

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\
 Data File : VV009161.D
 Acq On : 04 Jan 2019 14:41
 Operator : SY/MD
 Sample : VSTD00568
 Misc : 5.00 G/10ML/MSVOA V/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:00:09 AM

Quant Time: Jan 05 04:44:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	189518	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	173608	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	86263	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	8372	6.46	ug/L	0.00
7) Chloroethane-d5	1.58	69	7719	6.14	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	25523	5.89	ug/L	0.00
20) 2-Butanone-d5	3.96	46	9846m	10.96	ug/L	0.00
24) Chloroform-d	4.40	84	23027	5.77	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	12234	5.73	ug/L	0.00
29) Benzene-d6	5.10	84	44917	5.81	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	13248	5.97	ug/L	0.00
37) Toluene-d8	7.36	98	42257	5.79	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	6017	5.72	ug/L	0.00
39) 2-Hexanone-d5	8.15	63	5211	9.96	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	13153	5.40	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	17633	6.05	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	16726	5.490 ug/L	100
3) Chloromethane	1.25	50	11600	5.622 ug/L	99
5) Vinyl chloride	1.32	62	12167	5.507 ug/L	96
6) Bromomethane	1.53	94	8482	5.451 ug/L	99
8) Chloroethane	1.60	64	7549	5.545 ug/L	100
9) Trichlorofluoromethane	1.76	101	21252	5.247 ug/L	96
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	14099	5.227 ug/L	99
12) 1,1-Dichloroethene	2.13	96	12475	5.333 ug/L	87
13) Acetone	2.22	43	13440	10.399 ug/L	91
14) Carbon disulfide	2.31	76	35590	5.324 ug/L	100
15) Methyl Acetate	2.47	43	8117	5.076 ug/L #	84
16) Methylene chloride	2.53	84	15358	5.424 ug/L	95
17) Methyl tert-butyl Ether	2.80	73	28313	4.941 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	13279	5.356 ug/L	96
19) 1,1-Dichloroethane	3.23	63	21270	5.166 ug/L	95
21) 2-Butanone	4.05	43	10928m	9.194 ug/L	
22) cis-1,2-Dichloroethene	3.96	96	13940	5.260 ug/L	98
23) Bromochloromethane	4.30	128	6183	4.959 ug/L	92
25) Chloroform	4.42	83	22484	5.128 ug/L	99
27) 1,2-Dichloroethane	5.18	62	15363	5.217 ug/L	99
30) Cyclohexane	4.72	56	20348	5.287 ug/L	95
31) 1,1,1-Trichloroethane	4.65	97	21385	5.067 ug/L	99
32) Carbon tetrachloride	4.87	117	19784	5.121 ug/L	97
34) Benzene	5.14	78	47465	5.086 ug/L	100
35) Trichloroethene	5.96	95	13787	5.128 ug/L	98
36) Methylcyclohexane	6.17	83	23787	5.295 ug/L	98
40) 1,2-Dichloropropane	6.22	63	11128	4.947 ug/L	98
41) Bromodichloromethane	6.55	83	14938	4.845 ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	16697	4.684 ug/L	100
43) 4-Methyl-2-pentanone	7.29	43	21009	9.798 ug/L	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\
 Data File : VV009161.D
 Acq On : 04 Jan 2019 14:41
 Operator : SY/MD
 Sample : VSTD00568
 Misc : 5.00 G/10ML/MSVOA V/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

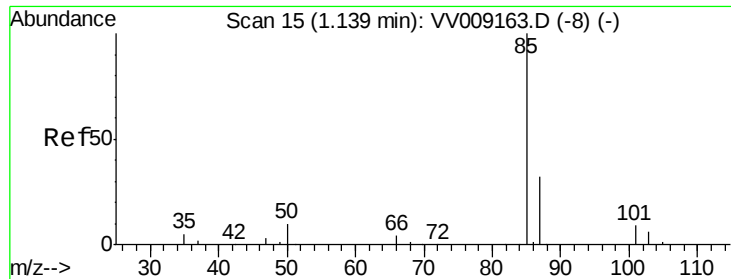
Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:00:09 AM

Quant Time: Jan 05 04:44:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	50738	5.042	ug/L	96
45) trans-1,3-Dichloropropene	7.69	75	14441	4.627	ug/L	95
46) 1,1,2-Trichloroethane	7.88	97	10087	5.073	ug/L	96
47) Tetrachloroethene	8.02	164	12053	5.174	ug/L	98
49) 2-Hexanone	8.20	43	14535	9.211	ug/L	97
50) Dibromochloromethane	8.29	129	11465	4.694	ug/L	94
51) 1,2-Dibromoethane	8.40	107	10143	4.879	ug/L	95
52) Chlorobenzene	8.93	112	35044	5.076	ug/L	99
53) Ethylbenzene	9.05	91	57121	5.020	ug/L	100
54) m,p-Xylene	9.18	106	21948	4.951	ug/L	93
55) o-xylene	9.59	106	19936	4.863	ug/L	98
56) Styrene	9.60	104	33340	4.822	ug/L	98
57) Isopropylbenzene	9.98	105	55977	4.922	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	12420	4.662	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	10492	4.928	ug/L	96
62) Bromoform	9.78	173	7198	4.725	ug/L	94
63) 1,3-Dichlorobenzene	11.23	146	28375	5.221	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	29545	5.215	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	26950	5.205	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	2420	4.502	ug/L #	79
67) 1,3,5-Trichlorobenzene	12.69	180	22196	5.064	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	17596	4.932	ug/L	98
69) Naphthalene	13.55	128	31405	4.321	ug/L	98
70) 1,2,3-Trichlorobenzene	13.80	180	15839	4.837	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.490 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Tot Ion: 85 Resp: 16726

Ion Ratio Lower Upper

85 100

87 32.0 22.5 41.7

Instrument :

MSVOA_V

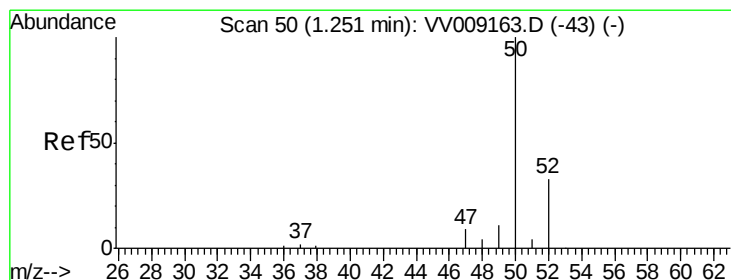
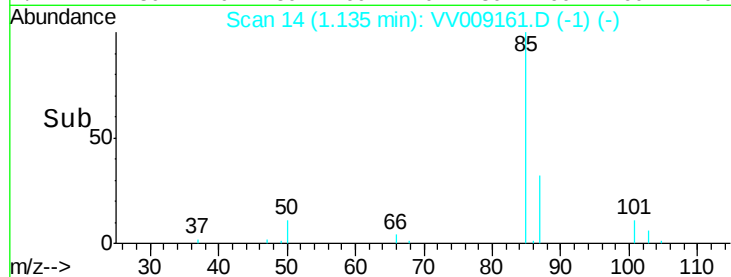
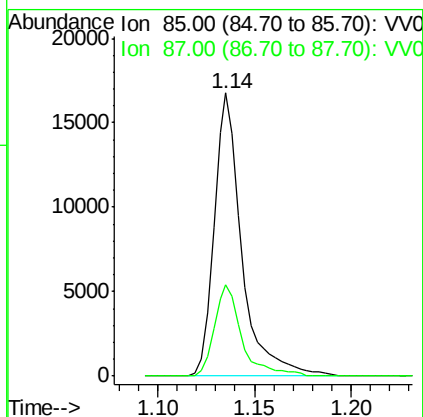
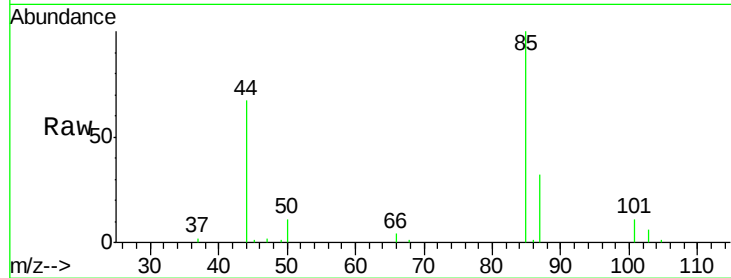
ClientSampleId :

