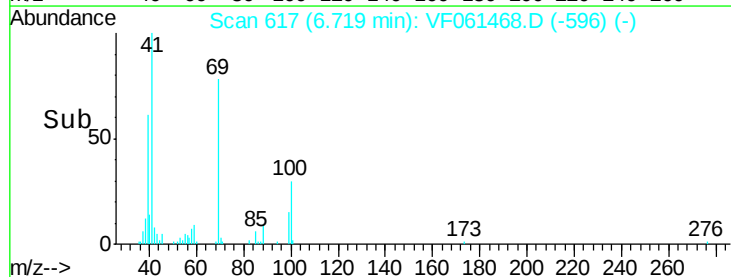
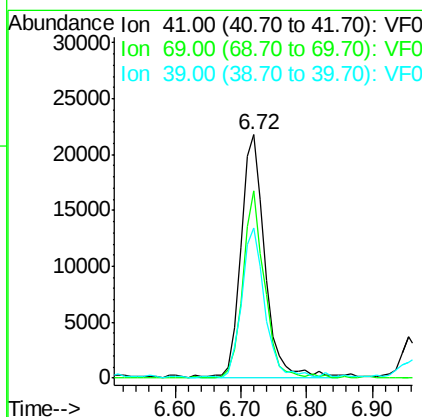
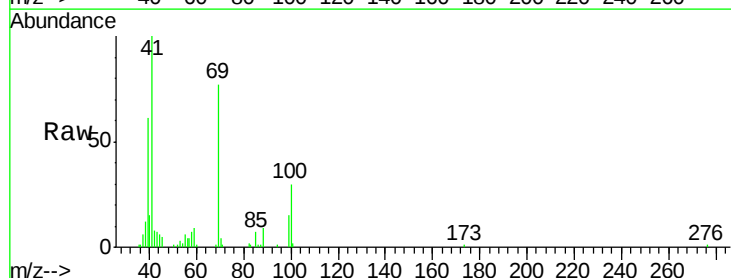
RT: 6.72 min Scan# 617

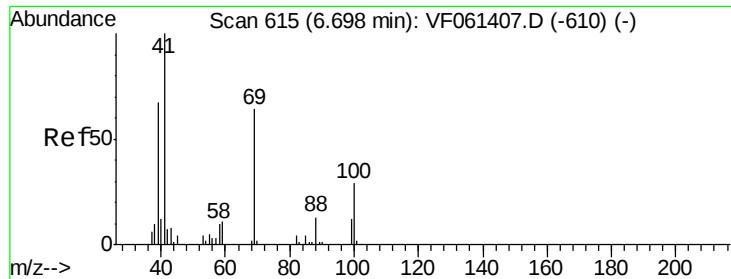
Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion:	41	Resp:	56152
Ion Ratio	Lower	Upper	
41	100		
69	77.1	51.7	77.5
39	61.5	49.2	73.8





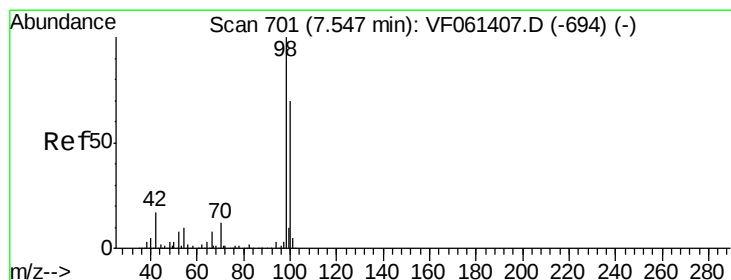
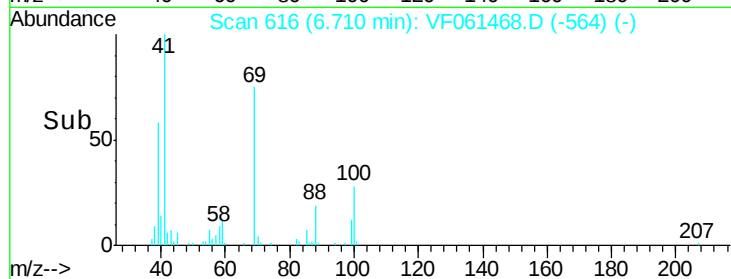
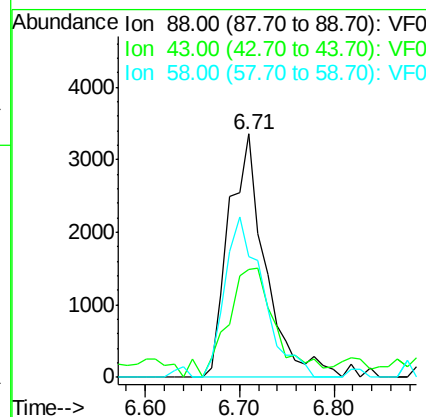
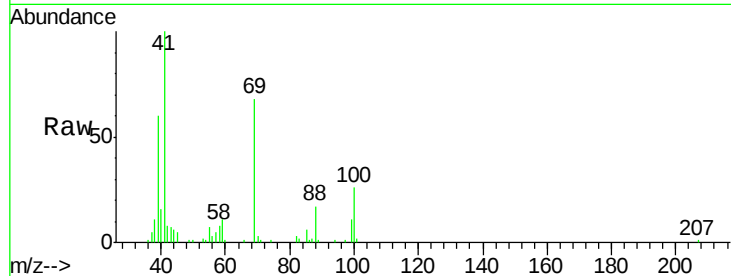
#49
1,4-Dioxane
Concen: 1132.809 ug/l
RT: 6.71 min Scan# 616
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	44.4	55.5	83.3#
58	49.8	59.9	89.9#

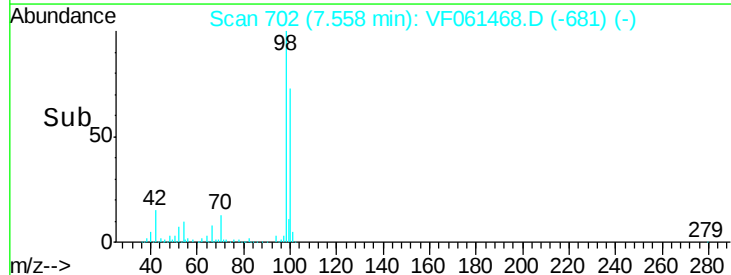
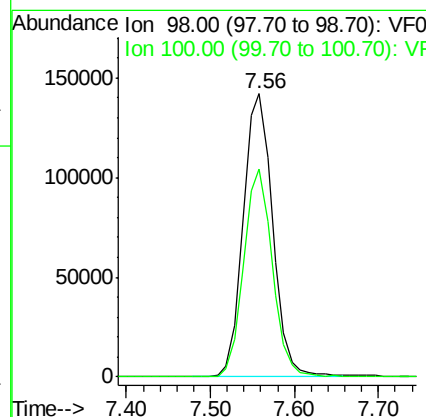
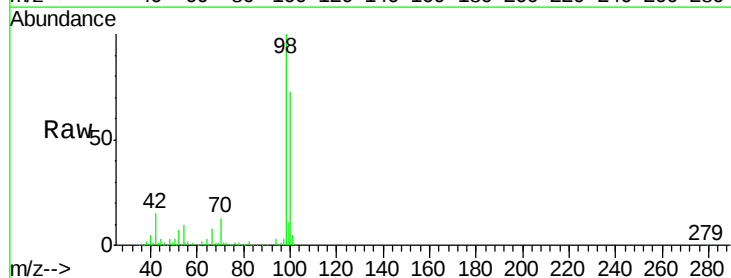
Manual Integrations
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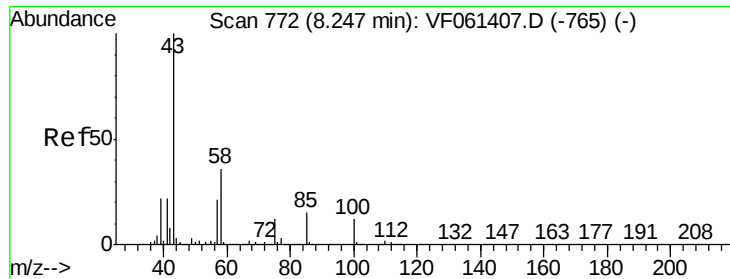
MMDadoda
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#50
Toluene-d8
Concen: 54.474 ug/l
RT: 7.56 min Scan# 702
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	73.5	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 249.364 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 314629

Ion Ratio Lower Upper

43 100

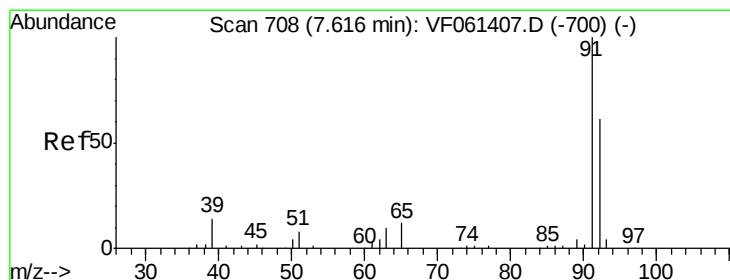
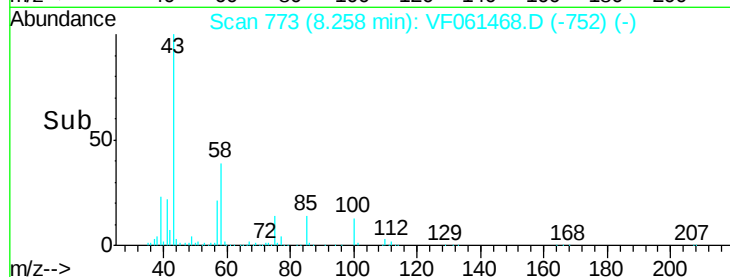
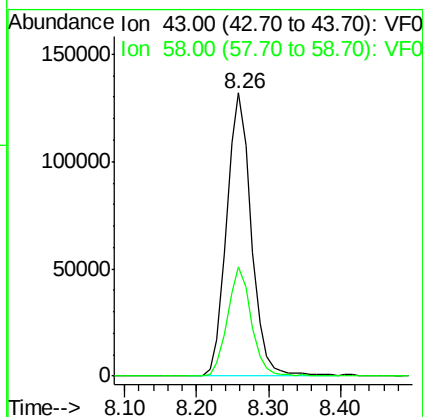
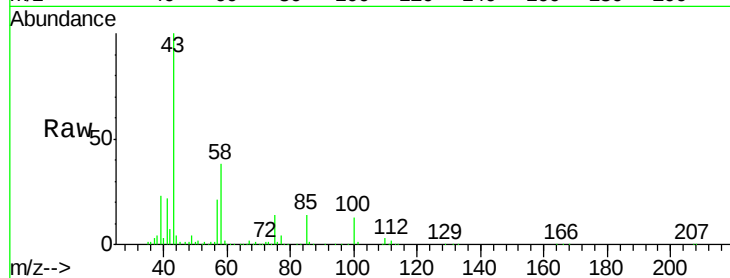
58 38.5 28.8 43.2

Manual Integrations

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#52

Toluene

Concen: 52.326 ug/l

RT: 7.63 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061468.D

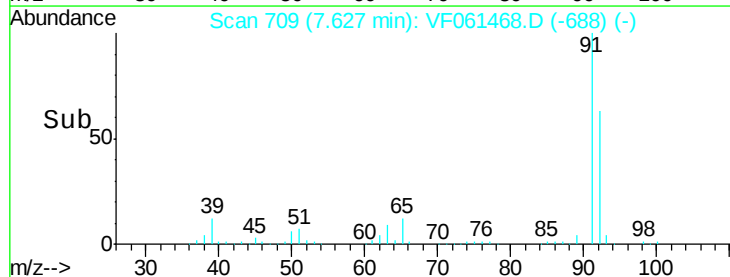
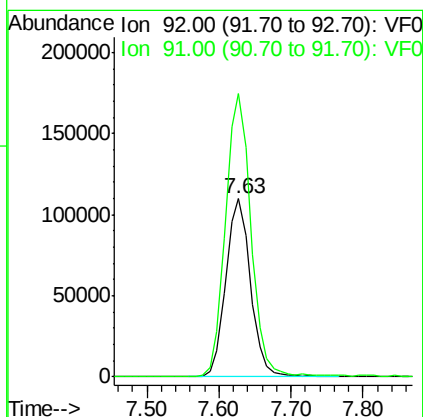
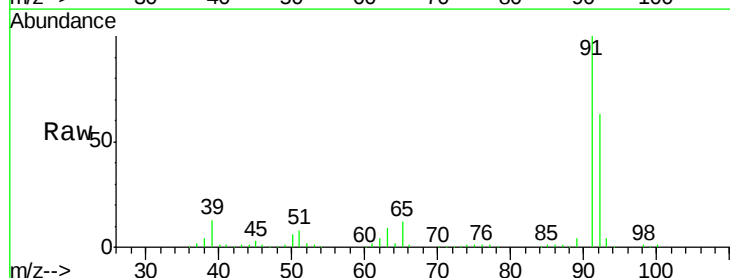
Acq: 21 Jan 2019 11:39

Tgt Ion: 92 Resp: 262304

Ion Ratio Lower Upper

92 100

91 158.8 131.2 196.8





#53

t-1,3-Dichloropropene

Concen: 51.616 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 134715

Ion Ratio Lower Upper

75 100

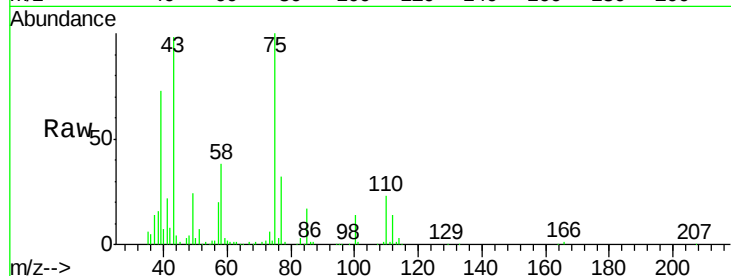
77 32.1 24.4 36.6

Manual Integrations

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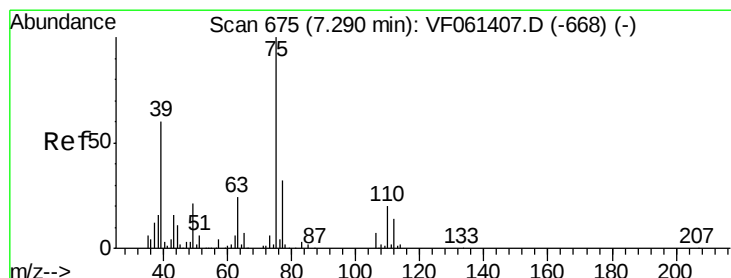
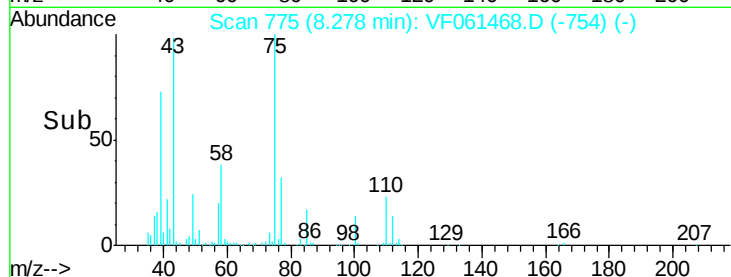
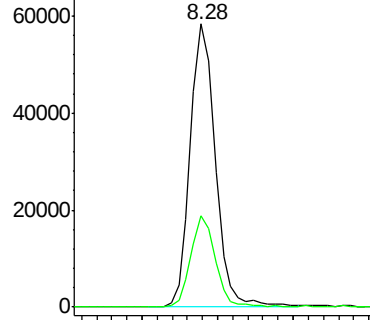
MMDadoda

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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 52.945 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

