

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012319\
 Data File : VF061480.D
 Acq On : 23 Jan 2019 12:53
 Operator : VA/AP
 Sample : VF0123SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0123SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/24/2019 12:56:44 PM

Quant Time: Jan 24 03:12:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	189517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	325589	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.76	117	305907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	153077	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	109412	46.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.52%	
35) Dibromofluoromethane	4.10	113	126794	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	
50) Toluene-d8	7.54	98	372376	52.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.80%	
62) 4-Bromofluorobenzene	11.40	95	165384	50.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.95	85	71519	19.206	ug/l	88
3) Chloromethane	1.09	50	59915	21.944	ug/l	97
4) Vinyl Chloride	1.14	62	52549	21.636	ug/l	97
5) Bromomethane	1.32	94	32395	20.454	ug/l	86
6) Chloroethane	1.38	64	21342	19.831	ug/l	100
7) Trichlorofluoromethane	1.48	101	93119	19.721	ug/l	97
8) Diethyl Ether	1.62	74	11907	19.681	ug/l	81
9) 1,1,2-Trichlorotrifluoroet	1.82	101	48011	21.162	ug/l	95
10) Methyl Iodide	1.89	142	75037m	21.334	ug/l	
11) Tert butyl alcohol	2.56	59	9758	98.525	ug/l	95
12) 1,1-Dichloroethene	1.79	96	38020	22.556	ug/l	83
13) Acrolein	1.99	56	6775	86.471	ug/l	97
14) Allyl chloride	2.09	41	62201	34.196	ug/l	94
15) Acrylonitrile	2.94	53	29798	117.457	ug/l	96
16) Acetone	2.23	43	56454	120.269	ug/l	92
17) Carbon Disulfide	1.79	76	112372	21.381	ug/l	95
18) Methyl Acetate	2.34	43	20585	22.113	ug/l	94
19) Methyl tert-butyl Ether	2.42	73	76077	20.134	ug/l	93
20) Methylene Chloride	2.18	84	39310m	23.748	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	39690	21.402	ug/l	95
22) Diisopropyl ether	2.79	45	126601	21.106	ug/l #	99
23) Vinyl Acetate	3.18	43	322819	123.987	ug/l	99
24) 1,1-Dichloroethane	2.87	63	79820	21.202	ug/l	98
25) 2-Butanone	4.32	43	92295	118.238	ug/l	98
26) 2,2-Dichloropropane	3.59	77	47363	20.477	ug/l	93
27) cis-1,2-Dichloroethene	3.46	96	61380	22.422	ug/l	98
28) Bromochloromethane	3.70	49	34711	20.512	ug/l #	97
29) Tetrahydrofuran	4.06	42	37640	111.985	ug/l	100
30) Chloroform	3.85	83	112326	22.108	ug/l	95
31) Cyclohexane	3.68	56	86719	23.060	ug/l	99
32) 1,1,1-Trichloroethane	4.08	97	71227	19.119	ug/l	95
36) 1,1-Dichloropropene	4.27	75	83380	22.087	ug/l	99
37) Ethyl Acetate	4.10	43	33423	22.149	ug/l	82
38) Carbon Tetrachloride	3.98	117	68330	20.704	ug/l	96

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Manual Integrations
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MMDadoda
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Quant Time: Jan 24 03:12:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	87835	21.470	ug/l	97
40) Benzene	4.62	78	197855	23.554	ug/l	98
41) Methacrylonitrile	4.73	41	18343	22.845	ug/l	94
42) 1,2-Dichloroethane	4.93	62	61585	20.574	ug/l	98
43) Isopropyl Acetate	6.95	43	46959	24.795	ug/l #	83
44) Trichloroethene	5.49	130	60132	23.335	ug/l	99
45) 1,2-Dichloropropane	6.22	63	49824	22.600	ug/l	98
46) Dibromomethane	6.07	93	31463	21.463	ug/l	95
47) Bromodichloromethane	6.37	83	78826	21.733	ug/l	92
48) Methyl methacrylate	6.70	41	27802	21.861	ug/l	96
49) 1,4-Dioxane	6.68	88	3885	395.680	ug/l #	74
51) 4-Methyl-2-Pentanone	8.24	43	161502	115.995	ug/l	96
52) Toluene	7.61	92	126915	22.943	ug/l	92
53) t-1,3-Dichloropropene	8.26	75	65475	22.734	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	85629	23.786	ug/l	98
55) 1,1,2-Trichloroethane	8.48	97	35461	22.574	ug/l	94
56) Ethyl methacrylate	8.61	69	39777	21.765	ug/l	96
57) 1,3-Dichloropropane	8.84	76	63764	21.656	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.29	63	23662	137.395	ug/l	94
59) 2-Hexanone	9.48	43	124690	128.428	ug/l	95
60) Dibromochloromethane	8.71	129	50024	21.782	ug/l	96
61) 1,2-Dibromoethane	8.97	107	36335	20.205	ug/l	86
64) Tetrachloroethene	8.14	164	49256	21.411	ug/l	96
65) Chlorobenzene	9.78	112	133137	21.402	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.92	131	52695	21.264	ug/l	96
67) Ethyl Benzene	9.89	91	244496	21.512	ug/l	99
68) m/p-Xylenes	10.12	106	184343	45.095	ug/l	100
69) o-Xylene	10.70	106	100237	22.624	ug/l	96
70) Styrene	10.78	104	142705	23.531	ug/l	98
71) Bromoform	10.76	173	24778	22.253	ug/l #	92
73) Isopropylbenzene	11.11	105	291587	23.421	ug/l	99
74) N-amyl acetate	11.36	43	71503	24.288	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.68	83	49986	22.537	ug/l	93
76) 1,2,3-Trichloropropane	11.78	75	35352	22.182	ug/l	99
77) Bromobenzene	11.49	156	59197	22.514	ug/l	95
78) n-propylbenzene	11.59	91	362532	22.450	ug/l	100
79) 2-Chlorotoluene	11.70	91	197218	22.831	ug/l	100
80) 1,3,5-Trimethylbenzene	11.81	105	233168	23.207	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.86	75	13332m	19.244	ug/l	
82) 4-Chlorotoluene	11.89	91	202339	23.212	ug/l	96
83) tert-Butylbenzene	12.12	119	241196	23.194	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	227582	21.990	ug/l	96
85) sec-Butylbenzene	12.30	105	326473	23.117	ug/l	97
86) p-Isopropyltoluene	12.45	119	270133	23.301	ug/l	97
87) 1,3-Dichlorobenzene	12.46	146	112074	20.293	ug/l	99
88) 1,4-Dichlorobenzene	12.55	146	111395	22.420	ug/l	98
89) n-Butylbenzene	12.84	91	290062	24.261	ug/l	100
90) Hexachloroethane	12.91	117	66714	24.413	ug/l	98
91) 1,2-Dichlorobenzene	12.94	146	106687	21.690	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7493	19.047	ug/l	67

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Instrument :
MSVOA_F
ClientSampleId :
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Manual Integrations
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MMDadoda
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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)
93) 1,2,4-Trichlorobenzene	14.19	180	73995	21.475	ug/l	98
94) Hexachlorobutadiene	14.18	225	45450	21.257	ug/l	99
95) Naphthalene	14.45	128	128555	19.637	ug/l	97
96) 1,2,3-Trichlorobenzene	14.59	180	65265	20.462	ug/l	98

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

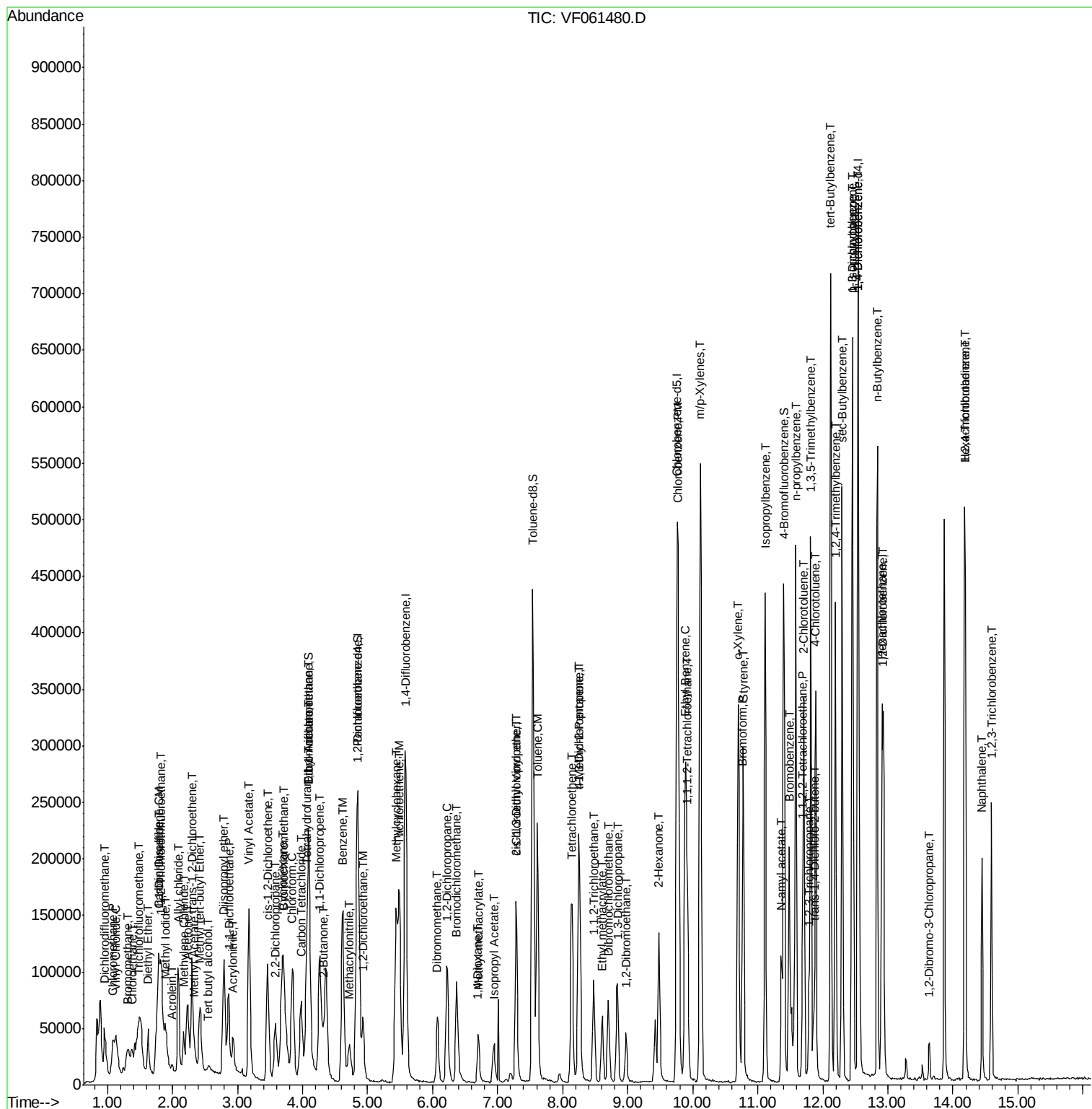
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF012319\
Data File : VF061480.D
Acq On : 23 Jan 2019 12:53
Operator : VA/AP
Sample : VF0123SBS01
Misc : 5.00µg/5mL/MSVOA-F/SOIL
ALS Vial : 4 Sample Multiplier: 1

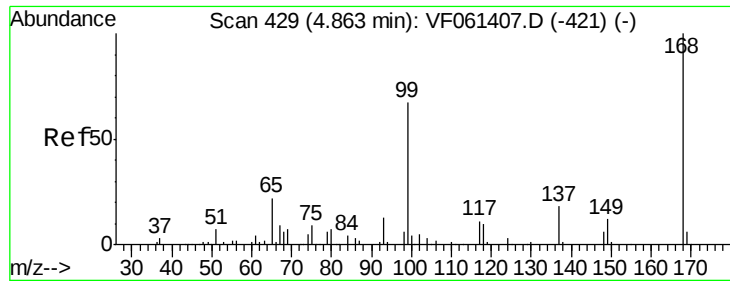
Instrument :
MSVOA_F
Client Sample Id :
VF0123SBS01

Manual Integrations
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MMDadoda
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion:168 Resp: 189517

Ion Ratio Lower Upper

168 100

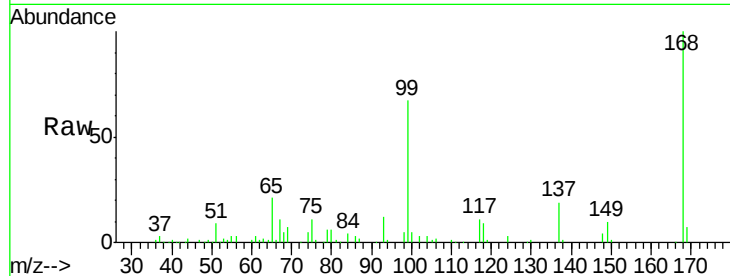
99 67.4 53.5 80.3

Manual Integrations

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1/24/2019 12:56:44 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

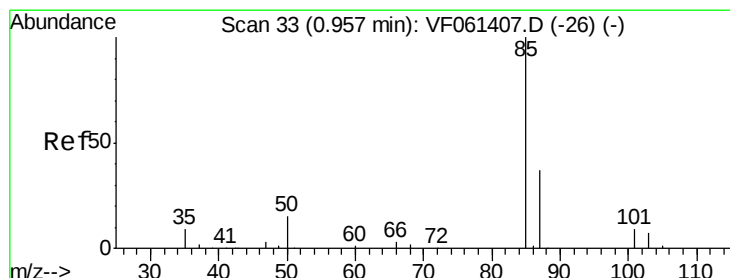
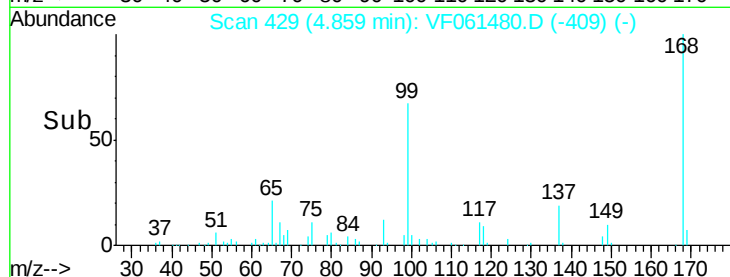
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.206 ug/l

RT: 0.95 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061480.D

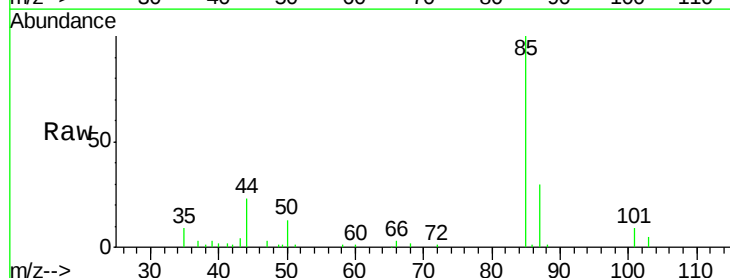
Acq: 23 Jan 2019 12:53

Tgt Ion: 85 Resp: 71519

Ion Ratio Lower Upper

85 100

87 29.5 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.95

25000

20000

15000

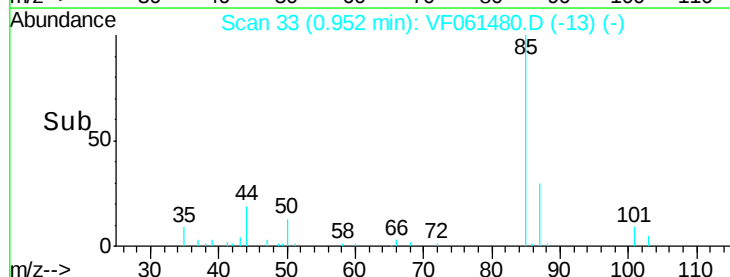
10000

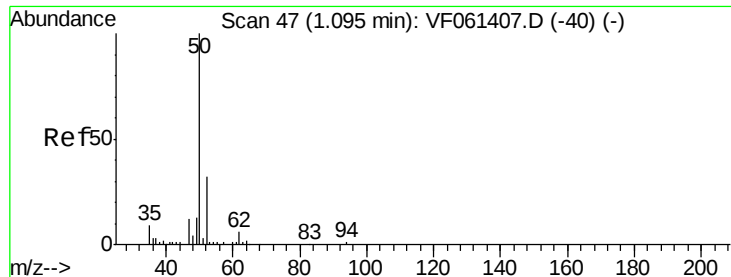
5000

0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 21.944 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 50 Resp: 59915

Ion Ratio Lower Upper

50 100

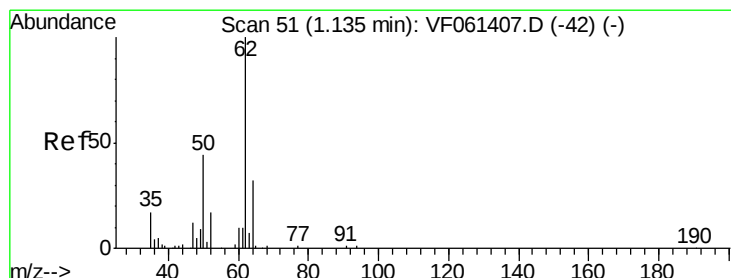
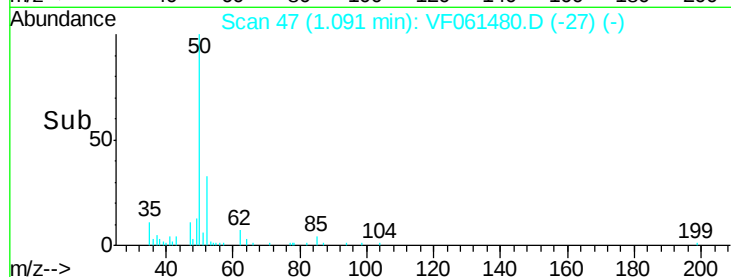
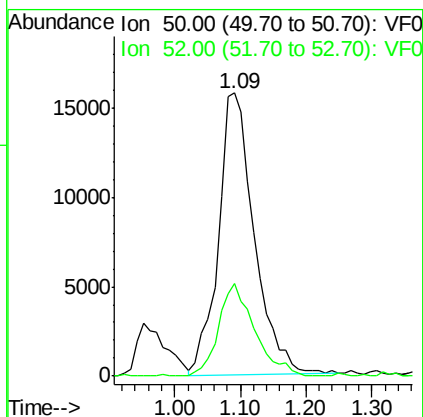
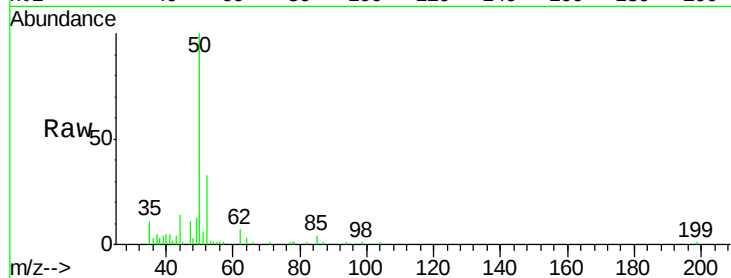
52 32.5 24.6 36.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.636 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061480.D

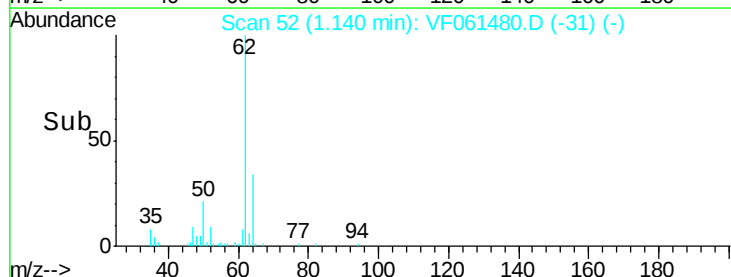
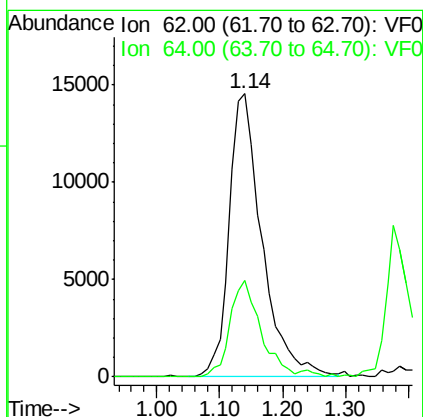
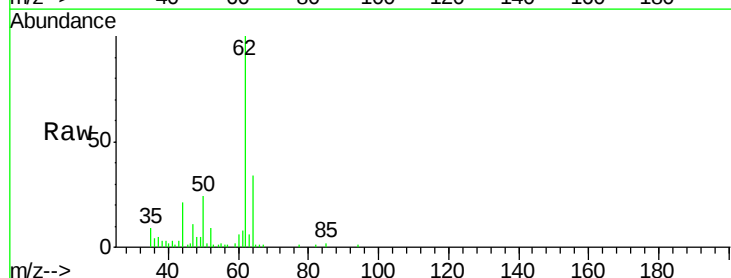
Acq: 23 Jan 2019 12:53

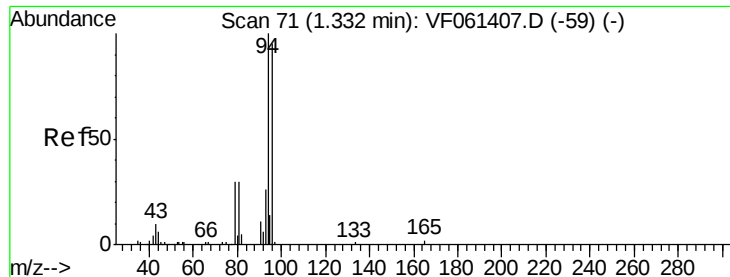
Tgt Ion: 62 Resp: 52549

Ion Ratio Lower Upper

62 100

64 33.9 25.6 38.4





#5

Bromomethane

Concen: 20.454 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 94 Resp: 32395

Ion Ratio Lower Upper

94 100

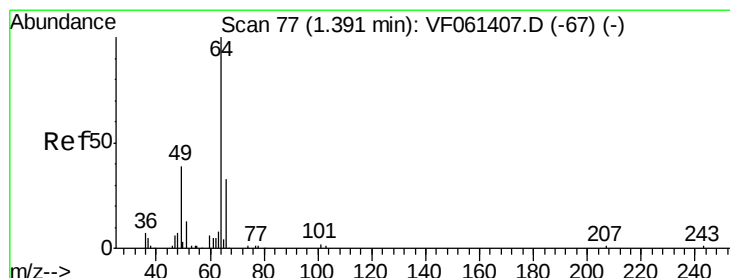
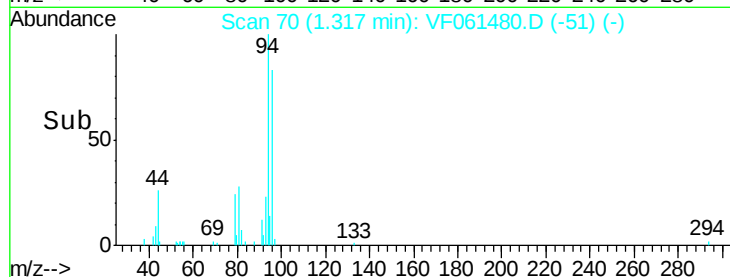
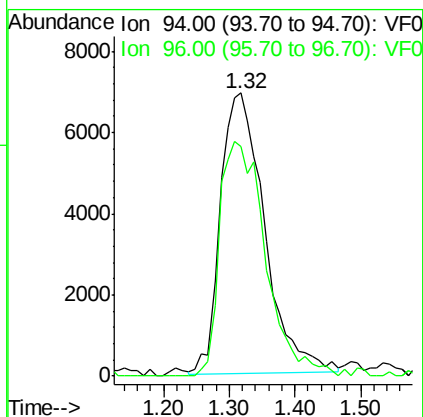
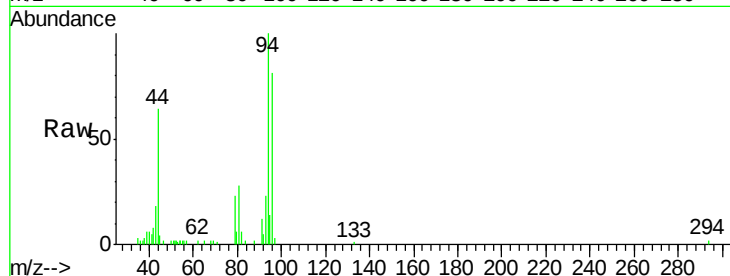
96 81.2 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 19.831 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061480.D

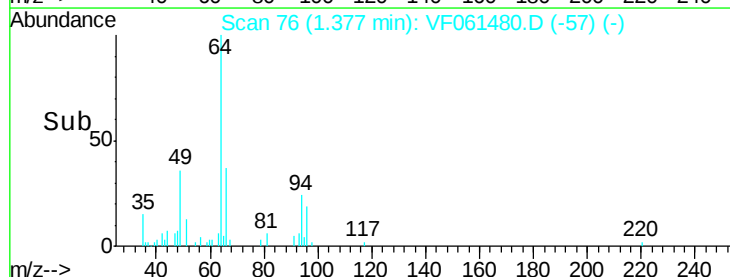
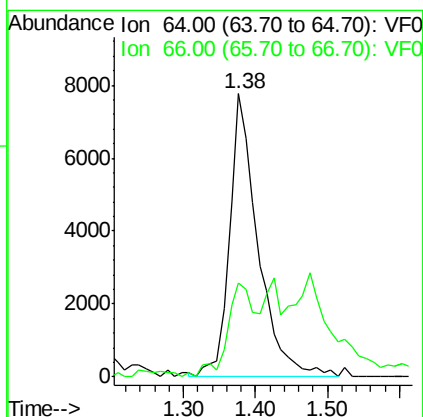
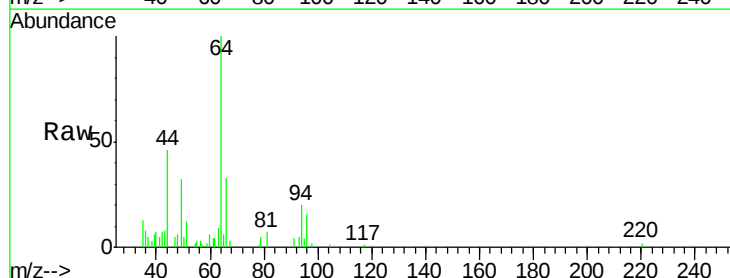
Acq: 23 Jan 2019 12:53

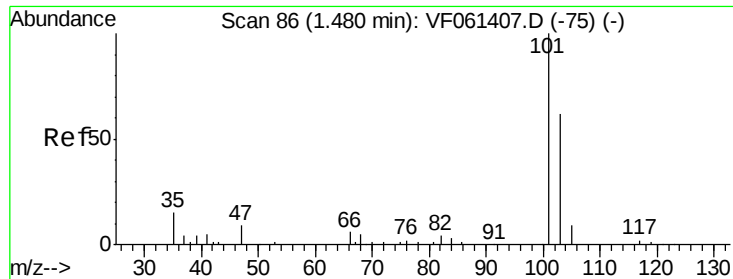
Tgt Ion: 64 Resp: 21342

Ion Ratio Lower Upper

64 100

66 33.3 26.6 40.0





#7

Trichlorofluoromethane

Concen: 19.721 ug/l

RT: 1.48 min Scan# 86

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion:101 Resp: 93119

Ion Ratio Lower Upper

101 100

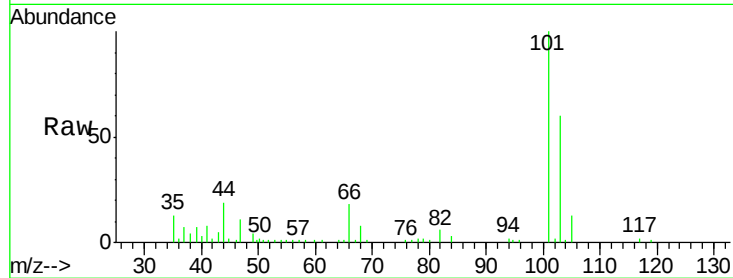
103 60.1 49.7 74.5

Manual Integrations

APPROVED

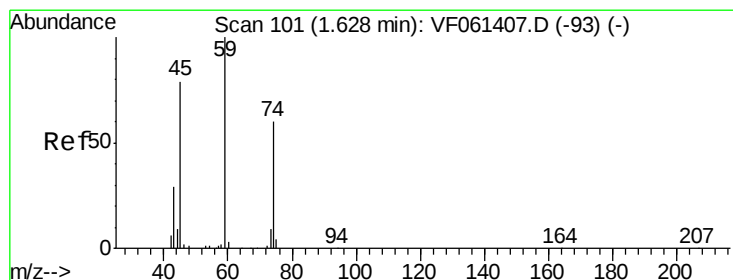
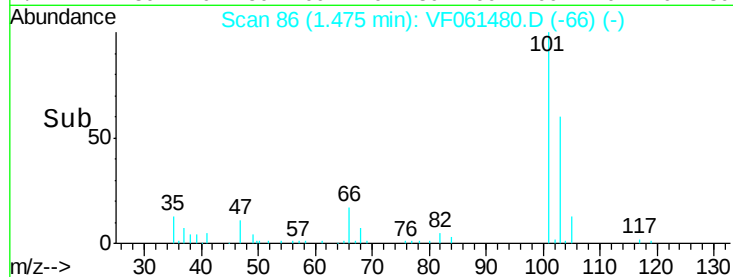
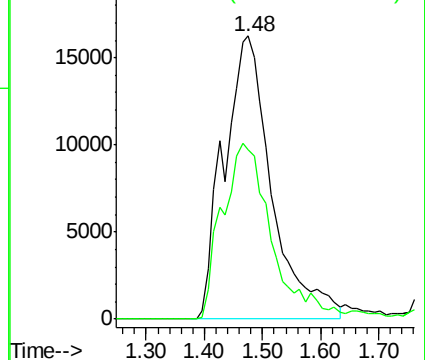
MMDadoda

1/24/2019 12:56:44 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 19.681 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061480.D

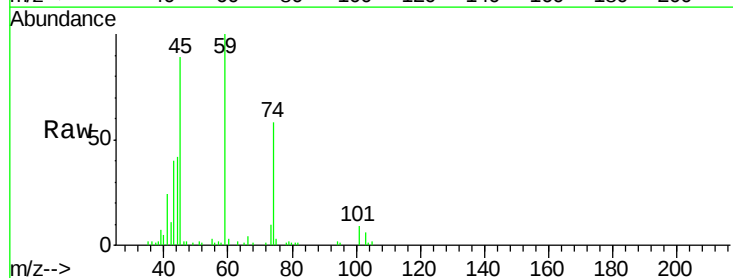
Acq: 23 Jan 2019 12:53

Tgt Ion: 74 Resp: 11907

Ion Ratio Lower Upper

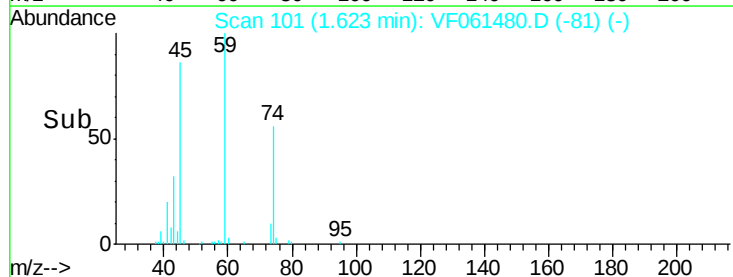
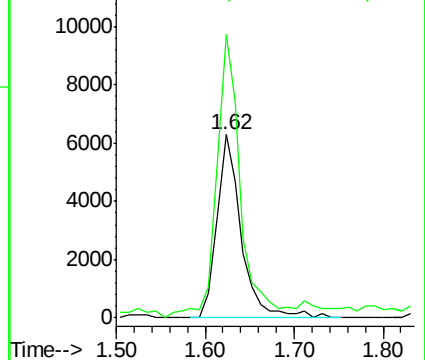
74 100

45 154.4 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: 21.162 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