VSTD00568

Manual Integrations
APPROVED

MMDadoda

1/8/2019 12:00:09 AM



#3

Chloromethane

Concen: 5.622 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.01 min

Lab File: VV009161.D

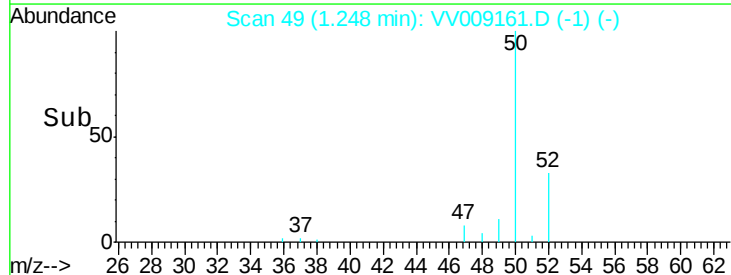
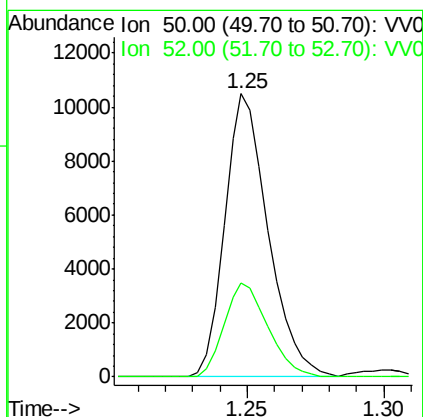
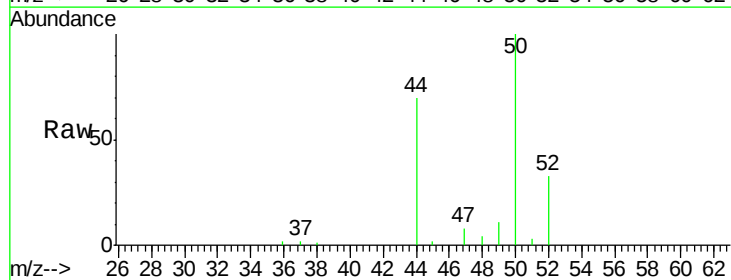
Acq: 04 Jan 2019 14:41

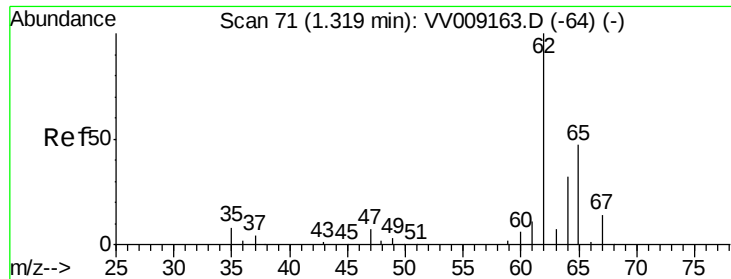
Tgt Ion: 50 Resp: 11600

Ion Ratio Lower Upper

50 100

52 33.3 23.0 42.8





#5

Vinyl chloride

Concen: 5.507 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Tot Ion: 62 Resp: 12167

Ion Ratio Lower Upper

62 100

64 30.4 23.0 42.6

Instrument :

MSVOA_V

ClientSampled :

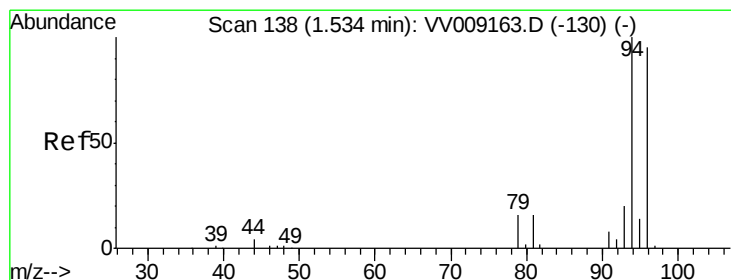
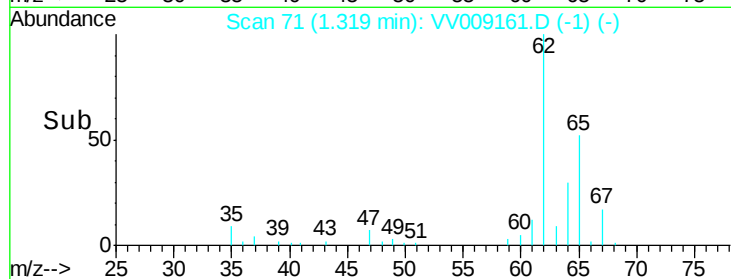
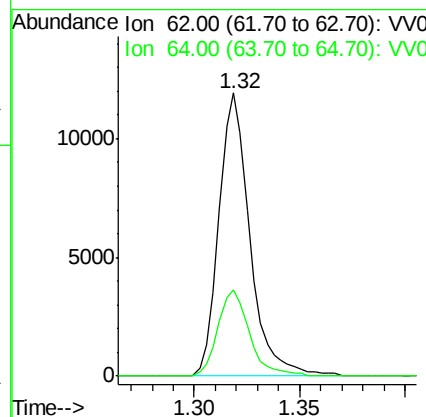
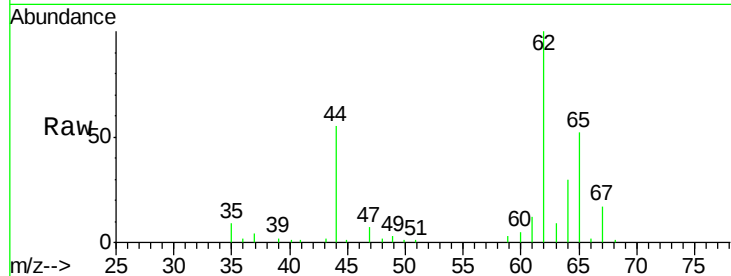
VSTD00568