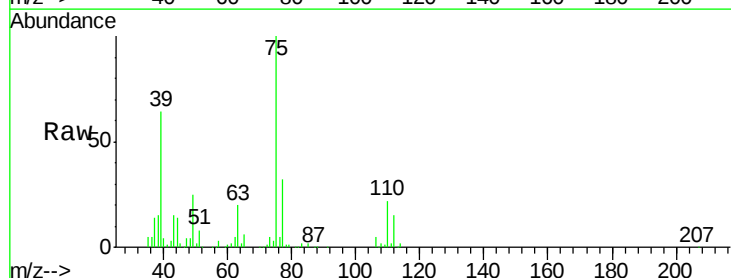
Tgt Ion: 75 Resp: 172725

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0

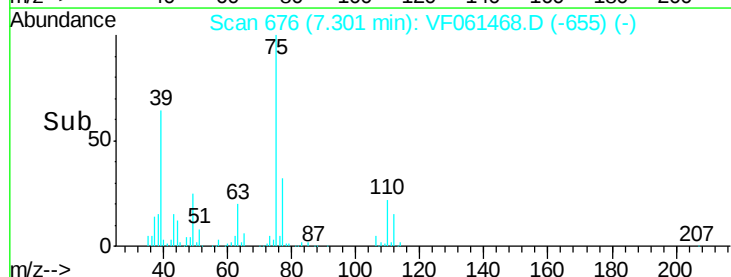
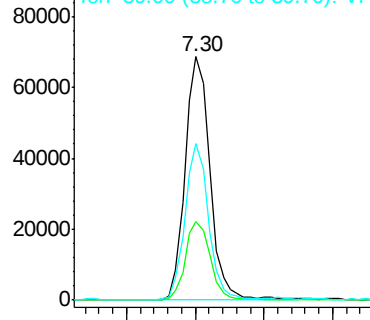
39 64.1 47.8 71.8

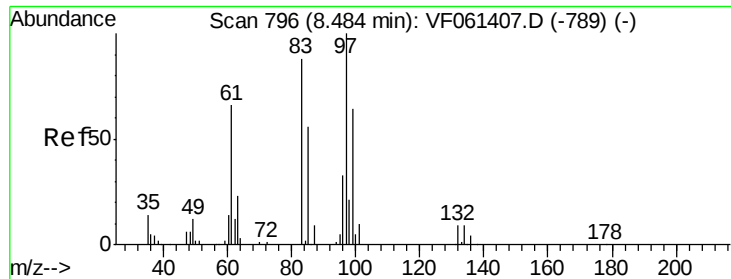


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





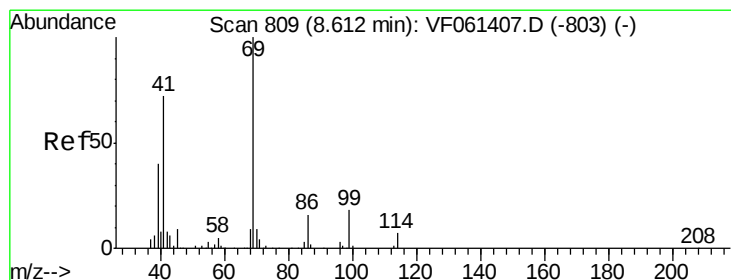
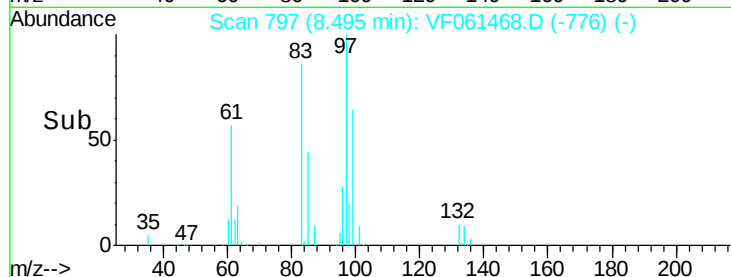
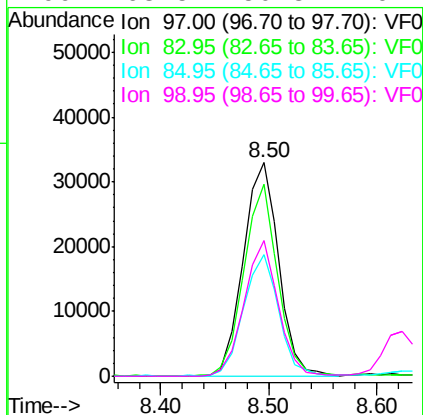
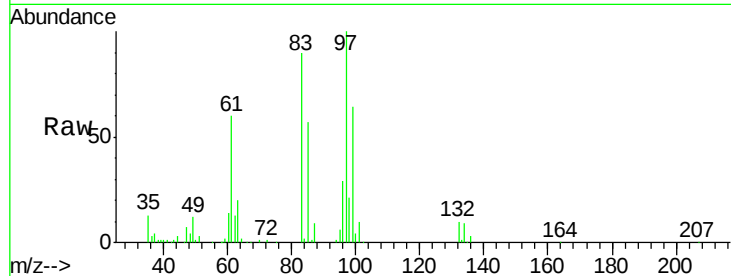
#55
 1,1,2-Trichloroethane
 Concen: 52.615 ug/l
 RT: 8.50 min Scan# 797
 Delta R.T. 0.01 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	74898
Ion	Ratio	Lower	Upper
97	100		
83	89.8	70.4	105.6
85	57.0	44.7	67.1
99	63.5	50.8	76.2

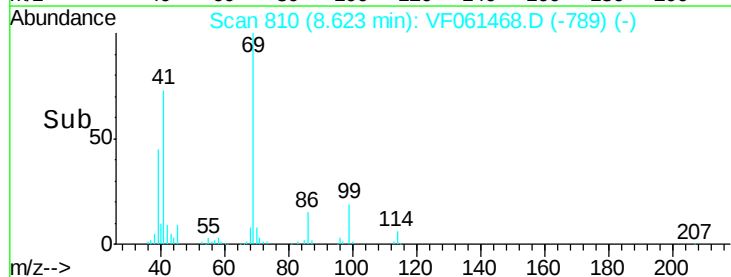
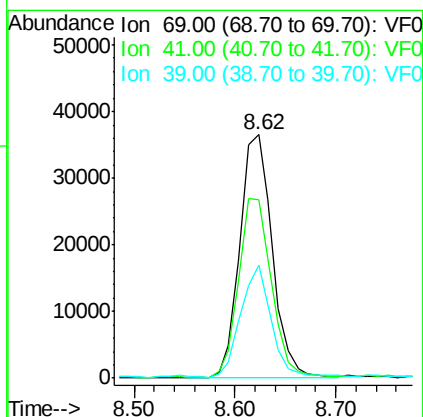
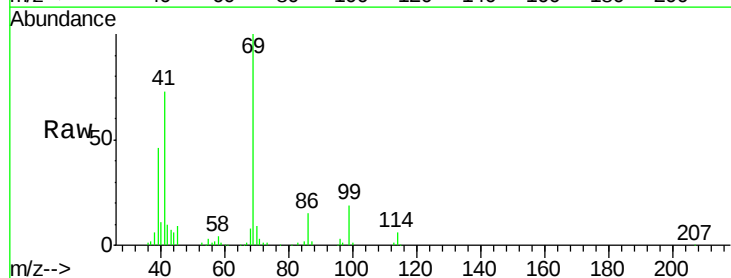
Manual Integrations
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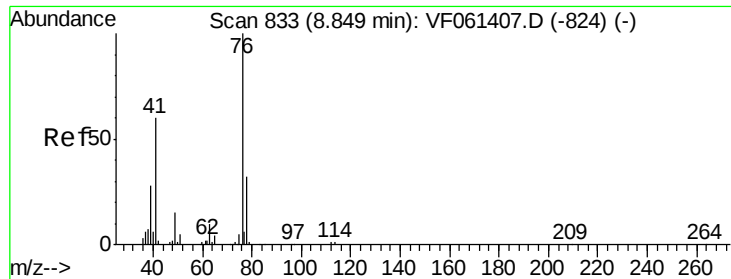
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#56
 Ethyl methacrylate
 Concen: 49.778 ug/l
 RT: 8.62 min Scan# 810
 Delta R.T. 0.01 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Tgt Ion:	69	Resp:	82441
Ion	Ratio	Lower	Upper
69	100		
41	73.2	57.5	86.3
39	46.3	32.0	48.0





#57

1,3-Dichloropropane

Concen: 49.374 ug/l

RT: 8.85 min Scan# 833

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 131740

Ion Ratio Lower Upper

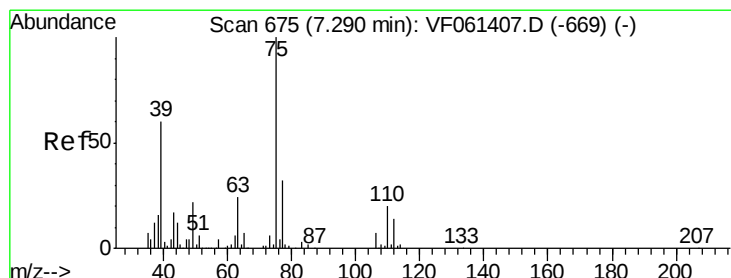
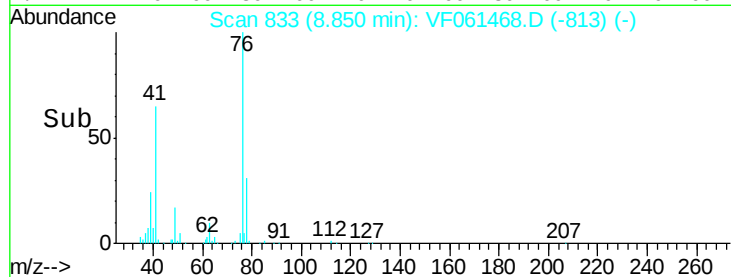
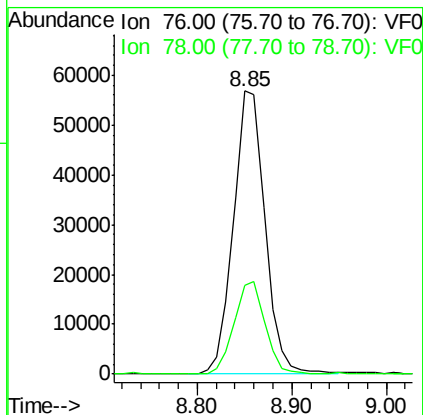
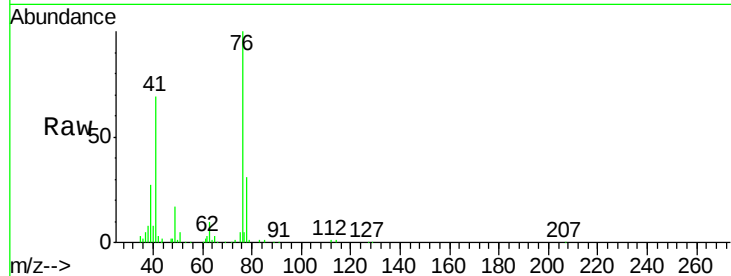
76 100

78 31.2 25.3 37.9

Manual Integrations
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MMDadoda

1/22/2019 2:50:05 PM



#58

2-Chloroethyl Vinyl ether

Concen: 206.801 ug/l

RT: 7.29 min Scan# 675

Delta R.T. 0.00 min

Lab File: VF061468.D

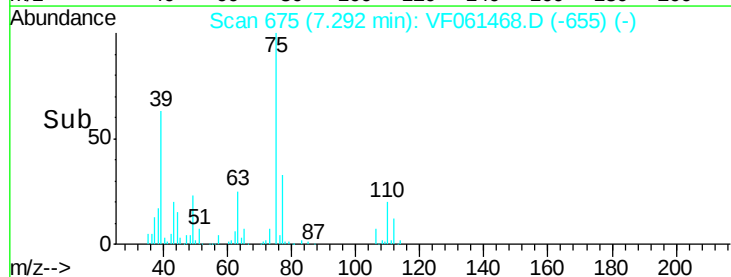
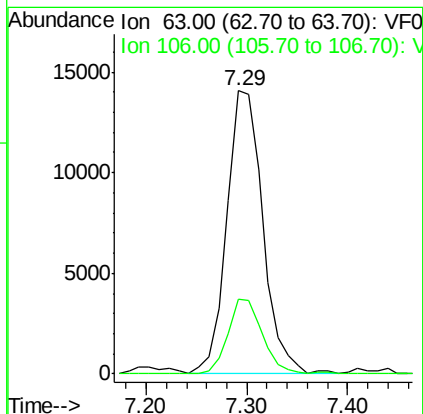
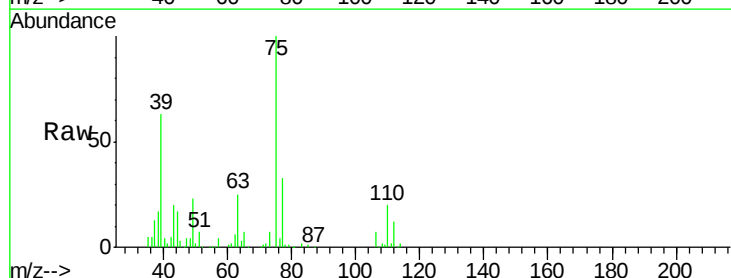
Acq: 21 Jan 2019 11:39

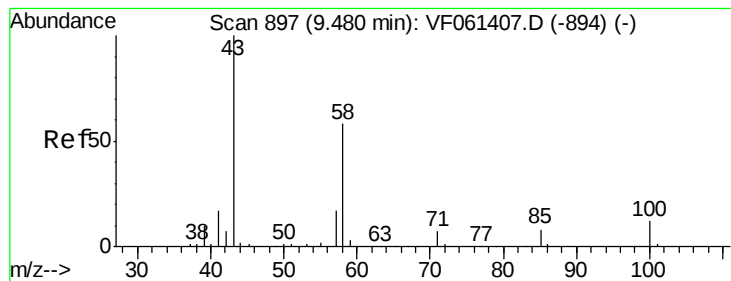
Tgt Ion: 63 Resp: 34987

Ion Ratio Lower Upper

63 100

106 26.4 21.9 32.9





#59

2-Hexanone

Concen: 284.252 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampled :

VSTDCCC050

Tot Ion: 43 Resp: 250092

Ion Ratio Lower Upper

43 100

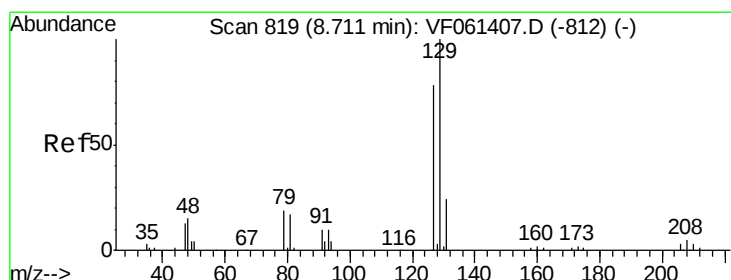
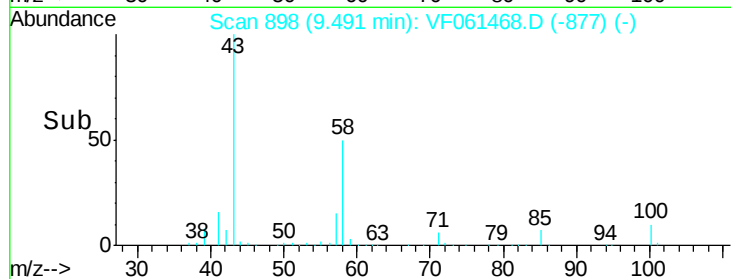
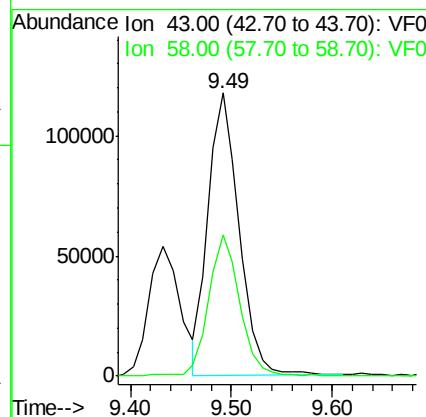
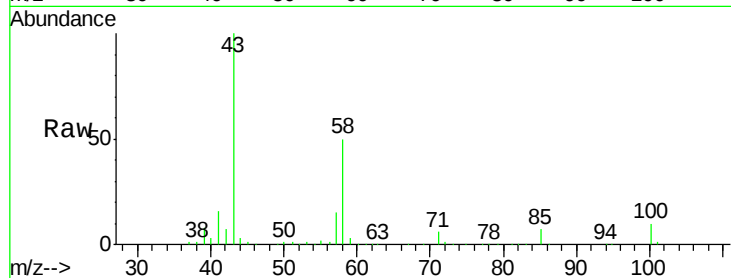
58 50.0 25.9 77.6