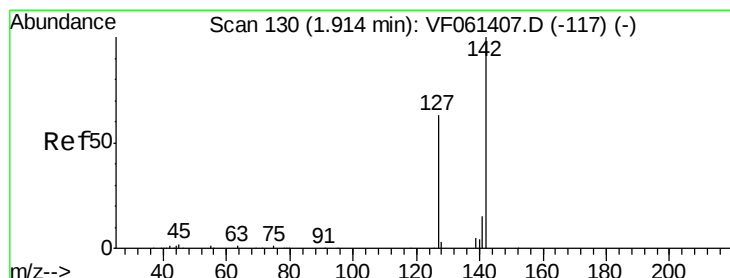
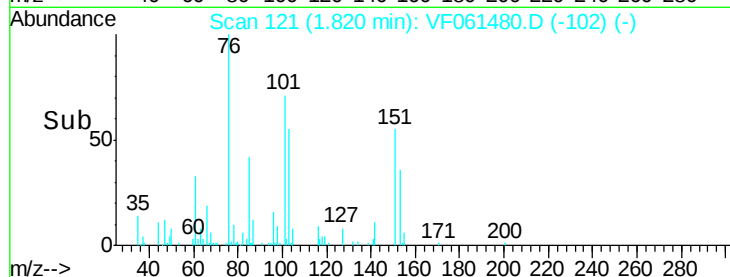
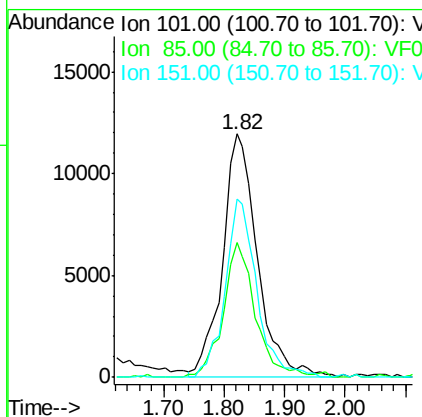
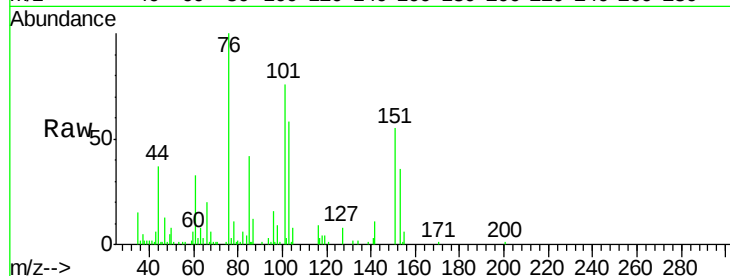
ClientSampleId :

VF0123SBS01

Tot Ion:	101	Resp:	48011
Ion Ratio	Lower	Upper	
101	100		
85	55.1	41.9	62.9
151	73.1	55.1	82.7

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#10

Methyl Iodide

Concen: 21.334 ug/l m

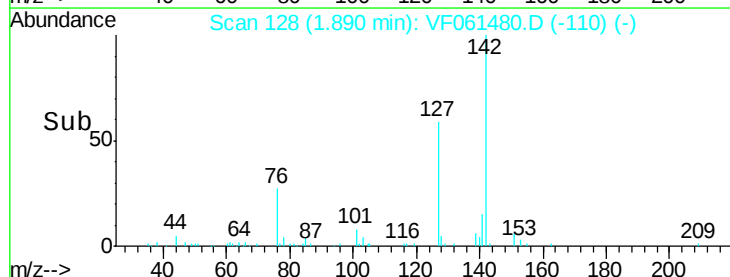
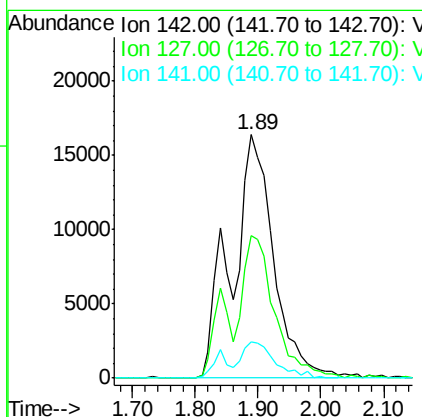
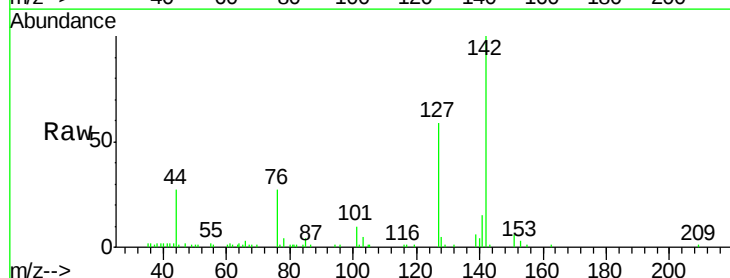
RT: 1.89 min Scan# 128

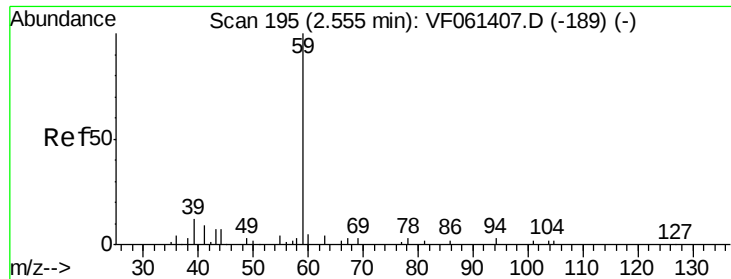
Delta R.T. -0.02 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	142	Resp:	75037
Ion Ratio	Lower	Upper	
142	100		
127	58.7	50.7	76.1
141	15.1	11.8	17.6





#11

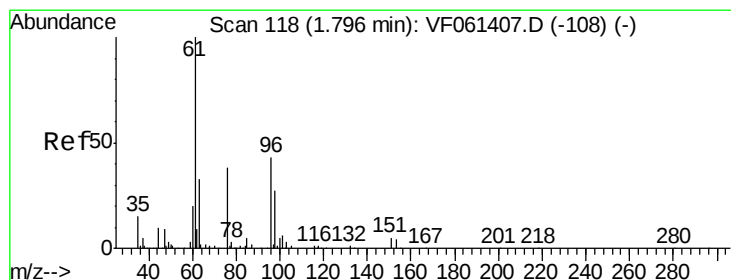
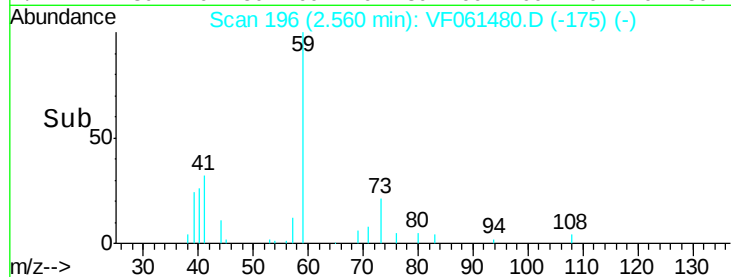
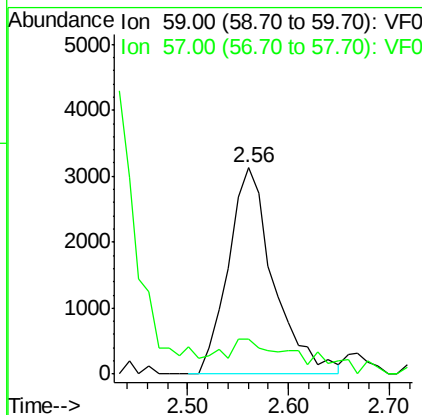
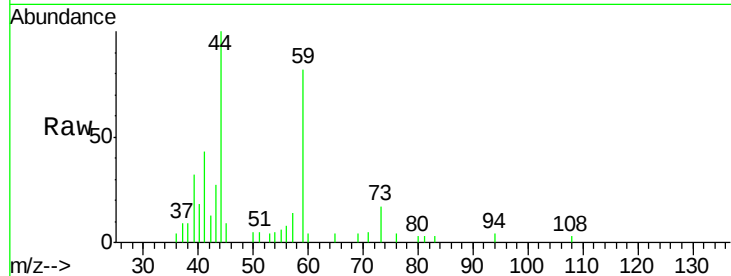
Tert butyl alcohol
Concen: 98.525 ug/l
RT: 2.56 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	59.00 (58.70 to 59.70): VF0	Resp	9758
Ion	Ratio	Lower	Upper
59	100		
57	17.0	11.9	17.9

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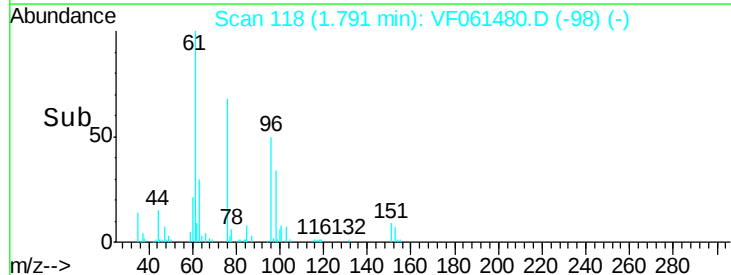
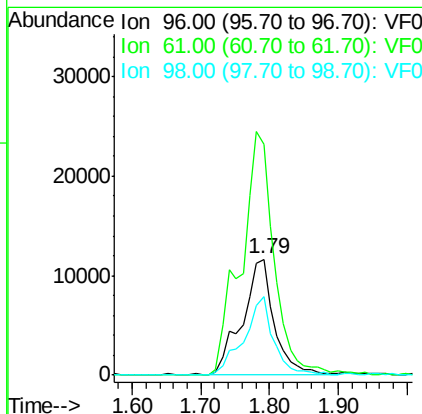
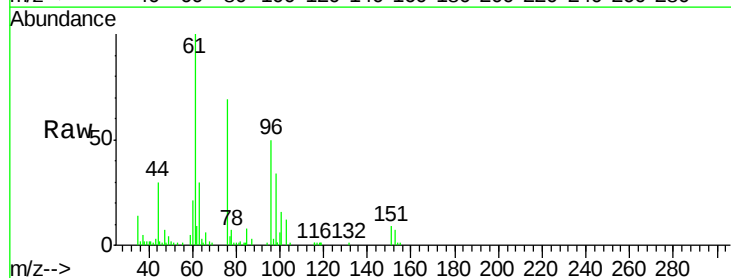
MMDadoda
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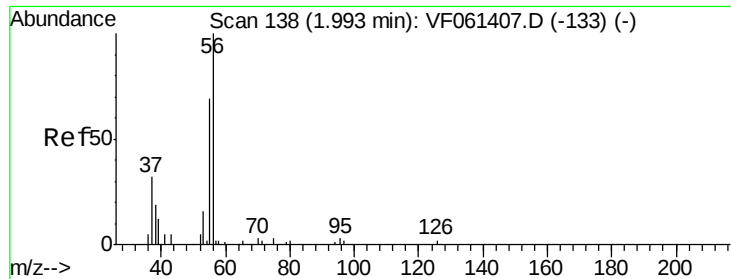


#12

1,1-Dichloroethene
Concen: 22.556 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	96.00 (95.70 to 96.70): VF0	Resp	38020
Ion	Ratio	Lower	Upper
96	100		
61	199.1	186.9	280.3
98	69.6	53.0	79.4





#13

Acrolein

Concen: 86.471 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 56 Resp: 6775

Ion Ratio Lower Upper

56 100

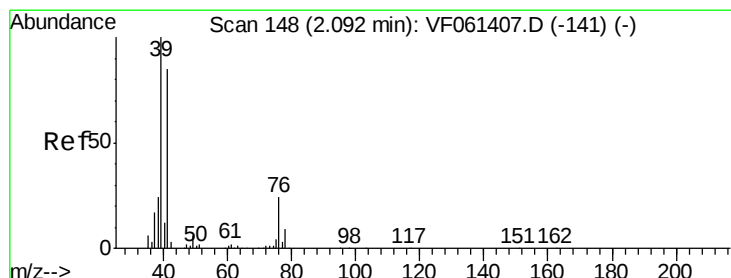
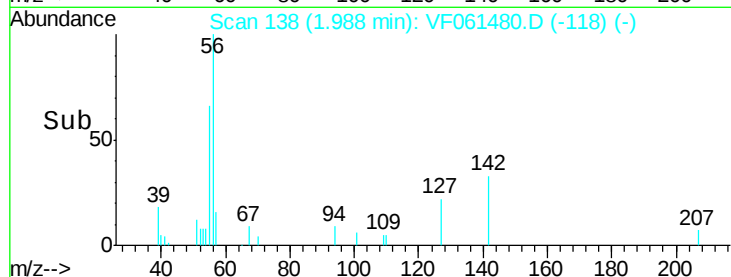
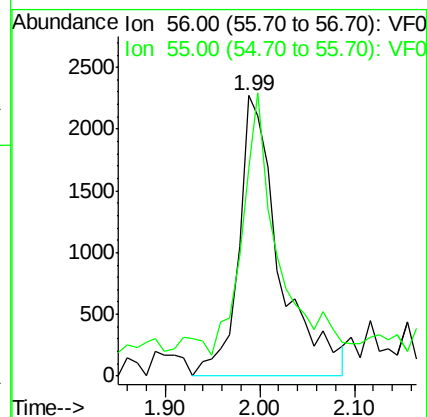
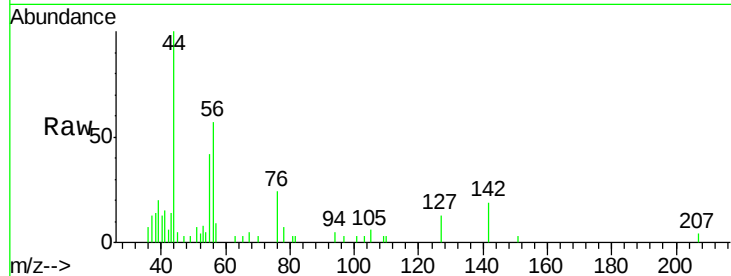
55 74.2 57.5 86.3

Manual Integrations

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#14

Allyl chloride

Concen: 34.196 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

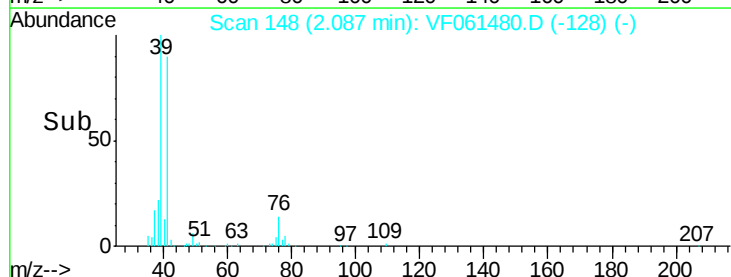
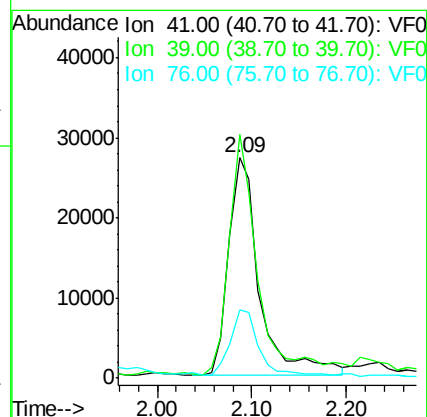
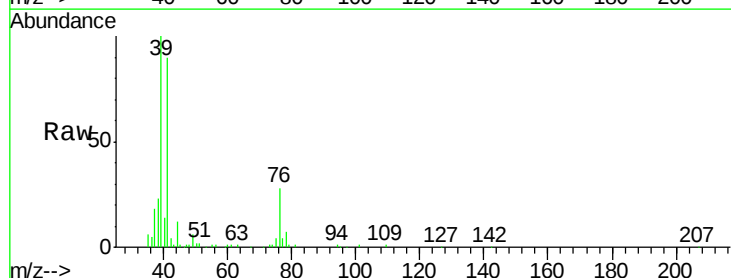
Tgt Ion: 41 Resp: 62201

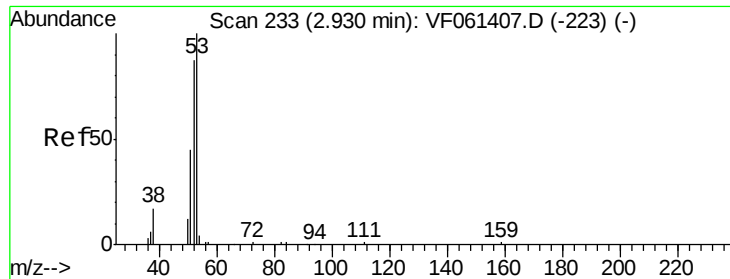
Ion Ratio Lower Upper

41 100

39 110.6 94.6 141.8

76 31.2 25.9 38.9





#15

Acrylonitrile

Concen: 117.457 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

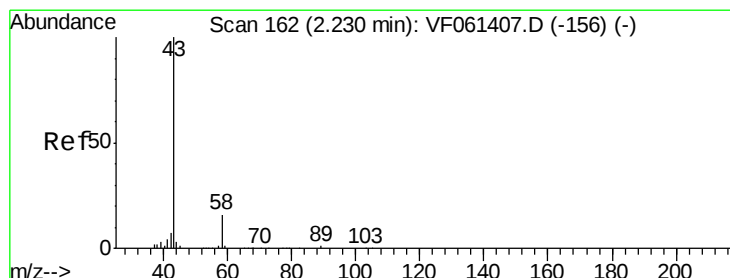
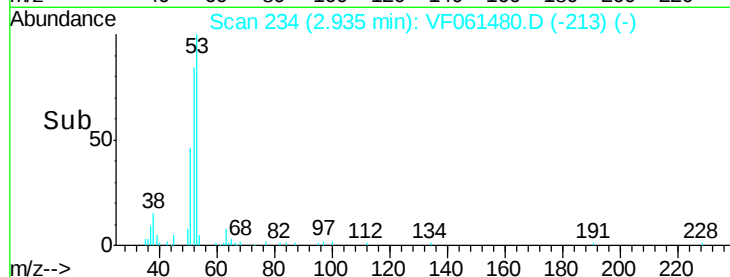
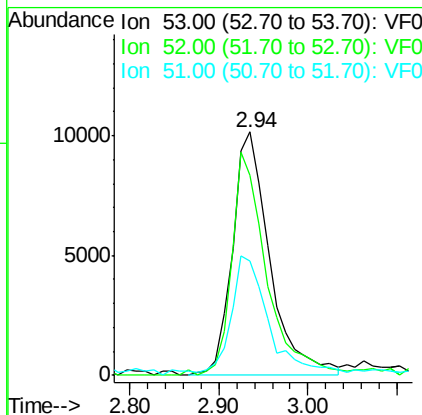
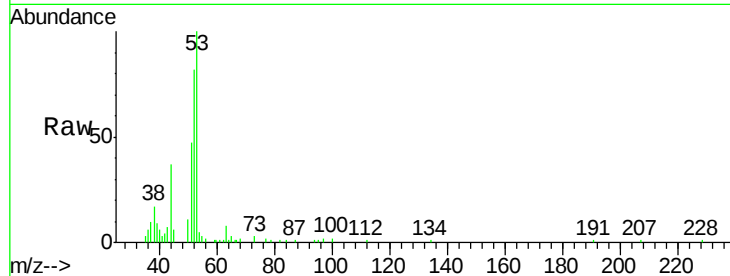
ClientSampleId :

VF0123SBS01

Tot Ion:	53	Resp:	29798
Ion	Ratio	Lower	Upper
53	100		
52	82.1	69.6	104.4
51	46.8	36.8	55.2

Manual Integrations
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#16

Acetone

Concen: 120.269 ug/l

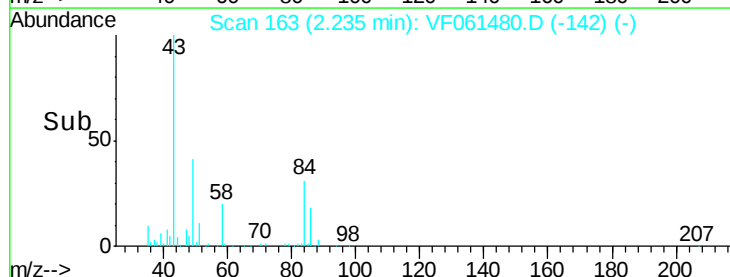
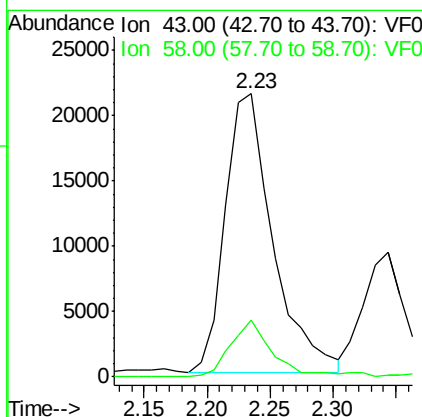
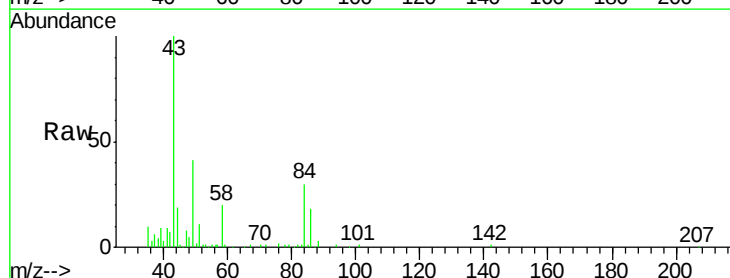
RT: 2.23 min Scan# 163

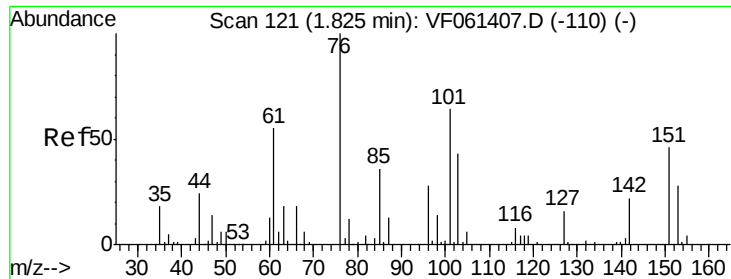
Delta R.T. 0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	43	Resp:	56454
Ion	Ratio	Lower	Upper
43	100		
58	19.9	13.3	19.9





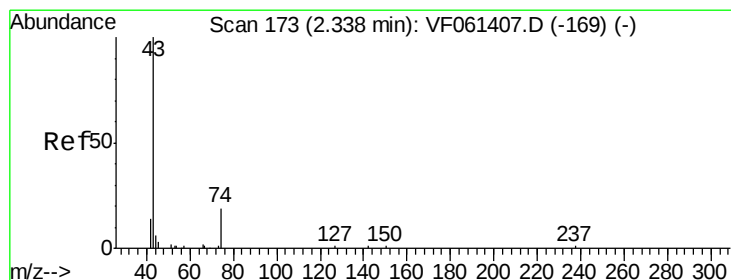
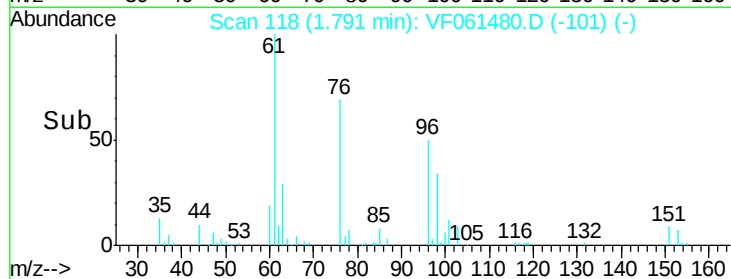
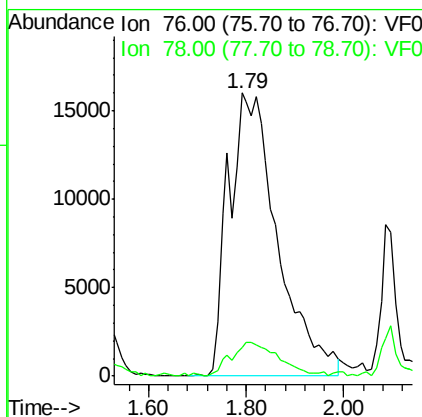
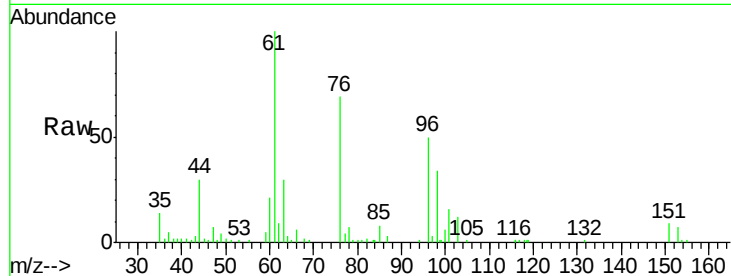
#17
Carbon Disulfide
Concen: 21.381 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.03 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion: 76 Resp: 112372
Ion Ratio Lower Upper
76 100
78 10.0 9.6 14.4

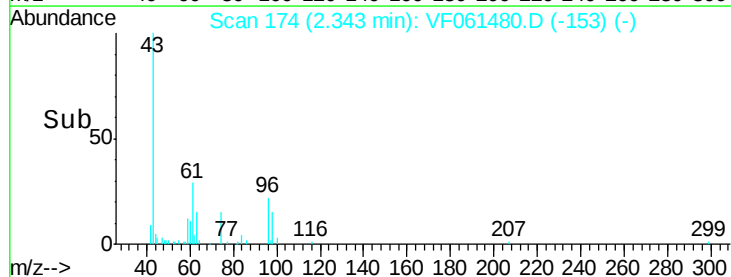
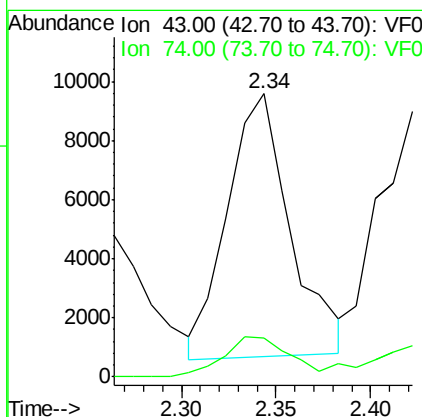
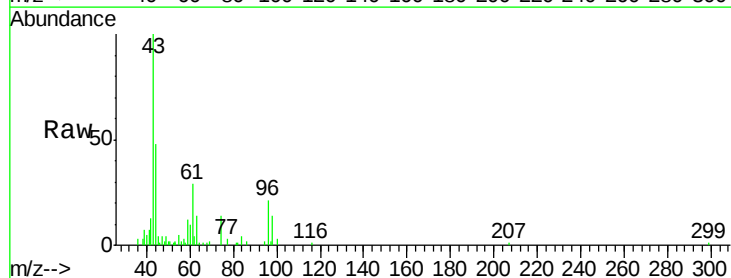
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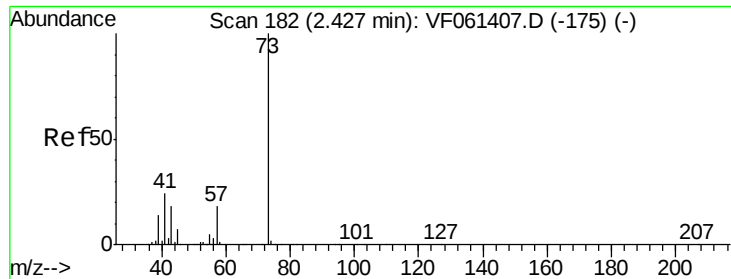
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#18
Methyl Acetate
Concen: 22.113 ug/l
RT: 2.34 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion: 43 Resp: 20585
Ion Ratio Lower Upper
43 100
74 14.0 13.4 20.0





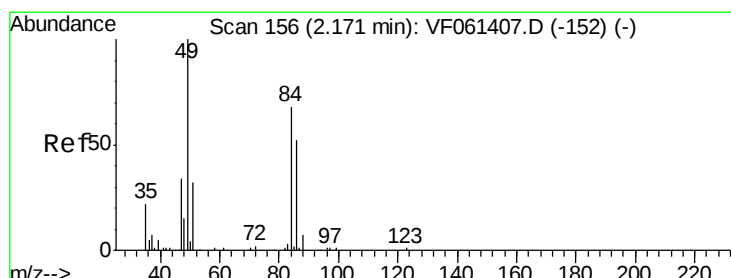
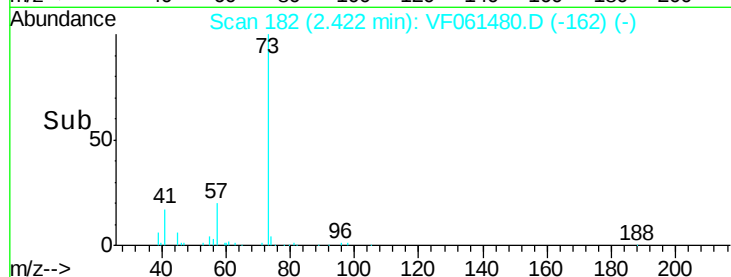
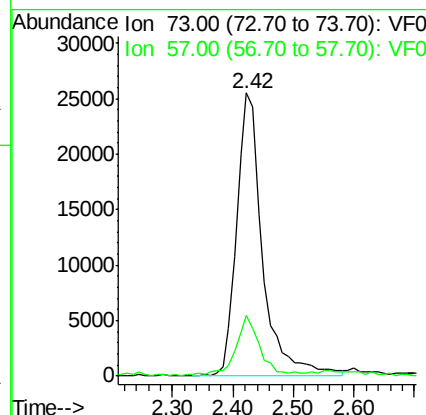
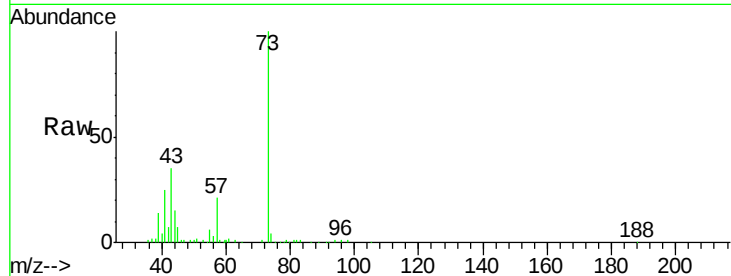
#19
Methyl tert-butyl Ether
Concen: 20.134 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion: 73 Resp: 76077
Ion Ratio Lower Upper
73 100
57 21.4 14.8 22.2

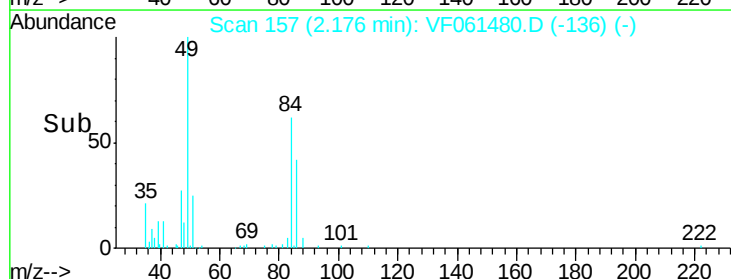
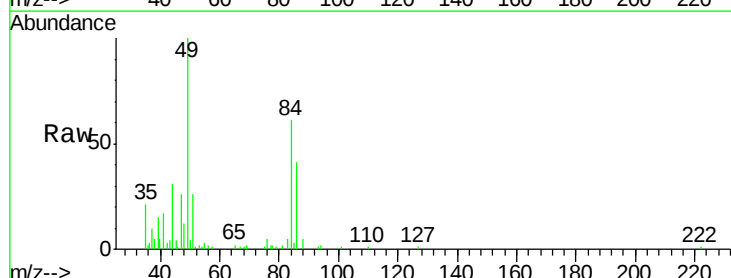
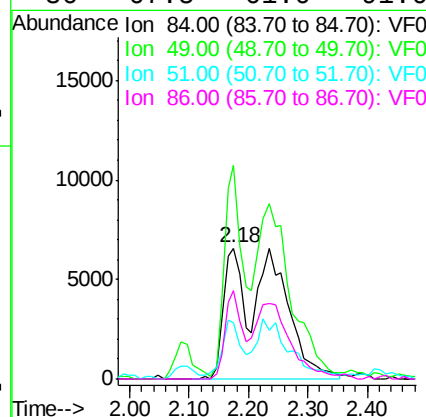
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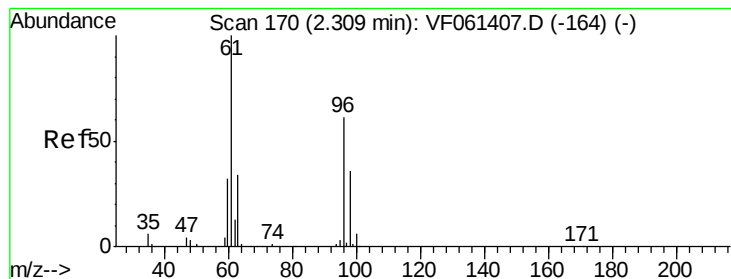
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#20
Methylene Chloride
Concen: 23.748 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion: 84 Resp: 39310
Ion Ratio Lower Upper
84 100
49 162.9 120.0 180.0
51 42.6 38.6 58.0
86 67.5 61.0 91.6