Manual Integrations

APPROVED

MMDadoda

1/8/2019 12:00:09 AM



#6

Bromomethane

Concen: 5.451 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV009161.D

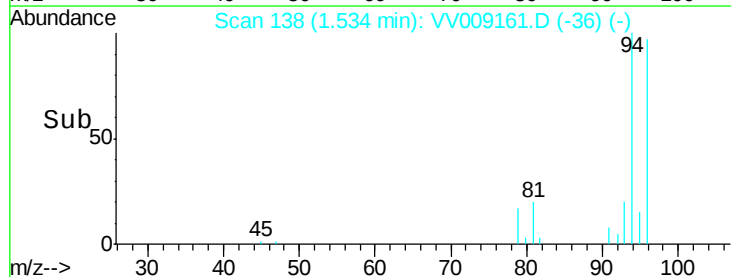
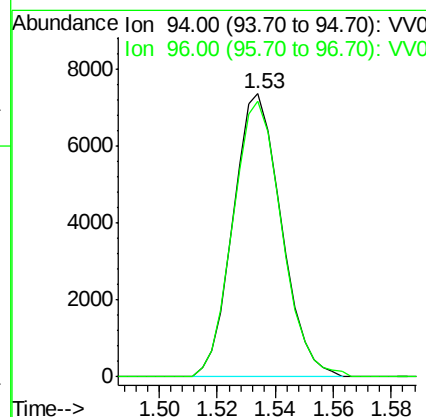
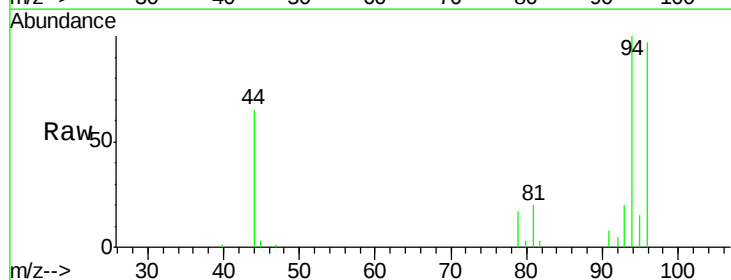
Acq: 04 Jan 2019 14:41

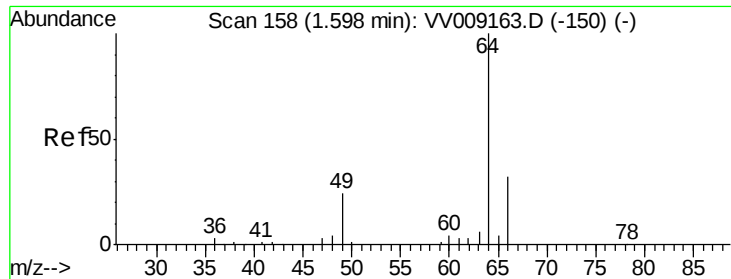
Tgt Ion: 94 Resp: 8482

Ion Ratio Lower Upper

94 100

96 98.6 9.7 185.1





#8

Chloroethane

Concen: 5.545 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

Tot Ion: 64 Resp: 7549

Ion Ratio Lower Upper

64 100

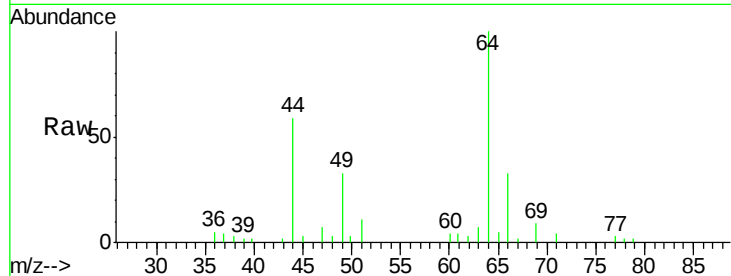
66 33.0 23.2 43.0

Manual Integrations

APPROVED

MMDadoda

1/8/2019 12:00:09 AM



Abundance Ion 64.00 (63.70 to 64.70): VV009161.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV009161.D (-150) (-)

1.60

6000

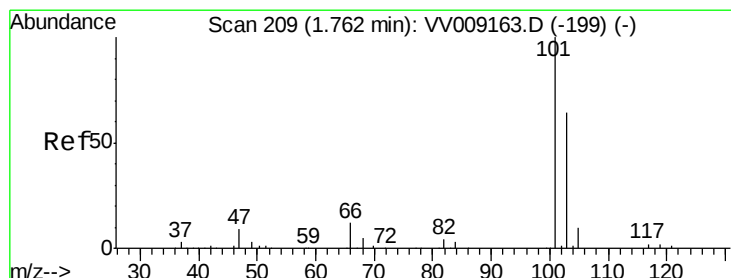
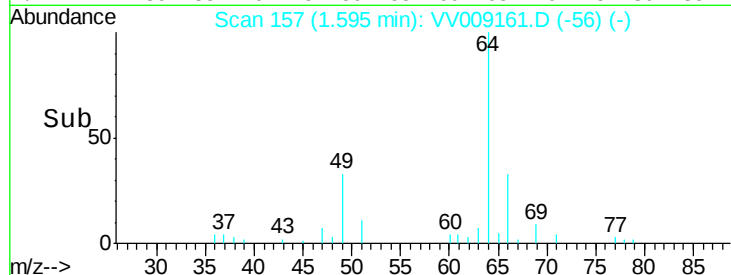
4000

2000

0

1.56 1.58 1.60 1.62

Time-->



#9

Trichlorofluoromethane

Concen: 5.247 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.01 min

Lab File: VV009161.D

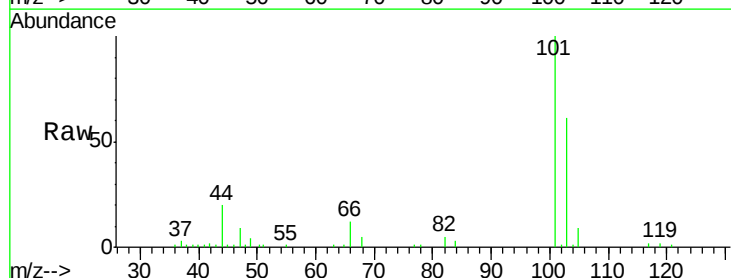
Acq: 04 Jan 2019 14:41

Tgt Ion: 101 Resp: 21252

Ion Ratio Lower Upper

101 100

103 62.2 46.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): VV009161.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV009161.D (-199) (-)

1.76

20000

15000

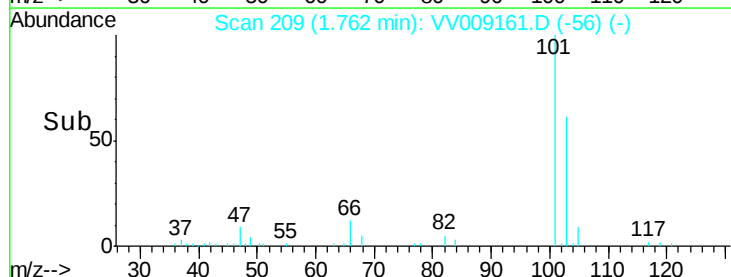
10000

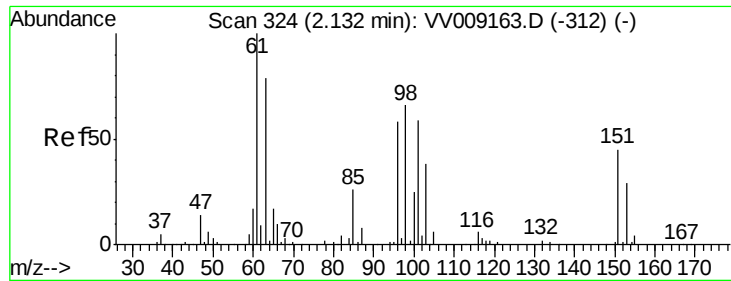
5000

0

1.75 1.76 1.77 1.78 1.79 1.80

Time-->





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.227 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