Manual Integrations

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#60

Dibromochloromethane

Concen: 52.626 ug/l

RT: 8.71 min Scan# 819

Delta R.T. 0.00 min

Lab File: VF061468.D

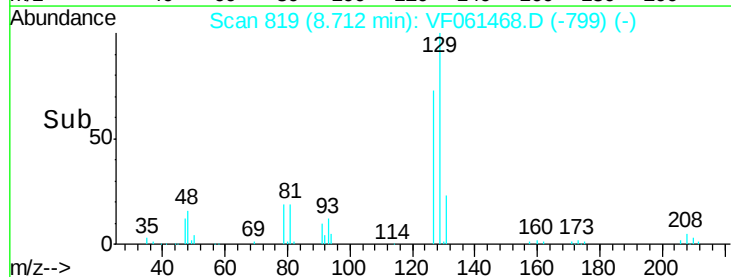
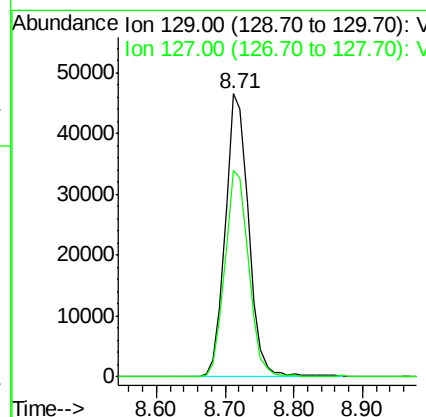
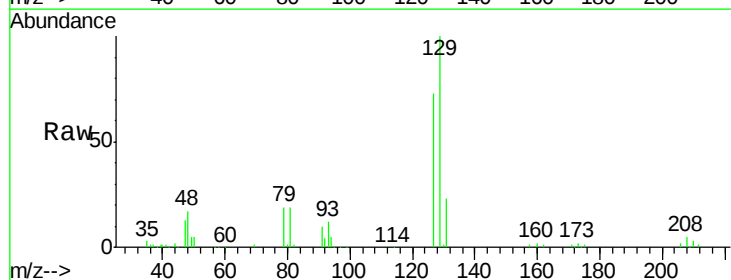
Acq: 21 Jan 2019 11:39

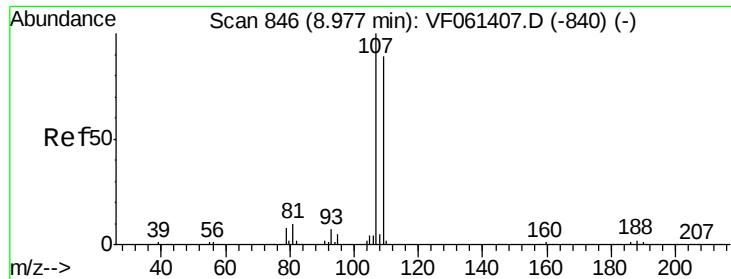
Tgt Ion: 129 Resp: 109521

Ion Ratio Lower Upper

129 100

127 72.8 39.1 117.2





#61

1,2-Dibromoethane

Concen: 47.463 ug/l

RT: 8.99 min Scan# 847

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 77347

Ion Ratio Lower Upper

107 100

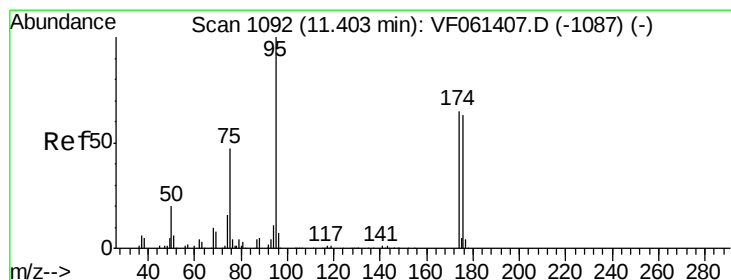
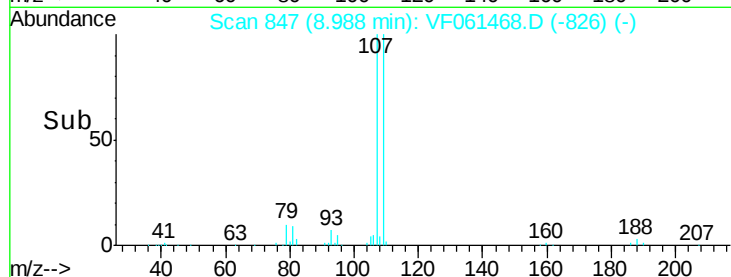
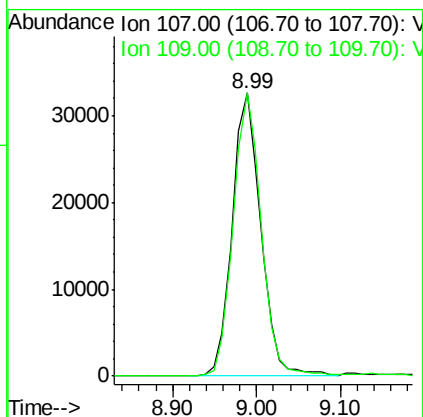
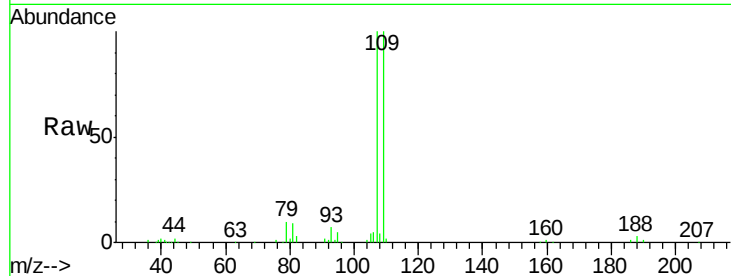
109 100.0 70.8 106.2

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 49.681 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

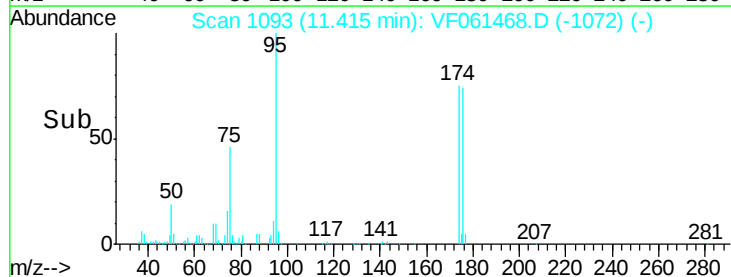
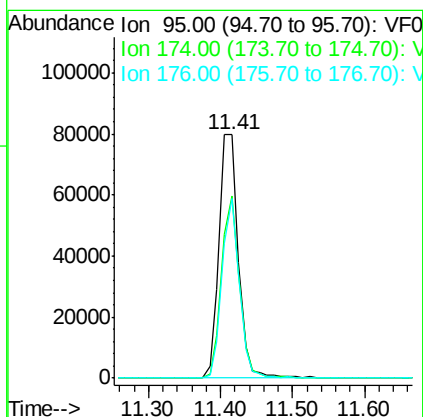
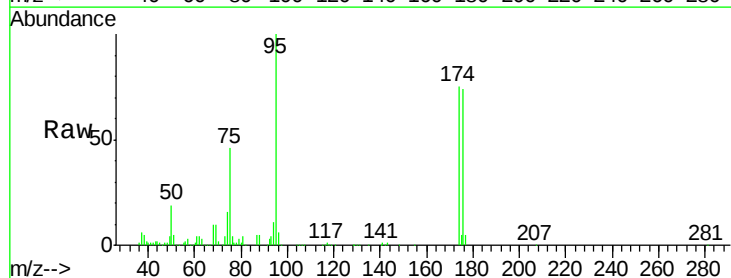
Tgt Ion: 95 Resp: 148067

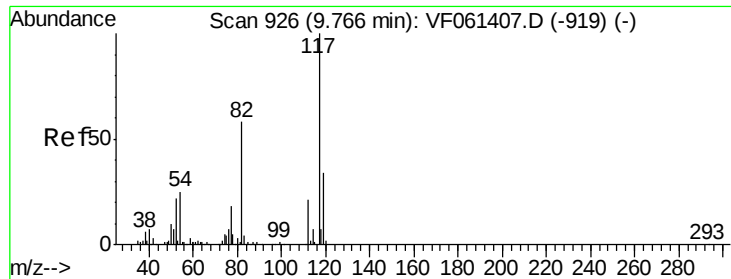
Ion Ratio Lower Upper

95 100

174 74.7 0.0 130.4

176 73.5 0.0 126.2





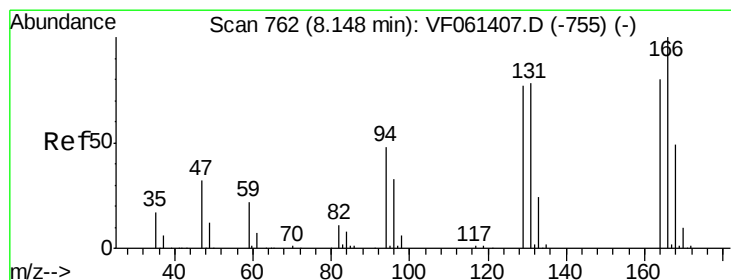
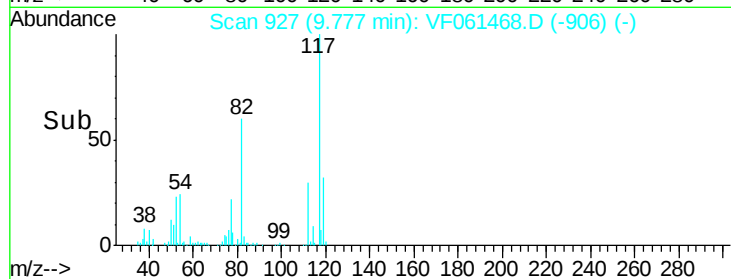
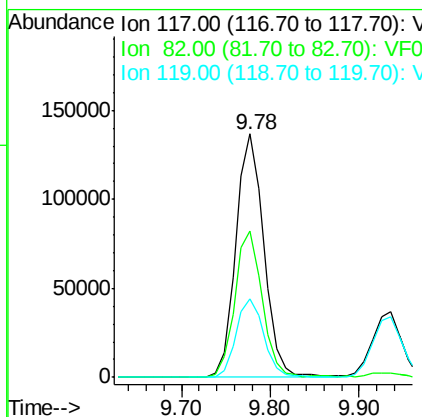
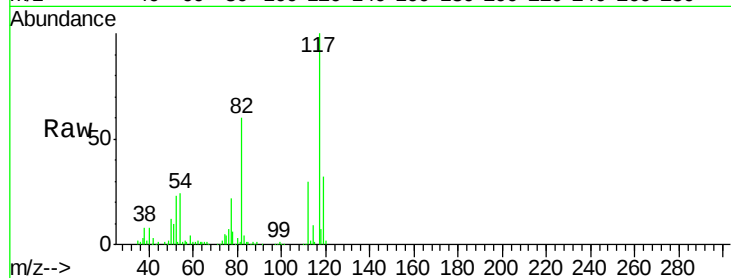
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.1	46.4	69.6
119	32.3	27.2	40.8

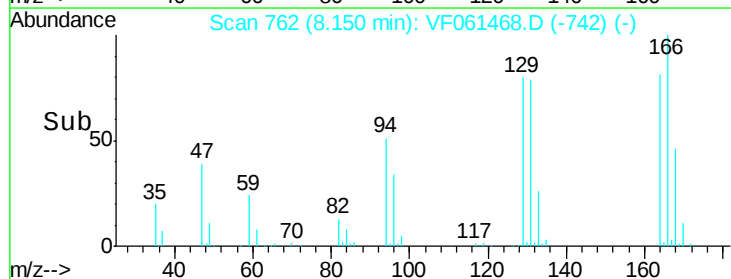
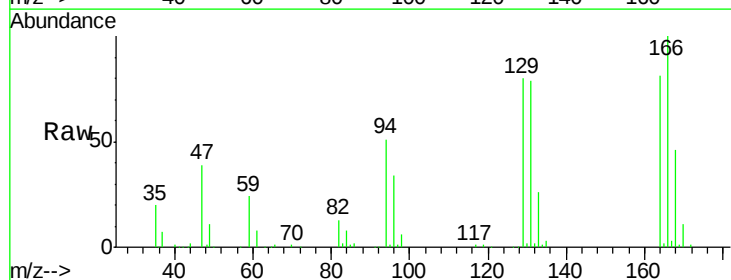
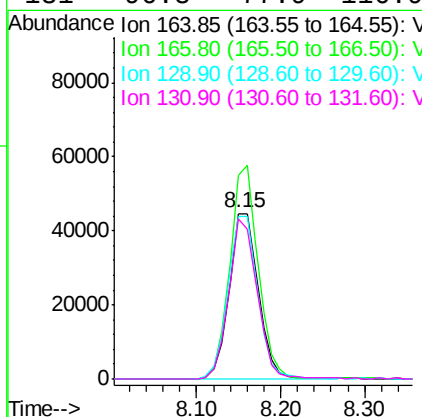
Manual Integrations
APPROVED

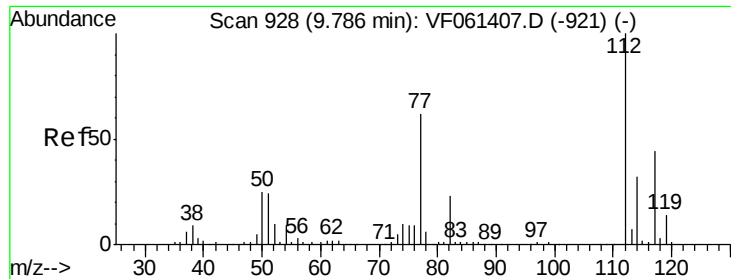
MMDadoda
1/22/2019 2:50:05 PM



#64
Tetrachloroethene
Concen: 47.589 ug/l
RT: 8.15 min Scan# 762
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.2	99.6	149.4
129	98.1	76.4	114.6
131	96.8	77.9	116.9





#65

Chlorobenzene

Concen: 49.762 ug/l

RT: 9.80 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 304636

Ion Ratio Lower Upper

112 100

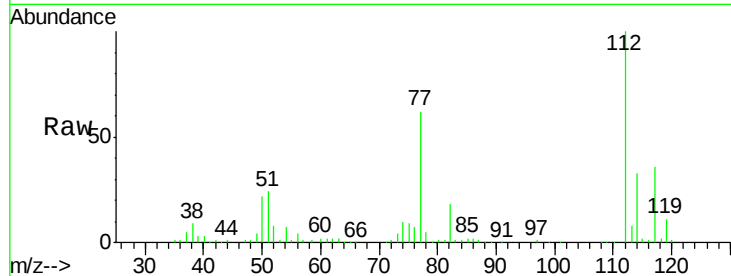
114 33.3 25.4 38.0

Manual Integrations

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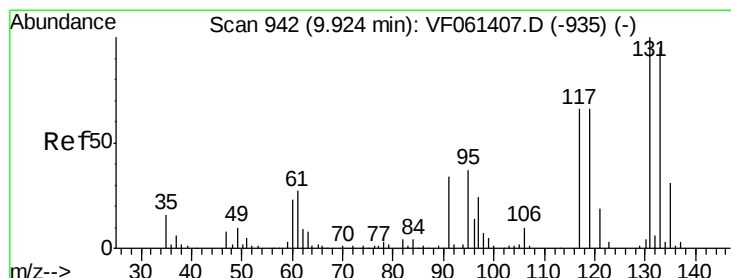
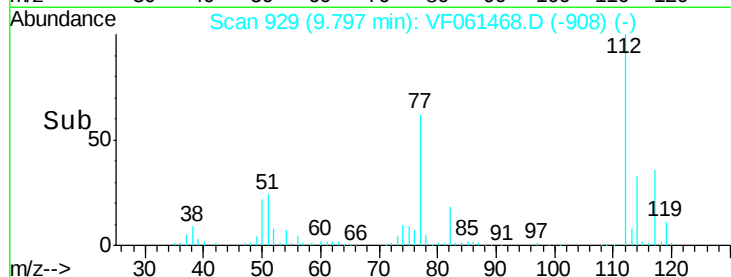
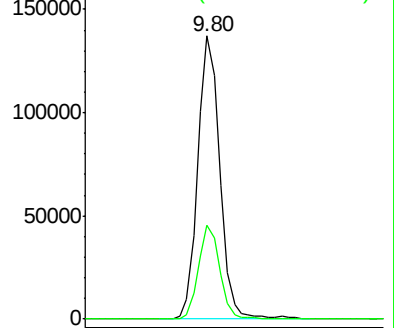
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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 48.644 ug/l