#21

trans-1,2-Dichloroethene

Concen: 21.402 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

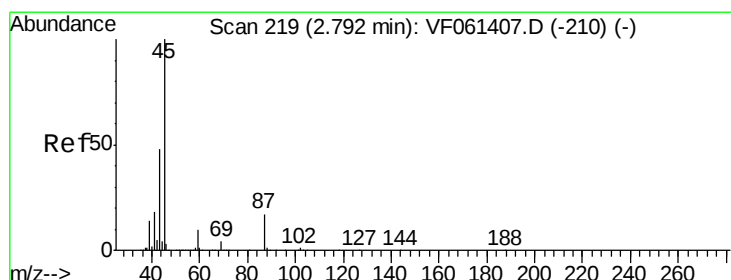
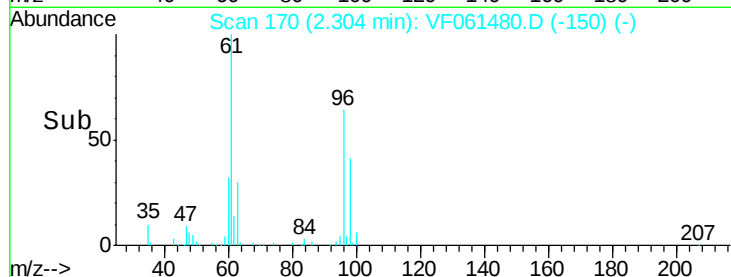
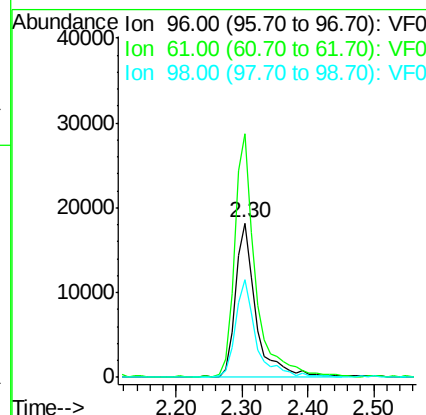
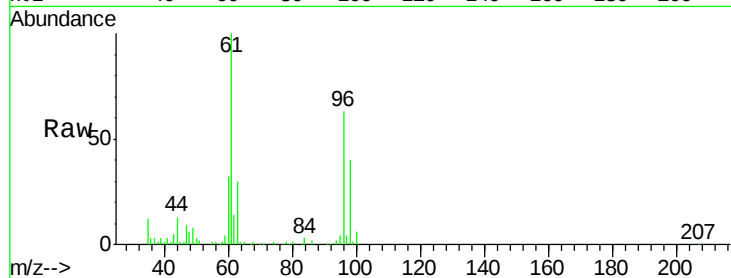
ClientSampleId :

VF0123SBS01

Tot Ion:	96	Resp:	39690
Ion	Ratio	Lower	Upper
96	100		
61	158.0	131.8	197.8
98	63.8	47.4	71.0

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#22

Diisopropyl ether

Concen: 21.106 ug/l

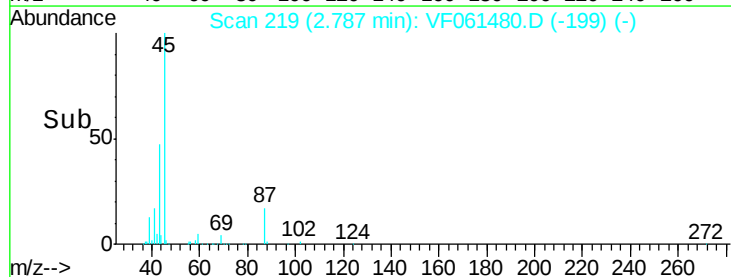
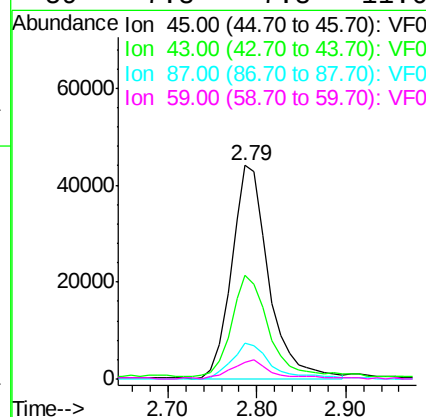
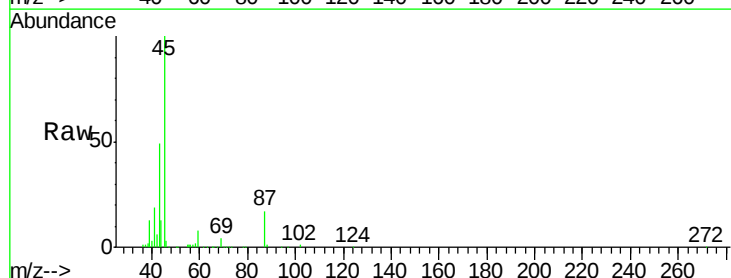
RT: 2.79 min Scan# 219

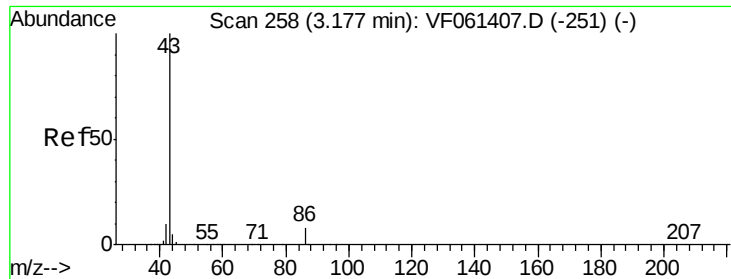
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	45	Resp:	126601
Ion	Ratio	Lower	Upper
45	100		
43	48.8	39.0	58.6
87	17.1	13.9	20.9
59	7.8	7.8	11.6#





#23

Vinyl Acetate

Concen: 123.987 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampled :

VF0123SBS01

Tot Ion: 43 Resp: 322819

Ion Ratio Lower Upper

43 100

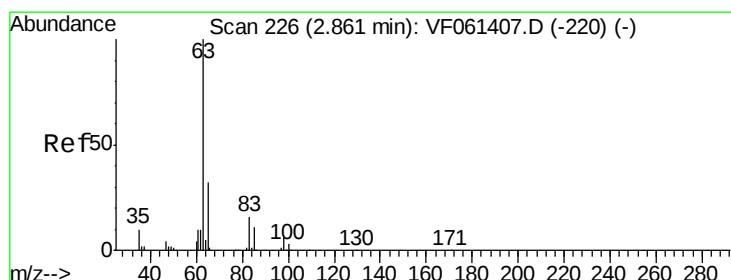
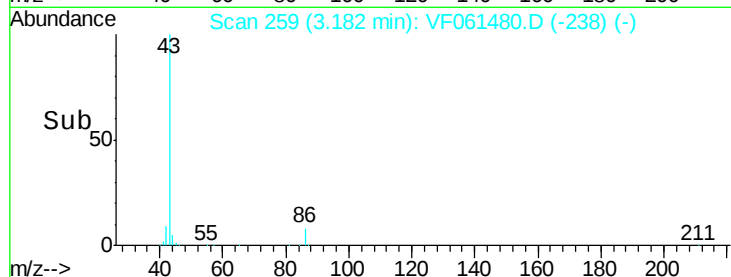
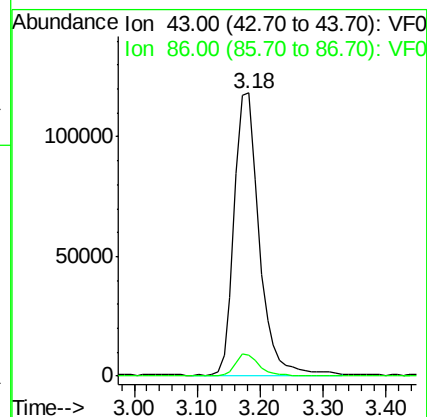
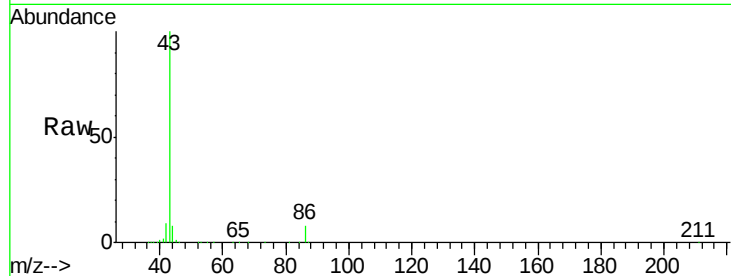
86 7.5 6.2 9.4

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 21.202 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

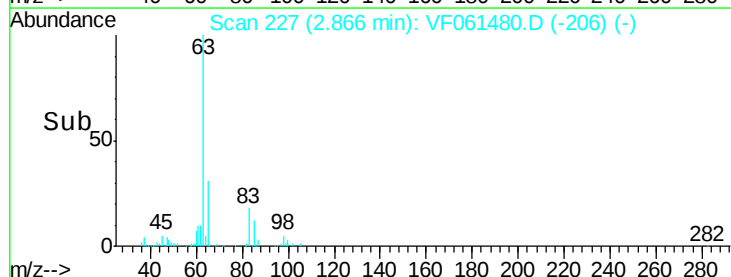
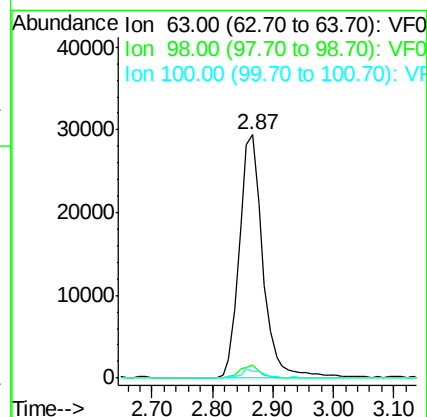
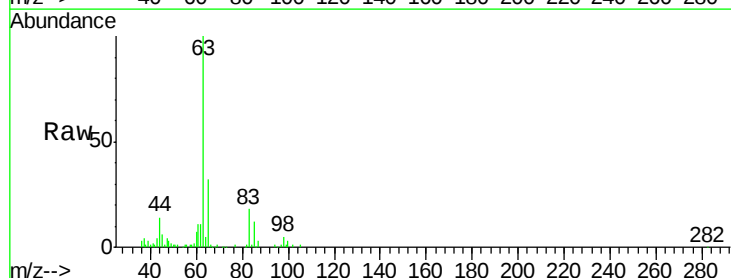
Tgt Ion: 63 Resp: 79820

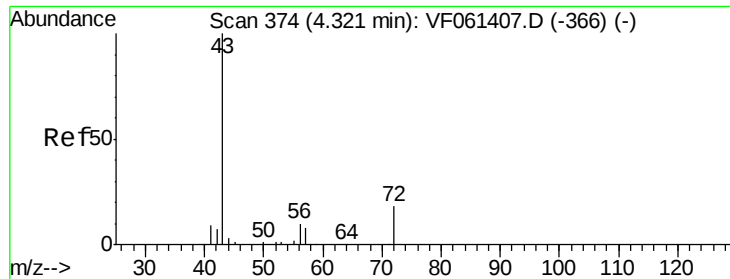
Ion Ratio Lower Upper

63 100

98 5.2 2.9 8.8

100 2.8 1.6 4.8





#25

2-Butanone

Concen: 118.238 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 43 Resp: 92295

Ion Ratio Lower Upper

43 100

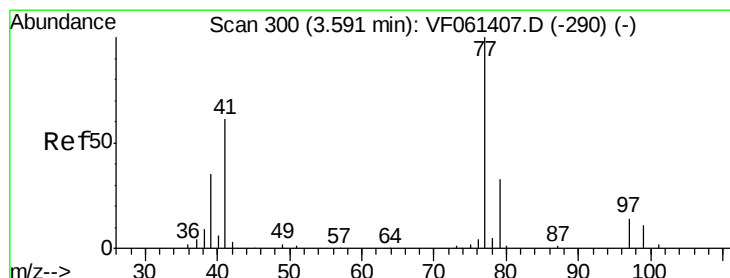
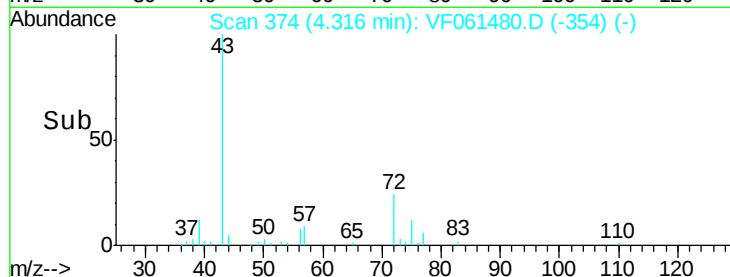
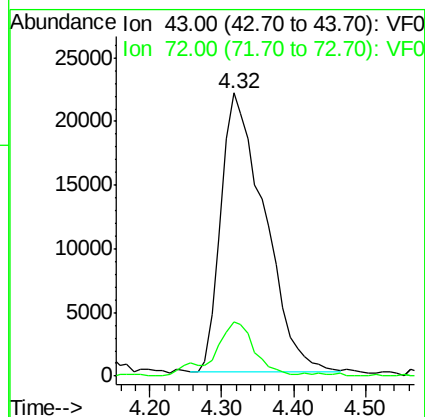
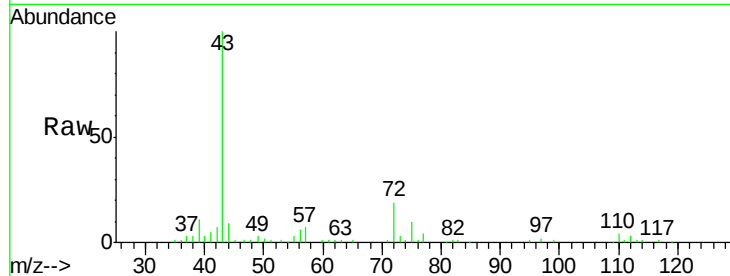
72 19.0 15.8 23.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 20.477 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.00 min

Lab File: VF061480.D

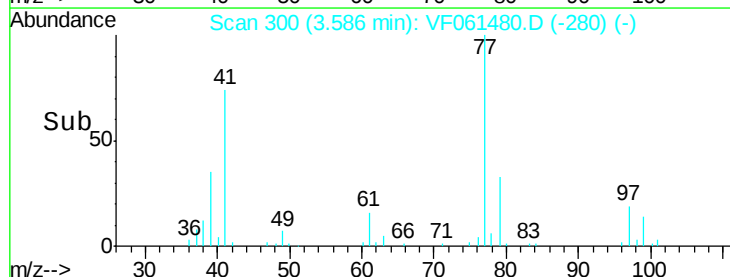
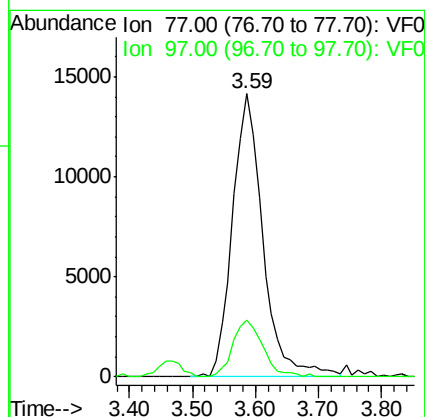
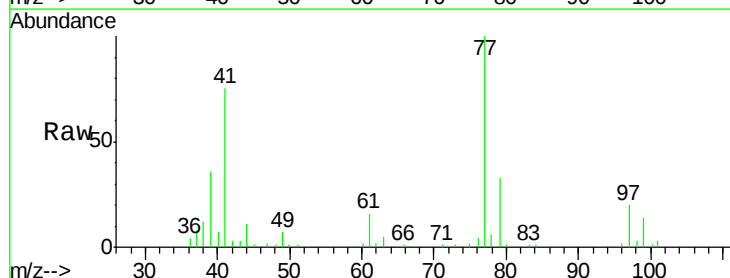
Acq: 23 Jan 2019 12:53

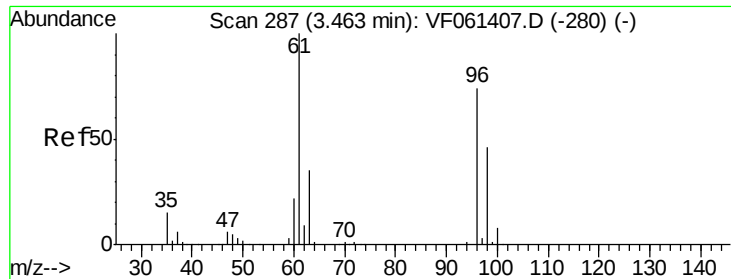
Tgt Ion: 77 Resp: 47363

Ion Ratio Lower Upper

77 100

97 20.0 8.5 25.5





#27

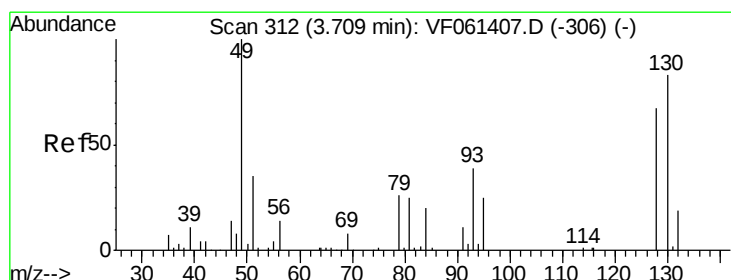
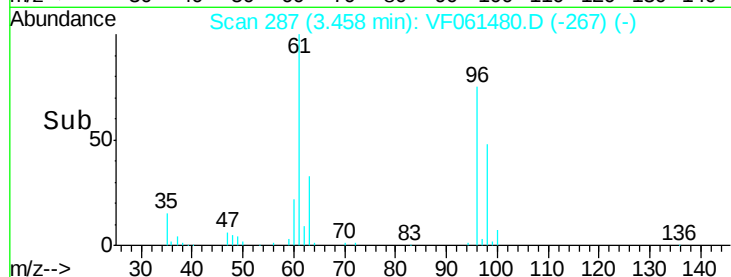
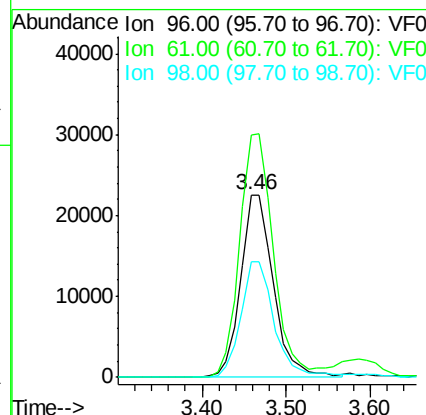
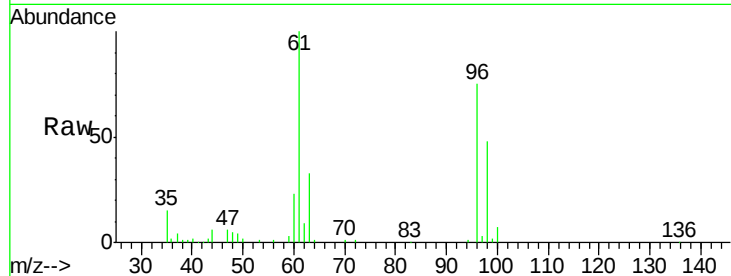
cis-1,2-Dichloroethene
Concen: 22.422 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		61380		
61	133.1	0.0	270.2		
98	63.5	0.0	124.0		

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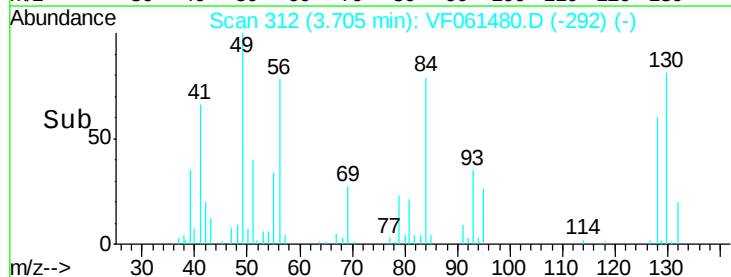
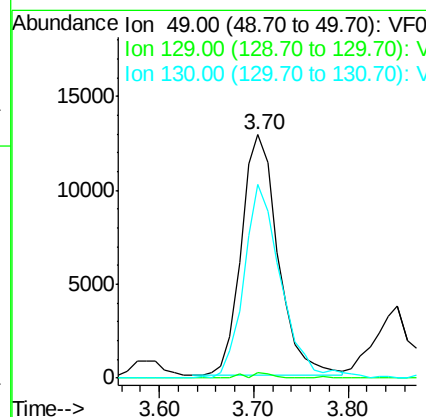
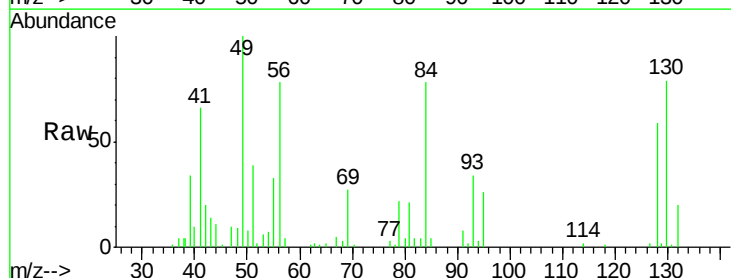
MMDadoda
1/24/2019 12:56:44 PM

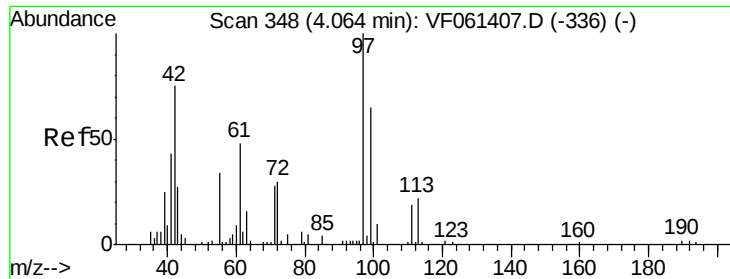


#28

Bromochloromethane
Concen: 20.512 ug/l
RT: 3.70 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100		34711		
129	2.3	0.0	0.0#		
130	79.4	65.4	98.2		





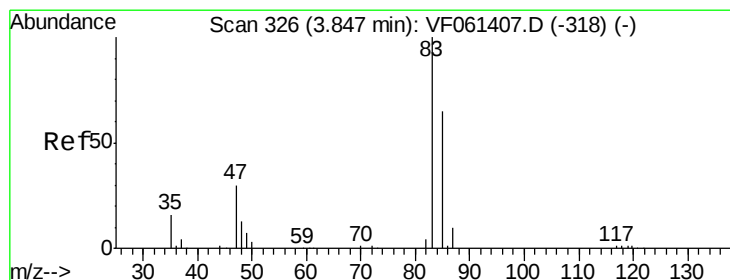
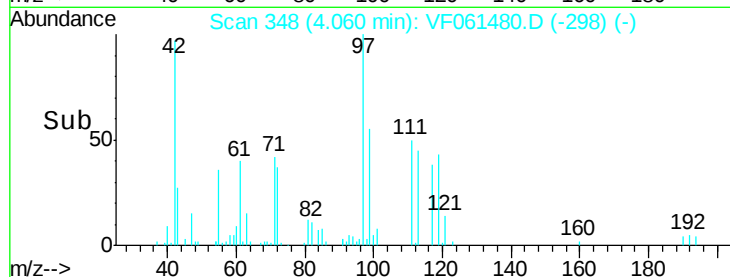
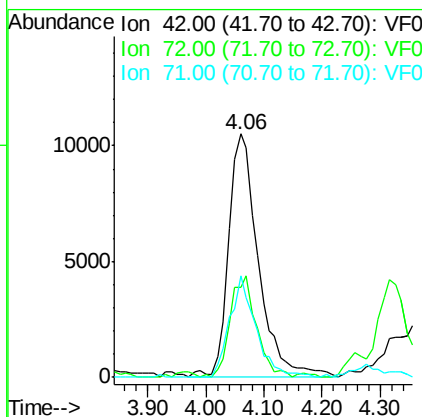
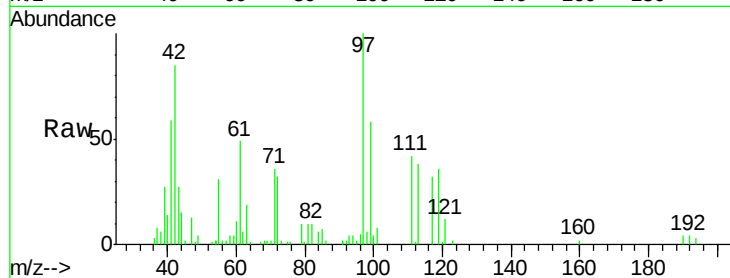
#29
Tetrahydrofuran
Concen: 111.985 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.3	28.9	43.3
71	36.7	29.6	44.4

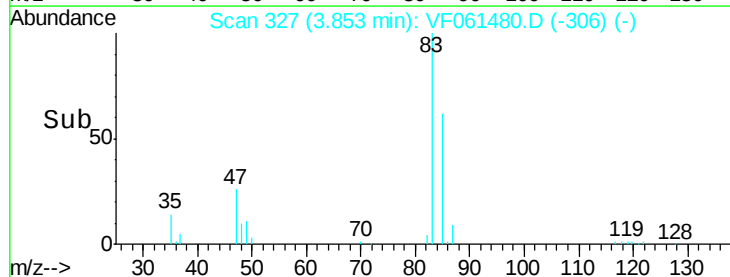
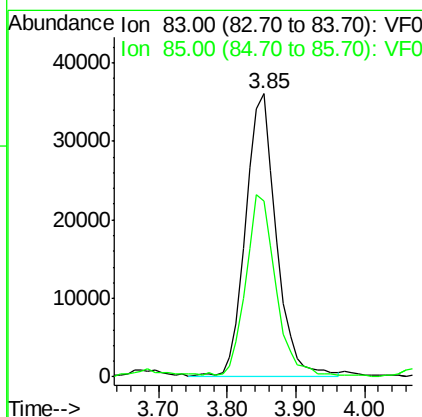
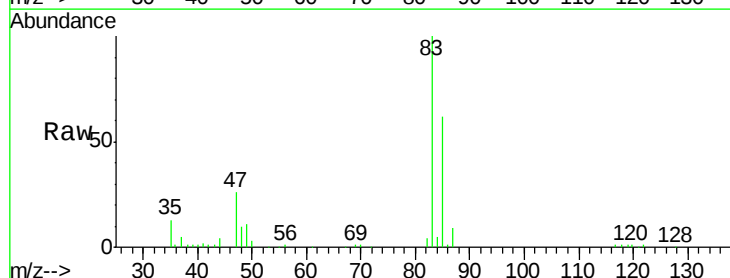
Manual Integrations
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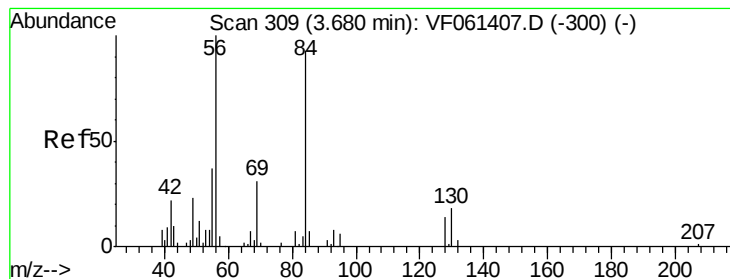
MMDadoda
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#30
Chloroform
Concen: 22.108 ug/l
RT: 3.85 min Scan# 327
Delta R.T. 0.01 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.2	52.7	79.1





#31

Cyclohexane

Concen: 23.060 ug/l

RT: 3.68 min Scan# 310

Delta R.T. 0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

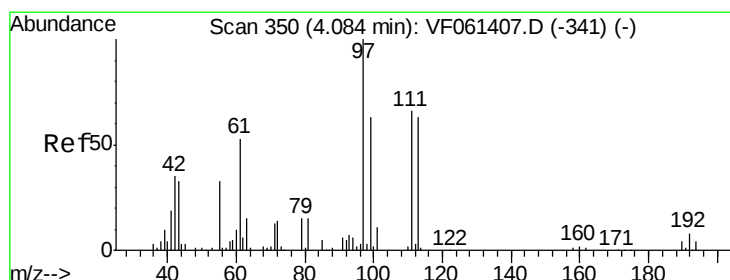
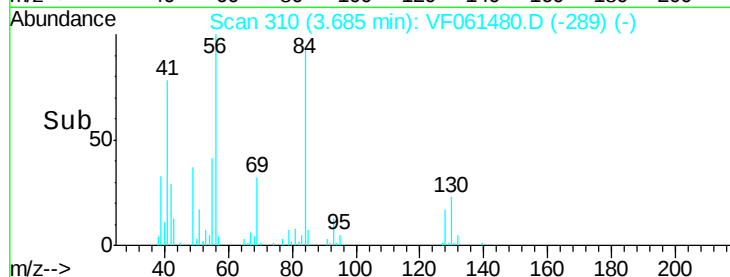
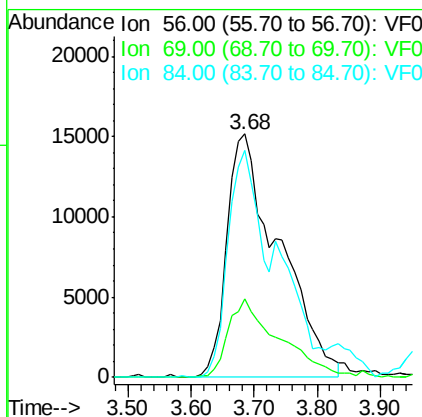
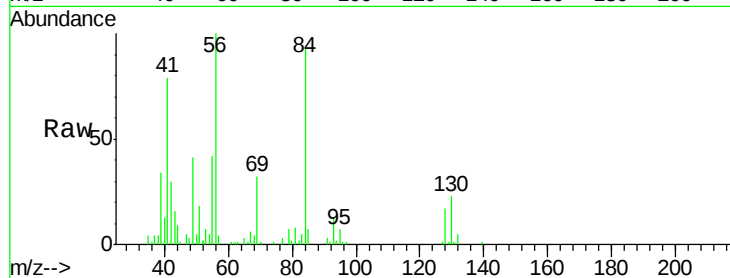
ClientSampleId :

VF0123SBS01

Tot Ion:	56	Resp:	86719
Ion	Ratio	Lower	Upper
56	100		
69	32.0	24.6	36.8
84	93.1	74.2	111.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.119 ug/l

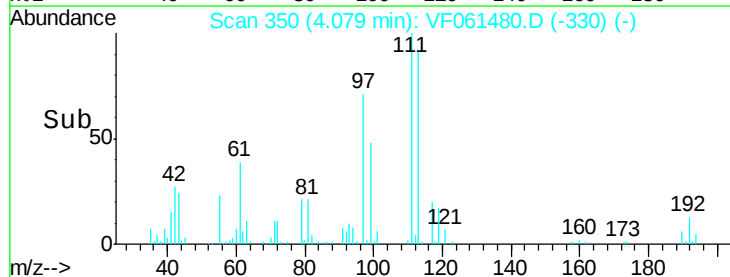
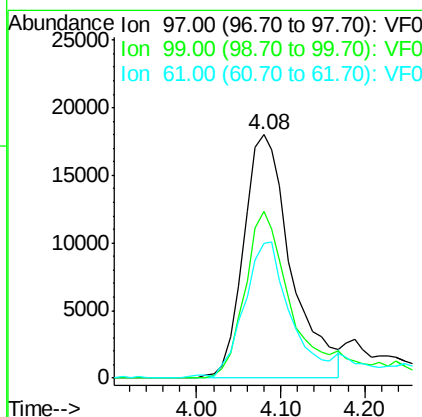
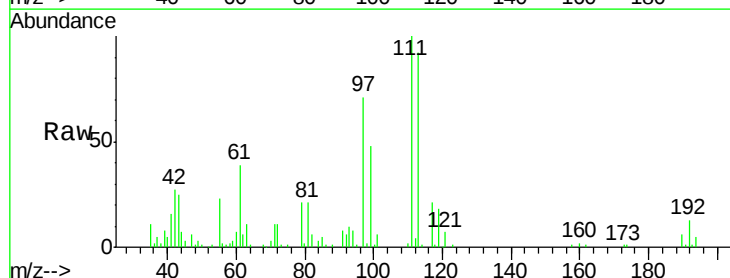
RT: 4.08 min Scan# 350

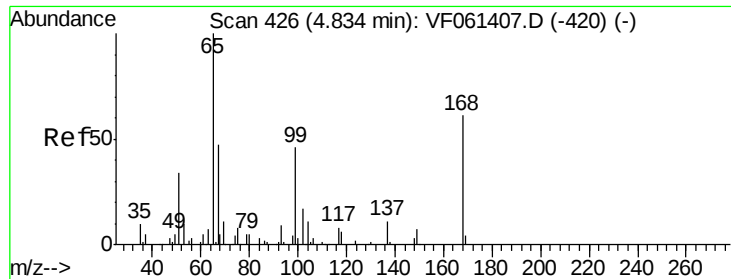
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	97	Resp:	71227
Ion	Ratio	Lower	Upper
97	100		
99	68.4	50.1	75.1
61	55.6	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 46.761 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tot Ion: 65 Resp: 109412

Ion Ratio Lower Upper

65 100

67 47.7 0.0 99.8

Instrument :

MSVOA_F

ClientSampleId :