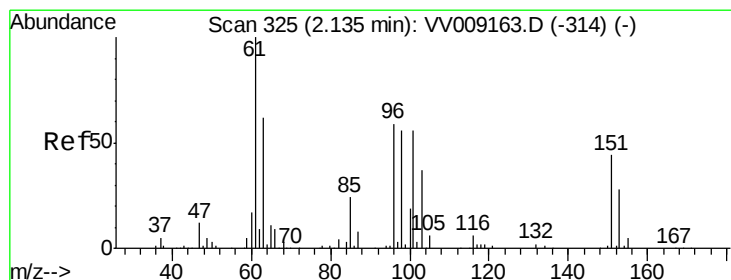
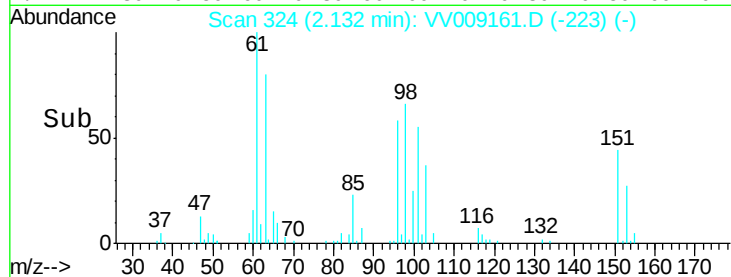
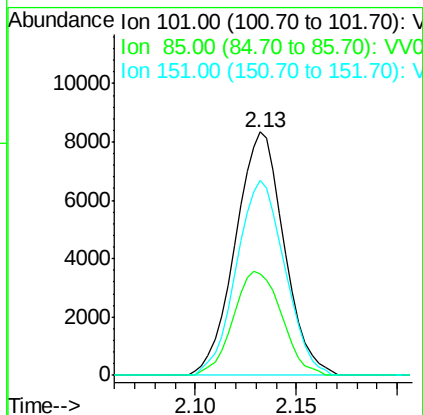
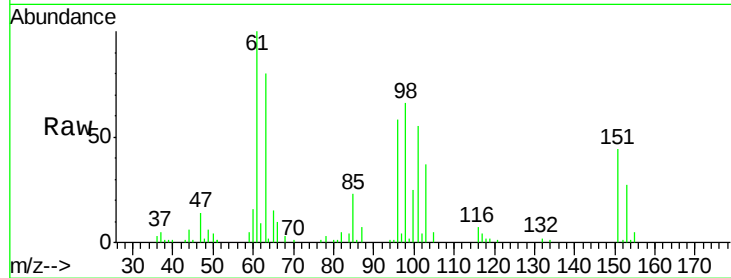
ClientSampled :

VSTD00568

Tot Ion:	101	Resp:	14099
Ion Ratio	Lower	Upper	
101	100		
85	42.4	34.6	52.0
151	79.4	62.6	94.0

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:09 AM



#12

1,1-Dichloroethene

Concen: 5.333 ug/L

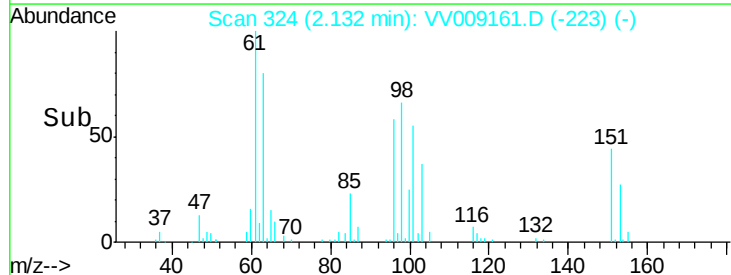
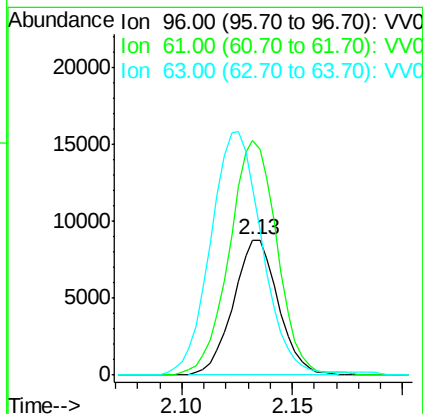
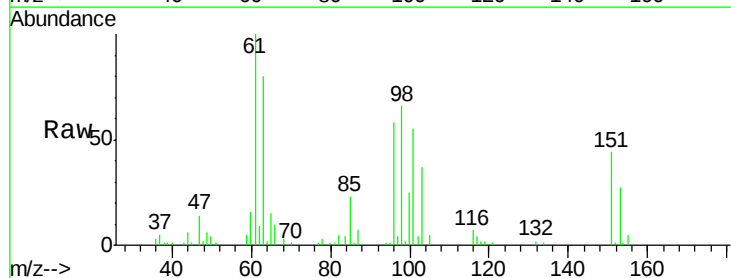
RT: 2.13 min Scan# 324

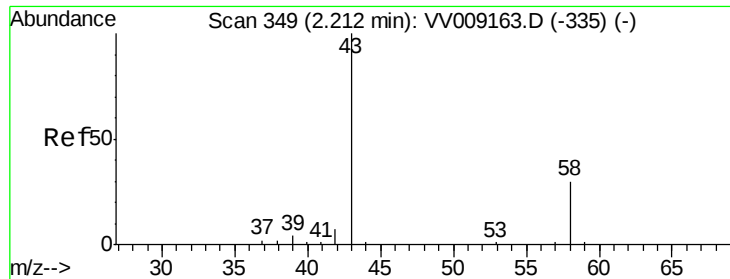
Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Tgt Ion:	96	Resp:	12475
Ion Ratio	Lower	Upper	
96	100		
61	173.4	117.0	217.4
63	138.5	78.2	145.2





#13

Acetone

Concen: 10.399 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

Tot Ion: 43 Resp: 13440

Ion Ratio Lower Upper

43 100

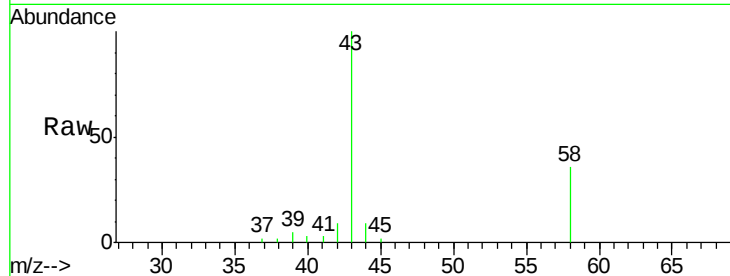
58 38.4 0.0 67.0

Manual Integrations

APPROVED

MMDadoda

1/8/2019 12:00:09 AM



Abundance Ion 43.00 (42.70 to 43.70): VV009161.D (-248) (-)

Ion 58.00 (57.70 to 58.70): VV009161.D (-248) (-)

2.22

6000

5000

4000

3000

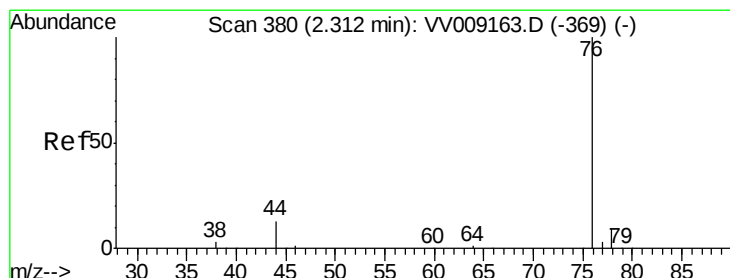
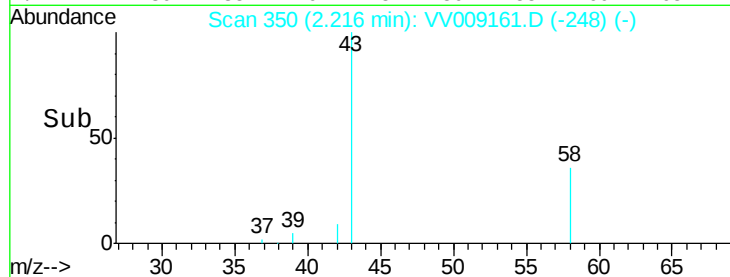
2000