RT: 9.94 min Scan# 943

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

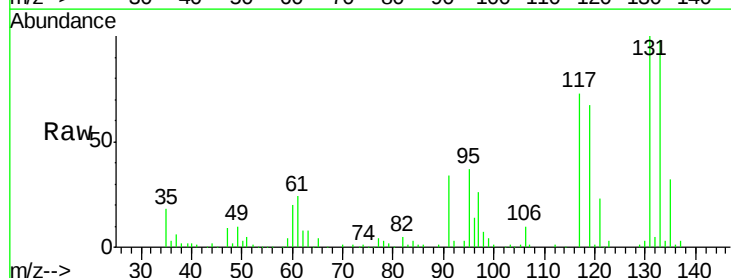
Tgt Ion:131 Resp: 118631

Ion Ratio Lower Upper

131 100

133 98.1 47.4 142.2

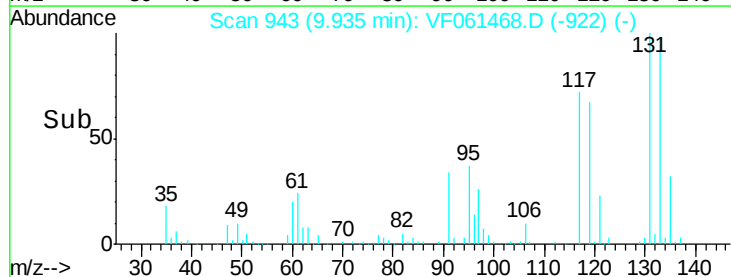
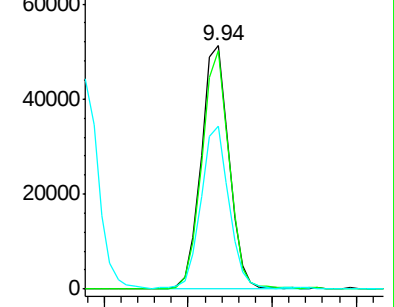
119 66.8 33.1 99.3

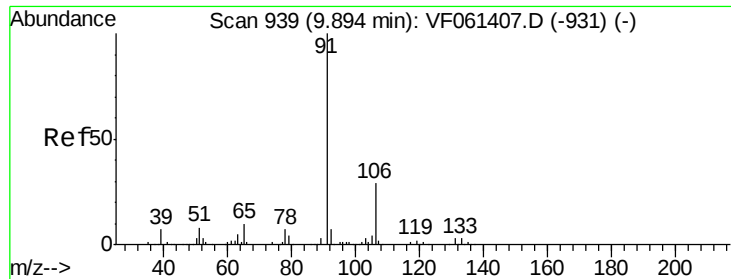


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





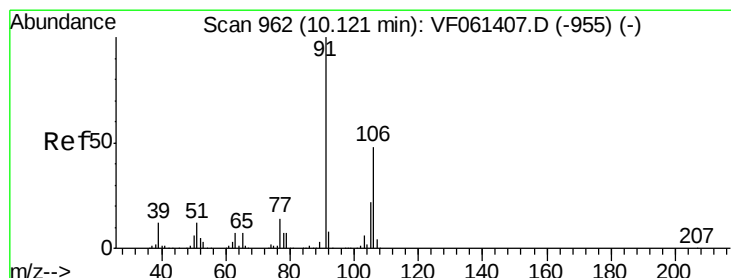
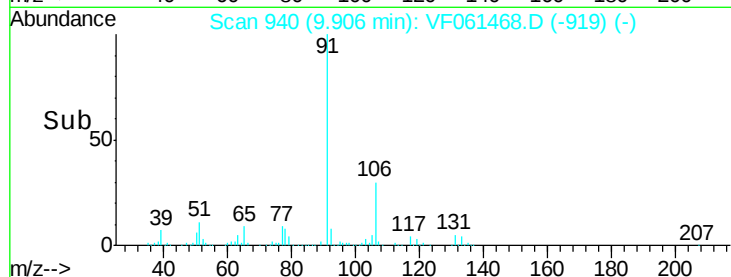
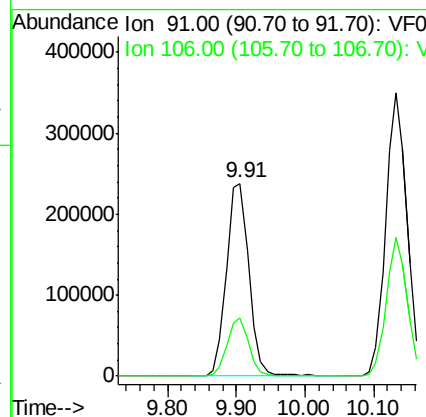
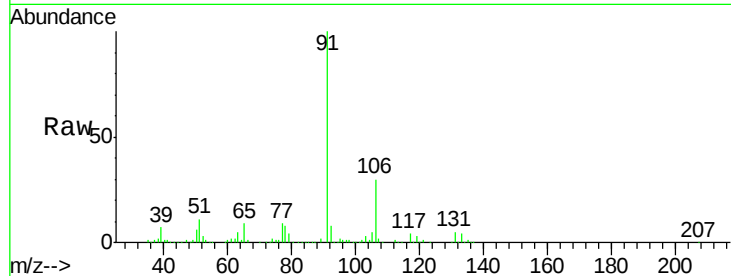
#67
Ethyl Benzene
Concen: 48.501 ug/l
RT: 9.91 min Scan# 940
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 542486
Ion Ratio Lower Upper
91 100
106 30.1 23.1 34.7

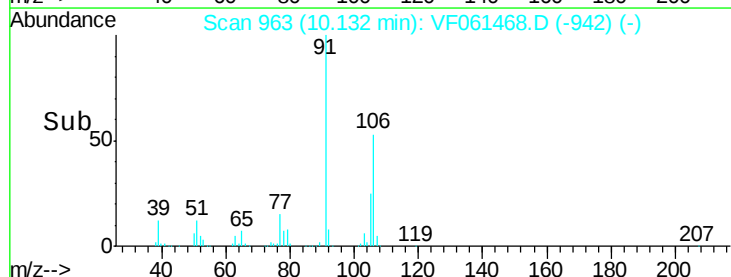
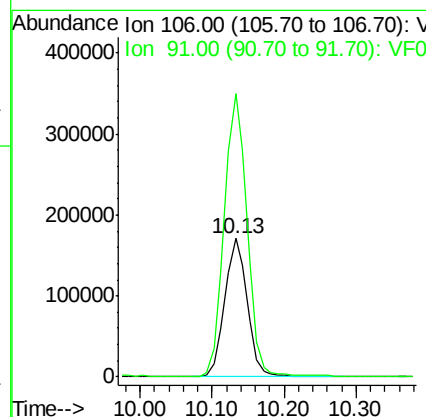
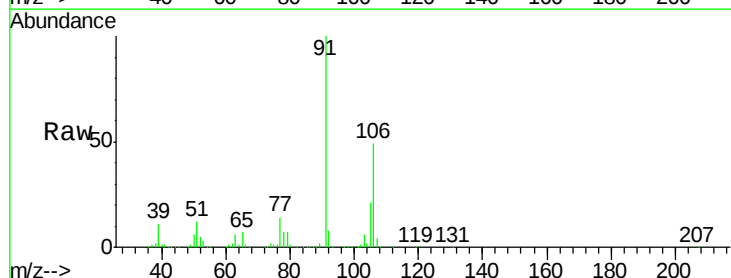
Manual Integrations
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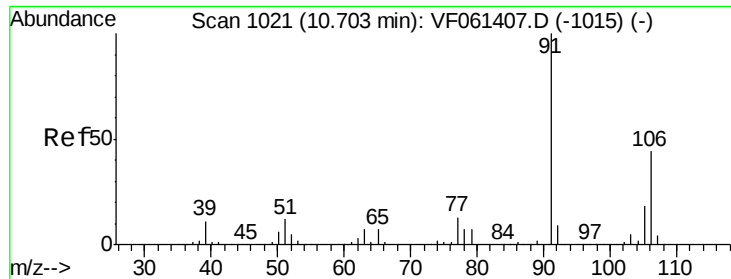
MMDadoda
1/22/2019 2:50:05 PM



#68
m/p-Xylenes
Concen: 91.520 ug/l
RT: 10.13 min Scan# 963
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion: 106 Resp: 368173
Ion Ratio Lower Upper
106 100
91 204.8 166.2 249.4





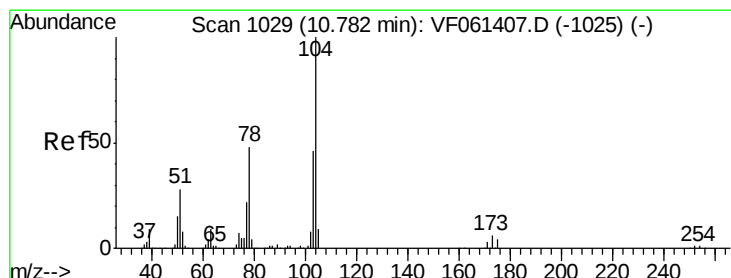
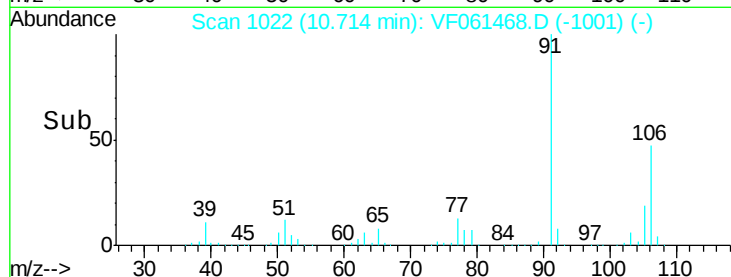
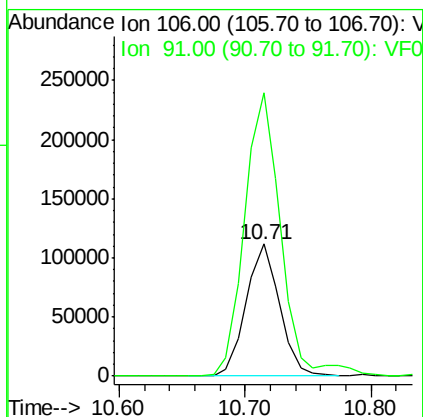
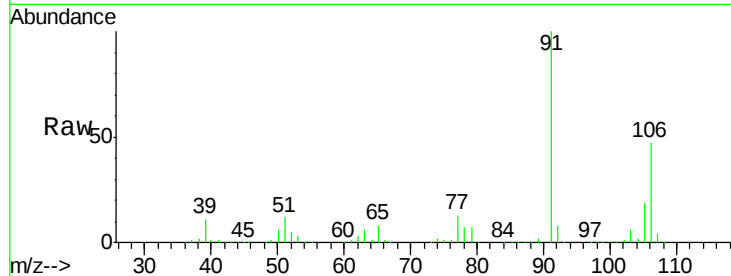
#69
o-Xylene
Concen: 47.366 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 206517
Ion Ratio Lower Upper
106 100
91 214.6 113.3 339.8

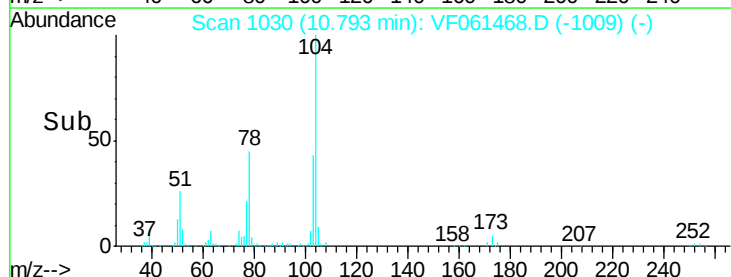
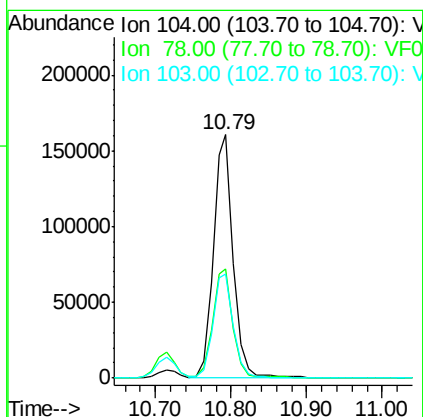
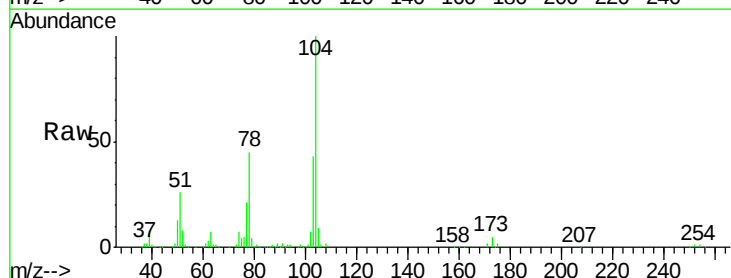
Manual Integrations
APPROVED

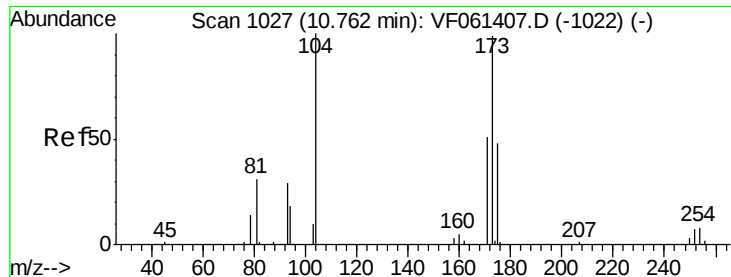
MMDadoda
1/22/2019 2:50:05 PM



#70
Styrene
Concen: 49.054 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion:104 Resp: 292765
Ion Ratio Lower Upper
104 100
78 44.7 38.8 58.2
103 42.6 37.0 55.6





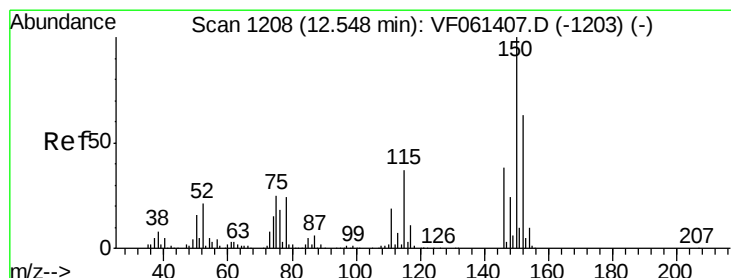
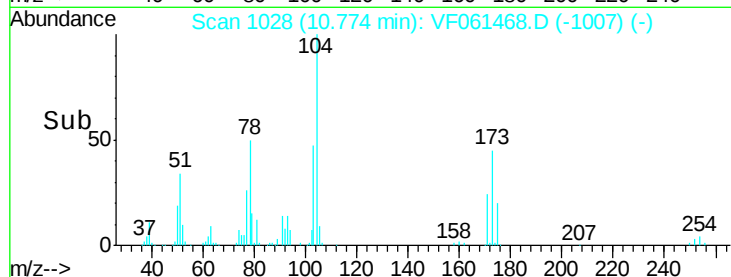
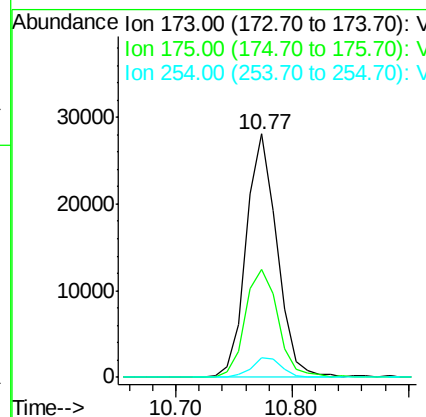
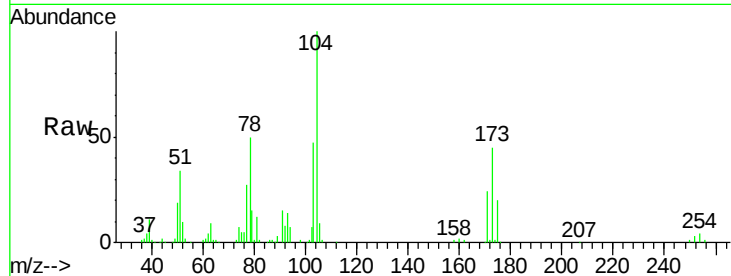
#71
Bromoform
Concen: 47.125 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	44.2	24.1	72.4
254	8.0	0.0	0.0