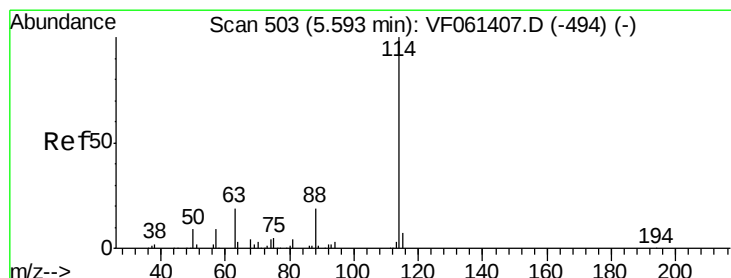
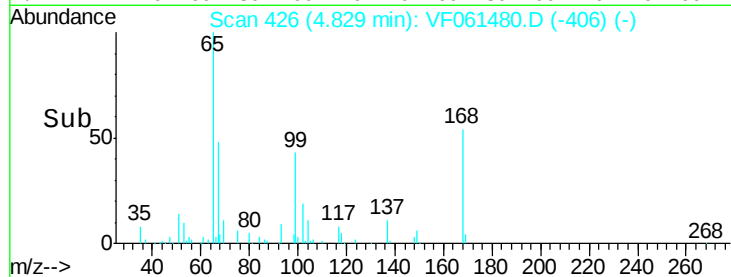
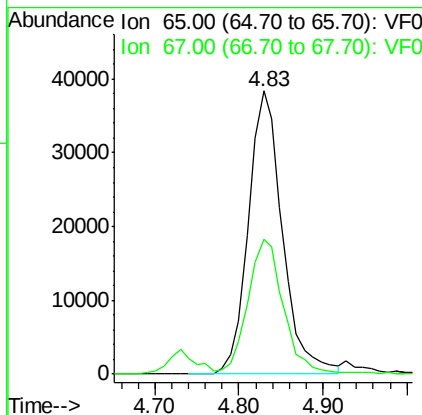
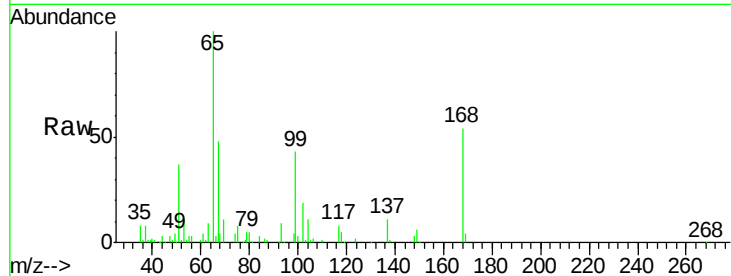
VF0123SBS01

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

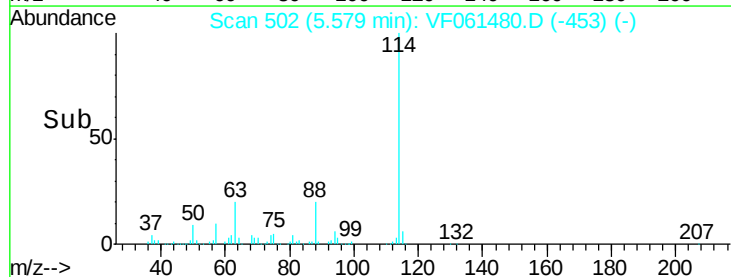
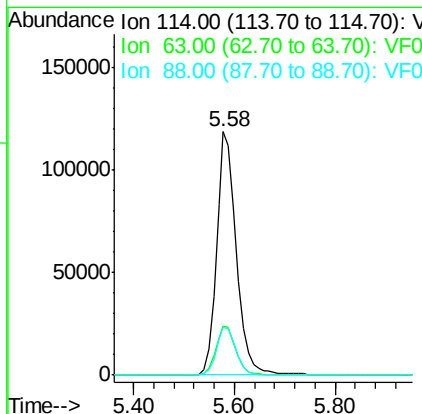
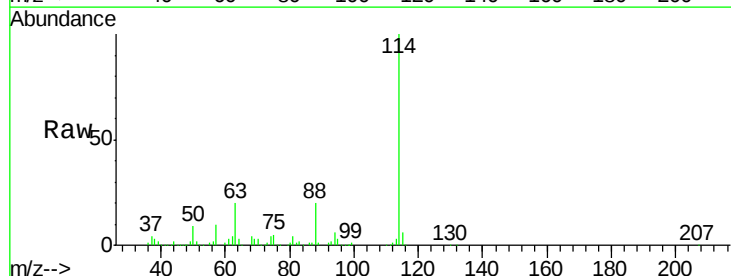
Tgt Ion: 114 Resp: 325589

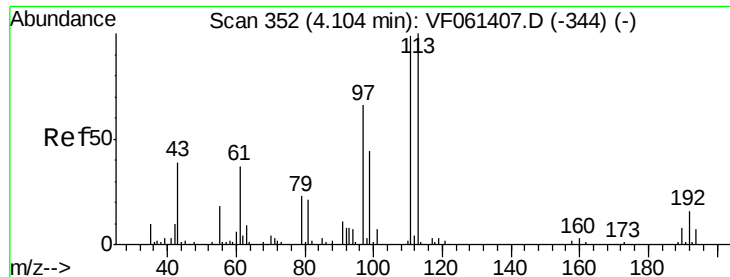
Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.0

88 19.6 0.0 37.4





#35

Dibromofluoromethane

Concen: 49.352 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

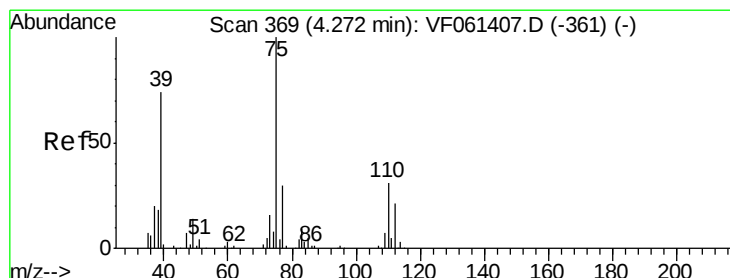
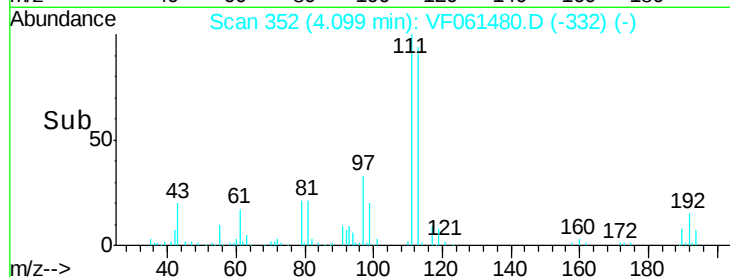
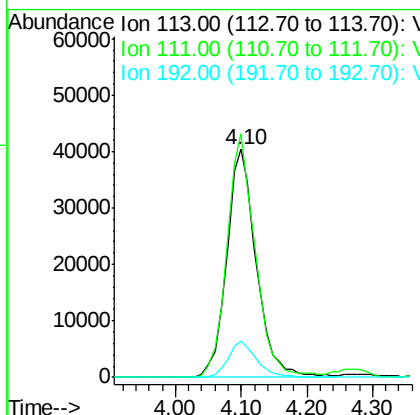
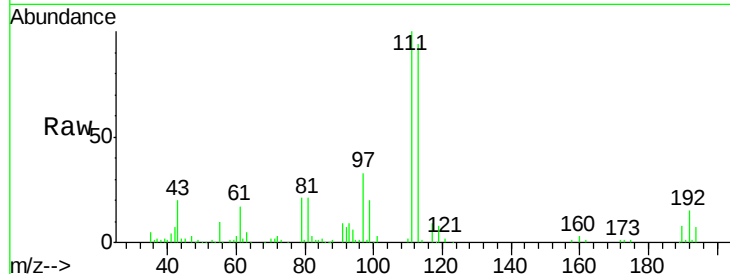
ClientSampleId :

VF0123SBS01

Tot Ion:	113	Resp:	126794
Ion Ratio	Lower	Upper	
113	100		
111	106.9	79.4	119.0
192	15.9	12.4	18.6

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 22.087 ug/l

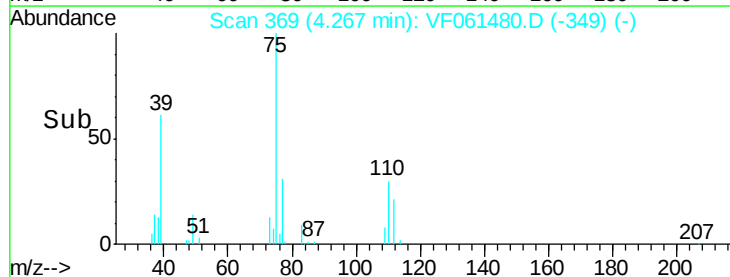
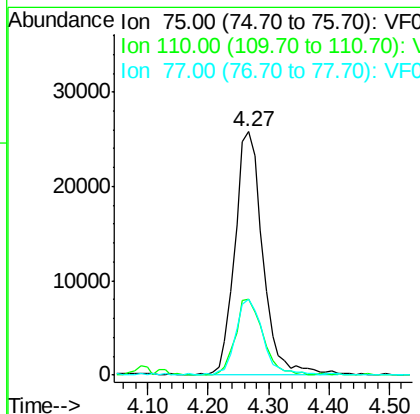
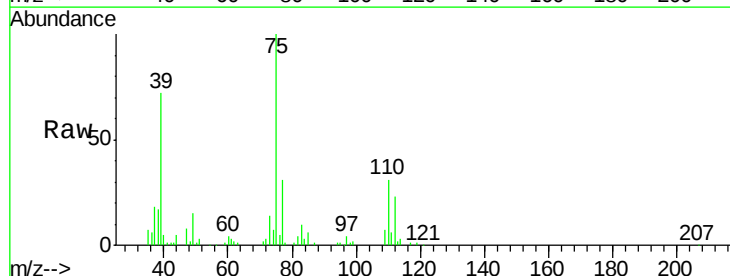
RT: 4.27 min Scan# 369

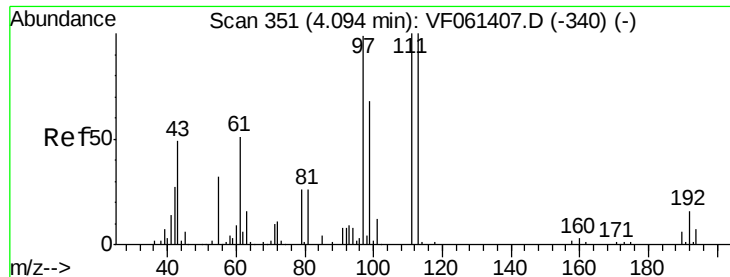
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	75	Resp:	83380
Ion Ratio	Lower	Upper	
75	100		
110	31.3	15.8	47.3
77	30.9	24.0	36.0





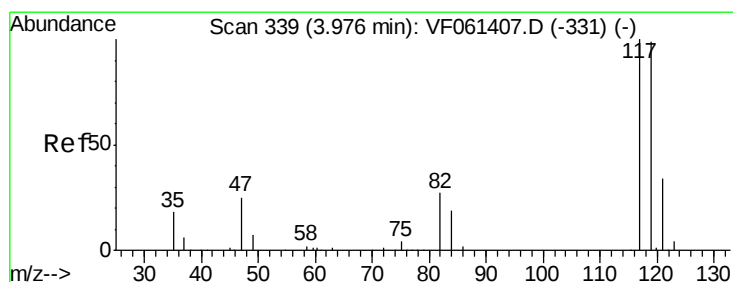
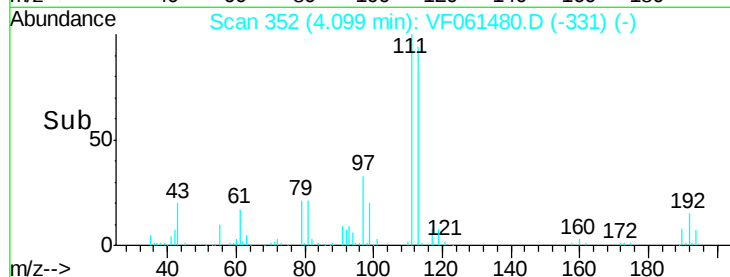
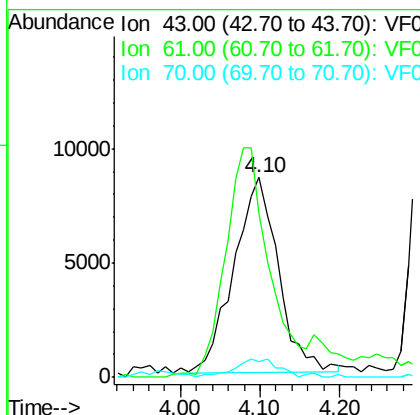
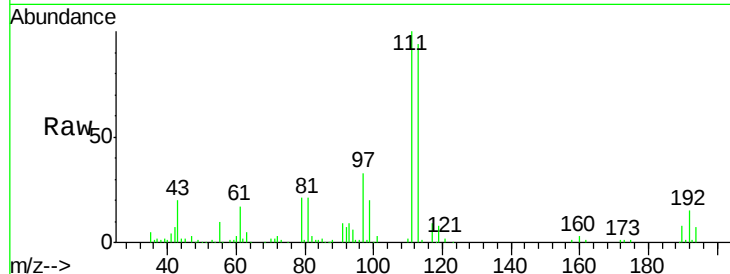
#37
Ethyl Acetate
Concen: 22.149 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper
33423	100	82.2	8.0			
		81.7	6.2			
			9.2			

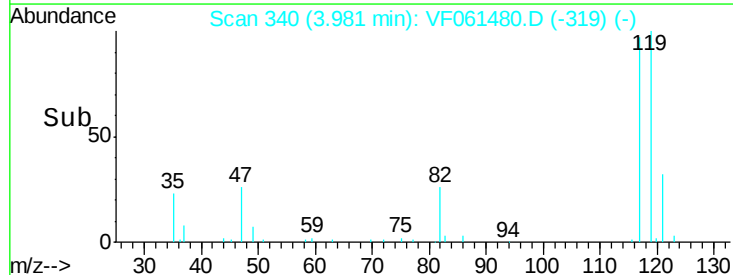
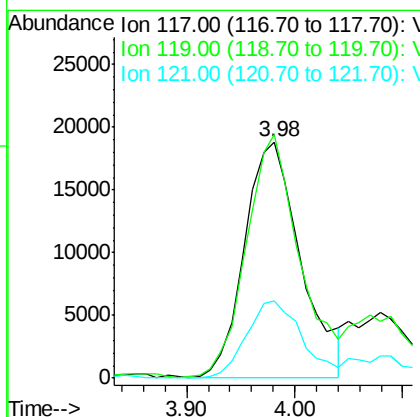
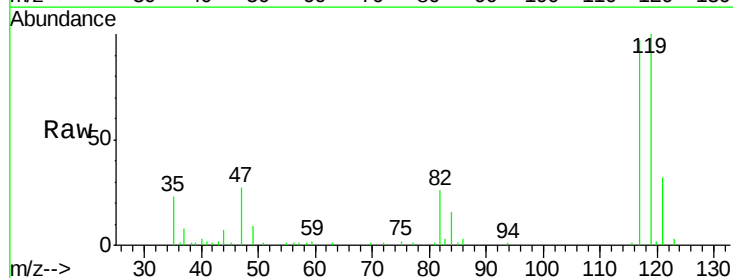
Manual Integrations
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#38
Carbon Tetrachloride
Concen: 20.704 ug/l
RT: 3.98 min Scan# 340
Delta R.T. 0.01 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	117	119	121	Ratio	Lower	Upper
68330	100	103.0	32.5			
		79.0	27.0			
			40.6			





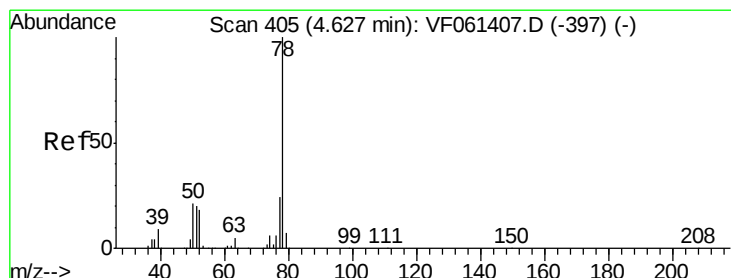
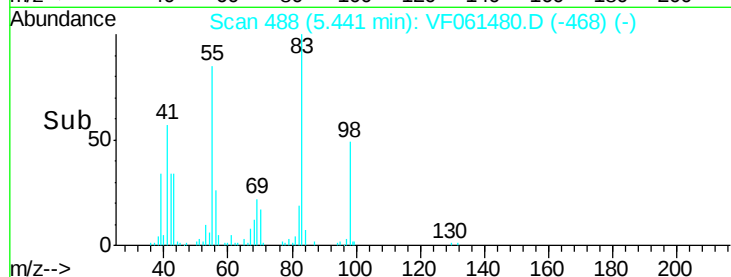
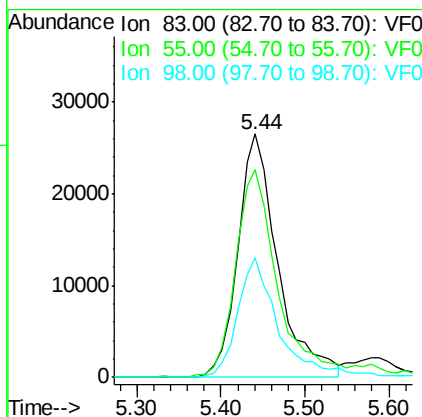
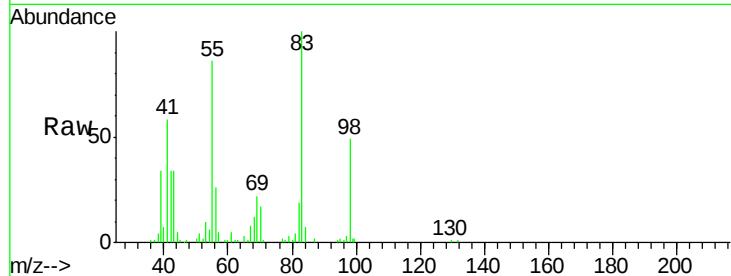
#39
Methvlcvclohexane
Concen: 21.470 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	83	Resp	87835
Ion Ratio	Lower	Upper	
83	100		
55	85.6	67.4	101.2
98	49.3	36.7	55.1

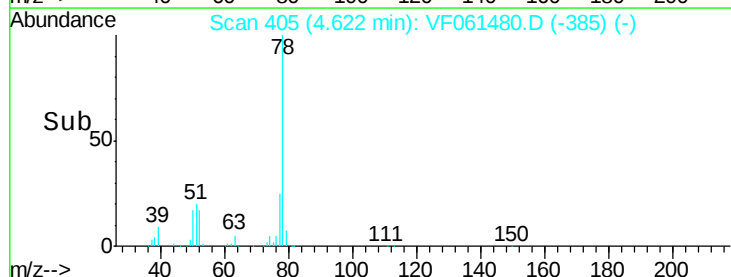
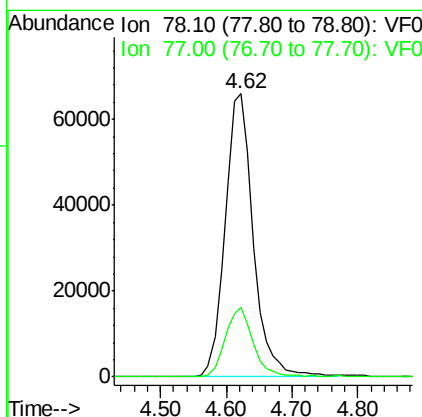
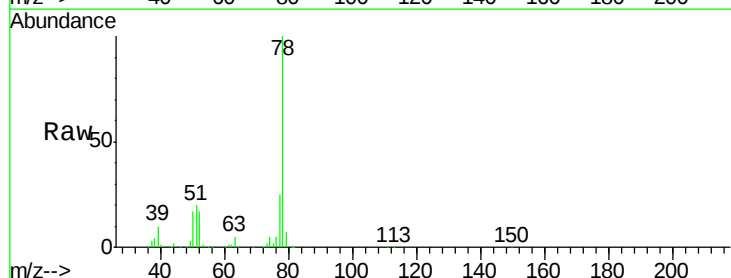
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#40
Benzene
Concen: 23.554 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	78	Resp	197855
Ion Ratio	Lower	Upper	
78	100		
77	24.7	19.0	28.6





#41

Methacrylonitrile

Concen: 22.845 ug/l

RT: 4.73 min Scan# 416

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

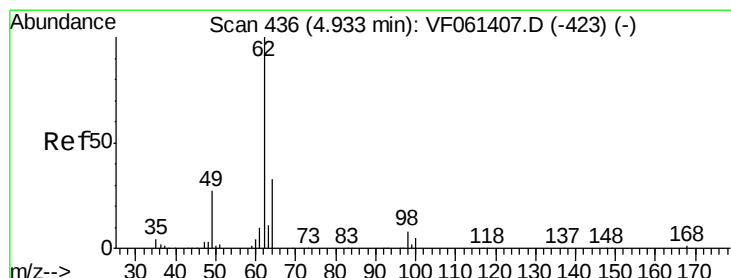
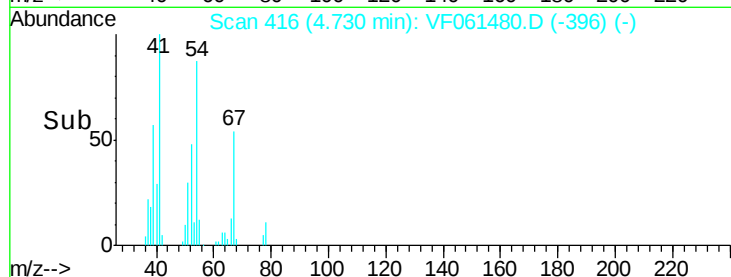
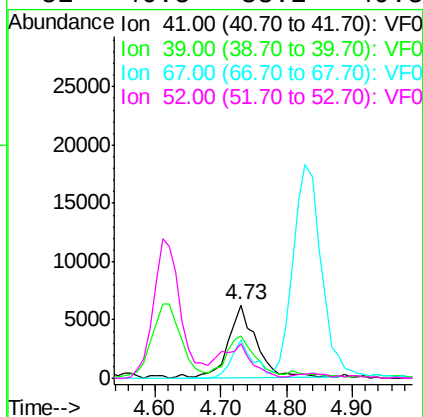
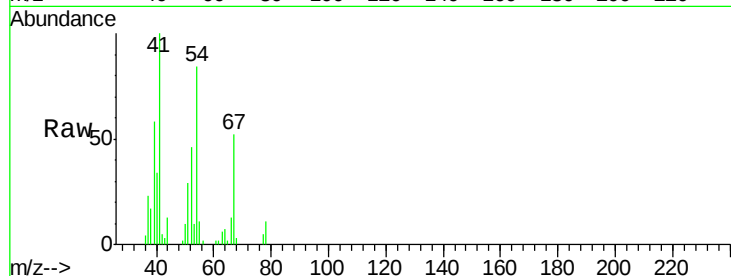
ClientSampleId :

VF0123SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.4	43.1	64.7
67	52.1	38.8	58.2
52	46.5	33.2	49.8

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 20.574 ug/l

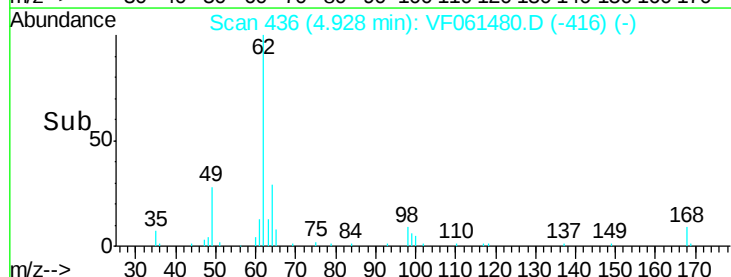
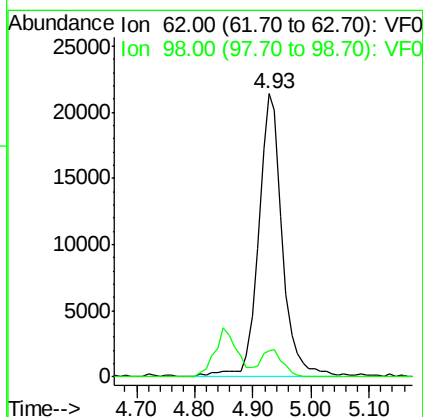
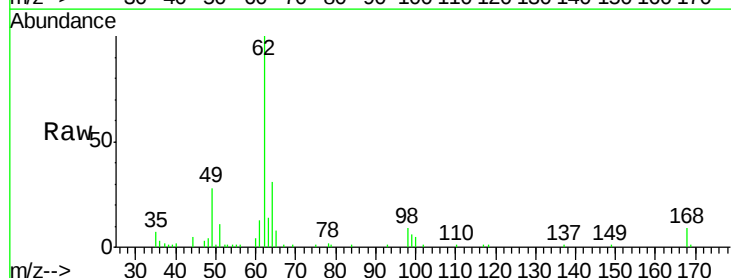
RT: 4.93 min Scan# 436

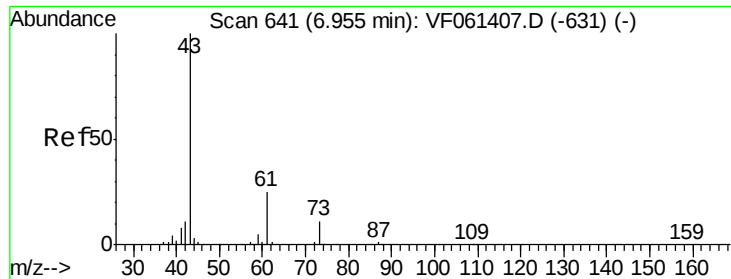
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	17.0





#43

Isopropyl Acetate

Concen: 24.795 ug/l

RT: 6.95 min Scan# 641

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

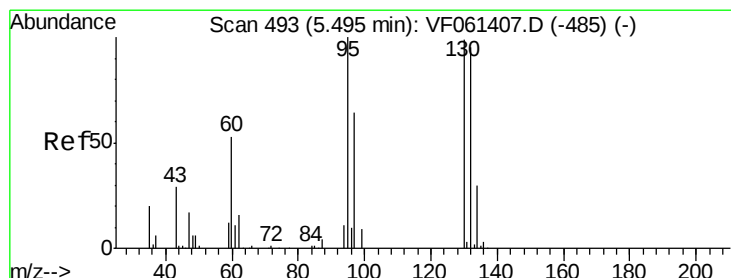
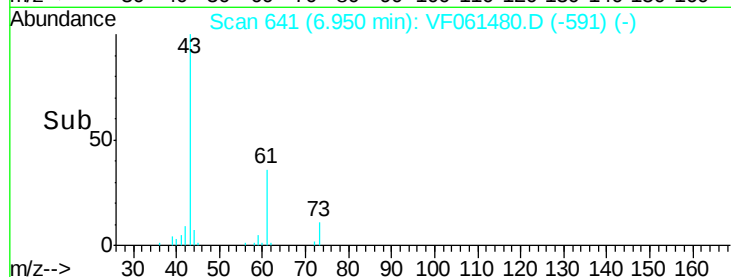
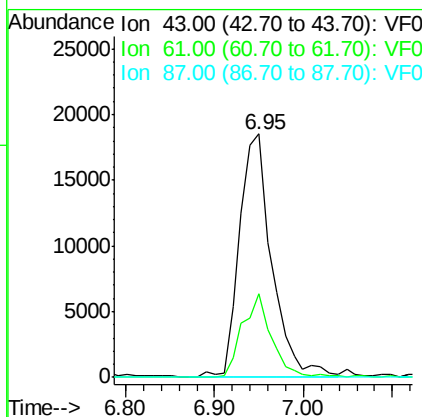
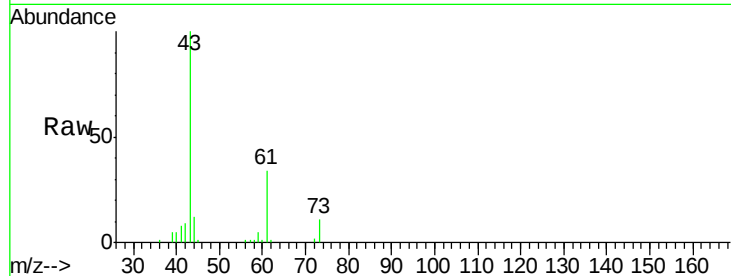
ClientSampleID :

VF0123SBS01

Tot Ion:	43	Resp:	46959
Ion	Ratio	Lower	Upper
43	100		
61	34.4	20.3	30.5#
87	0.0	0.5	0.7#

Manual Integrations
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#44

Trichloroethene

Concen: 23.335 ug/l

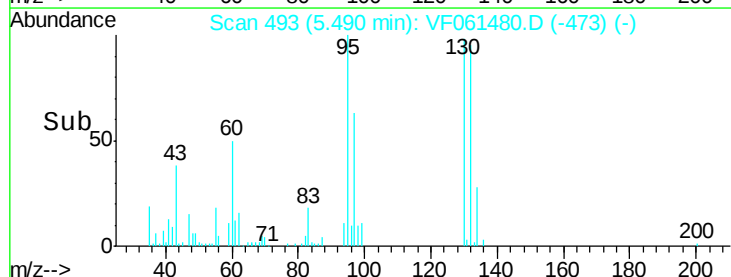
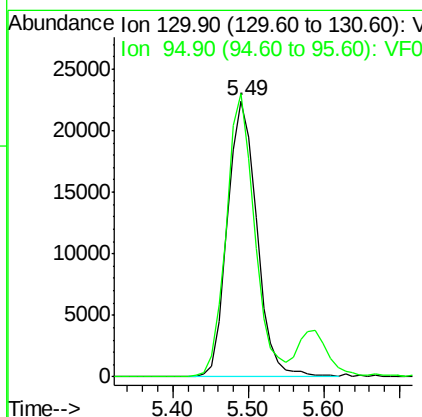
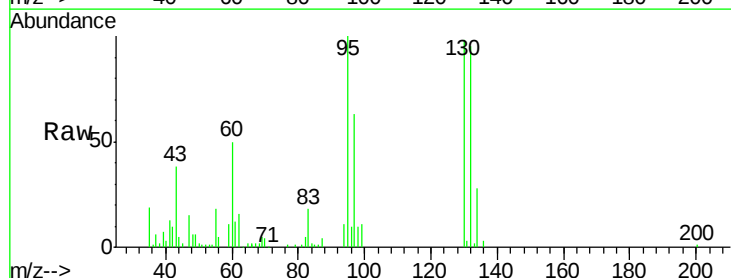
RT: 5.49 min Scan# 493

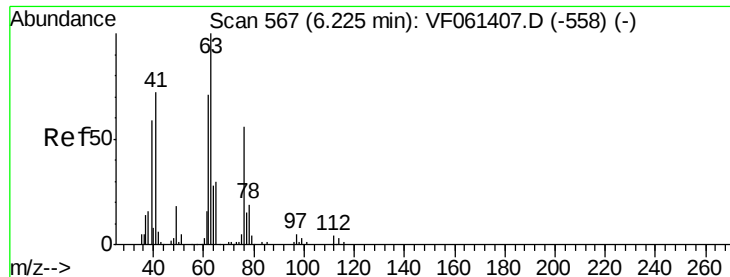
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	130	Resp:	60132
Ion	Ratio	Lower	Upper
130	100		
95	102.5	0.0	202.8





#45

1,2-Dichloropropane

Concen: 22.600 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 63 Resp: 49824

Ion Ratio Lower Upper

63 100

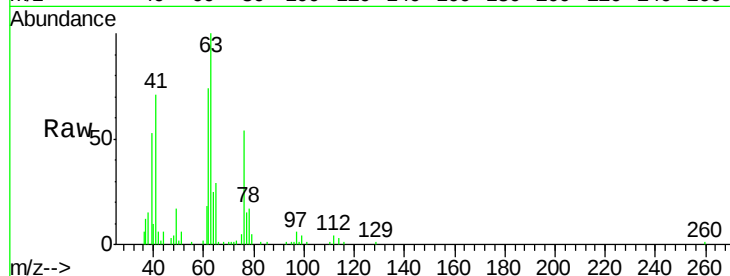
65 29.3 24.4 36.6

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

20000

15000

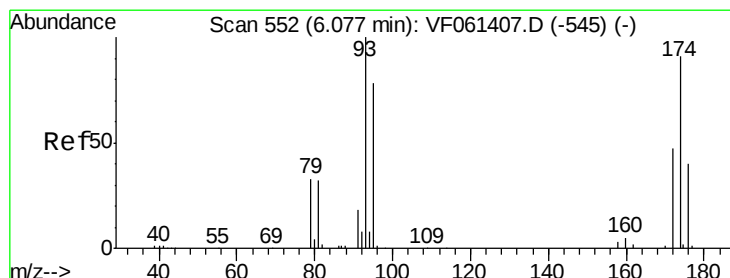
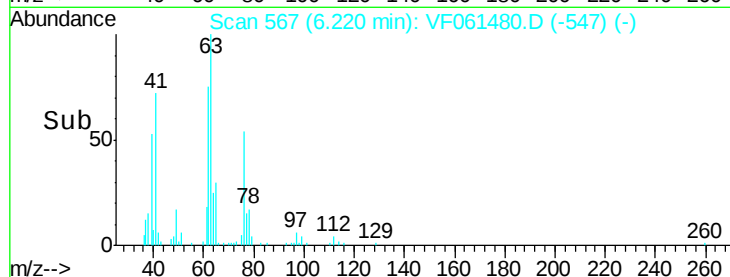
10000