1000

0

Time-->

2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 5.324 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.01 min

Lab File: VV009161.D

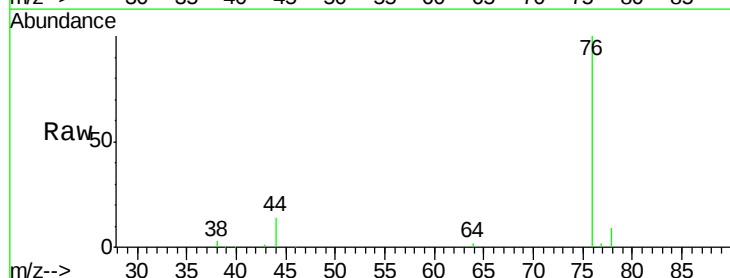
Acq: 04 Jan 2019 14:41

Tgt Ion: 76 Resp: 35590

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009161.D (-227) (-)

Ion 78.00 (77.70 to 78.70): VV009161.D (-227) (-)

2.31

25000

20000

15000

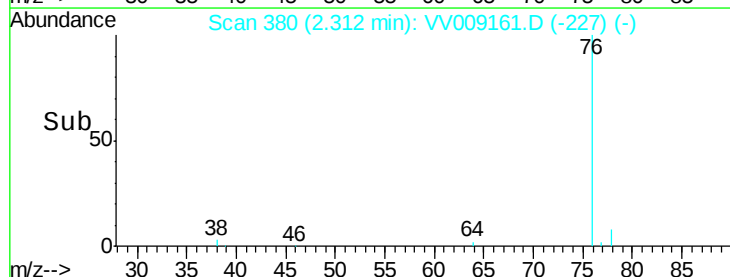
10000

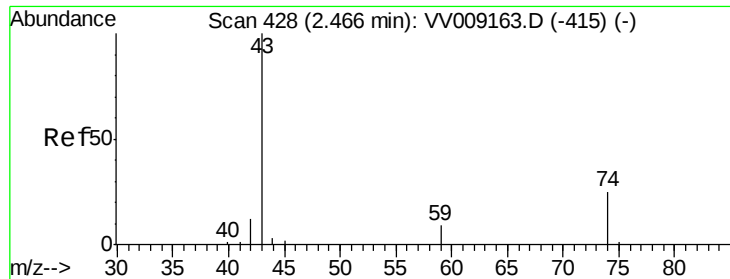
5000

0

Time-->

2.25 2.30 2.35





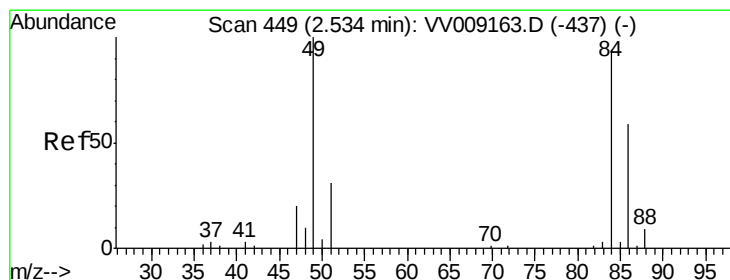
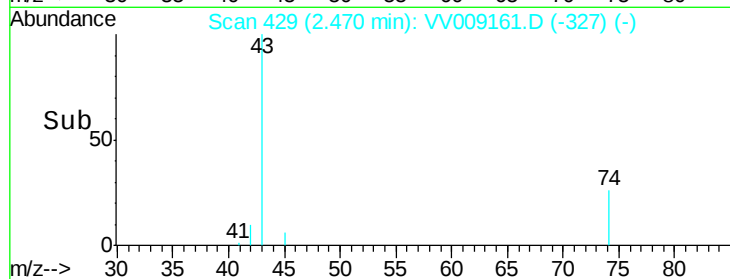
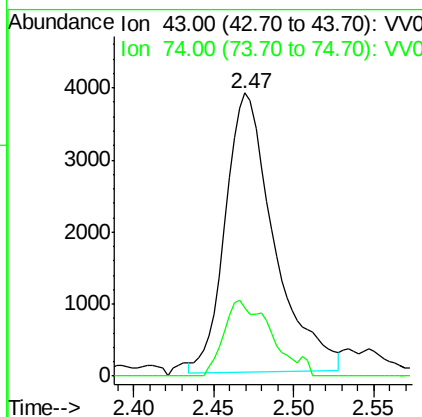
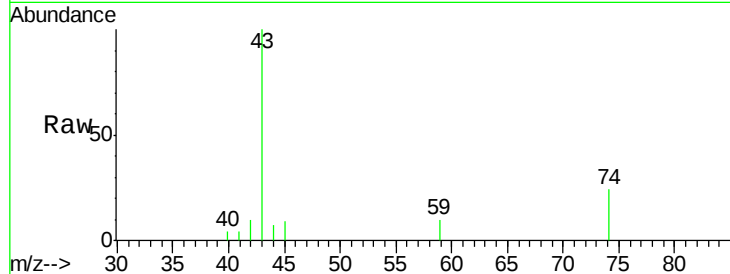
#15
Methvl Acetate
Concen: 5.076 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tot Ion: 43 Resp: 8117
Ion Ratio Lower Upper
43 100
74 16.5 19.4 29.0#

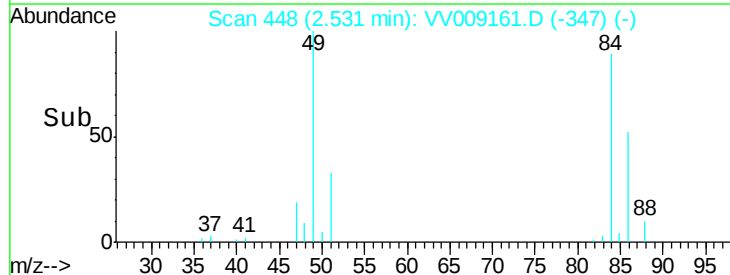
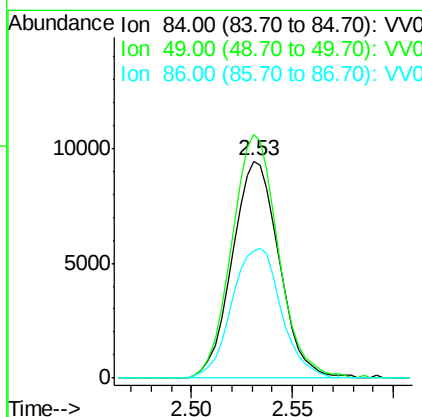
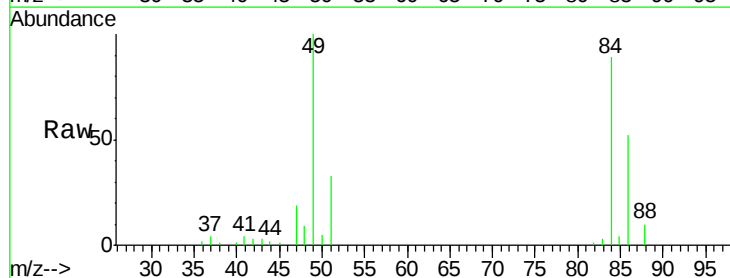
Manual Integrations
APPROVED