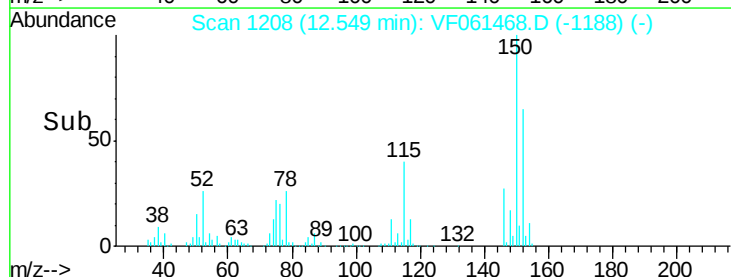
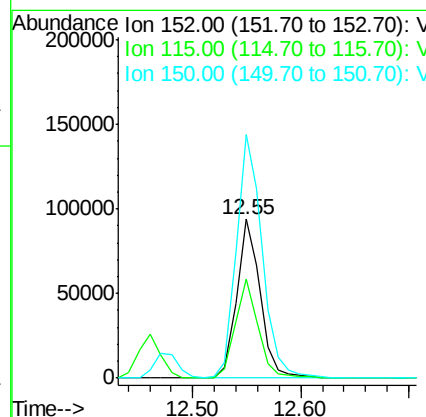
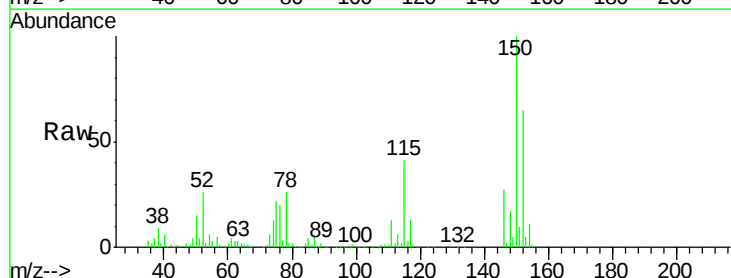
Manual Integrations
APPROVED

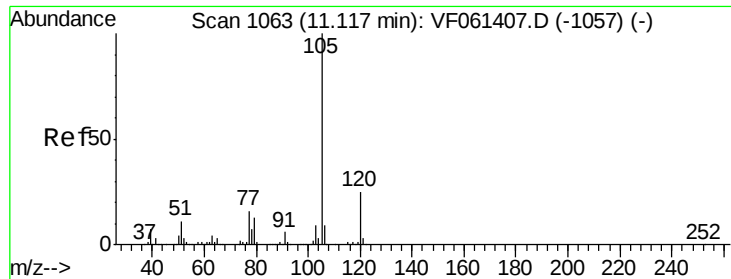
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.0	30.0	90.0
150	153.1	0.0	321.4





#73

Isopropylbenzene

Concen: 52.854 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 608814

Ion Ratio Lower Upper

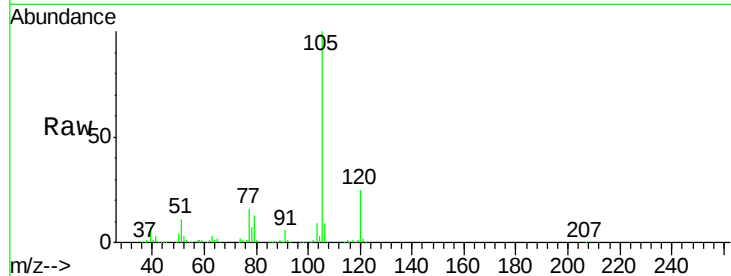
105 100

120 25.3 12.6 37.8

Manual Integrations
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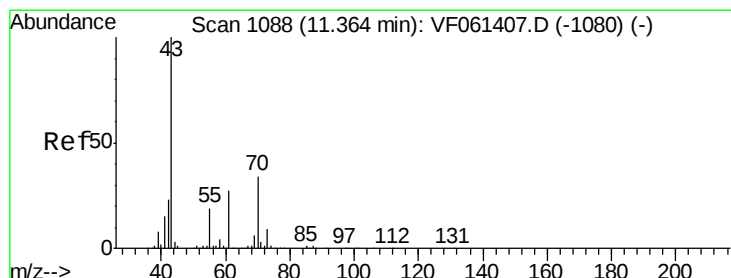
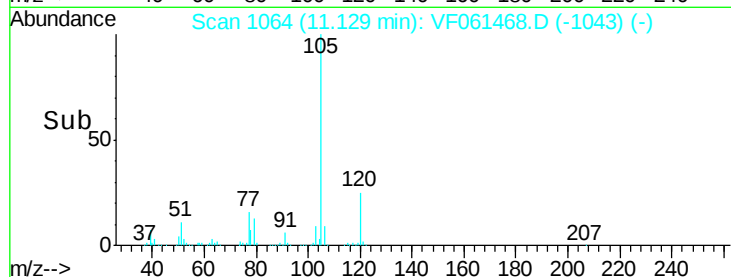
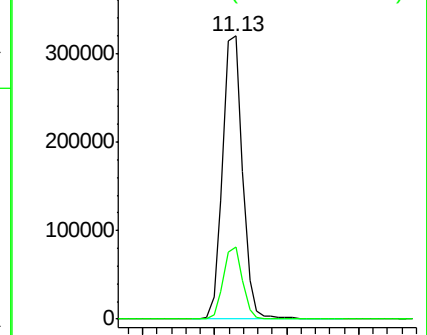
MMDadoda

1/22/2019 2:50:05 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 49.775 ug/l

RT: 11.38 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion: 43 Resp: 135575

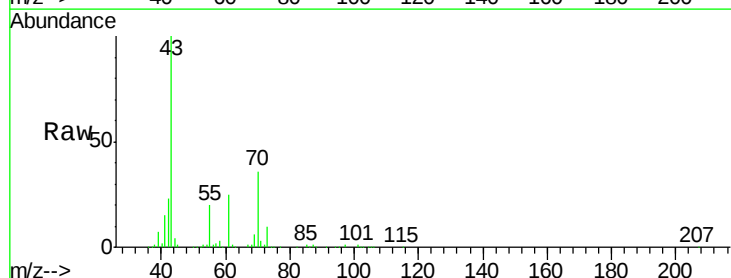
Ion Ratio Lower Upper

43 100

70 35.9 27.6 41.4

55 19.9 15.4 23.2

61 25.5 21.8 32.6

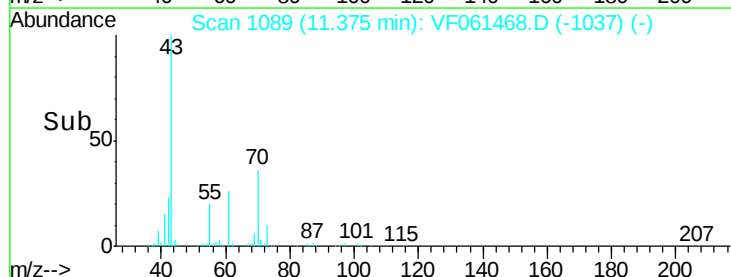
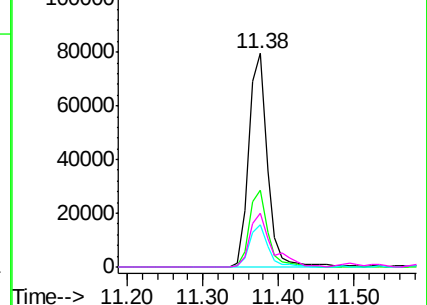


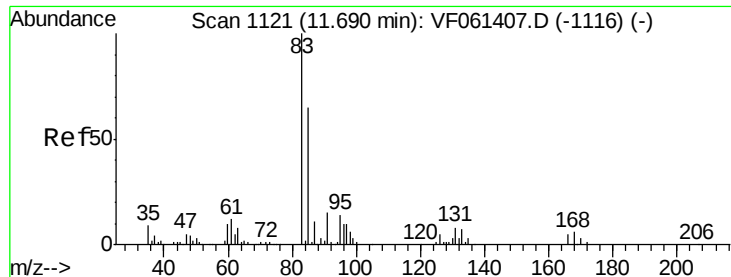
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 47.363 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

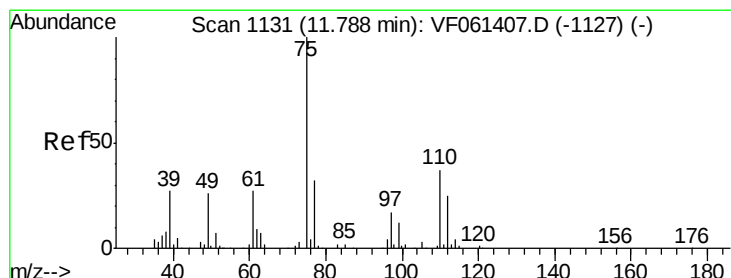
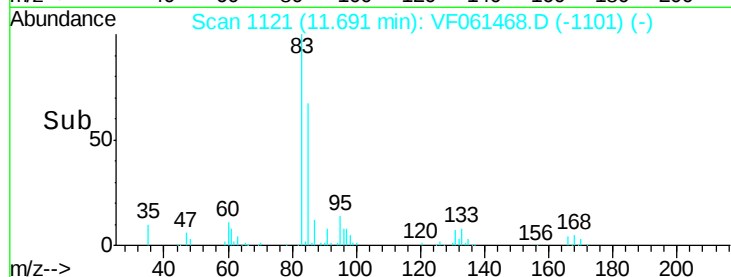
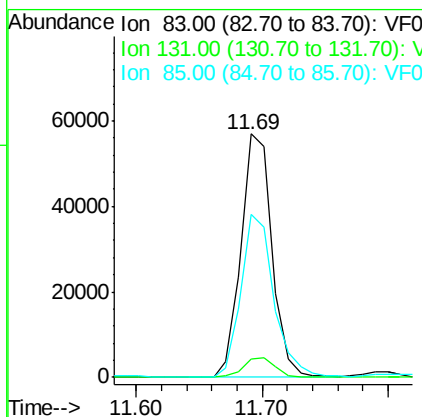
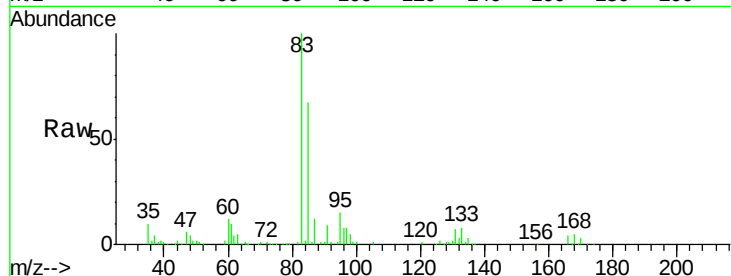
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	97190
Ion Ratio	Lower	Upper	
83	100		
131	7.4	4.0	12.2
85	67.0	32.7	98.1

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 47.356 ug/l

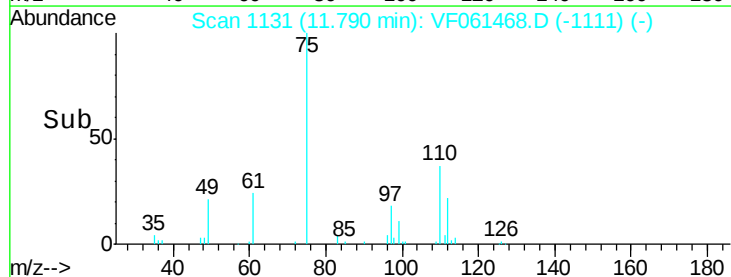
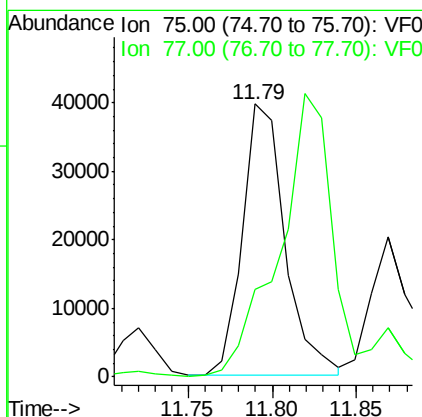
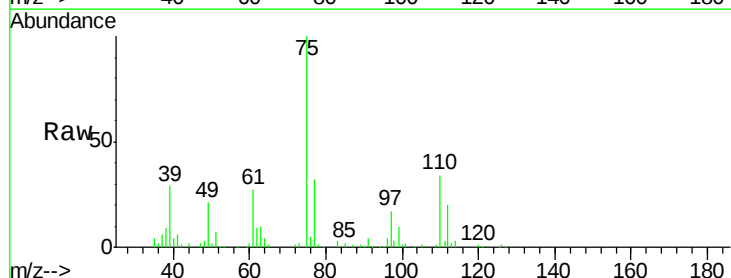
RT: 11.79 min Scan# 1131

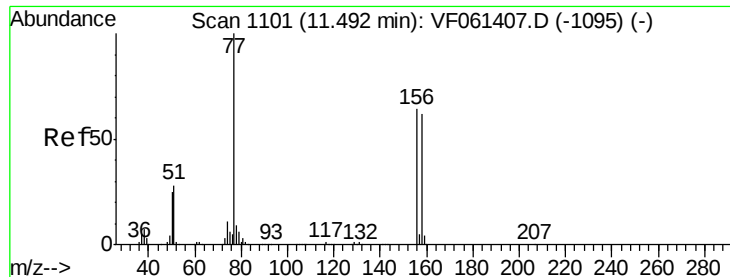
Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion:	75	Resp:	69826
Ion Ratio	Lower	Upper	
75	100		
77	32.1	16.1	48.3





#77

Bromobenzene

Concen: 48.202 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 117259

Ion Ratio Lower Upper

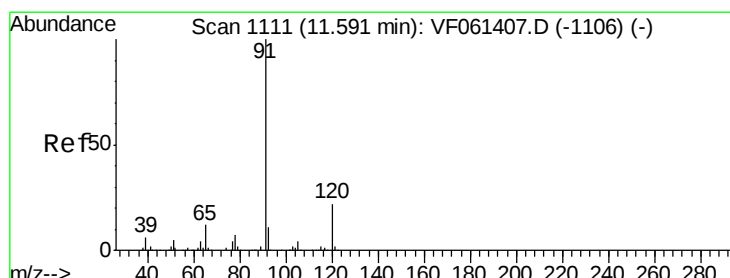
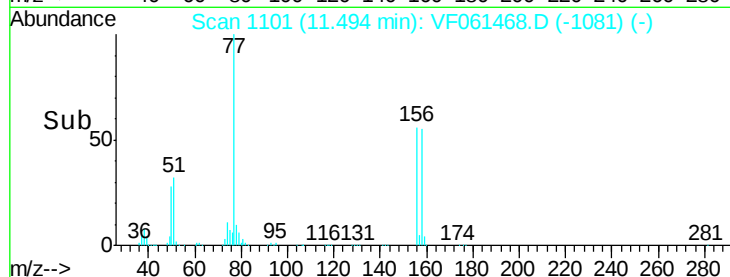
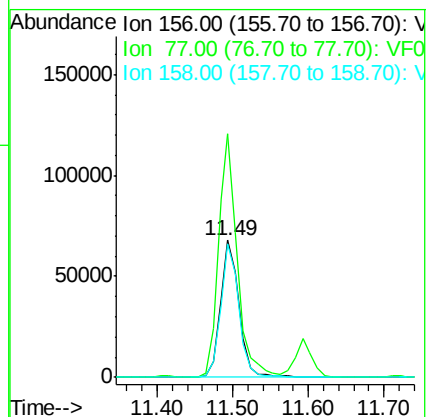
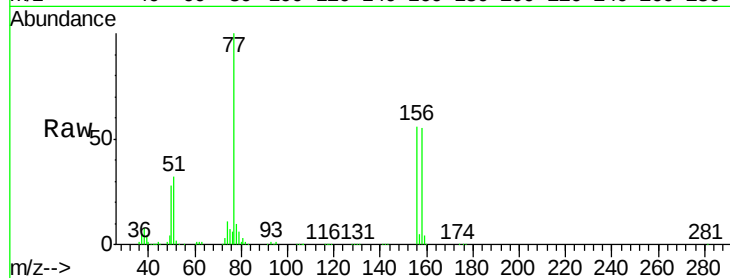
156 100