5000

0

6.10 6.20 6.30 6.40

Time-->



#46

Dibromomethane

Concen: 21.463 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

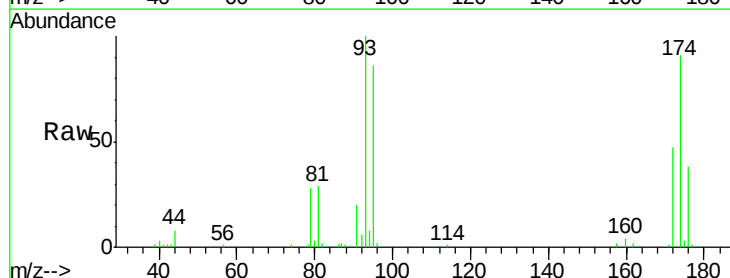
Tgt Ion: 93 Resp: 31463

Ion Ratio Lower Upper

93 100

95 85.6 62.1 93.1

174 91.1 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

15000

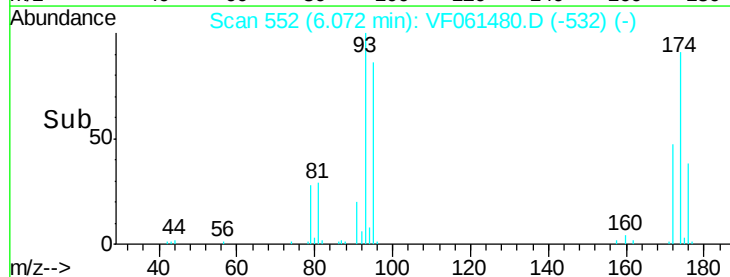
10000

5000

0

6.00 6.10 6.20

Time-->





#47

Bromodichloromethane

Concen: 21.733 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

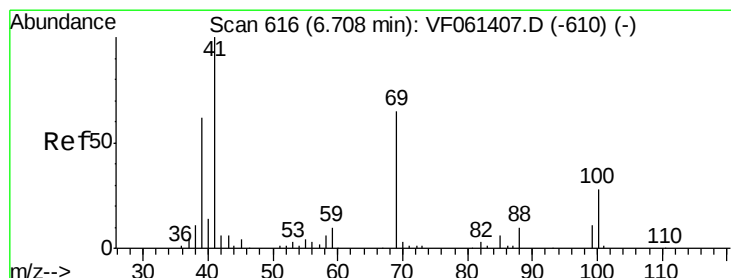
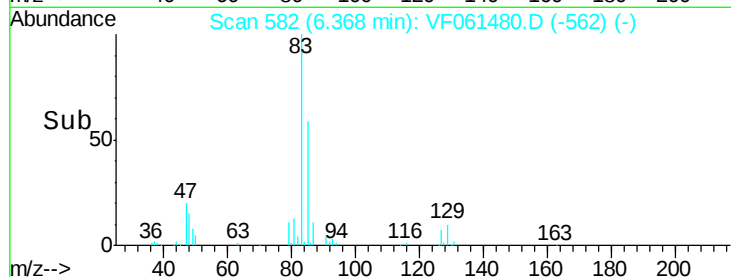
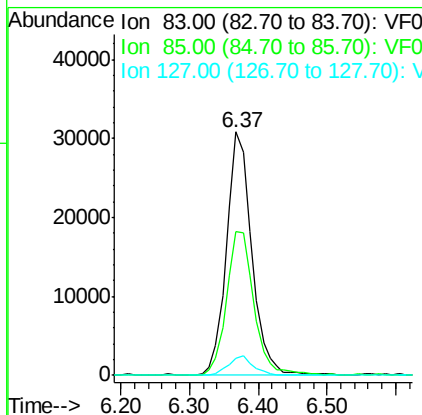
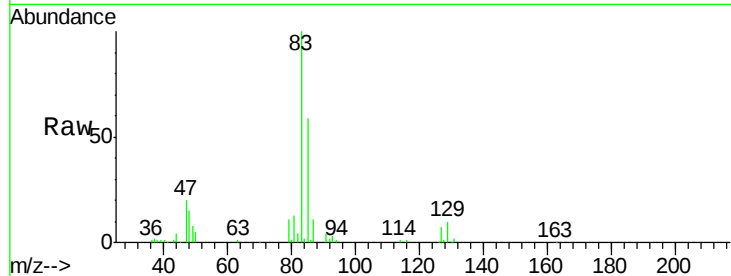
ClientSampleId :

VF0123SBS01

Tot Ion:	83	Resp:	78826
Ion	Ratio	Lower	Upper
83	100		
85	59.1	53.0	79.4
127	7.3	6.9	10.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.861 ug/l

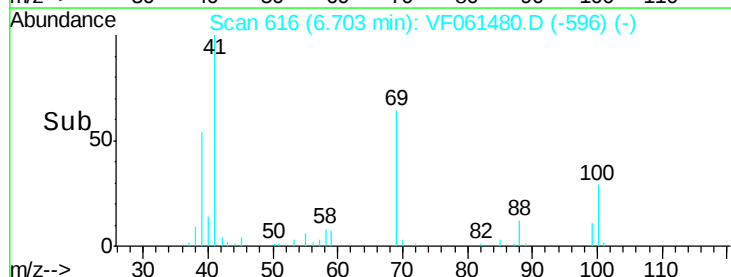
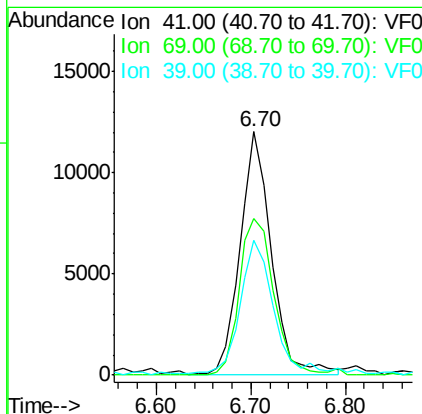
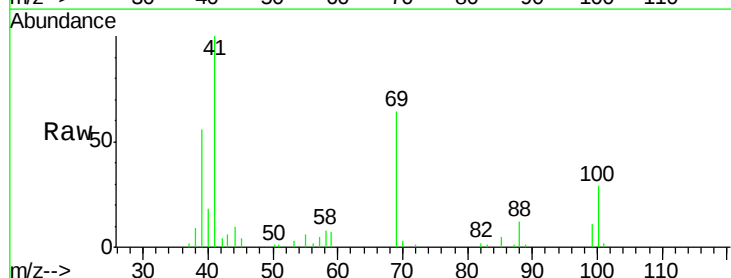
RT: 6.70 min Scan# 616

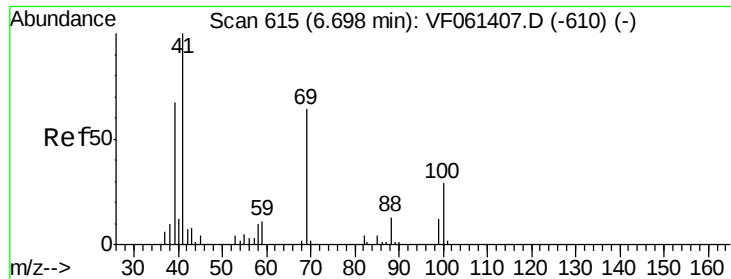
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	41	Resp:	27802
Ion	Ratio	Lower	Upper
41	100		
69	64.3	51.7	77.5
39	55.6	49.2	73.8





#49

1,4-Dioxane

Concen: 395.680 ug/l

RT: 6.68 min Scan# 614

Delta R.T. -0.01 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

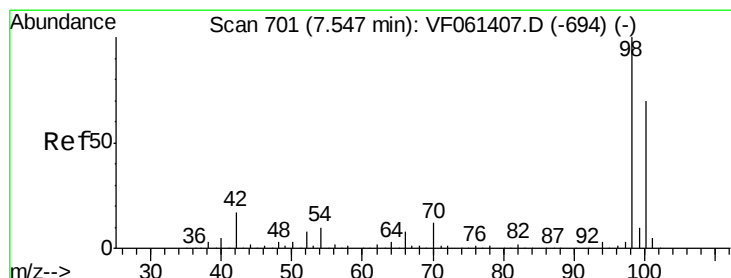
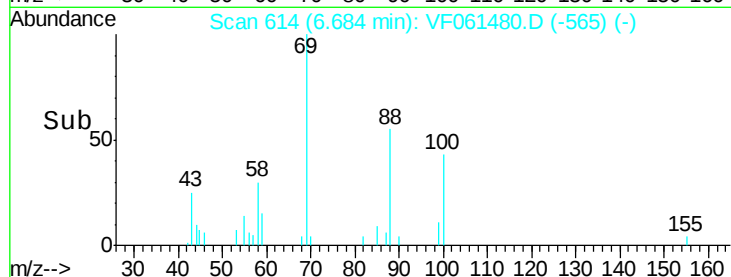
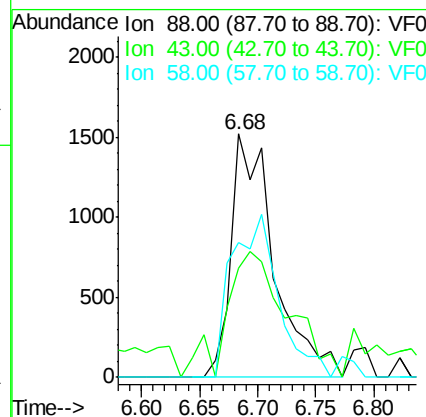
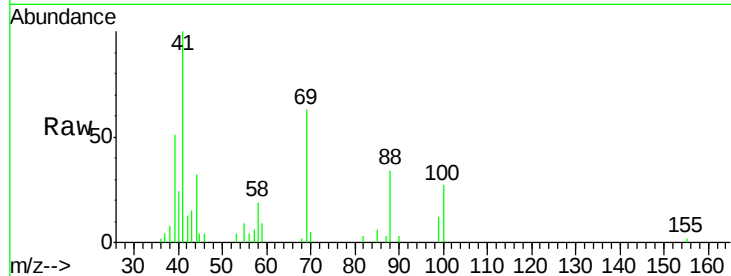
ClientSampleId :

VF0123SBS01

Tot Ion:	88	Resp:	3885
Ion Ratio	Lower	Upper	
88	100		
43	45.0	55.5	83.3#
58	55.2	59.9	89.9#

Manual Integrations
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#50

Toluene-d8

Concen: 52.901 ug/l

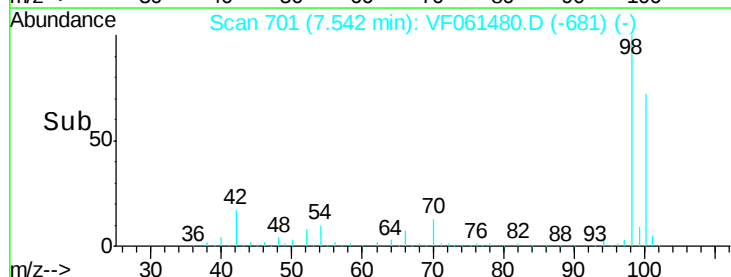
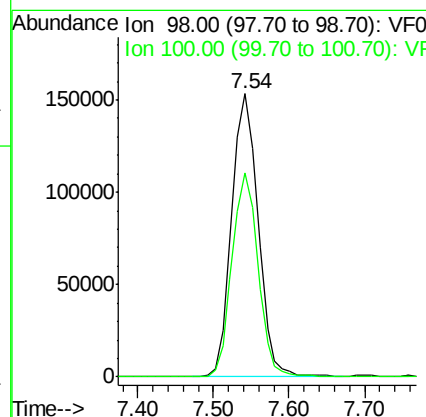
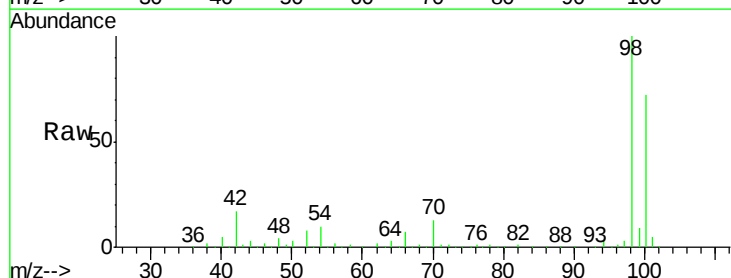
RT: 7.54 min Scan# 701

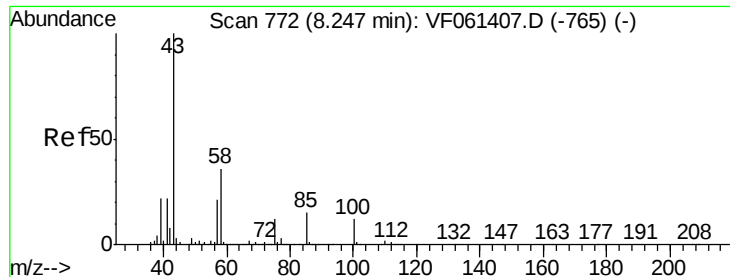
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	98	Resp:	372376
Ion Ratio	Lower	Upper	
98	100		
100	72.0	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 115.995 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 43 Resp: 161502

Ion Ratio Lower Upper

43 100

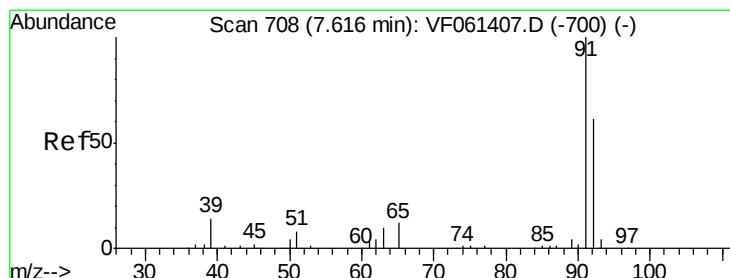
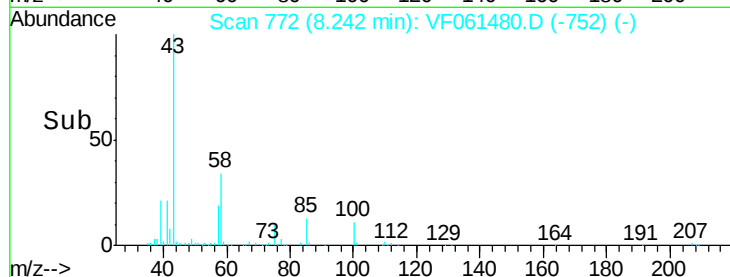
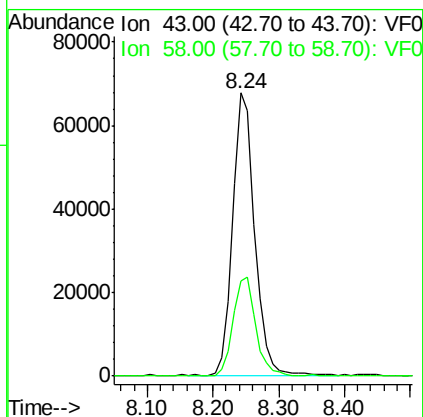
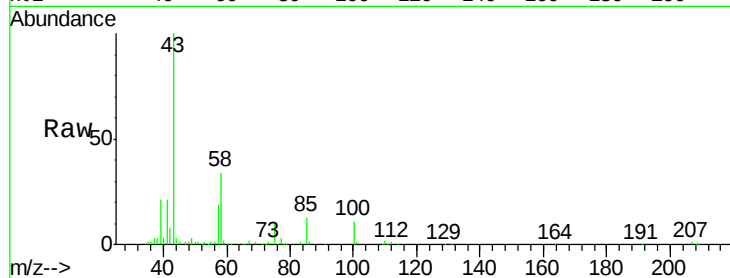
58 33.6 28.8 43.2

Manual Integrations

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#52

Toluene

Concen: 22.943 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061480.D

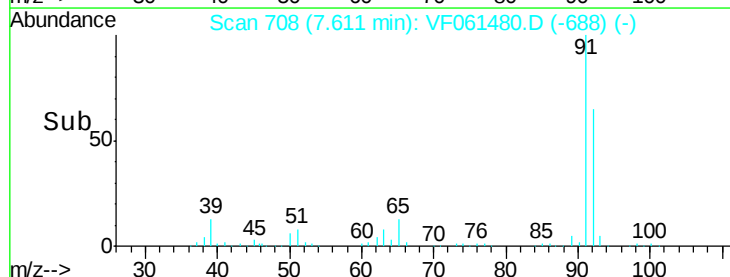
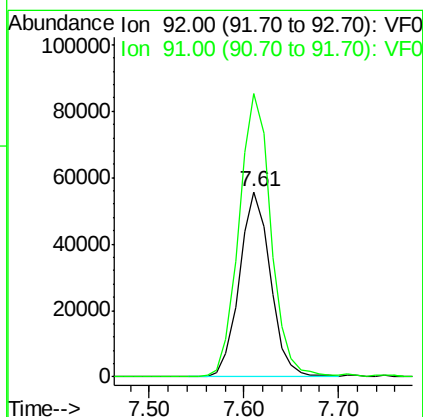
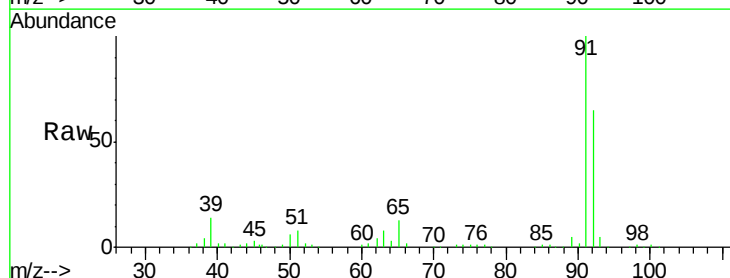
Acq: 23 Jan 2019 12:53

Tgt Ion: 92 Resp: 126915

Ion Ratio Lower Upper

92 100

91 152.8 131.2 196.8





#53

t-1,3-Dichloropropene

Concen: 22.734 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 75 Resp: 65475

Ion Ratio Lower Upper

75 100

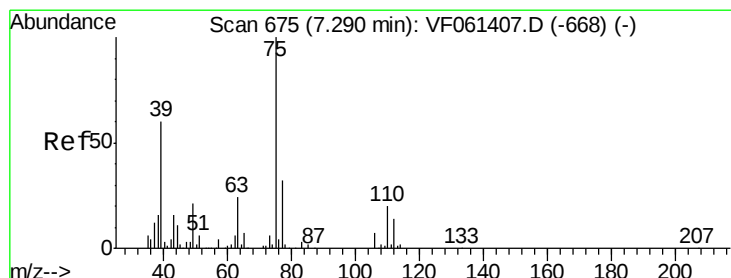
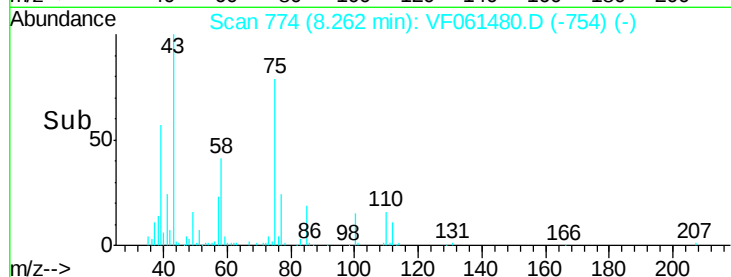
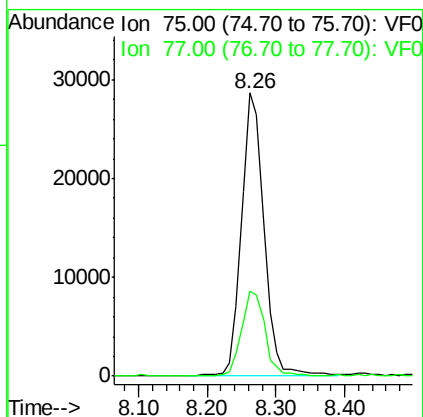
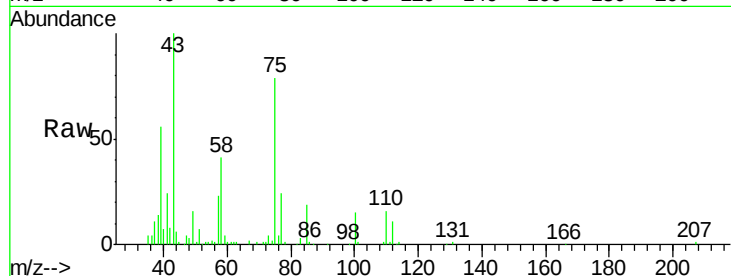
77 30.1 24.4 36.6

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 23.786 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

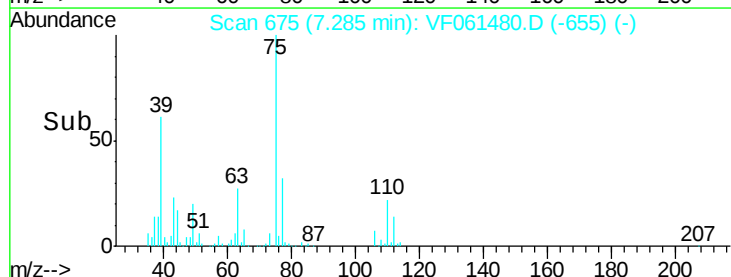
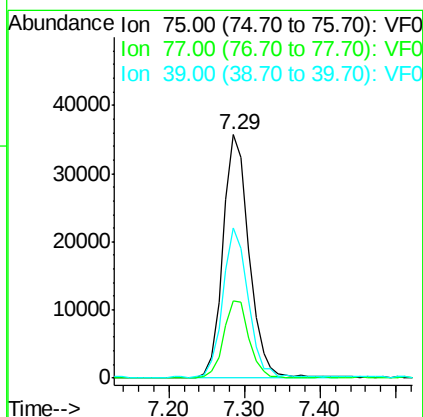
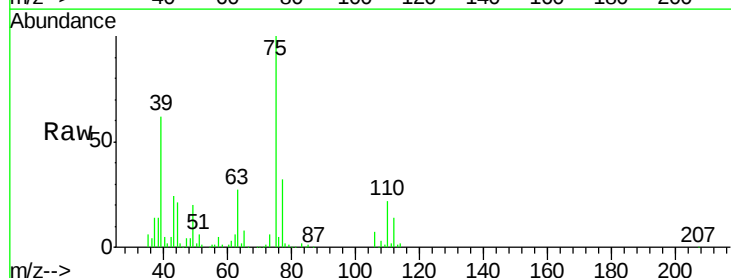
Tgt Ion: 75 Resp: 85629

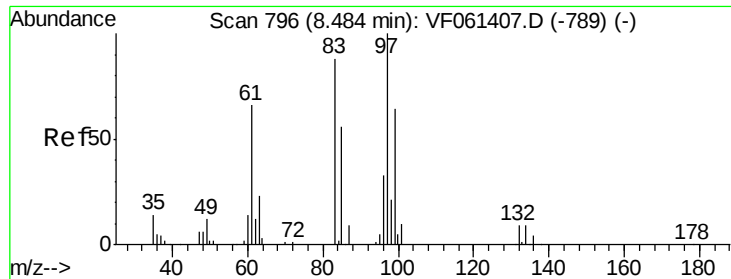
Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.0

39 61.6 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 22.574 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

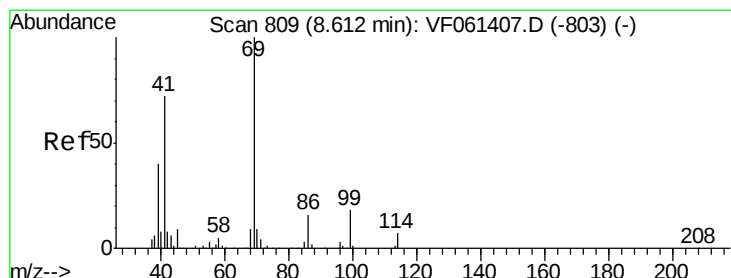
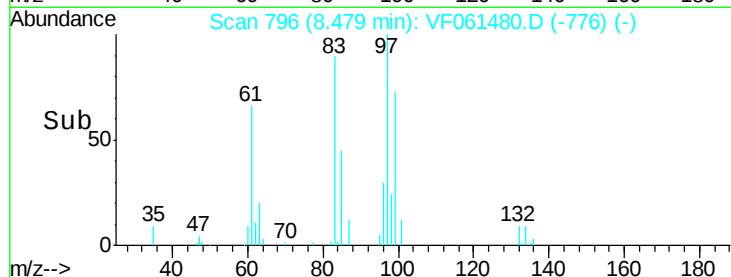
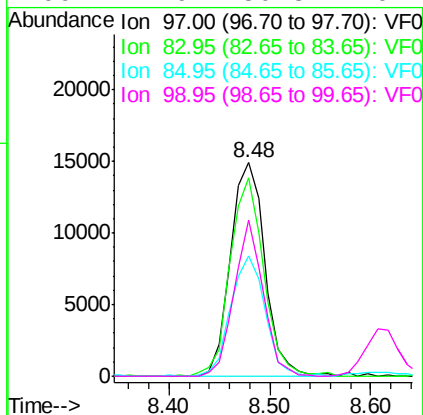
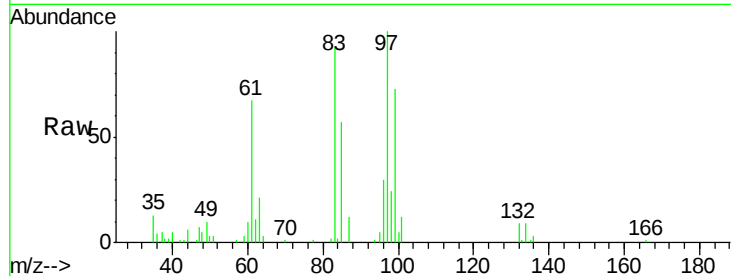
ClientSampleId :

VF0123SBS01

Tot Ion:	97	Resp:	35461
Ion	Ratio	Lower	Upper
97	100		
83	93.0	70.4	105.6
85	56.6	44.7	67.1
99	72.9	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 21.765 ug/l

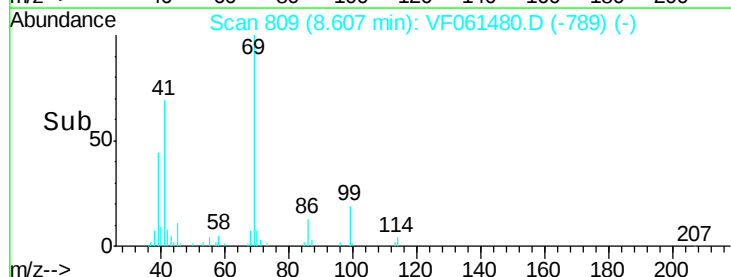
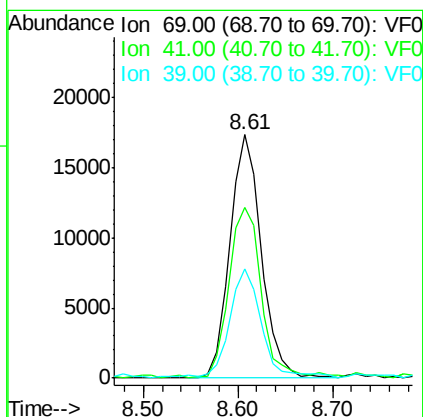
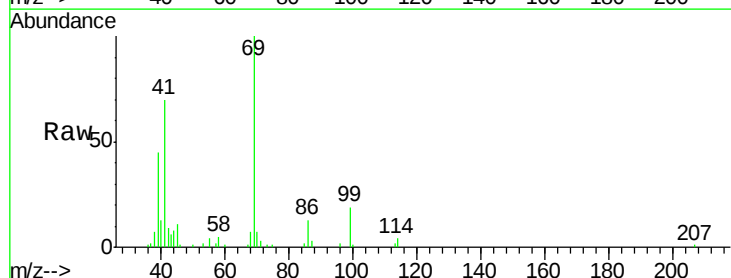
RT: 8.61 min Scan# 809

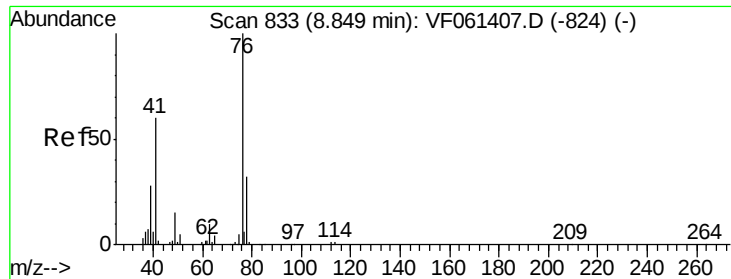
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	69	Resp:	39777
Ion	Ratio	Lower	Upper
69	100		
41	70.0	57.5	86.3
39	44.7	32.0	48.0





#57

1,3-Dichloropropane

Concen: 21.656 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 76 Resp: 63764

Ion Ratio Lower Upper

76 100

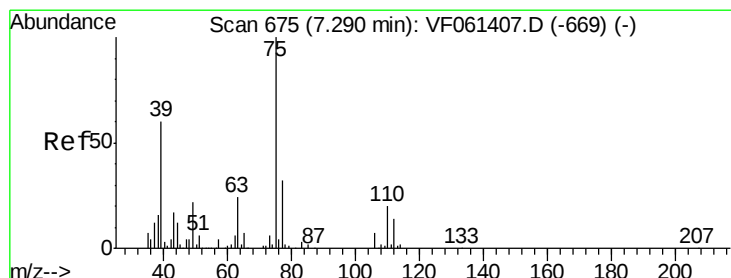
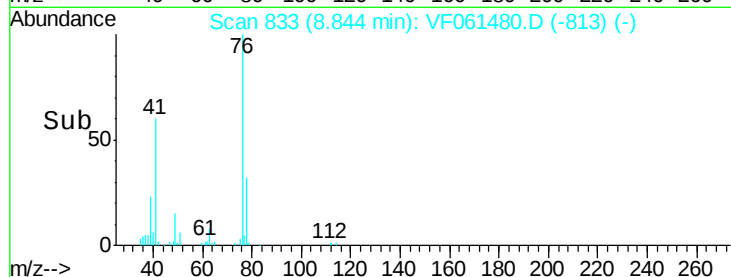
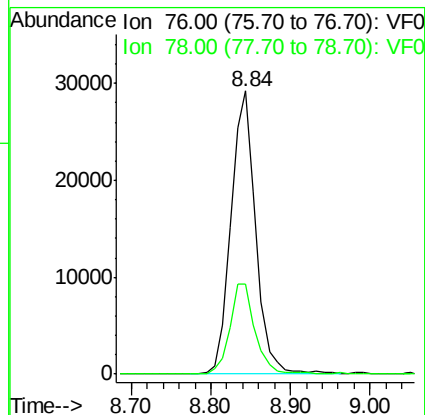
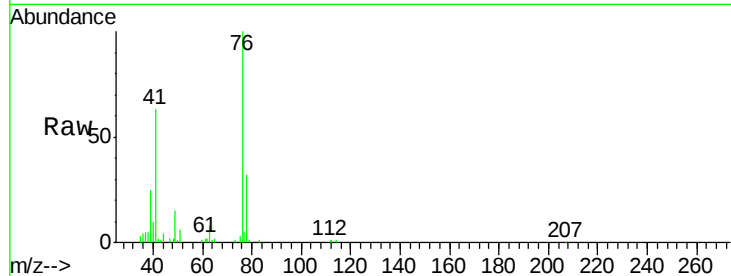
78 31.8 25.3 37.9

Manual Integrations

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1/24/2019 12:56:44 PM



#58

2-Chloroethyl Vinyl ether

Concen: 137.395 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061480.D

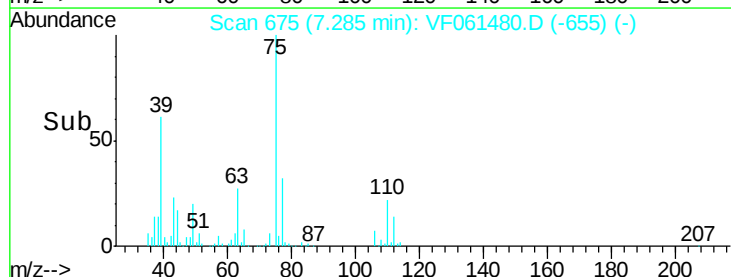
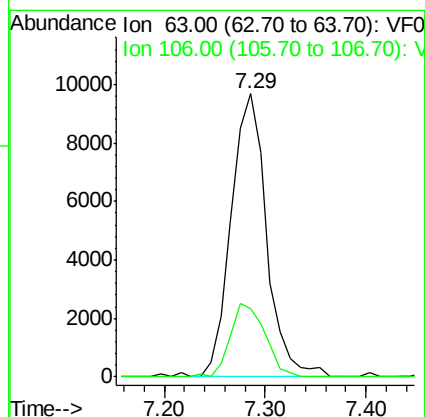
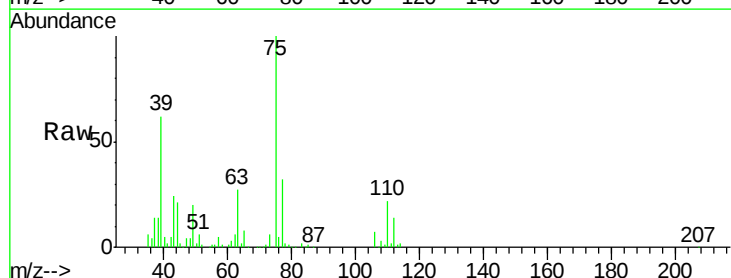
Acq: 23 Jan 2019 12:53