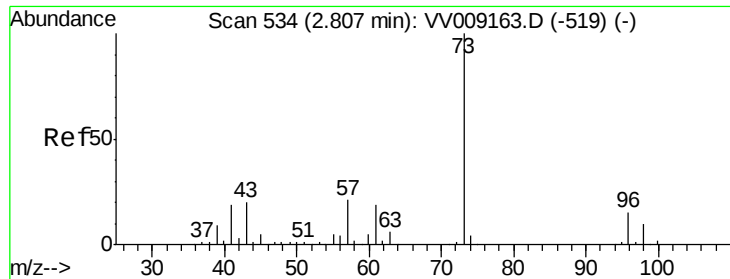
MMDadoda
1/8/2019 12:00:09 AM



#16
Methylene chloride
Concen: 5.424 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion: 84 Resp: 15358
Ion Ratio Lower Upper
84 100
49 112.2 77.6 144.2
86 58.7 47.4 88.0





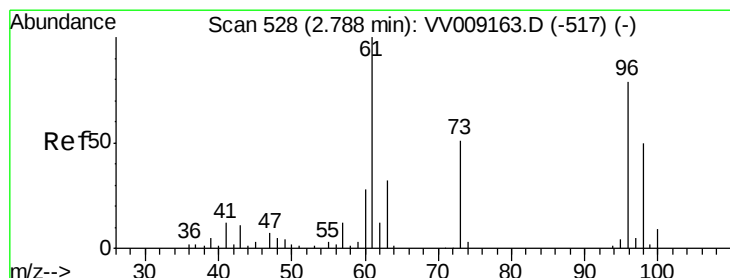
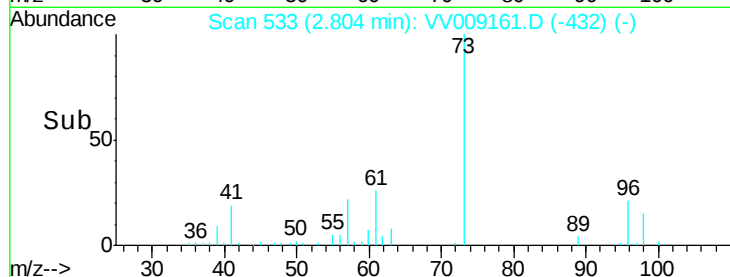
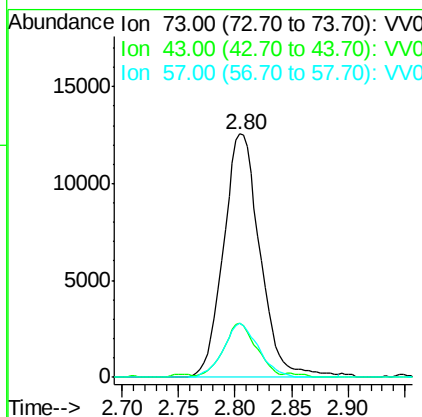
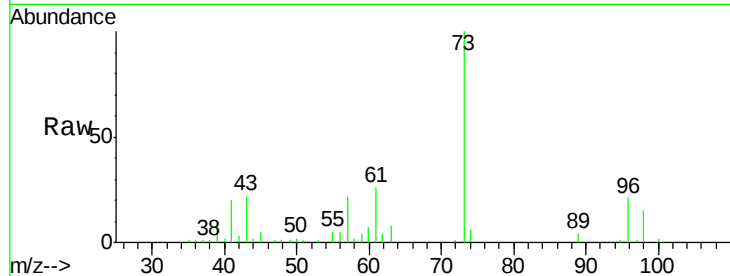
#17
Methvl tert-butvl Ether
Concen: 4.941 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tot Ion	Ratio	Lower	Upper
73	100		
43	19.1	15.4	23.2
57	21.1	16.2	24.2

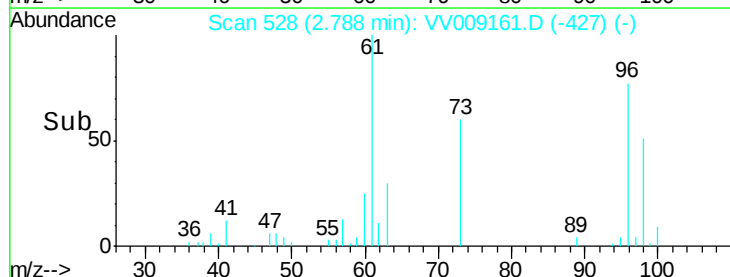
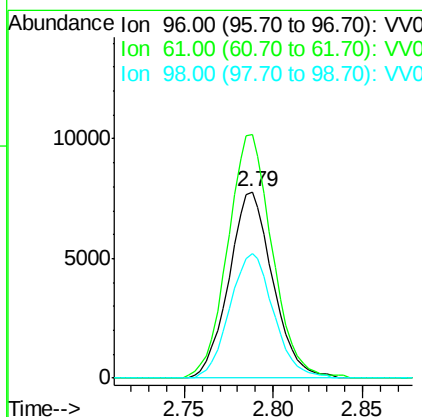
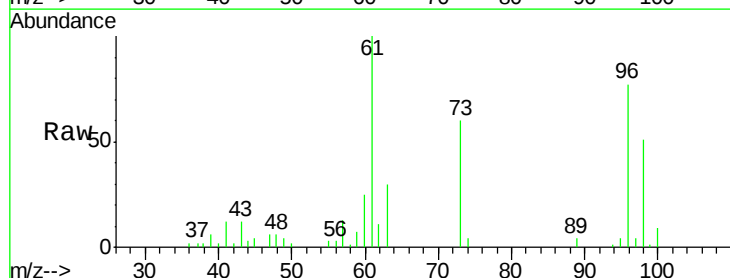
Manual Integrations
APPROVED

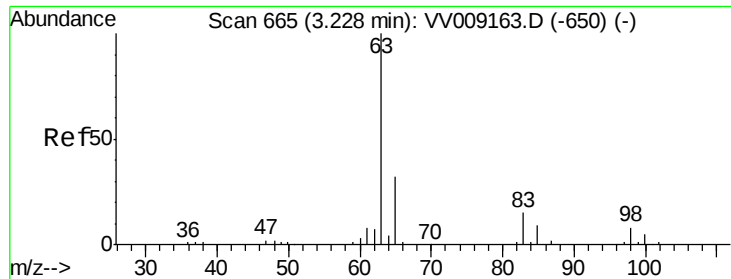
MMDadoda
1/8/2019 12:00:09 AM



#18
trans-1,2-Dichloroethene
Concen: 5.356 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.01 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.7	88.8	164.8
98	67.0	43.5	80.9