77 177.5 78.3 234.9

158 97.8 48.9 146.7

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#78

n-propylbenzene

Concen: 50.691 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF061468.D

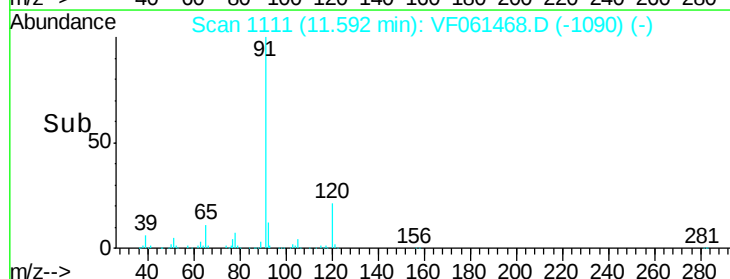
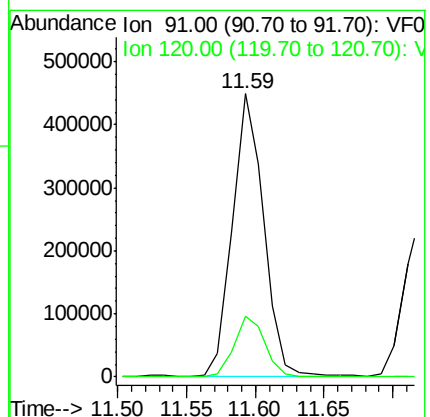
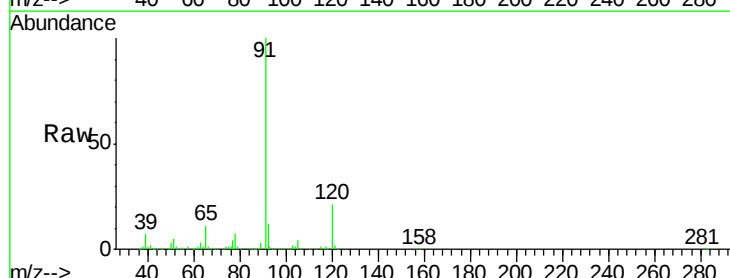
Acq: 21 Jan 2019 11:39

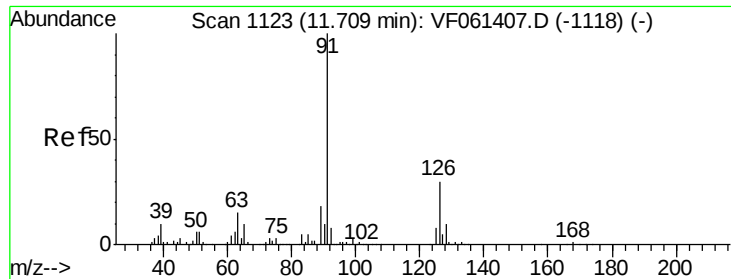
Tgt Ion: 91 Resp: 709943

Ion Ratio Lower Upper

91 100

120 21.5 10.9 32.6





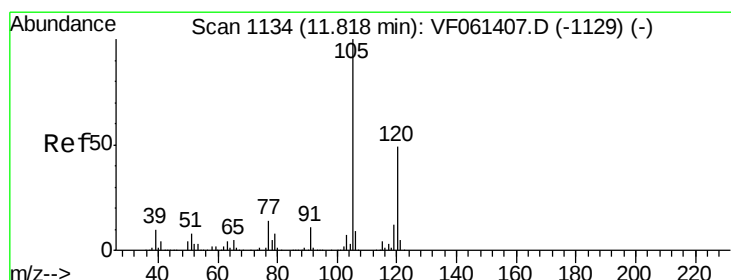
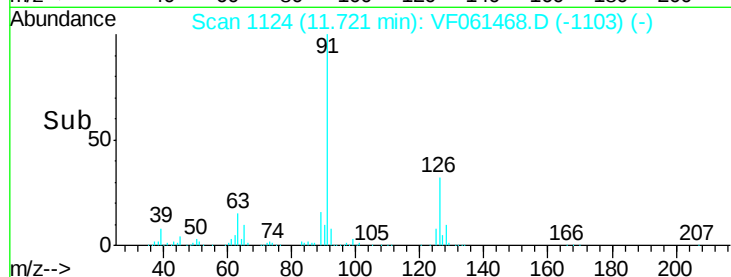
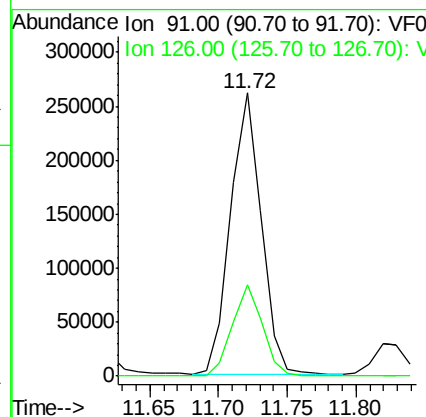
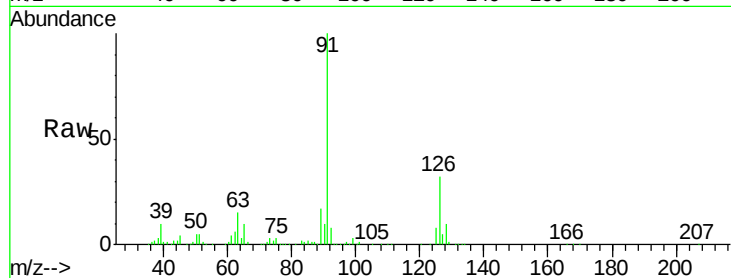
#79
2-Chlorotoluene
Concen: 50.853 ug/l
RT: 11.72 min Scan# 1124
Delta R.T. 0.01 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 406428
Ion Ratio Lower Upper
91 100
126 32.3 15.0 45.1

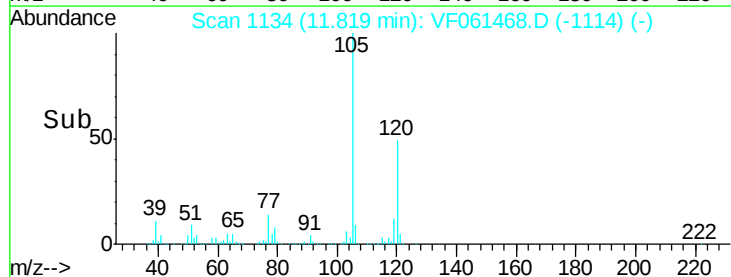
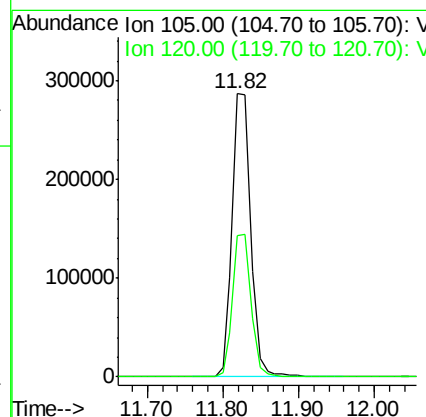
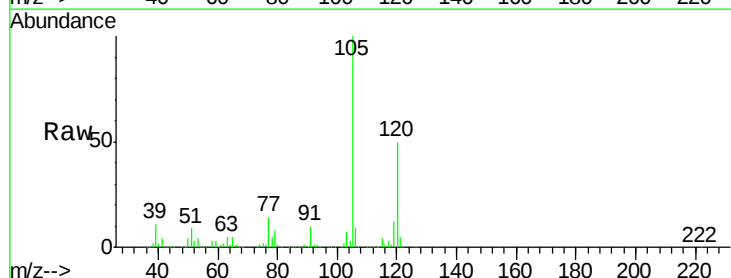
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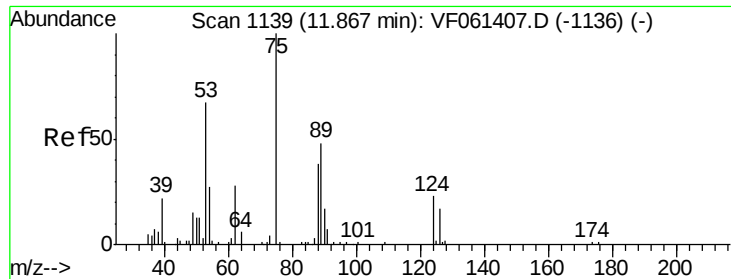
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#80
1,3,5-Trimethylbenzene
Concen: 52.617 ug/l
RT: 11.82 min Scan# 1134
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion: 105 Resp: 489122
Ion Ratio Lower Upper
105 100
120 50.1 24.7 74.1





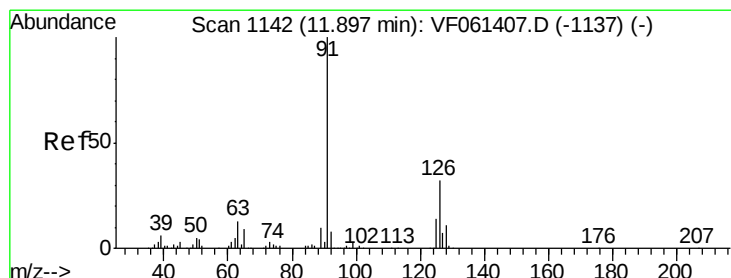
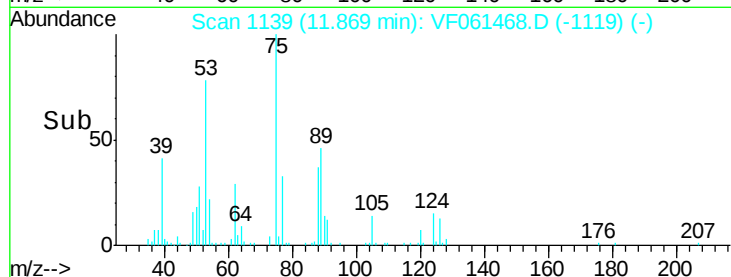
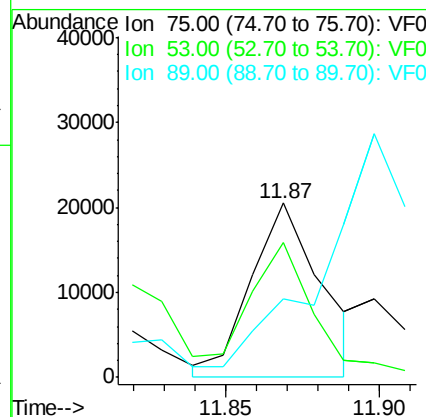
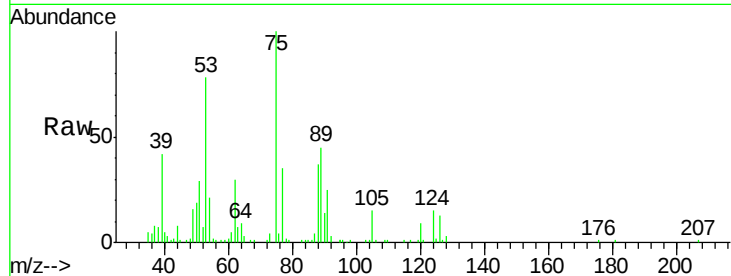
#81
trans-1,4-Dichloro-2-butene
Concen: 50.838 ug/l m
RT: 11.87 min Scan# 1139
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	77.5	57.8	86.6
89	45.1	40.7	61.1

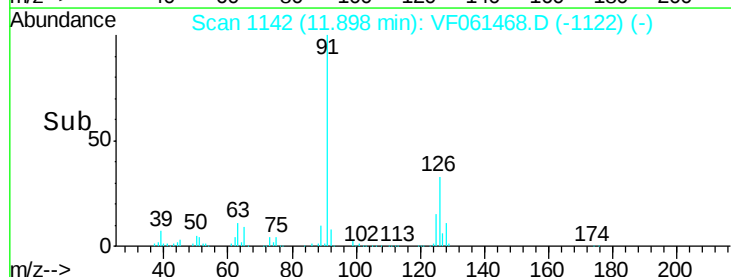
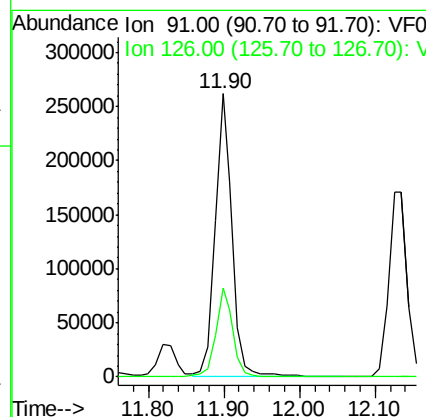
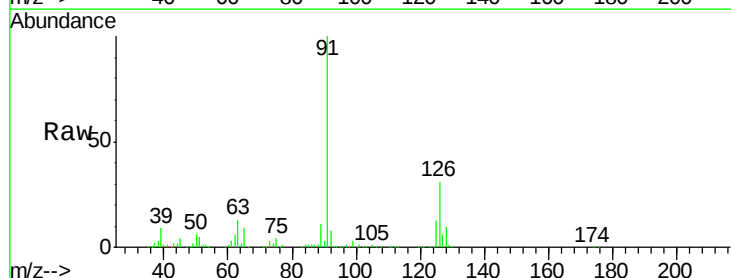
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#82
4-Chlorotoluene
Concen: 50.191 ug/l
RT: 11.90 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.0	47.9





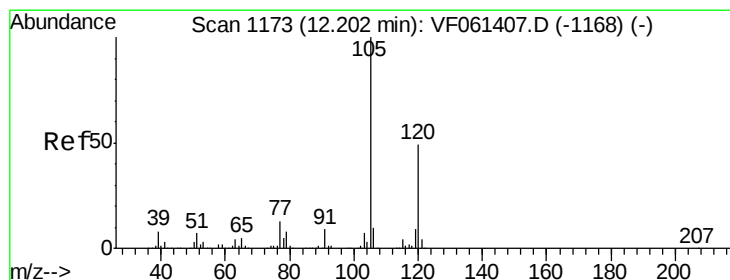
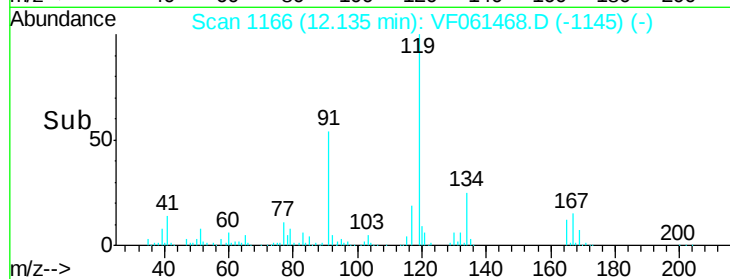
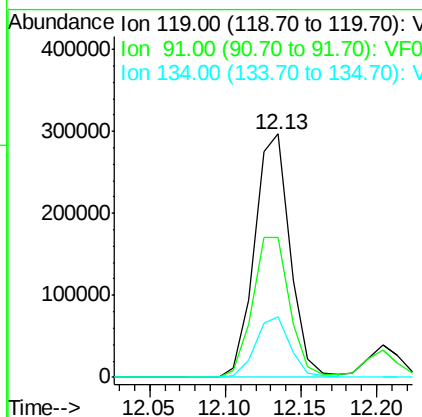
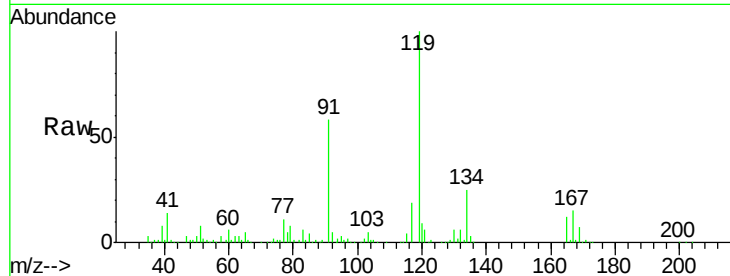
#83
 tert-Butylbenzene
 Concen: 50.955 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. 0.01 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	490260		
91	57.6	31.3	93.8	
134	25.1	12.4	37.0	