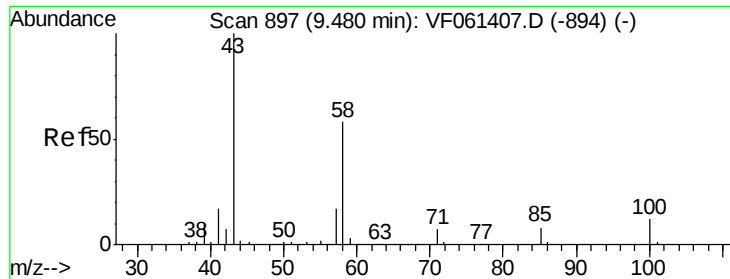
Tgt Ion: 63 Resp: 23662

Ion Ratio Lower Upper

63 100

106 24.0 21.9 32.9





#59

2-Hexanone

Concen: 128.428 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 43 Resp: 124690

Ion Ratio Lower Upper

43 100

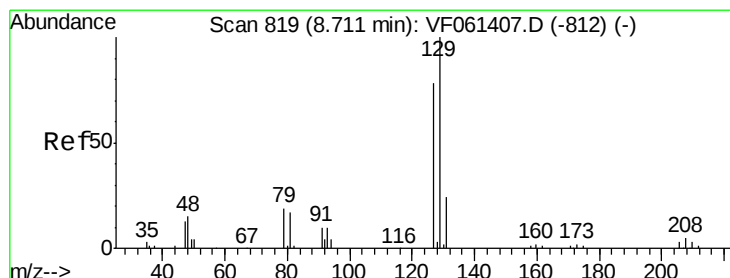
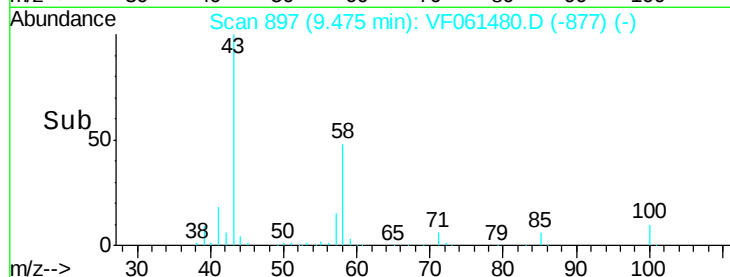
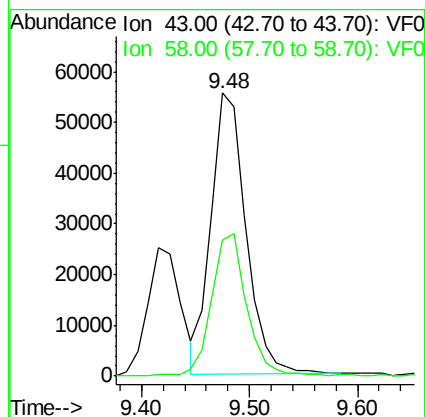
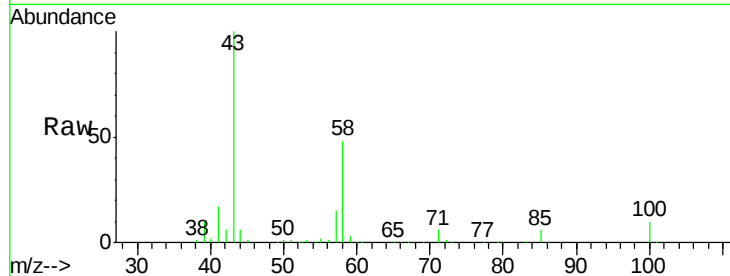
58 48.0 25.9 77.6

Manual Integrations

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1/24/2019 12:56:44 PM



#60

Dibromochloromethane

Concen: 21.782 ug/l

RT: 8.71 min Scan# 819

Delta R.T. -0.00 min

Lab File: VF061480.D

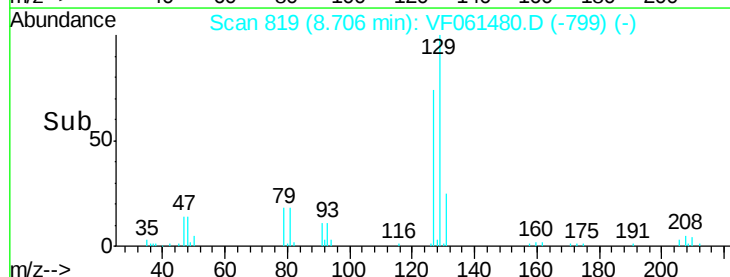
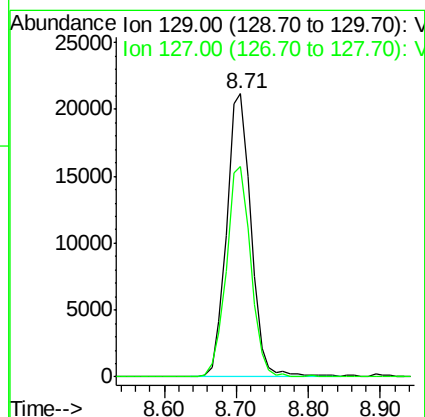
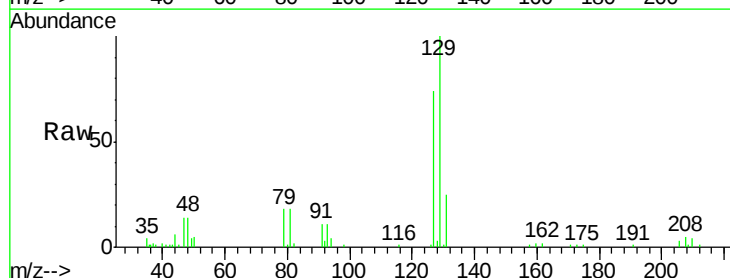
Acq: 23 Jan 2019 12:53

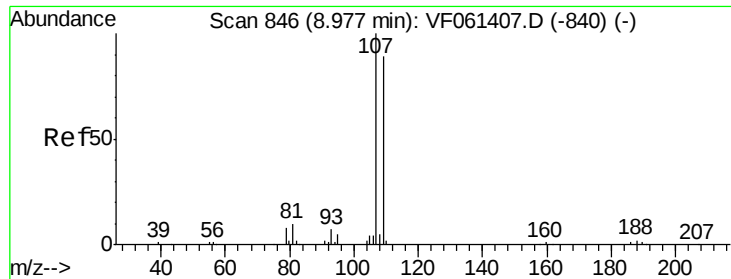
Tgt Ion: 129 Resp: 50024

Ion Ratio Lower Upper

129 100

127 74.4 39.1 117.2





#61

1,2-Dibromoethane

Concen: 20.205 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion:107 Resp: 36335

Ion Ratio Lower Upper

107 100

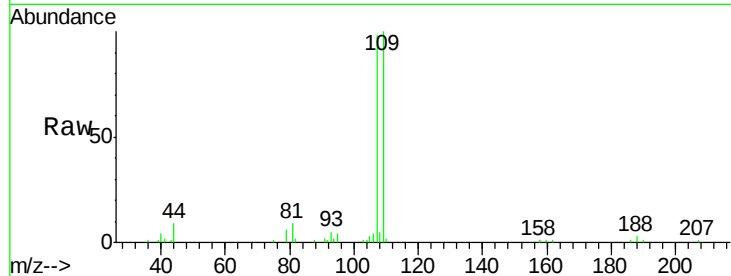
109 101.6 70.8 106.2

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

20000

15000

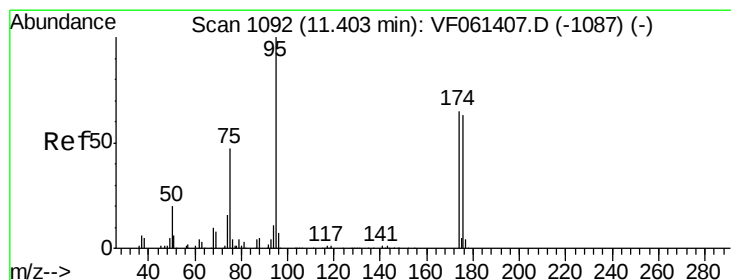
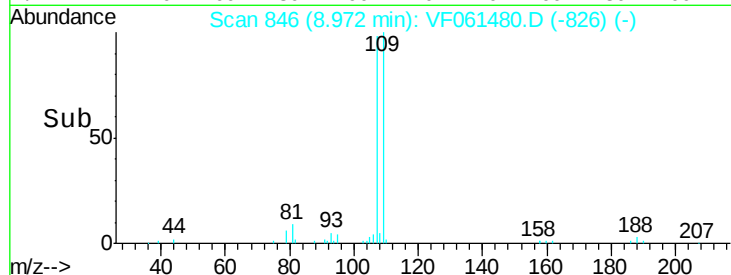
10000

5000

0

8.90 9.00 9.10

Time-->



#62

4-Bromofluorobenzene

Concen: 50.286 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

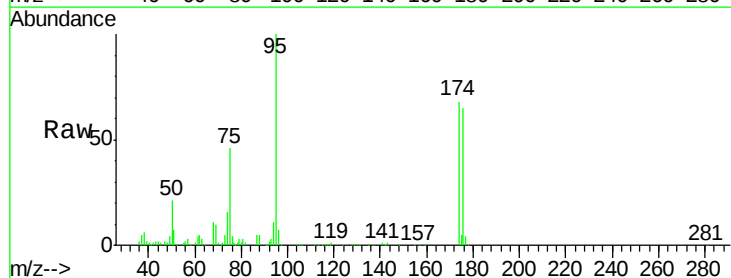
Tgt Ion: 95 Resp: 165384

Ion Ratio Lower Upper

95 100

174 67.8 0.0 130.4

176 65.2 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

120000

100000

80000

60000

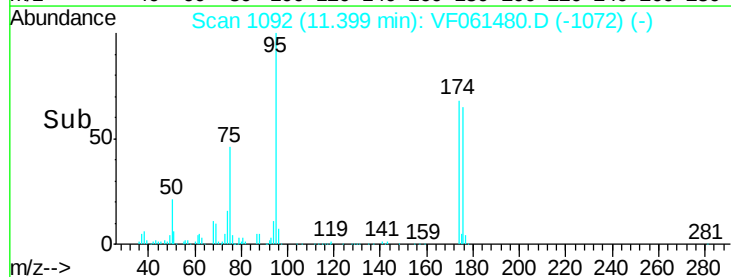
40000

20000

0

11.30 11.40 11.50

Time-->





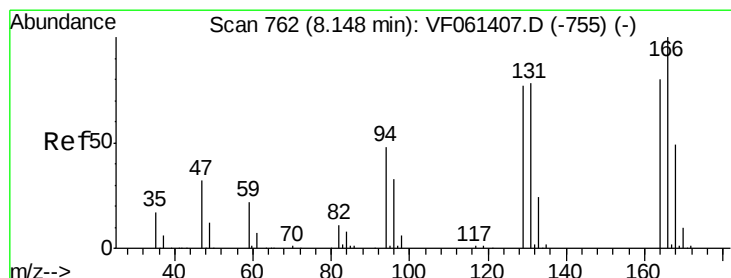
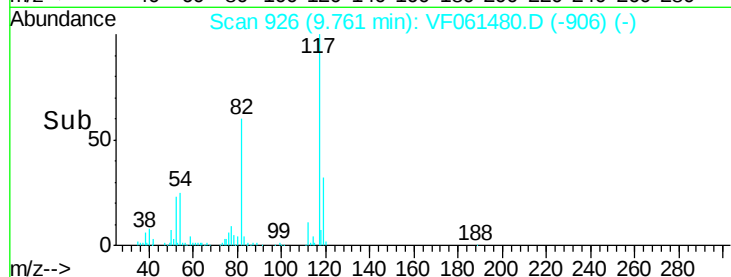
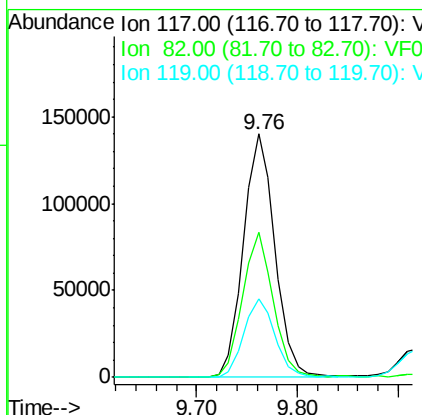
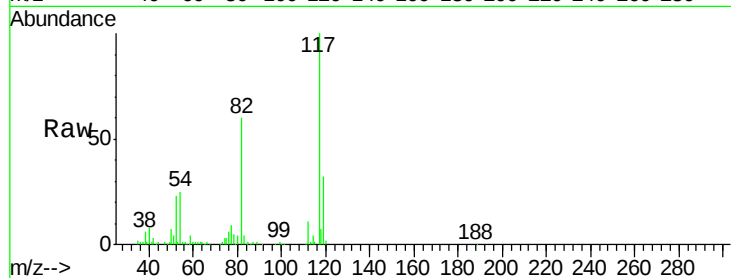
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion:117	Resp:	305907
Ion Ratio	Lower	Upper
117 100		
82 59.5	46.4	69.6
119 32.1	27.2	40.8

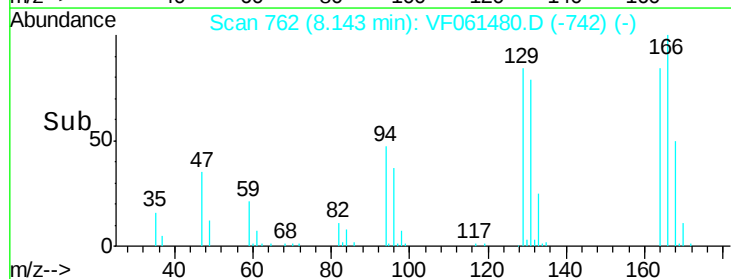
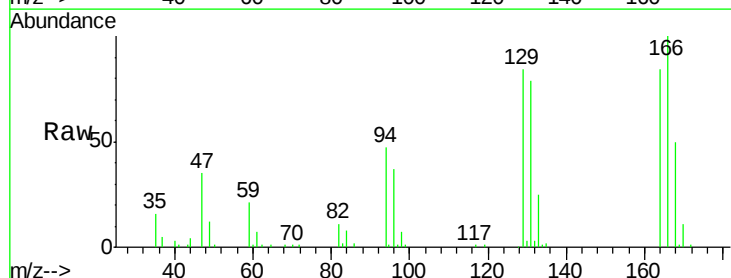
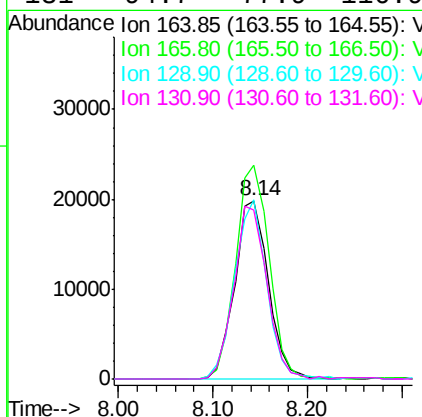
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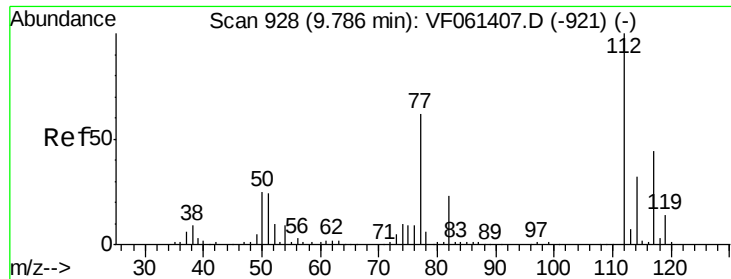
MMDadoda
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#64
Tetrachloroethene
Concen: 21.411 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion:164	Resp:	49256
Ion Ratio	Lower	Upper
164 100		
166 119.7	99.6	149.4
129 100.4	76.4	114.6
131 94.7	77.9	116.9





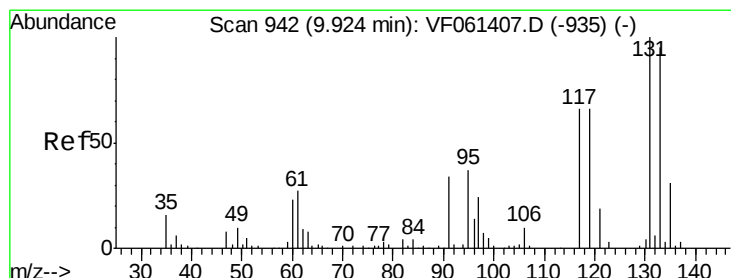
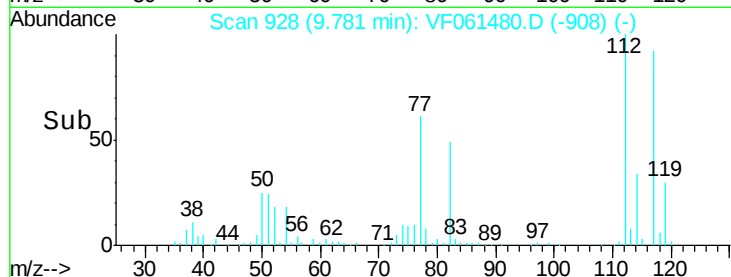
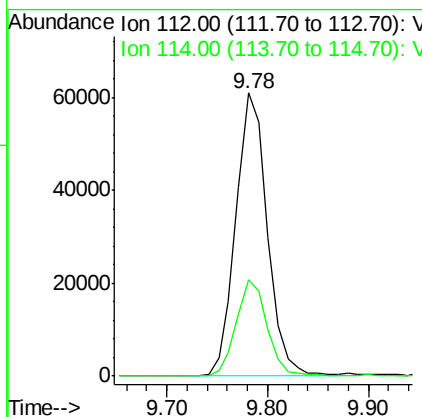
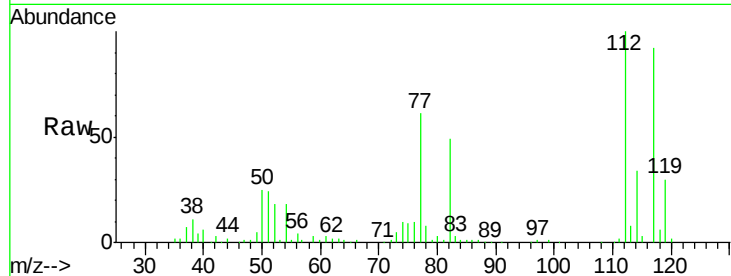
#65
Chlorobenzene
Concen: 21.402 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion:112 Resp: 133137
Ion Ratio Lower Upper
112 100
114 34.1 25.4 38.0

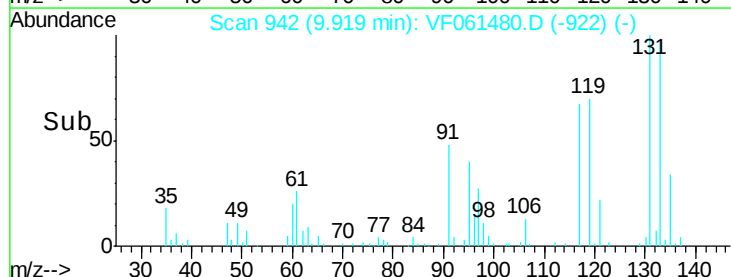
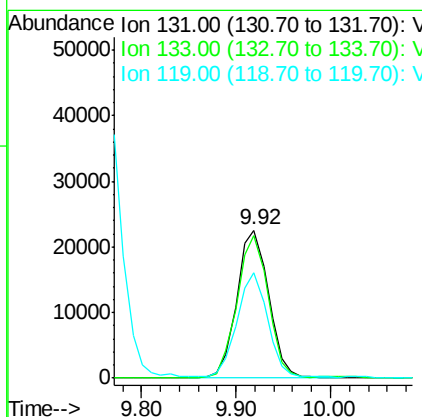
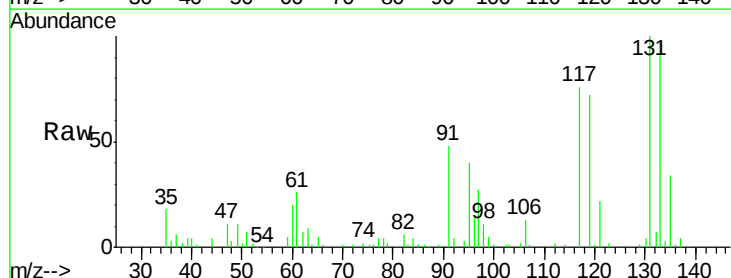
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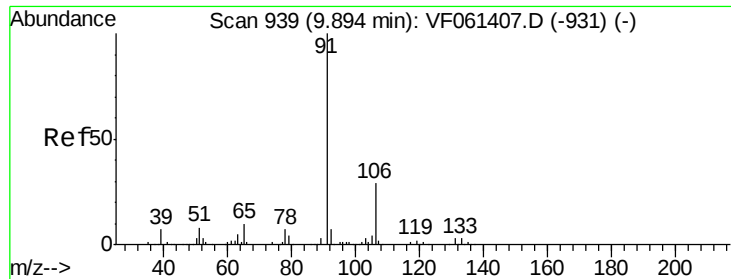
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.264 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion:131 Resp: 52695
Ion Ratio Lower Upper
131 100
133 96.6 47.4 142.2
119 71.5 33.1 99.3





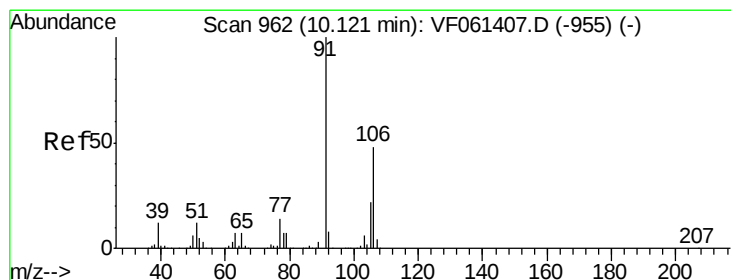
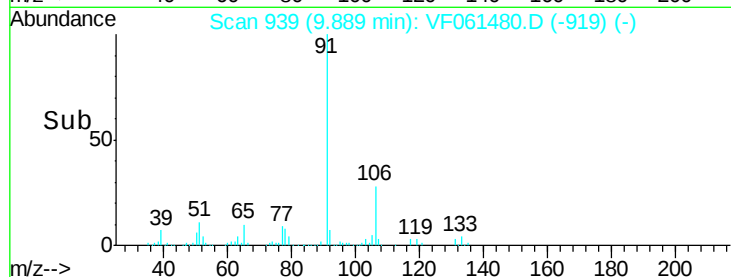
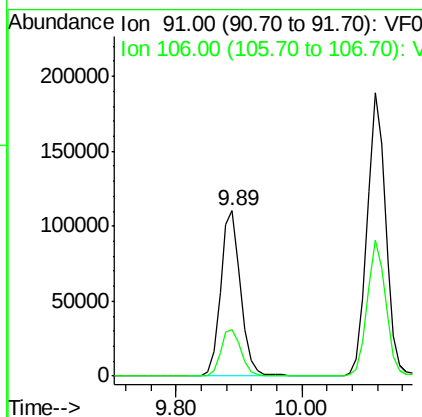
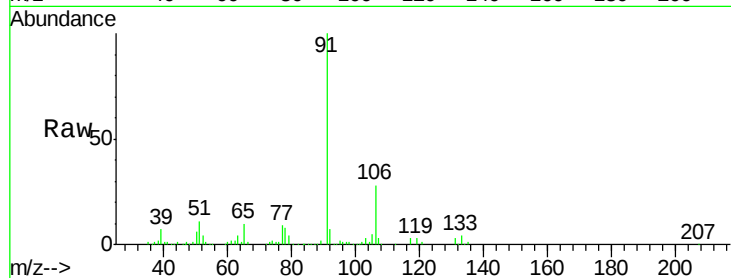
#67
Ethyl Benzene
Concen: 21.512 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion: 91 Resp: 244496
Ion Ratio Lower Upper
91 100
106 28.2 23.1 34.7

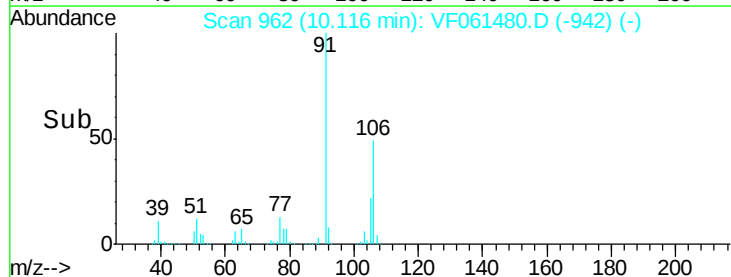
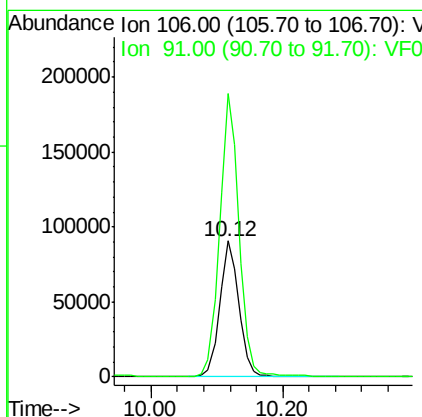
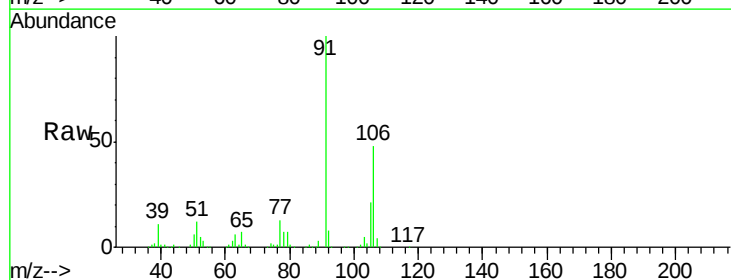
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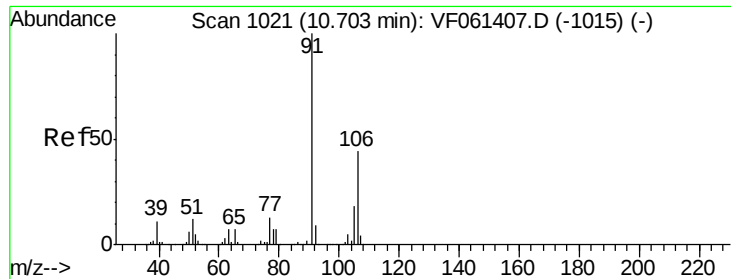
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#68
m/p-Xylenes
Concen: 45.095 ug/l
RT: 10.12 min Scan# 962
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion: 106 Resp: 184343
Ion Ratio Lower Upper
106 100
91 208.2 166.2 249.4





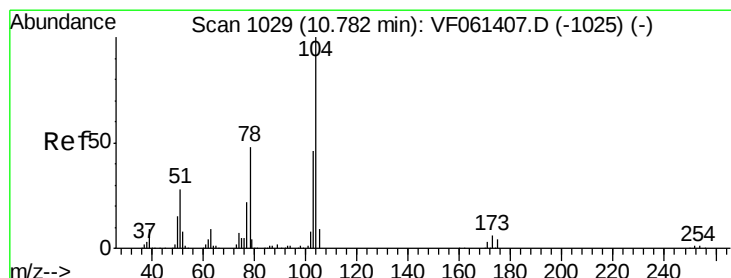
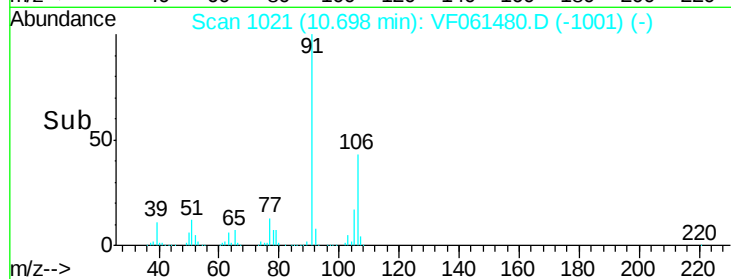
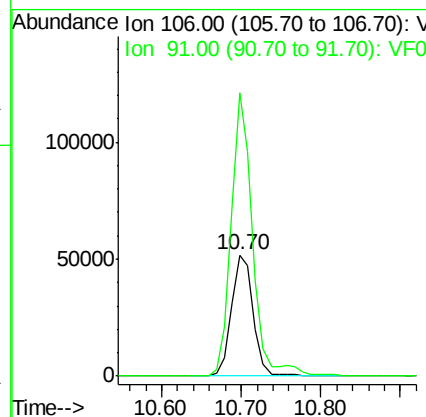
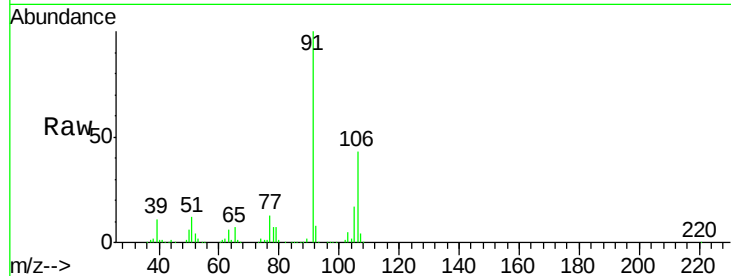
#69
o-Xylene
Concen: 22.624 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	233.3	113.3	339.8		

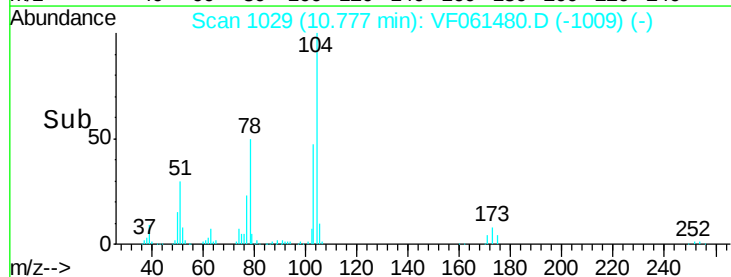
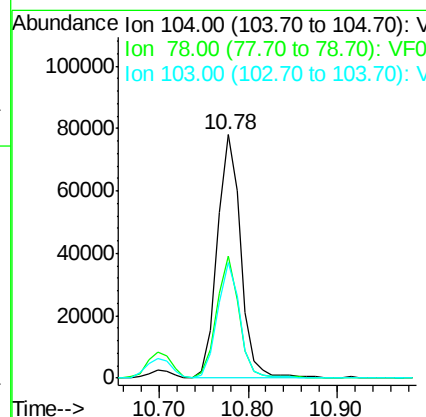
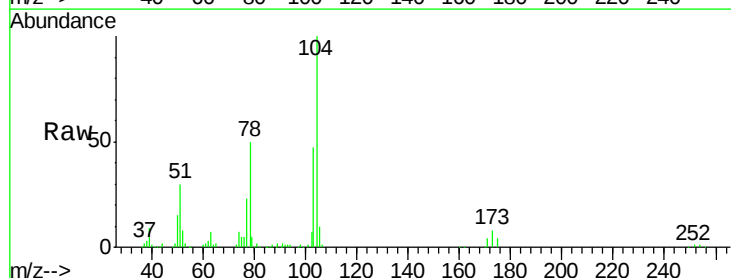
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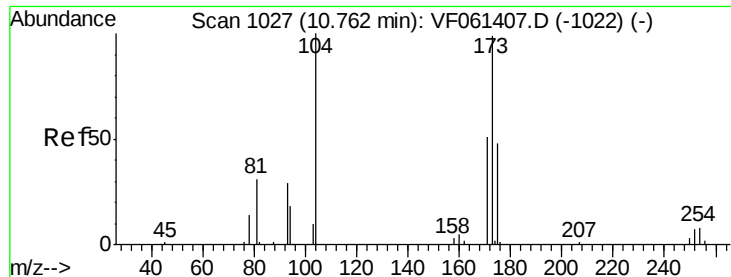
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#70
Styrene
Concen: 23.531 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	49.9	38.8	58.2		
103	47.4	37.0	55.6		





#71

Bromoform

Concen: 22.253 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion:173 Resp: 24778