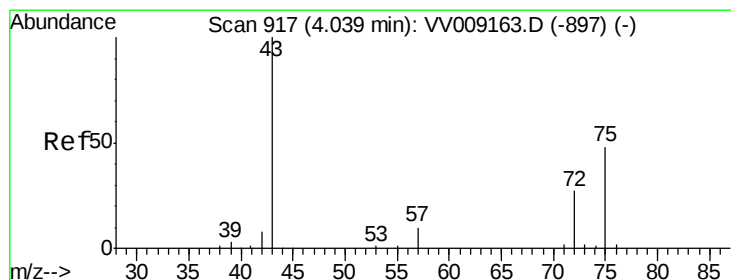
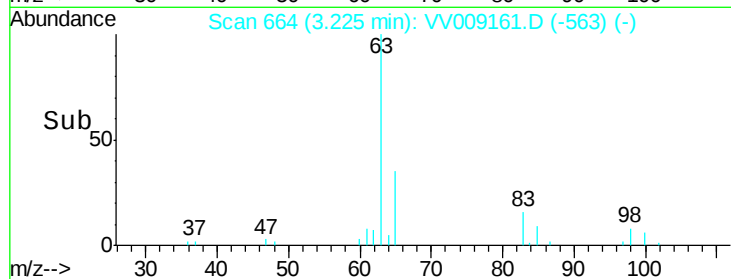
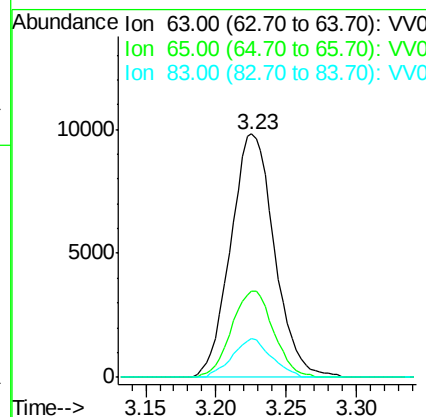
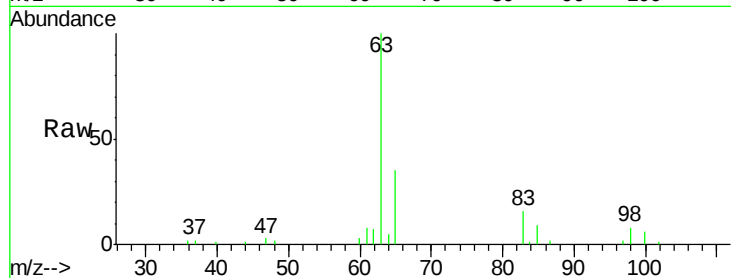
#19
 1,1-Dichloroethane
 Concen: 5.166 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.01 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Tot Ion	Ratio	Lower	Upper
63	100		
65	35.2	22.6	42.0
83	16.1	9.9	18.3

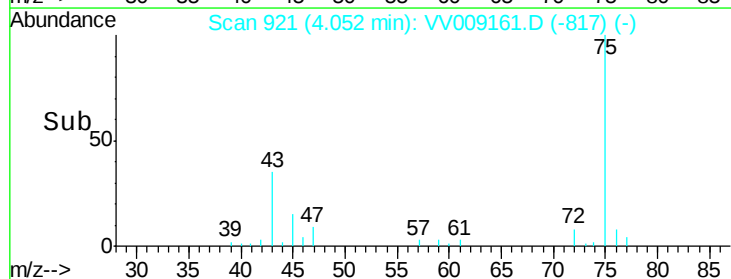
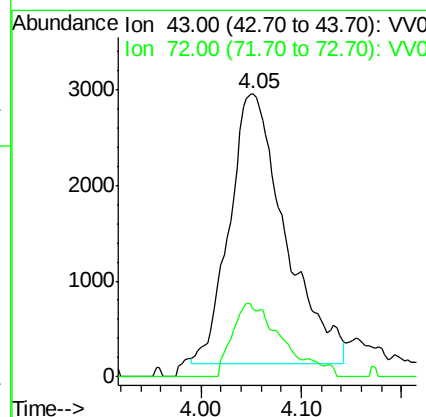
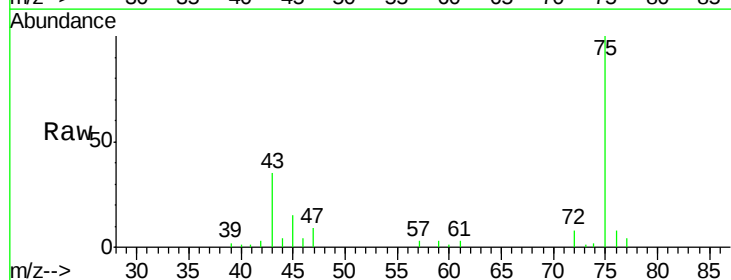
Manual Integrations
 APPROVED

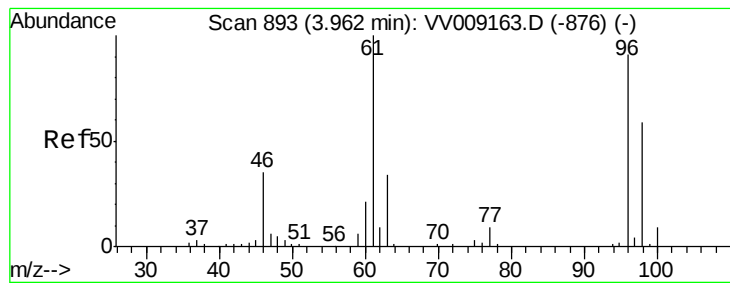
MMDadoda
 1/8/2019 12:00:09 AM



#21
 2-Butanone
 Concen: 9.194 ug/L m
 RT: 4.05 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.5	0.1	0.1#





#22

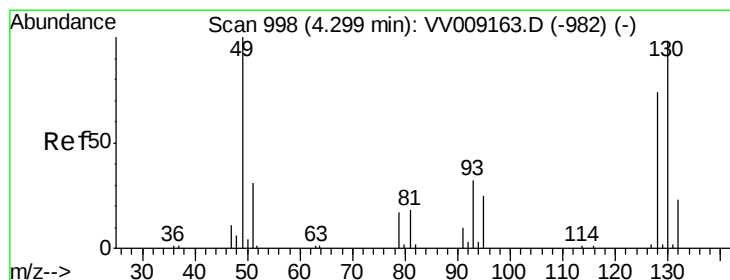
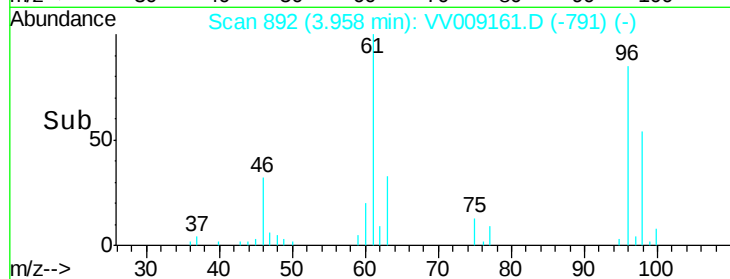
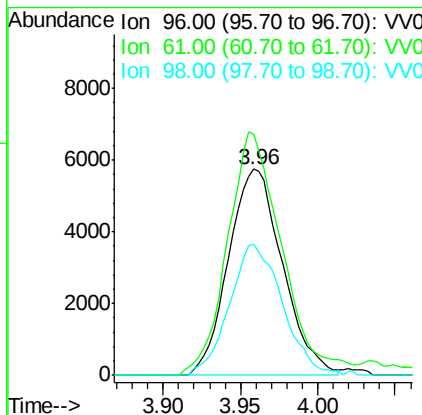
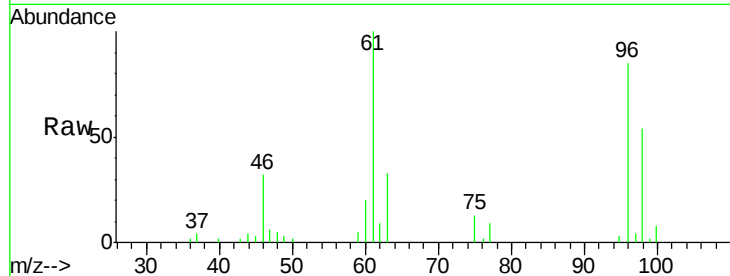
cis-1,2-Dichloroethene
 Concen: 5.260 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.01 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Tot Ion	Ratio	Lower	Upper
96	100		
61	117.2	83.2	154.6
98	63.6	45.8	85.2