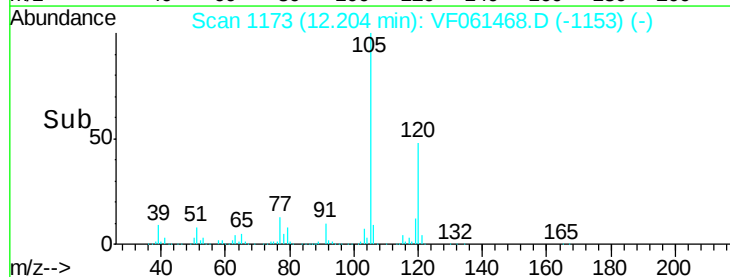
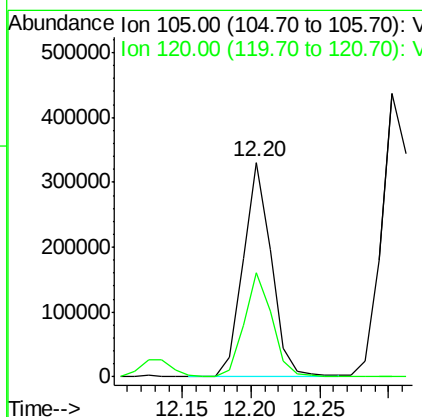
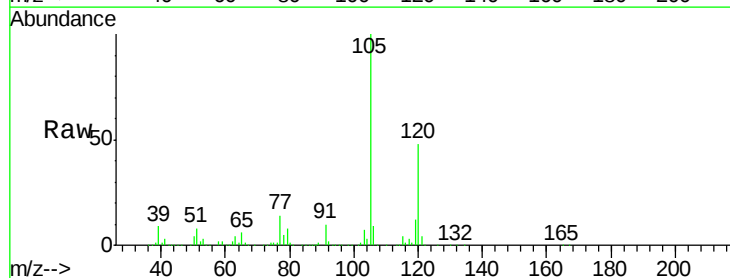
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#84
 1,2,4-Trimethylbenzene
 Concen: 49.605 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	474973		
120	48.5	24.9	74.6	





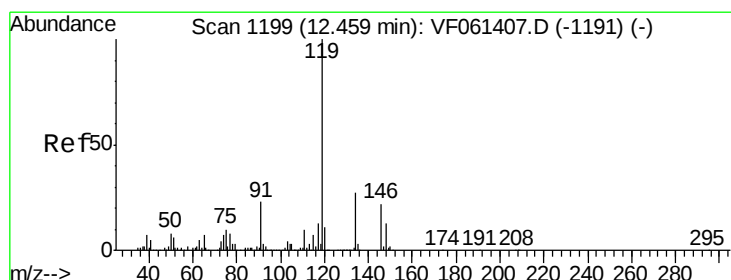
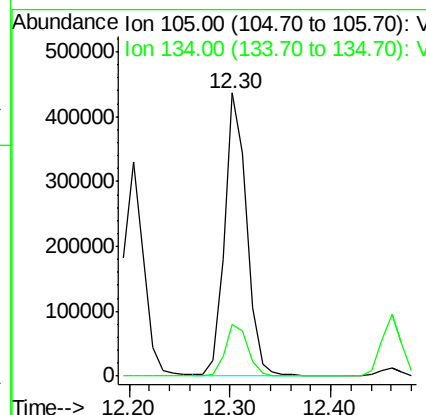
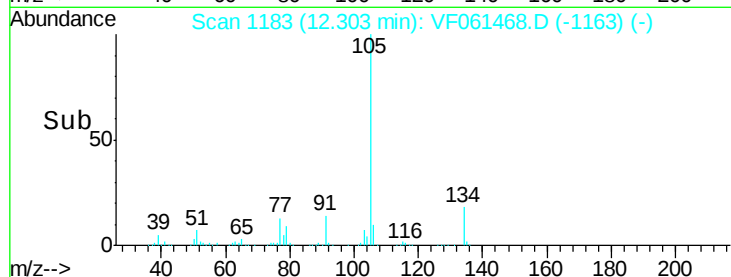
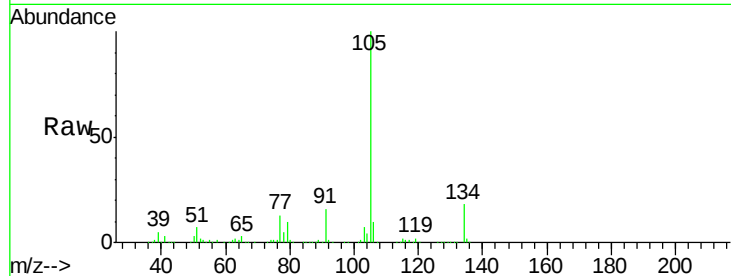
#85
 sec-Butylbenzene
 Concen: 50.770 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.1	10.0	30.0

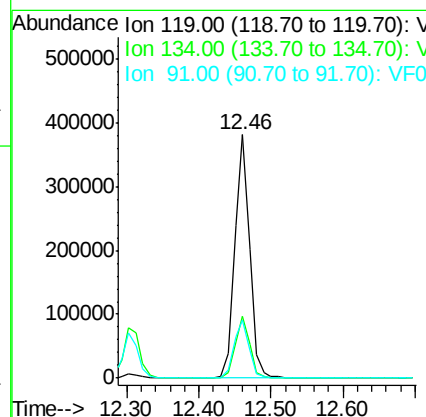
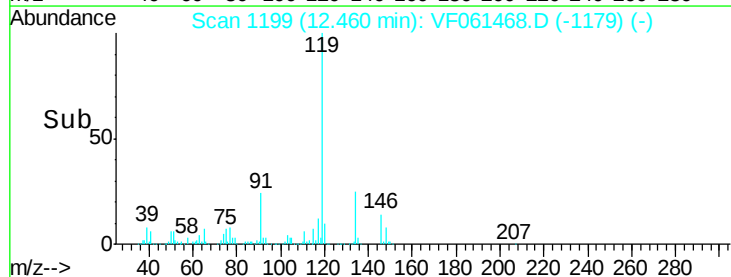
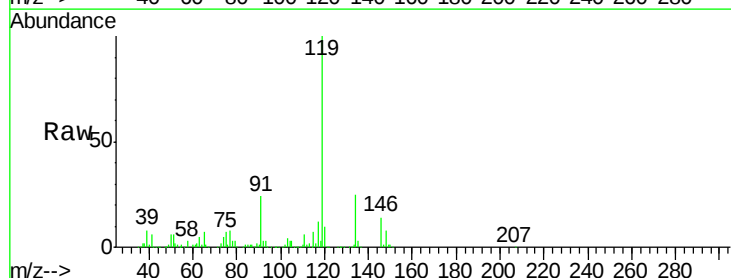
Manual Integrations
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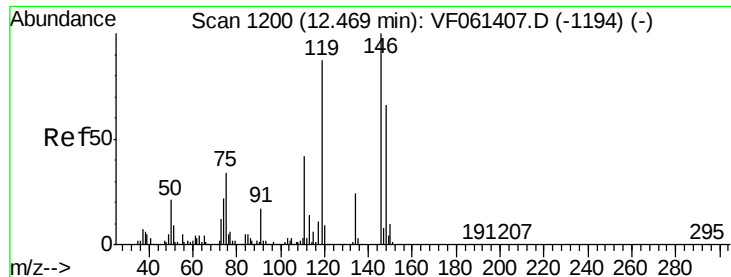
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#86
 p-Isopropyltoluene
 Concen: 50.620 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.2	13.4	40.2
91	23.7	11.4	34.2





#87

1,3-Dichlorobenzene

Concen: 46.599 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

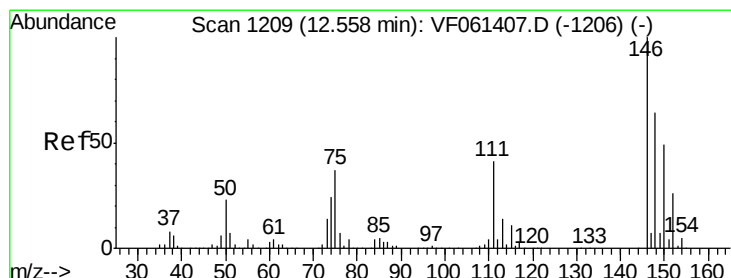
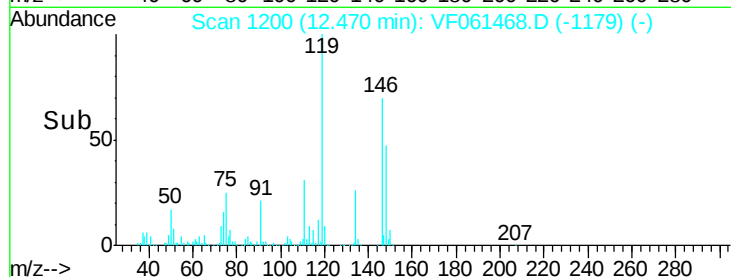
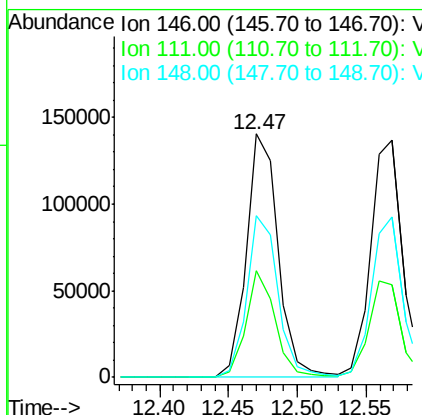
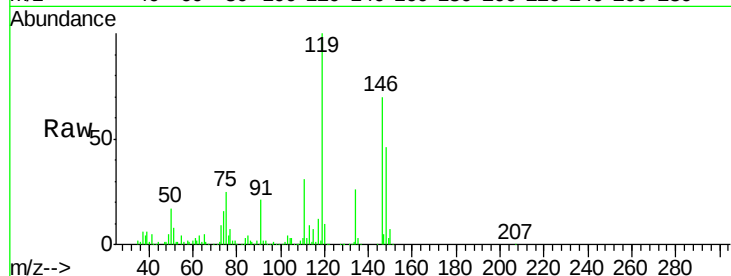
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	227008
Ion Ratio	Lower	Upper	
146	100		
111	43.8	21.1	63.4
148	66.3	32.9	98.6

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#88

1,4-Dichlorobenzene

Concen: 49.044 ug/l

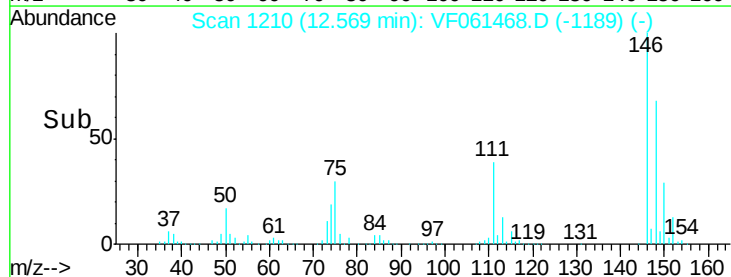
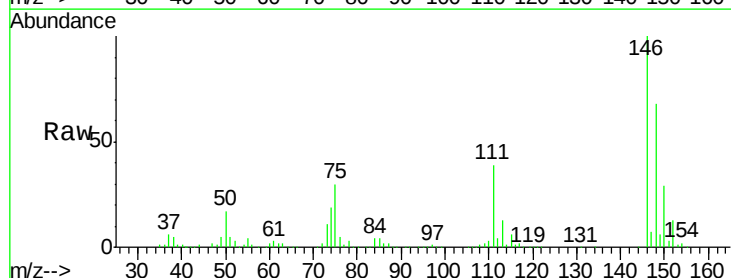
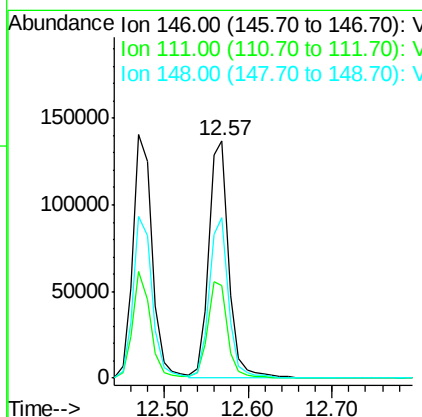
RT: 12.57 min Scan# 1210

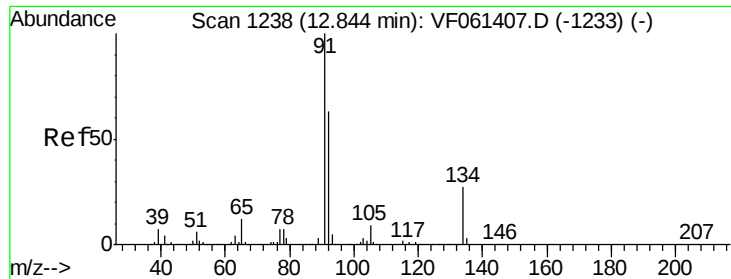
Delta R.T. 0.01 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion:	146	Resp:	225453
Ion Ratio	Lower	Upper	
146	100		
111	38.7	20.8	62.2
148	67.7	32.1	96.5





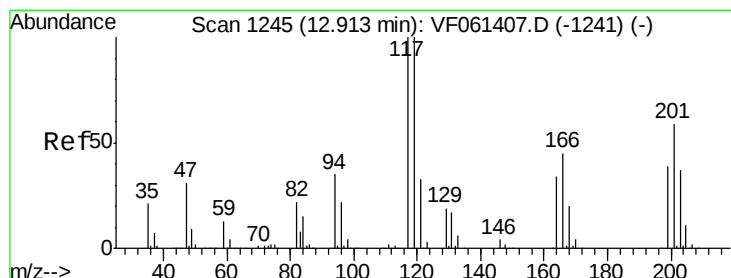
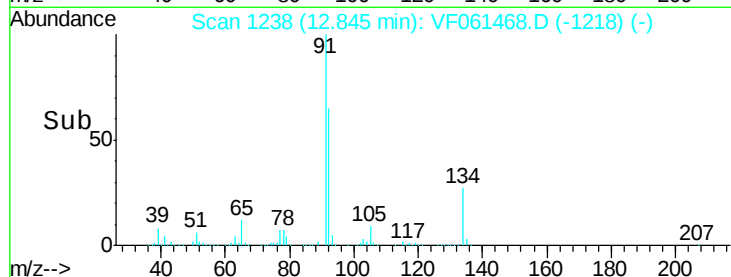
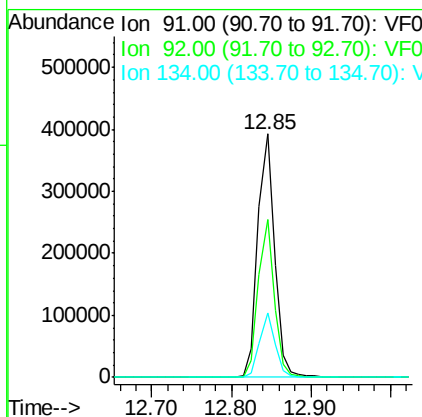
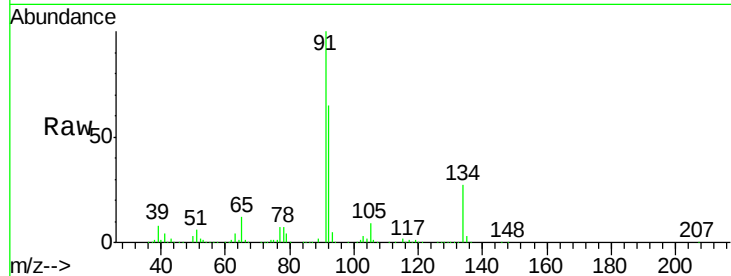
#89
n-Butylbenzene
Concen: 50.883 ug/l
RT: 12.85 min Scan# 1238
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.6	31.6	94.7
134	26.5	13.6	40.8