Ion Ratio Lower Upper

173 100

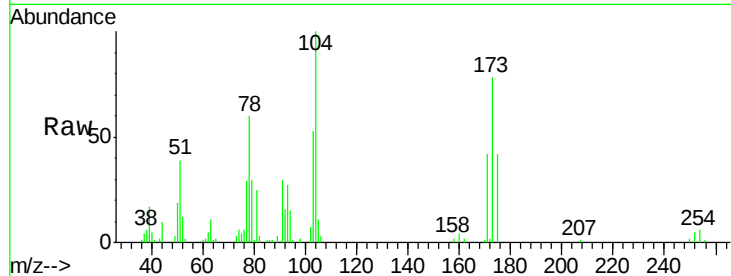
175 53.5 24.1 72.4

254 8.1 0.0 0.0#

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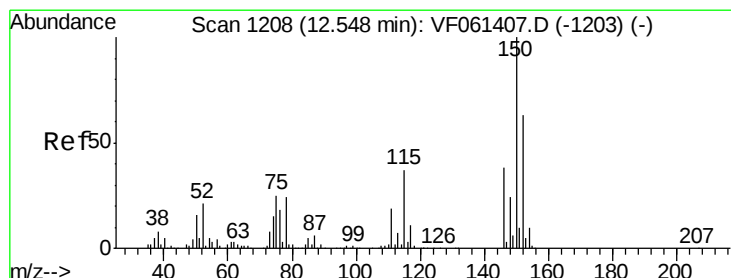
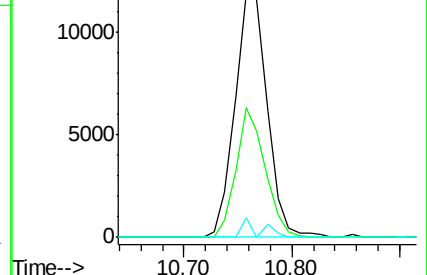
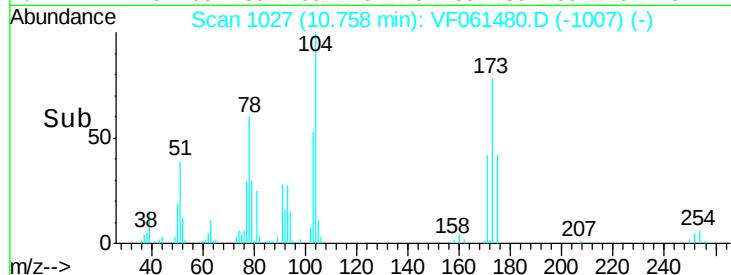
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Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

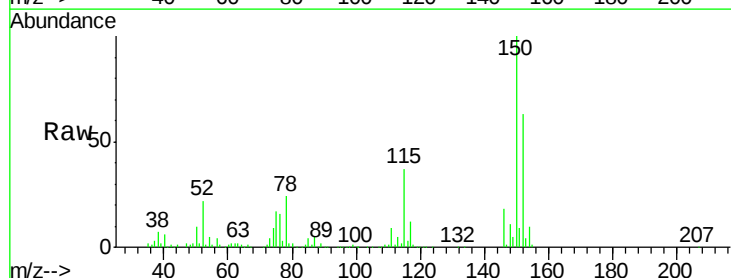
Tgt Ion:152 Resp: 153077

Ion Ratio Lower Upper

152 100

115 59.1 30.0 90.0

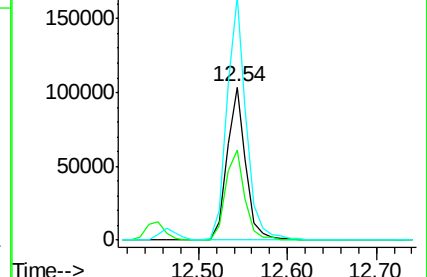
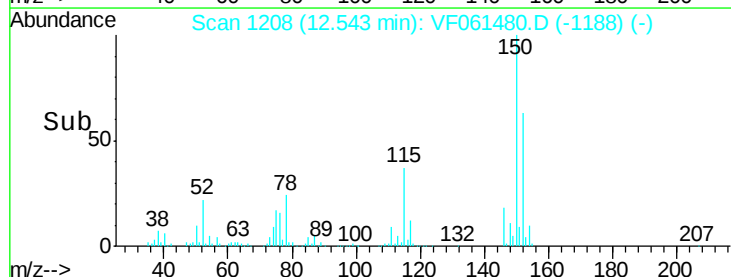
150 159.1 0.0 321.4

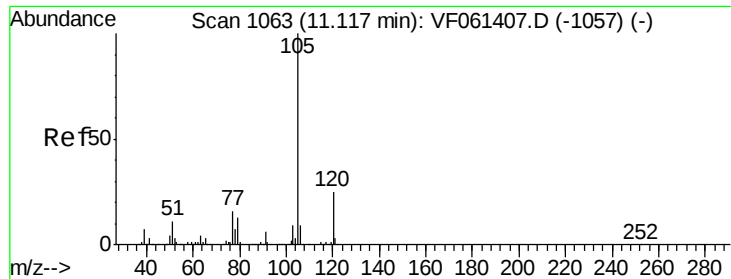


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 23.421 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 105 Resp: 291587

Ion Ratio Lower Upper

105 100

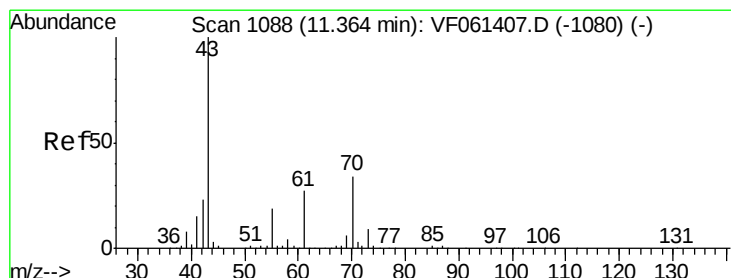
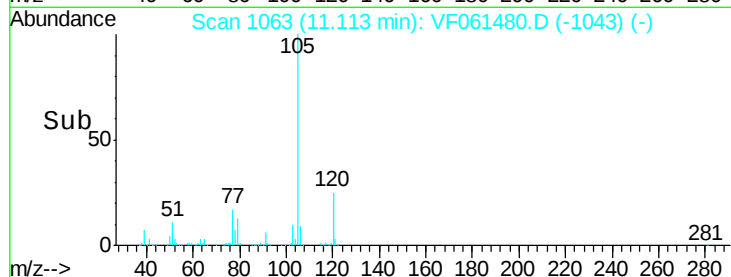
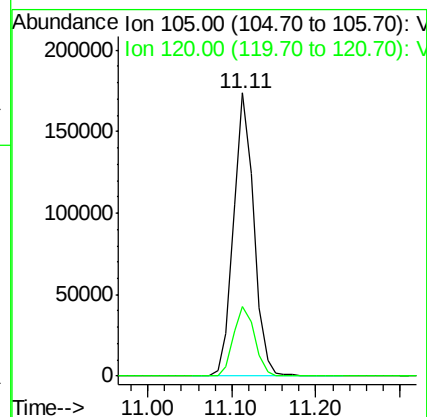
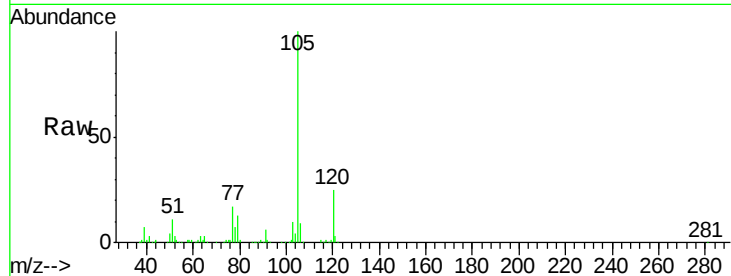
120 24.6 12.6 37.8

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#74

N-ethyl acetate

Concen: 24.288 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion: 43 Resp: 71503

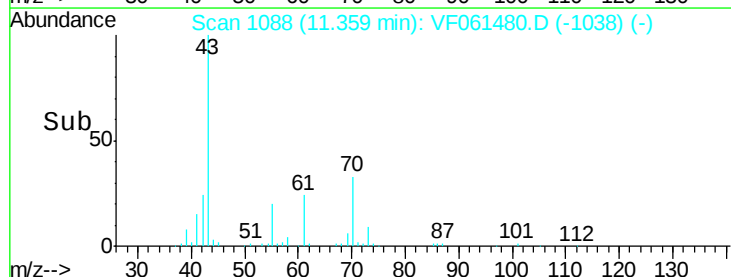
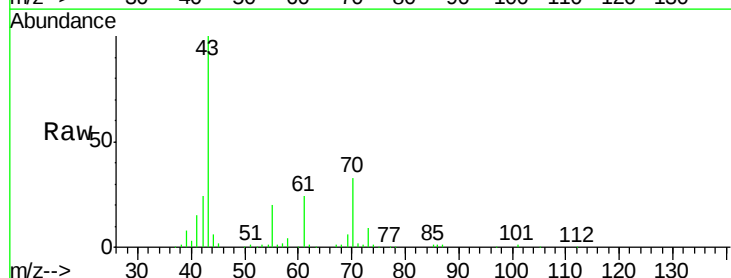
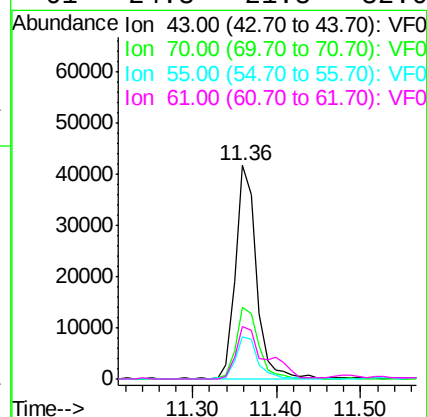
Ion Ratio Lower Upper

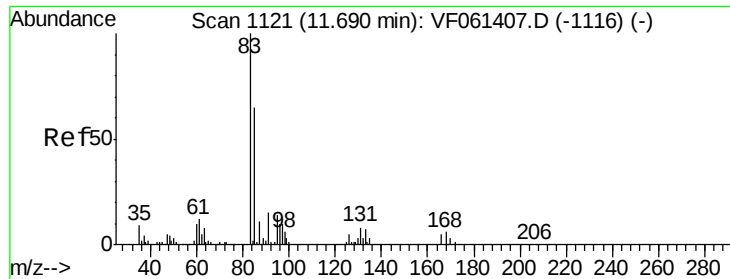
43 100

70 33.4 27.6 41.4

55 20.0 15.4 23.2

61 24.3 21.8 32.6





#75

1,1,2,2-Tetrachloroethane

Concen: 22.537 ug/l

RT: 11.68 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

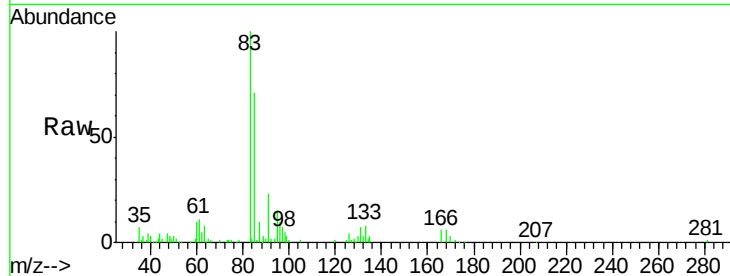
ClientSampleId :

VF0123SBS01

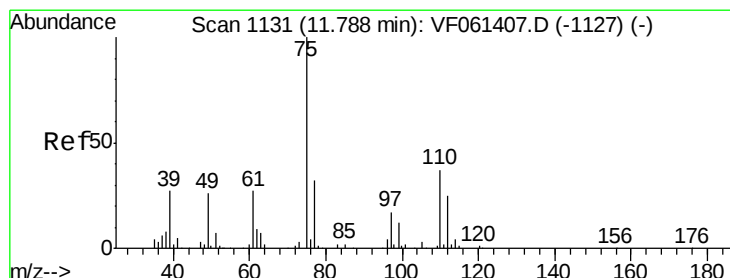
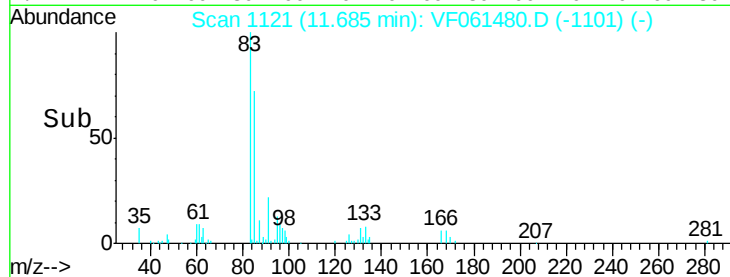
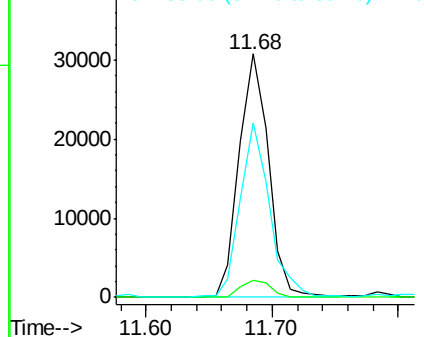
Tot Ion:	83	Resp:	49986
Ion Ratio	Lower	Upper	
83	100		
131	6.9	4.0	12.2
85	71.5	32.7	98.1

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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 22.182 ug/l

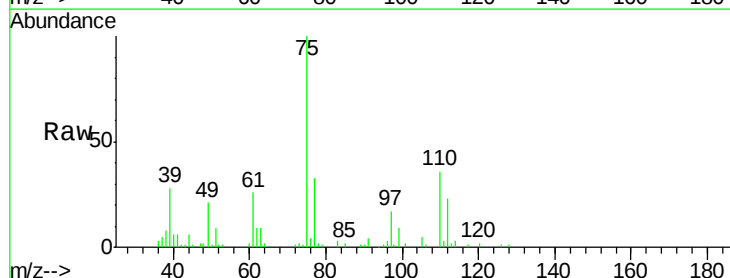
RT: 11.78 min Scan# 1131

Delta R.T. -0.00 min

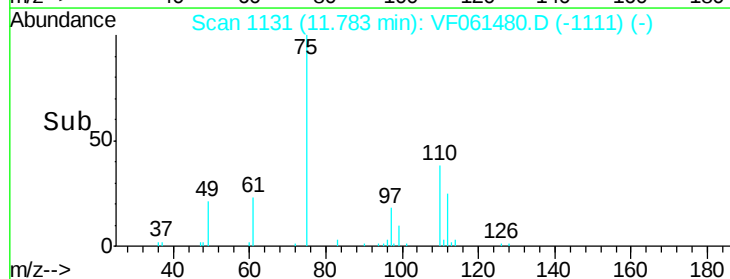
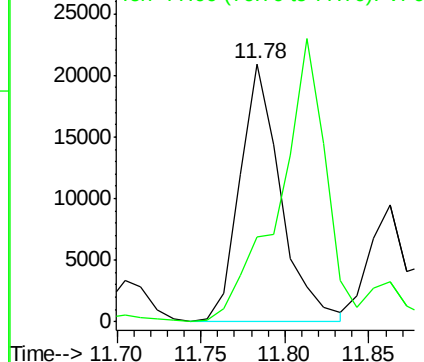
Lab File: VF061480.D

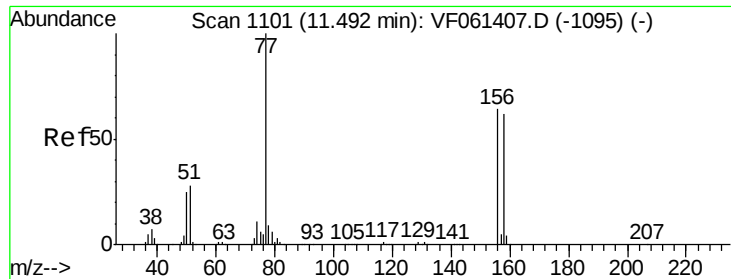
Acq: 23 Jan 2019 12:53

Tgt Ion:	75	Resp:	35352
Ion Ratio	Lower	Upper	
75	100		
77	32.7	16.1	48.3



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.514 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

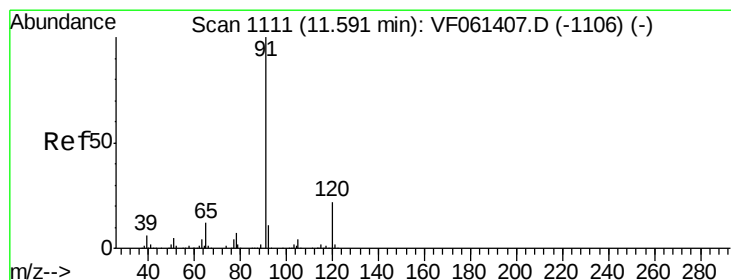
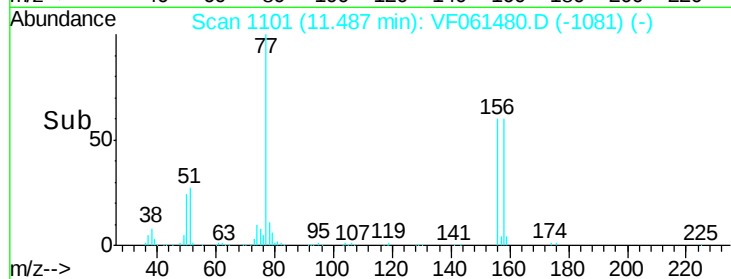
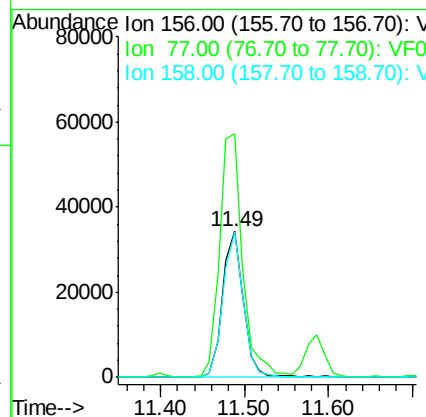
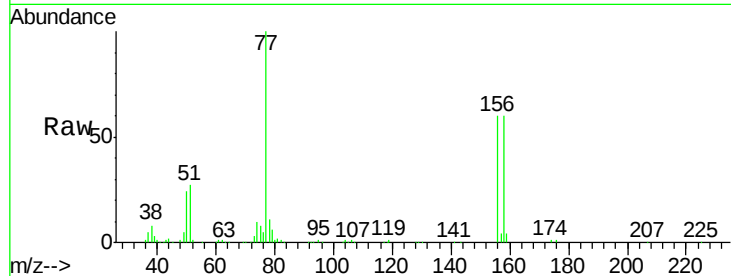
ClientSampleId :

VF0123SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	166.8	78.3	234.9	
158	99.4	48.9	146.7	

Manual Integrations
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#78

n-propylbenzene

Concen: 22.450 ug/l

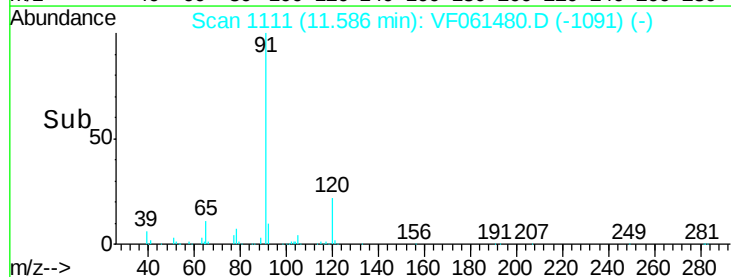
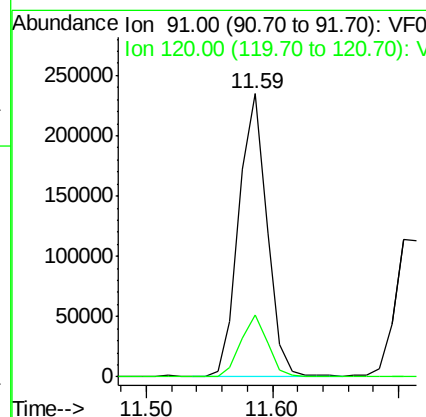
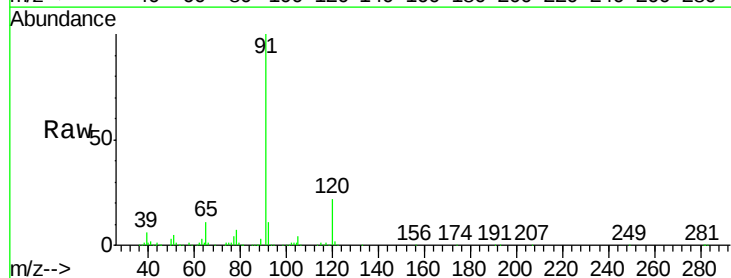
RT: 11.59 min Scan# 1111

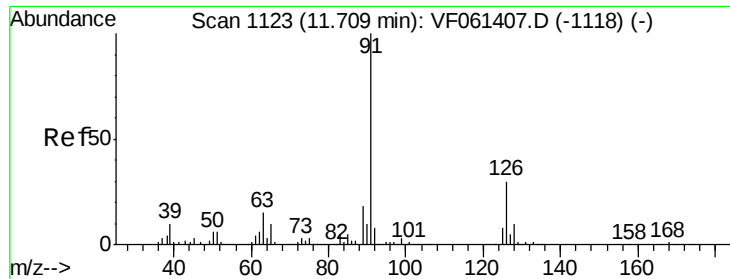
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	21.8	10.9	32.6	





#79

2-Chlorotoluene

Concen: 22.831 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampled :

VF0123SBS01

Tot Ion: 91 Resp: 197218

Ion Ratio Lower Upper

91 100

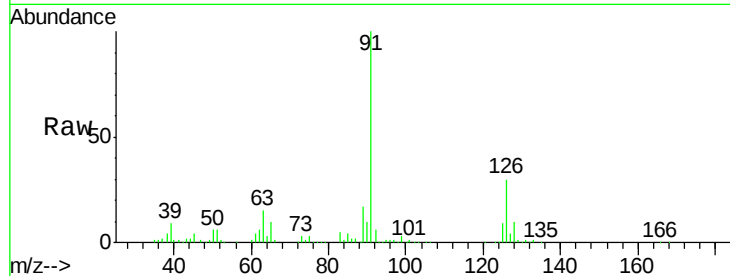
126 30.1 15.0 45.1

Manual Integrations

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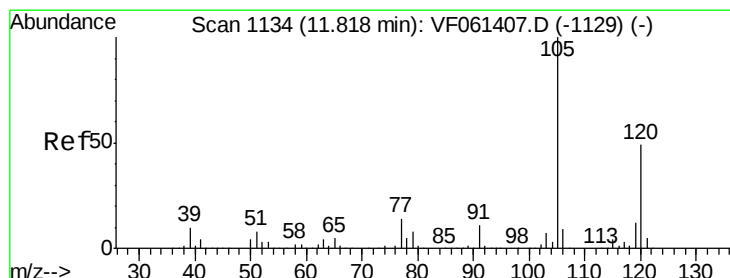
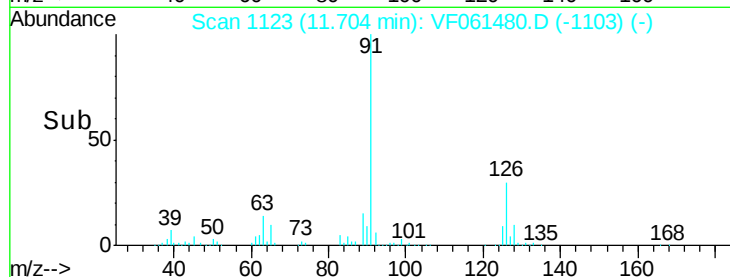
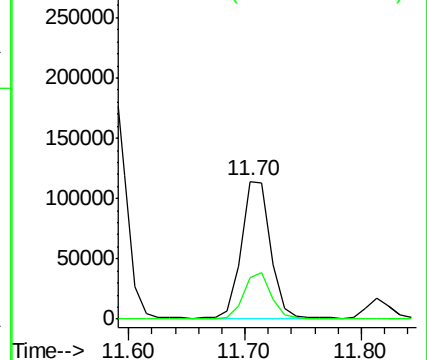
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 23.207 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VF061480.D

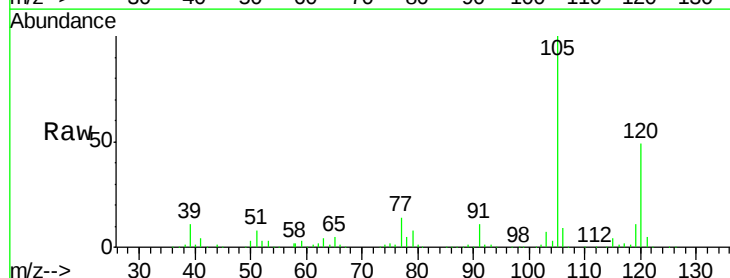
Acq: 23 Jan 2019 12:53

Tgt Ion:105 Resp: 233168

Ion Ratio Lower Upper

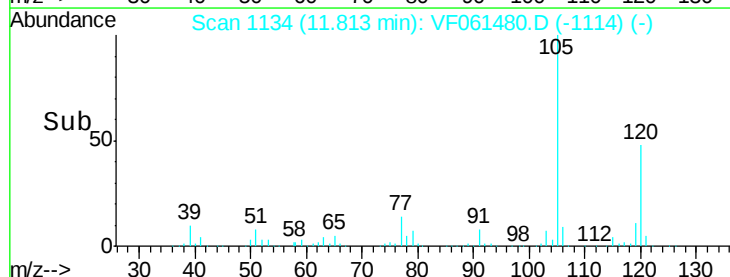
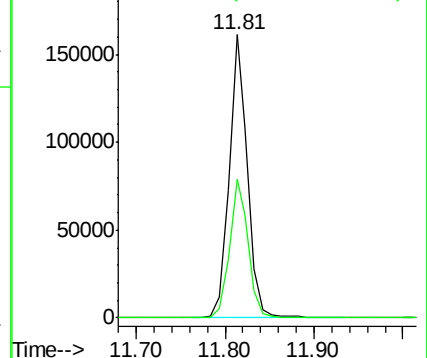
105 100

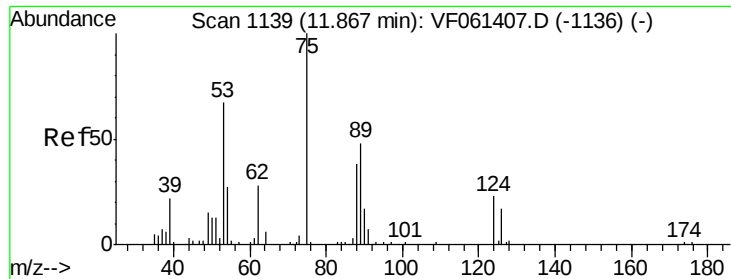
120 49.1 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





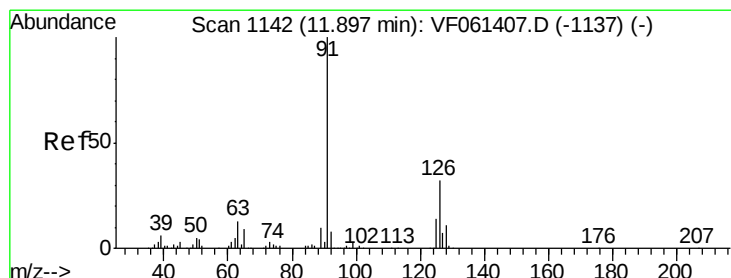
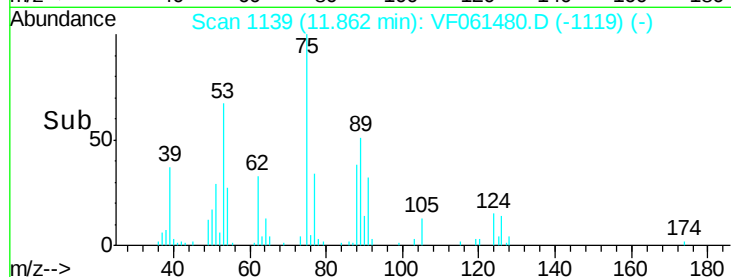
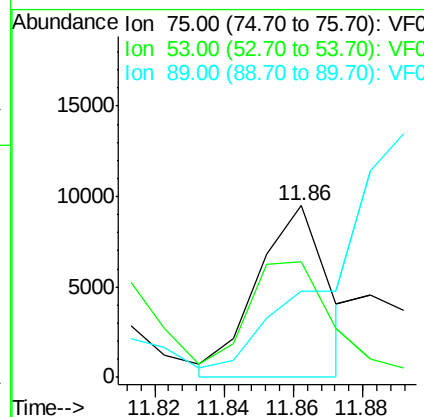
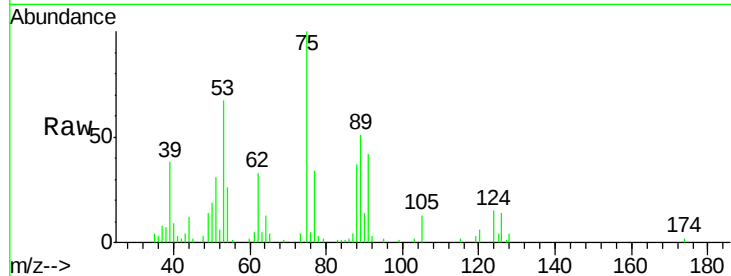
#81
trans-1,4-Dichloro-2-butene
Concen: 19.244 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	67.3	57.8	86.6
89	50.5	40.7	61.1

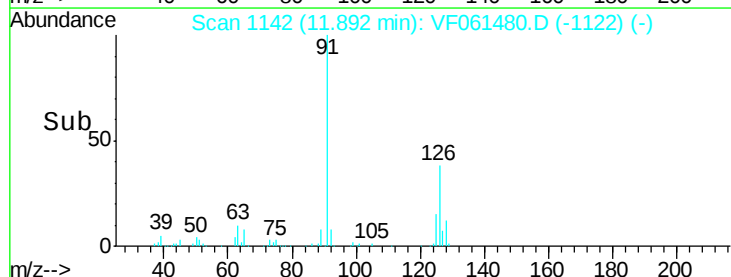
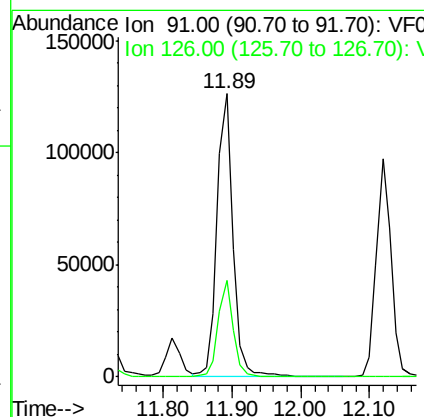
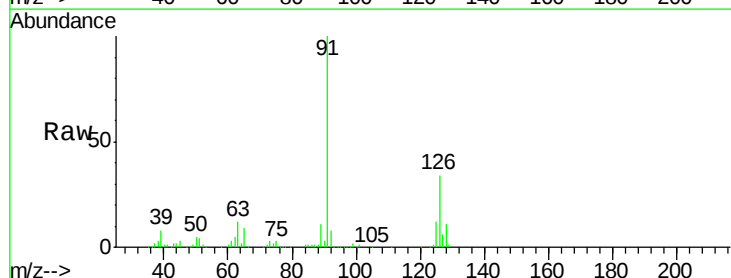
Manual Integrations
APPROVED

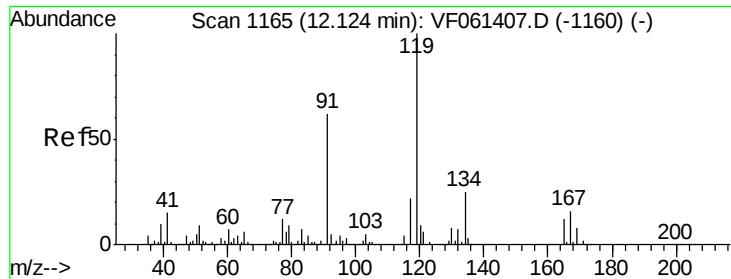
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#82
4-Chlorotoluene
Concen: 23.212 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.0	47.9





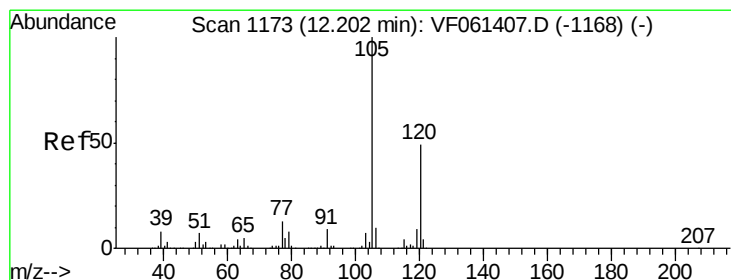
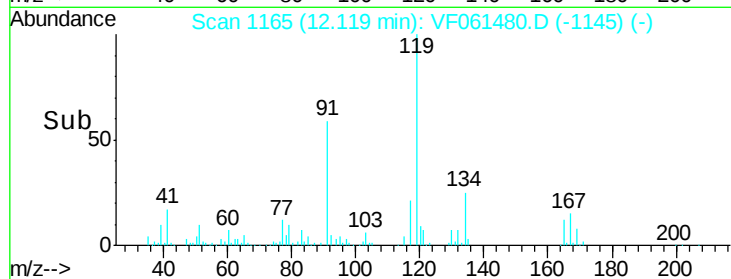
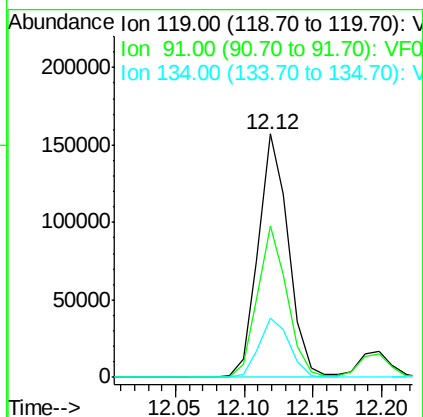
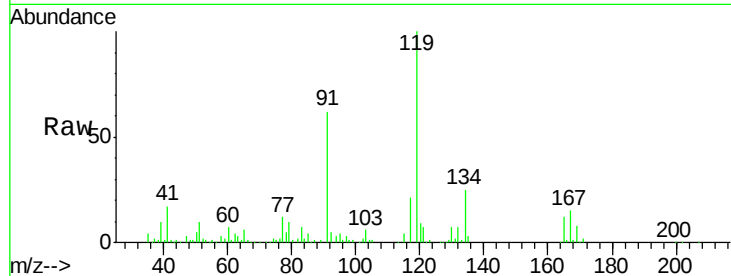
#83
tert-Butylbenzene
Concen: 23.194 ug/l
RT: 12.12 min Scan# 1165
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	241196		
91	62.0		31.3	93.8
134	24.6		12.4	37.0

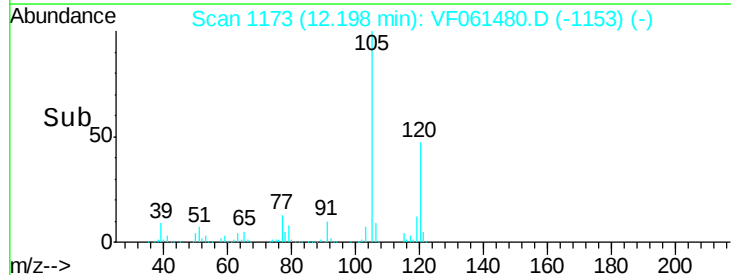
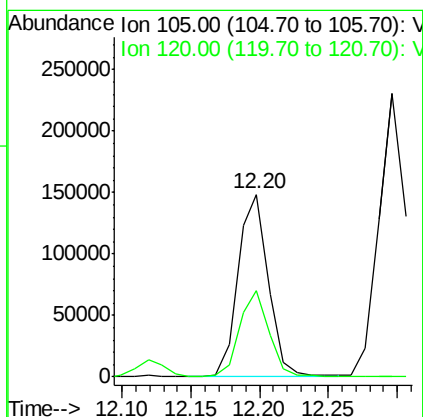
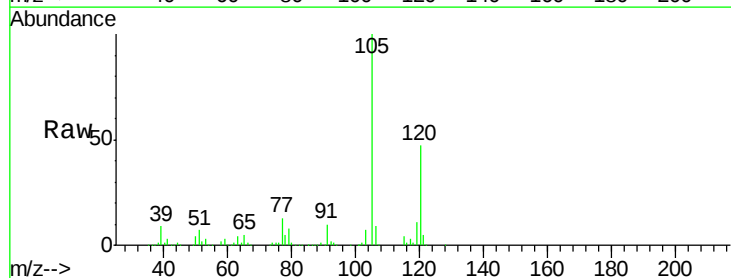
Manual Integrations
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#84
1,2,4-Trimethylbenzene
Concen: 21.990 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	227582		
120	47.2		24.9	74.6





#85

sec-Butylbenzene

Concen: 23.117 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

ClientSampleID :

VF0123SBS01

Tot Ion:105 Resp: 326473

Ion Ratio Lower Upper

105 100

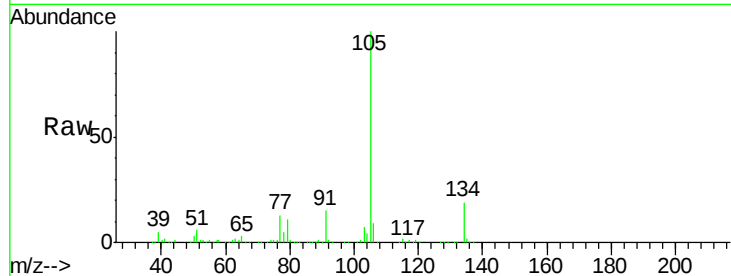
134 18.6 10.0 30.0

Manual Integrations

APPROVED

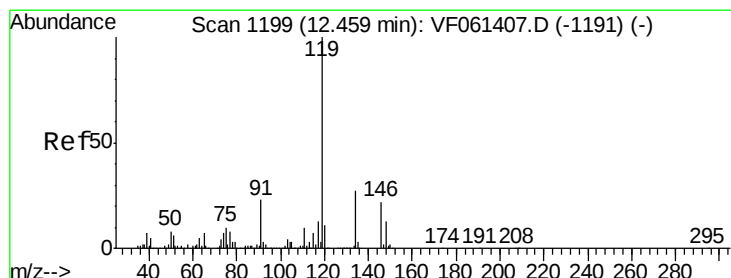
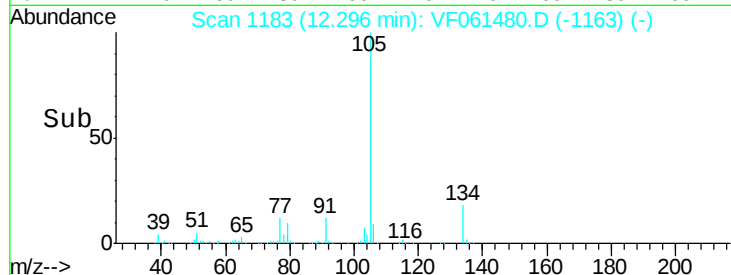
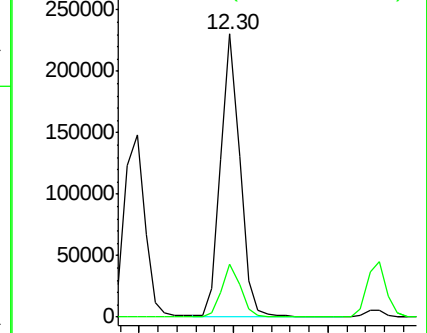
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 23.301 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

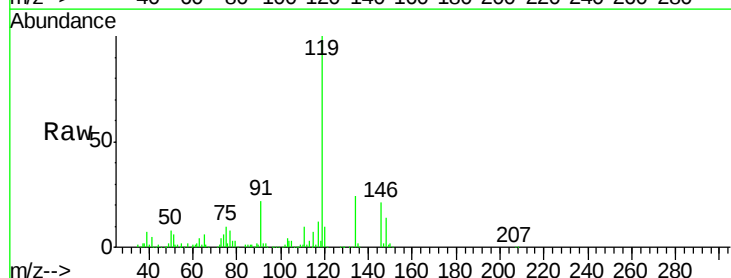
Tgt Ion:119 Resp: 270133

Ion Ratio Lower Upper

119 100

134 24.5 13.4 40.2

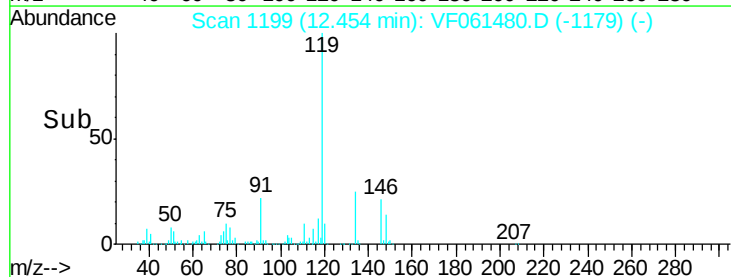
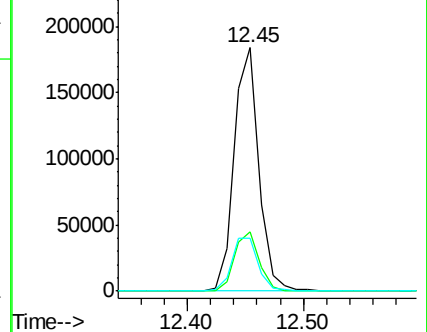
91 21.8 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 20.293 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

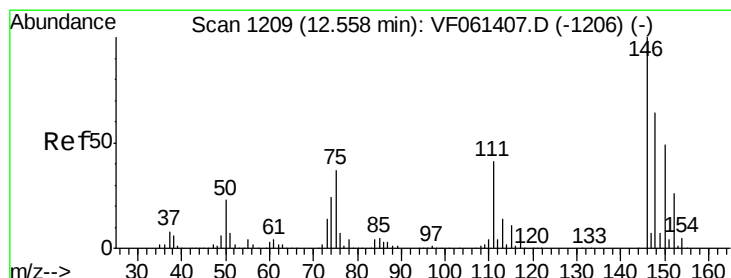
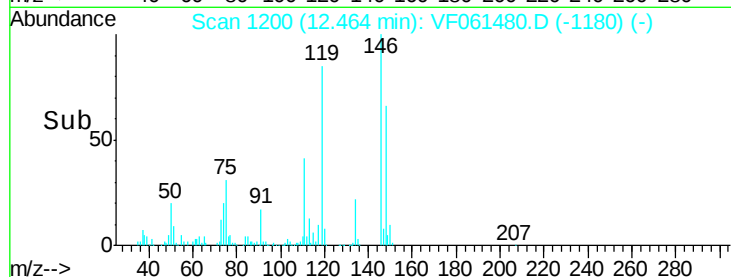
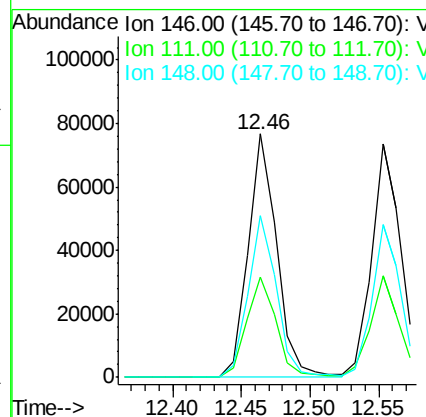
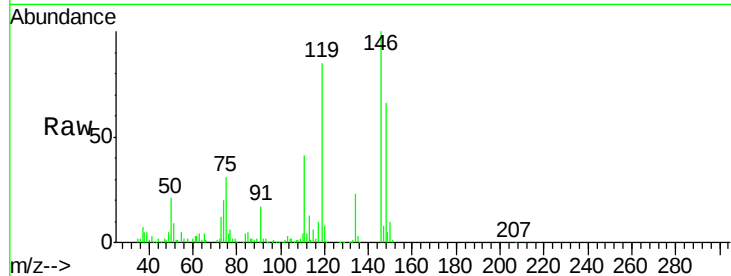
ClientSampleId :

VF0123SBS01

Tot Ion:	146	Resp:	112074
Ion Ratio	Lower	Upper	
146	100		
111	41.4	21.1	63.4
148	66.4	32.9	98.6

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 22.420 ug/l

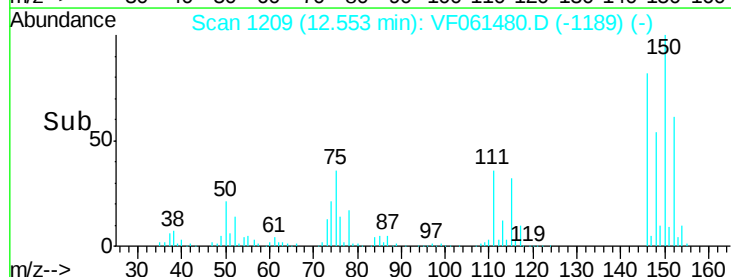
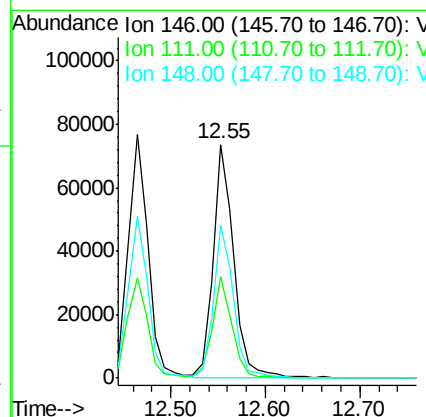
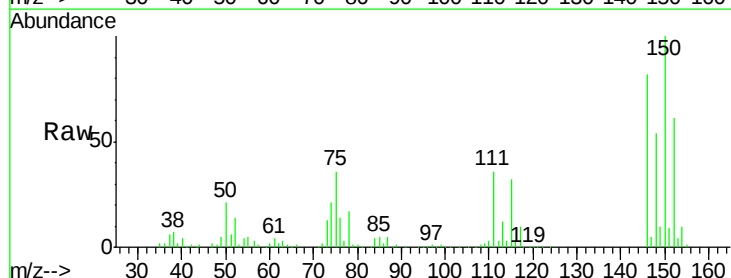
RT: 12.55 min Scan# 1209

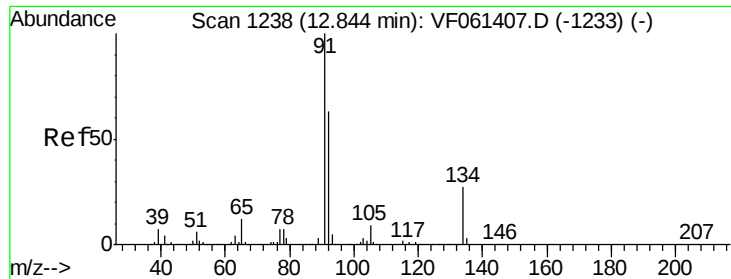
Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	146	Resp:	111395
Ion Ratio	Lower	Upper	
146	100		
111	43.5	20.8	62.2
148	65.5	32.1	96.5





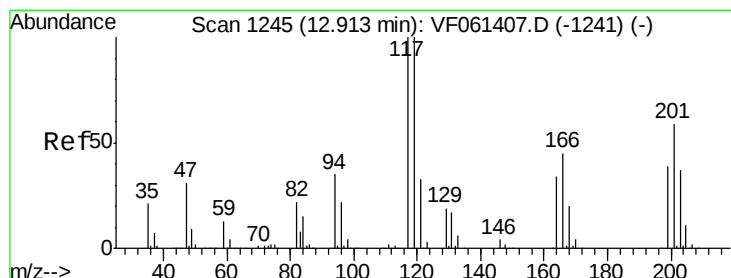
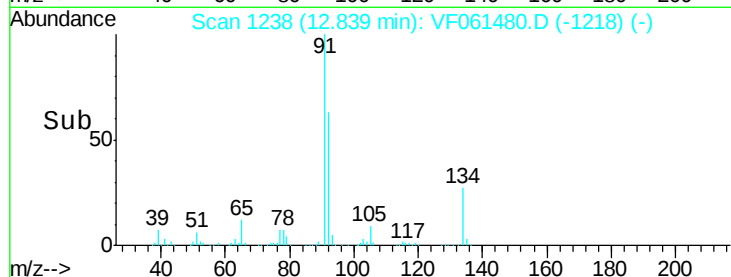
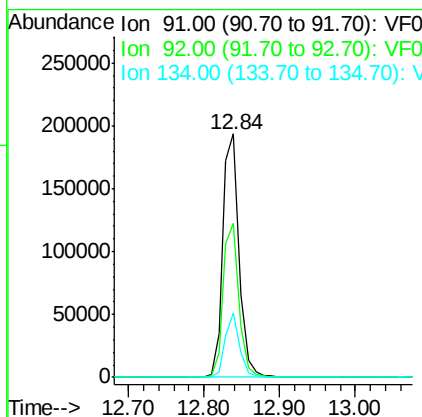
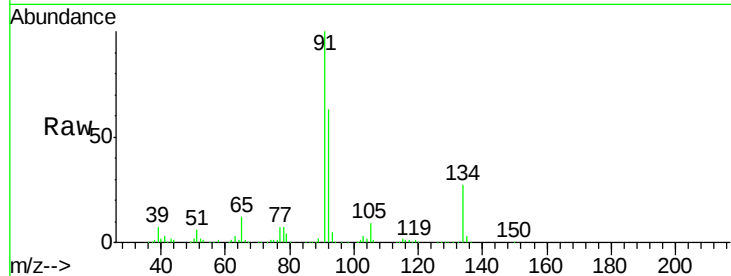
#89
n-Butylbenzene
Concen: 24.261 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	63.1	31.6	94.7
134	26.5	13.6	40.8

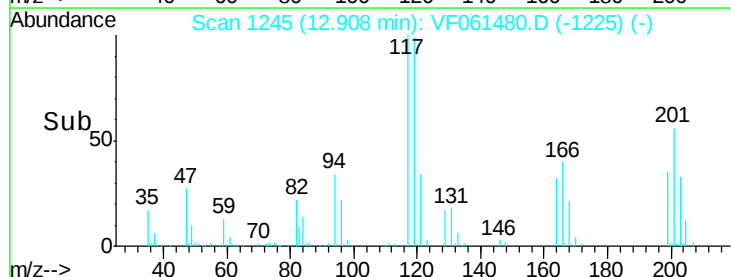
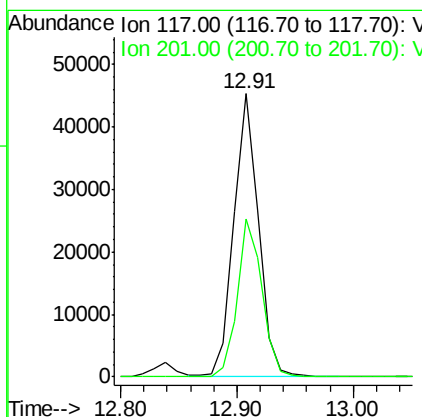
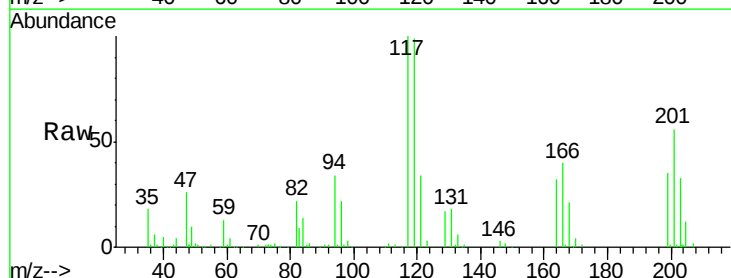
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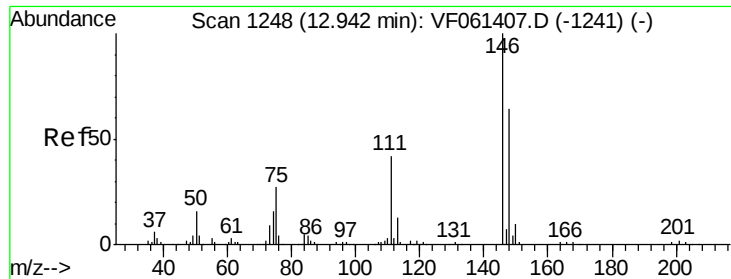
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#90
Hexachloroethane
Concen: 24.413 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.00 min
Lab File: VF061480.D
Acq: 23 Jan 2019 12:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	57.1	29.3	87.8





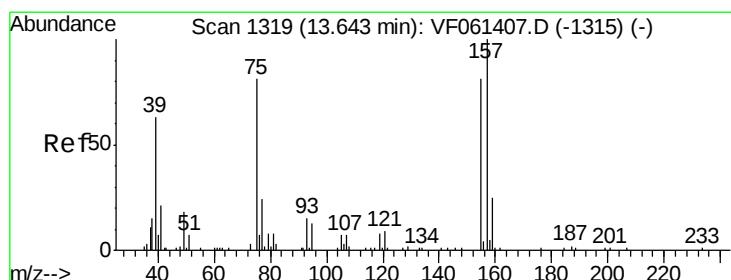
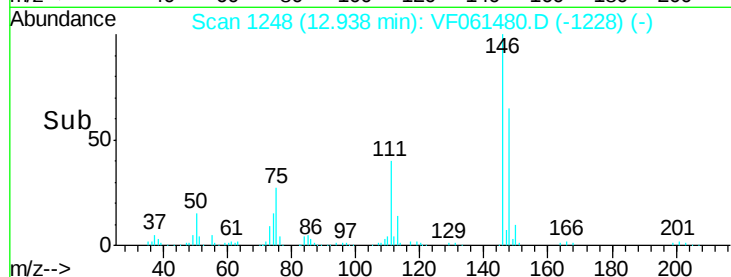
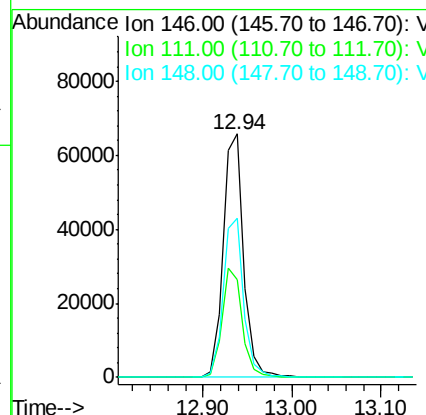
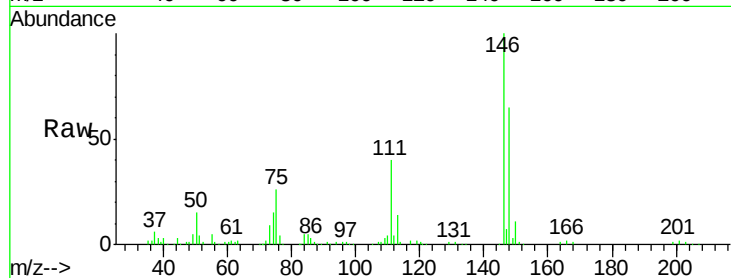
#91
 1,2-Dichlorobenzene
 Concen: 21.690 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061480.D
 Acq: 23 Jan 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0123SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	106687		
111	39.9	21.1	63.3	
148	65.3	31.9	95.7	

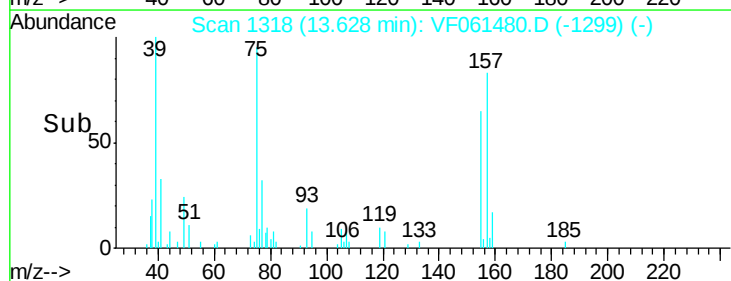
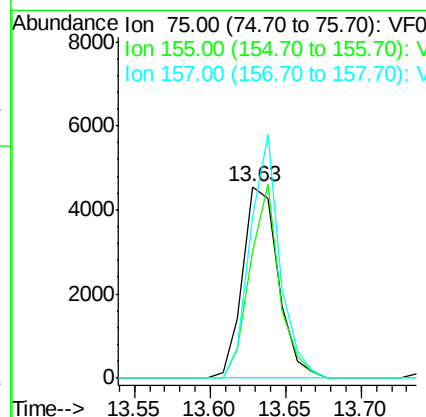
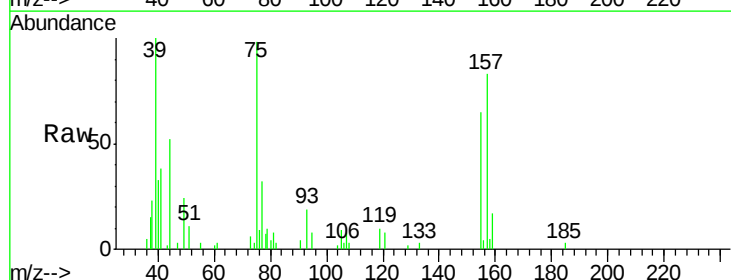
Manual Integrations
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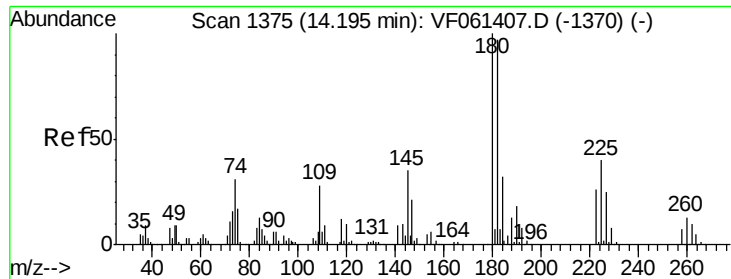
MMDadoda
 1/24/2019 12:56:44 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.047 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VF061480.D
 Acq: 23 Jan 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	7493		
155	66.4	49.7	149.1	
157	84.8	61.4	184.1	





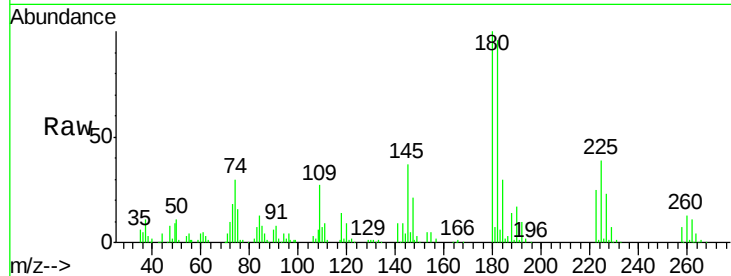
#93
 1,2,4-Trichlorobenzene
 Concen: 21.475 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061480.D
 Acq: 23 Jan 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0123SBS01

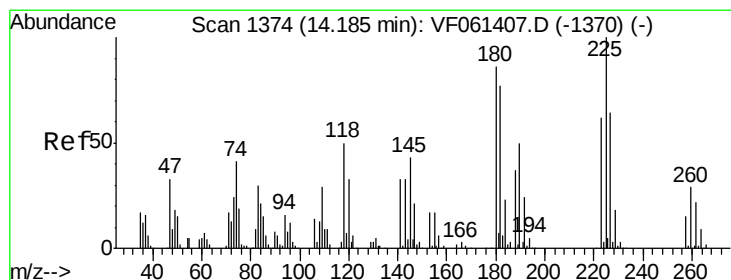
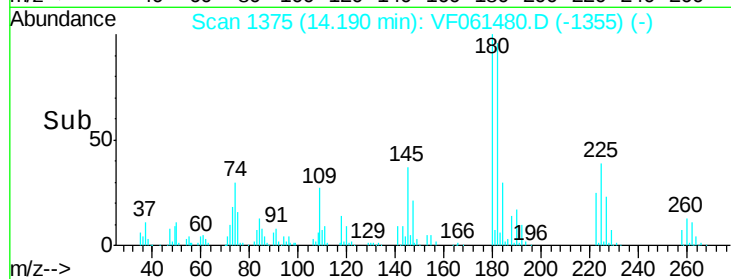
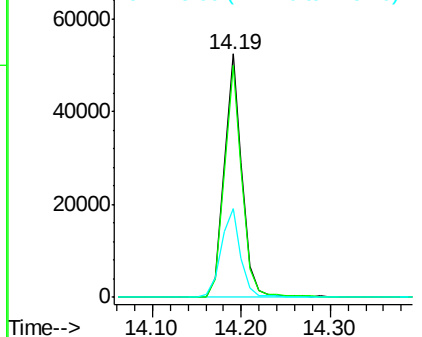
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	48.5	145.6
145	36.5	17.5	52.6

Manual Integrations
 APPROVED

MMDadoda
 1/24/2019 12:56:44 PM

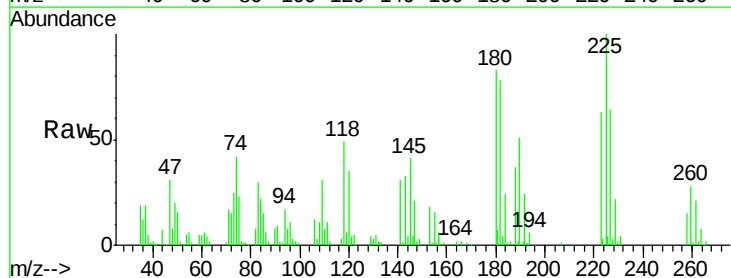


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

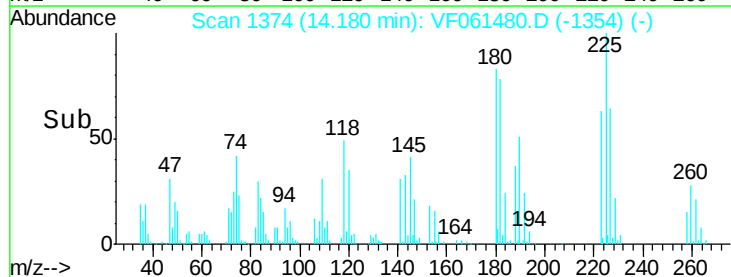
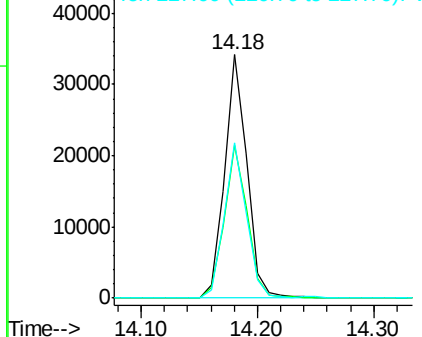


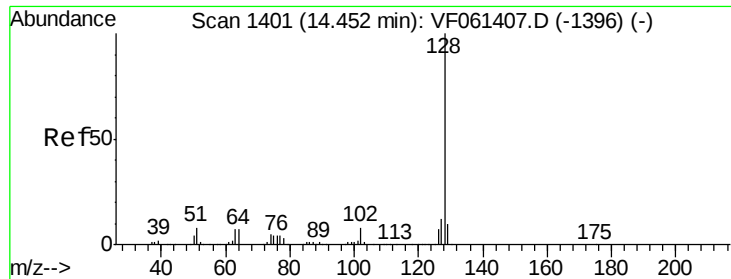
#94
 Hexachlorobutadiene
 Concen: 21.257 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061480.D
 Acq: 23 Jan 2019 12:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.1	93.2
227	63.7	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: 19.637 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Instrument :

MSVOA_F

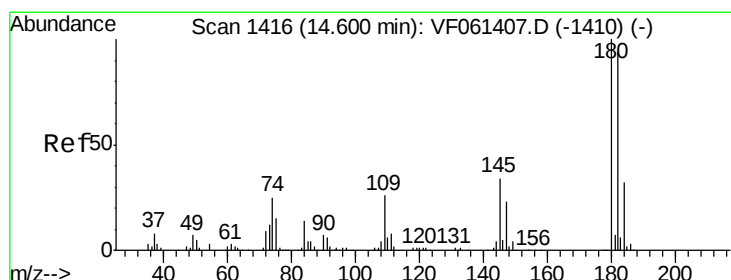
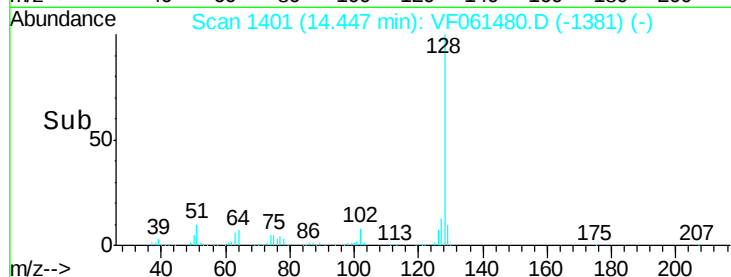
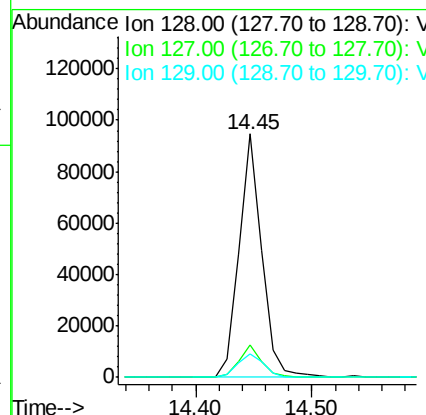
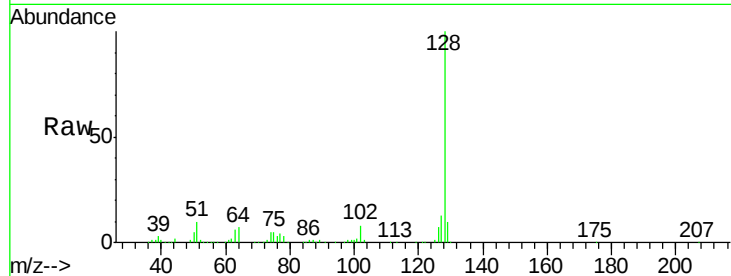
ClientSampleId :

VF0123SBS01

Tot Ion:	128	Resp:	128555
Ion Ratio	Lower	Upper	
128	100		
127	13.2	9.5	14.3
129	9.8	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
1/24/2019 12:56:44 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.462 ug/l

RT: 14.59 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF061480.D

Acq: 23 Jan 2019 12:53

Tgt Ion:	180	Resp:	65265
Ion Ratio	Lower	Upper	
180	100		
182	95.2	47.0	141.2
145	31.6	17.1	51.2