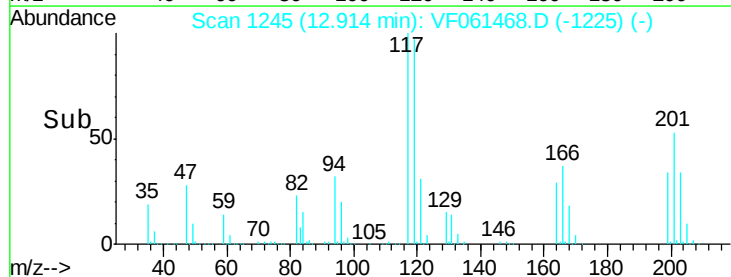
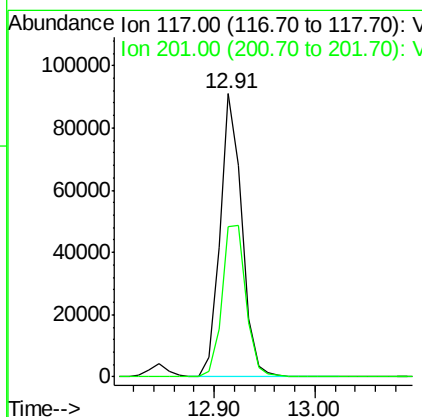
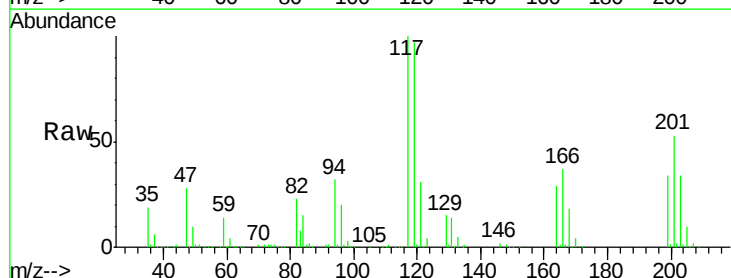
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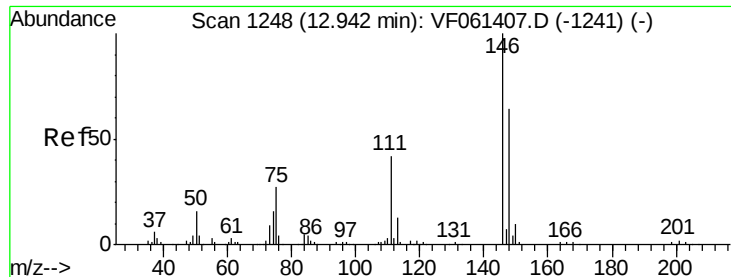
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#90
Hexachloroethane
Concen: 54.541 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. 0.00 min
Lab File: VF061468.D
Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
117	100		
201	52.9	29.3	87.8





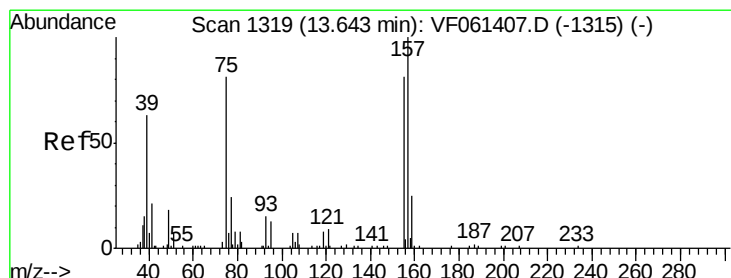
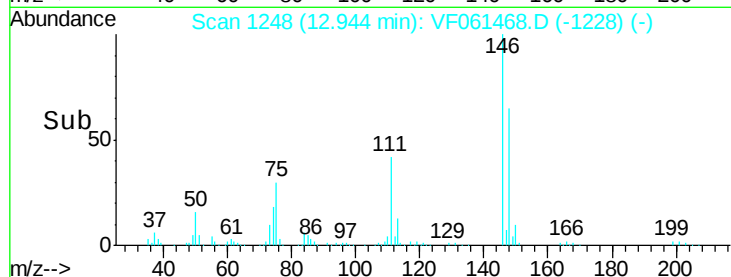
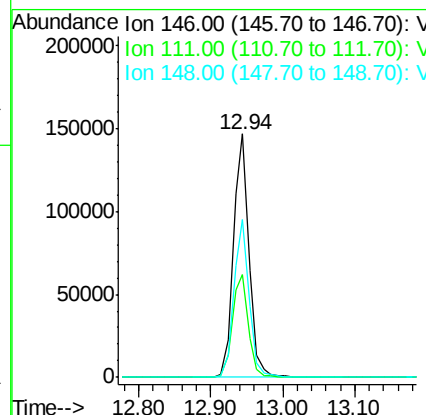
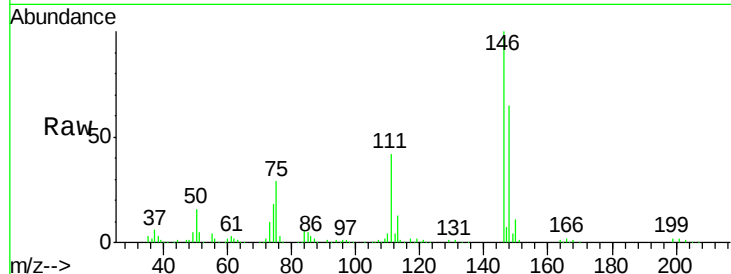
#91
 1,2-Dichlorobenzene
 Concen: 48.450 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.1	63.3
148	65.0	31.9	95.7

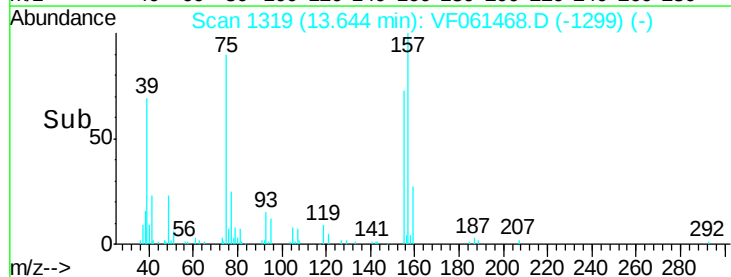
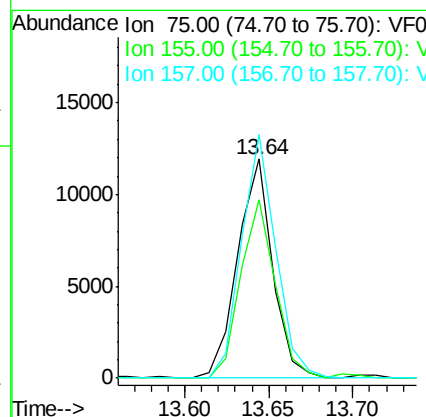
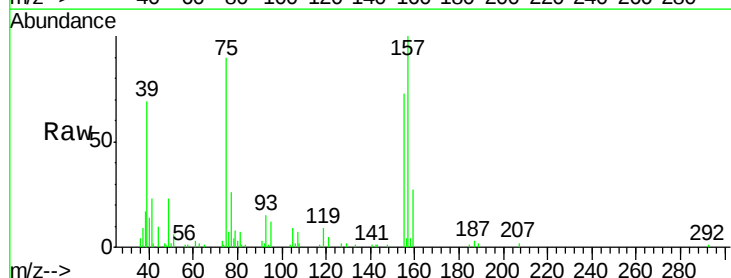
Manual Integrations
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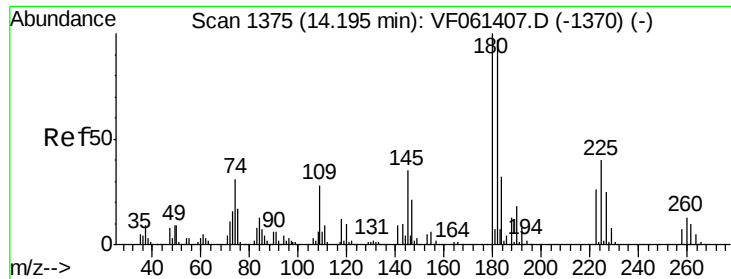
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.136 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.6	49.7	149.1
157	111.2	61.4	184.1





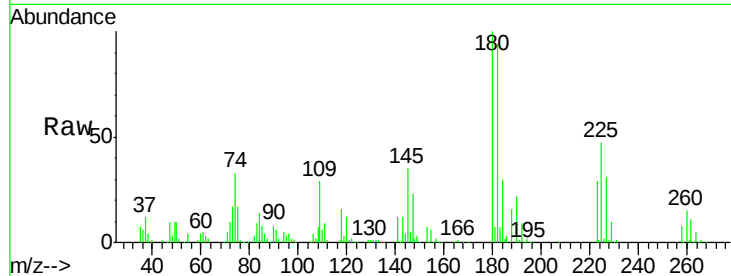
#93
 1,2,4-Trichlorobenzene
 Concen: 45.890 ug/l
 RT: 14.20 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

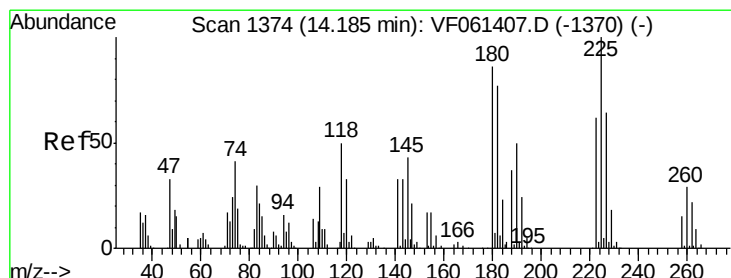
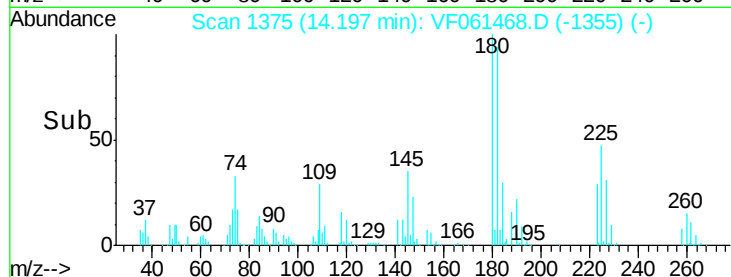
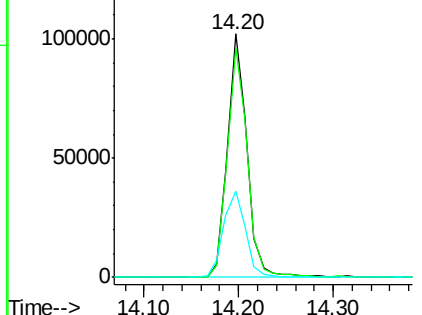
Tot Ion	Ratio	Resp	Lower	Upper
180	100	146293		
182	94.5	48.5	145.6	
145	35.3	17.5	52.6	

Manual Integrations
 APPROVED

MMDadoda
 1/22/2019 2:50:05 PM

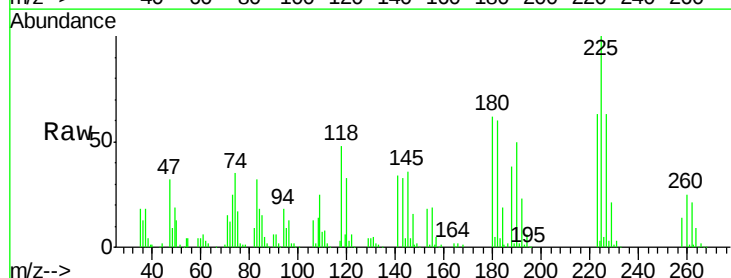


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

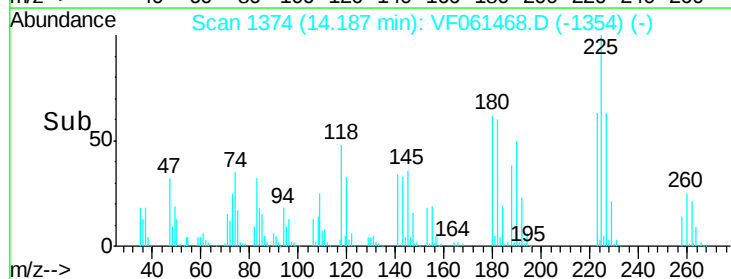
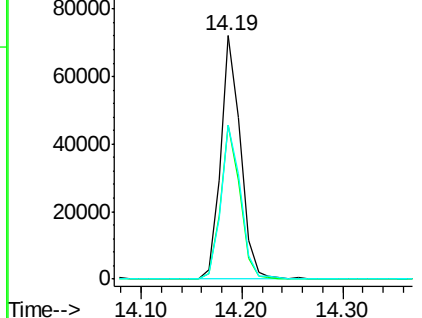


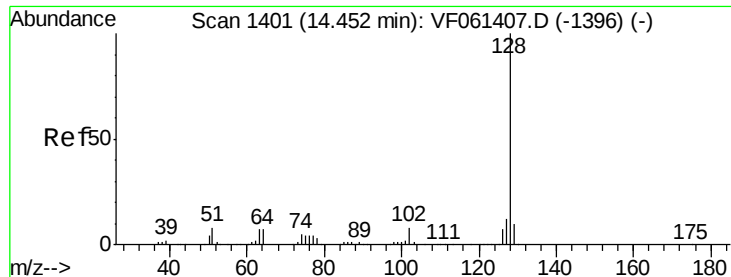
#94
 Hexachlorobutadiene
 Concen: 50.209 ug/l
 RT: 14.19 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: VF061468.D
 Acq: 21 Jan 2019 11:39

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	99322		
223	63.4	31.1	93.2	
227	63.4	32.2	96.6	



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 46.058 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Instrument :

MSVOA_F

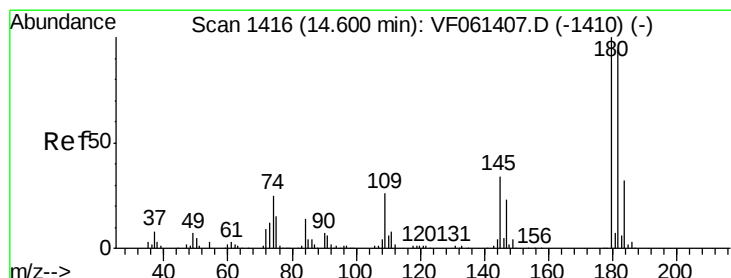
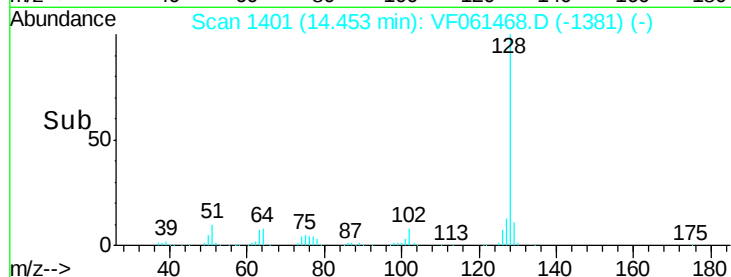
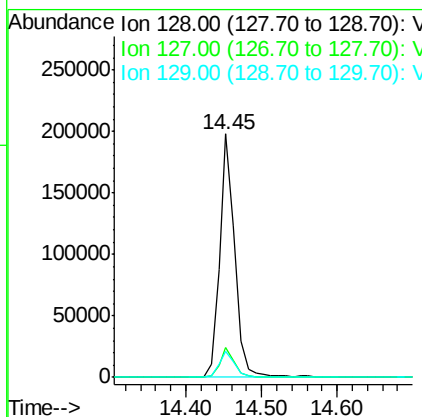
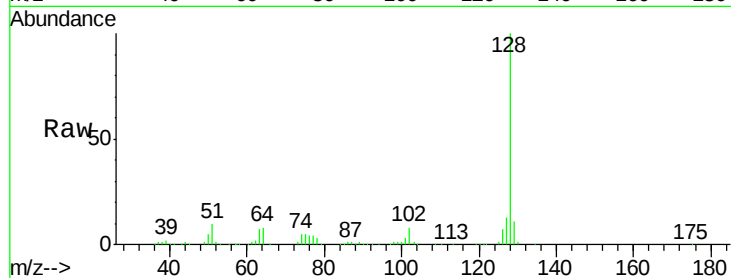
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	278964
Ion	Ratio	Lower	Upper
128	100		
127	12.5	9.5	14.3
129	10.6	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
1/22/2019 2:50:05 PM



#96

1,2,3-Trichlorobenzene

Concen: 45.892 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VF061468.D

Acq: 21 Jan 2019 11:39

Tgt Ion:	180	Resp:	135430
Ion	Ratio	Lower	Upper
180	100		
182	92.7	47.0	141.2
145	33.2	17.1	51.2