Manual Integrations
 APPROVED

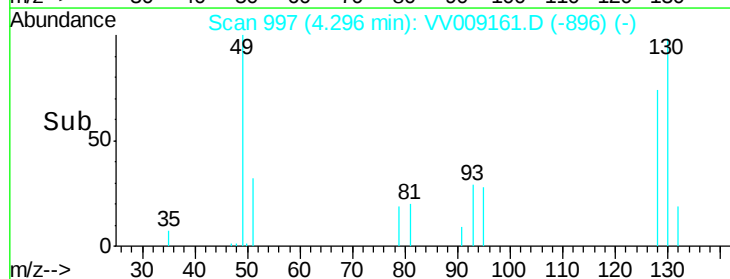
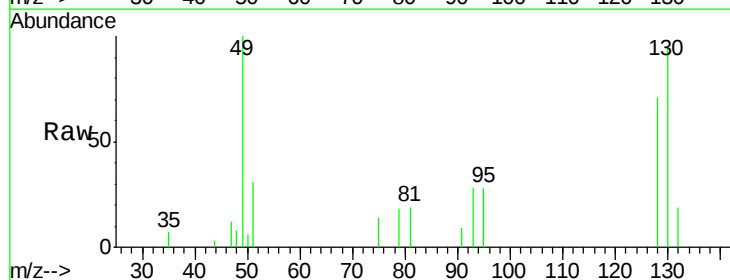
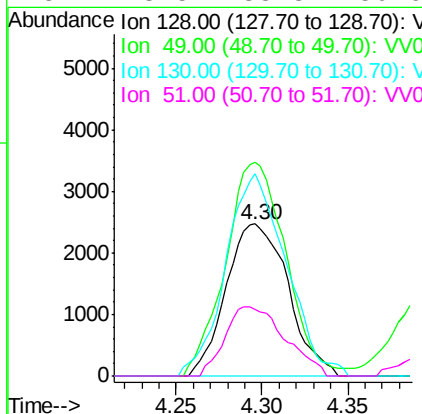
MMDadoda
 1/8/2019 12:00:09 AM

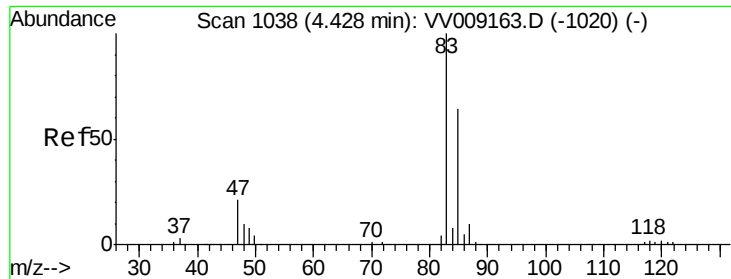


#23

Bromochloromethane
 Concen: 4.959 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.01 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Tgt Ion	Ratio	Lower	Upper
128	100		
49	140.5	89.9	167.0
130	133.0	87.8	163.2
51	43.5	33.8	50.6





#25

Chloroform

Concen: 5.128 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

Tot Ion: 83 Resp: 22484

Ion Ratio Lower Upper

83 100

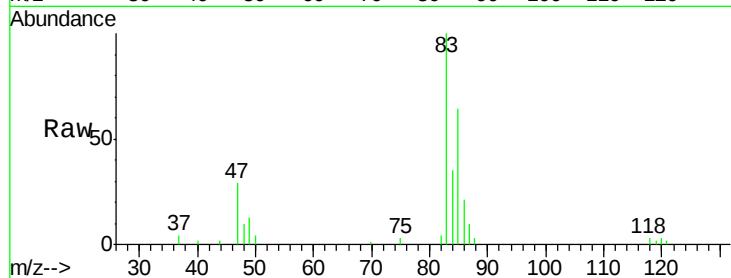
85 64.1 45.3 84.1

Manual Integrations

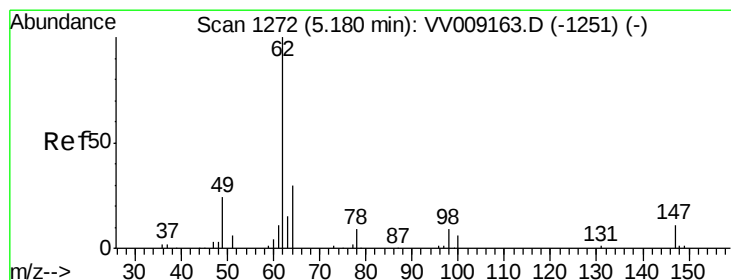
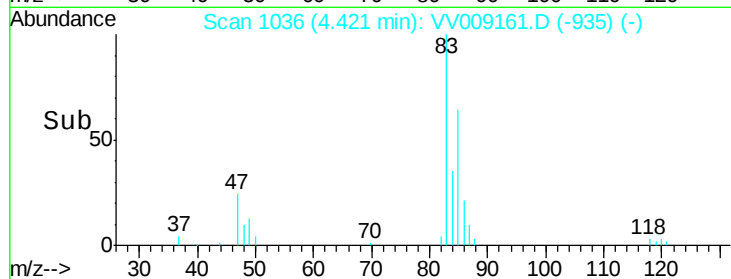
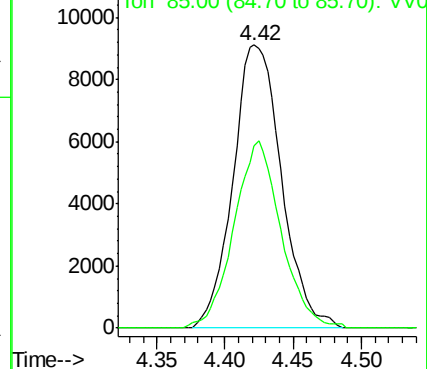
APPROVED

MMDadoda

1/8/2019 12:00:09 AM



Abundance Ion 83.00 (82.70 to 83.70): VV009161.D (-935) (-)



#27

1,2-Dichloroethane

Concen: 5.217 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VV009161.D

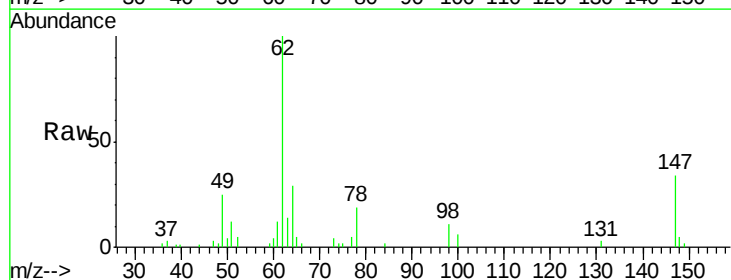
Acq: 04 Jan 2019 14:41

Tgt Ion: 62 Resp: 15363

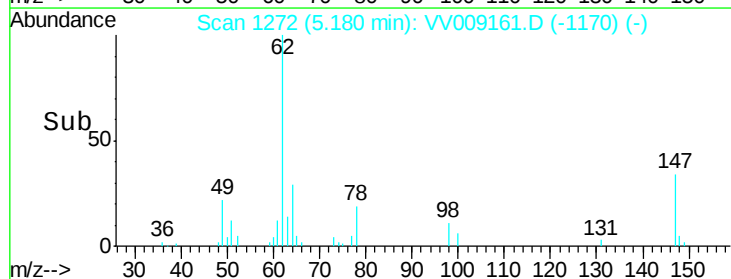
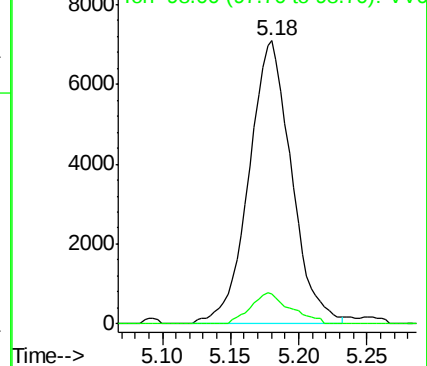
Ion Ratio Lower Upper

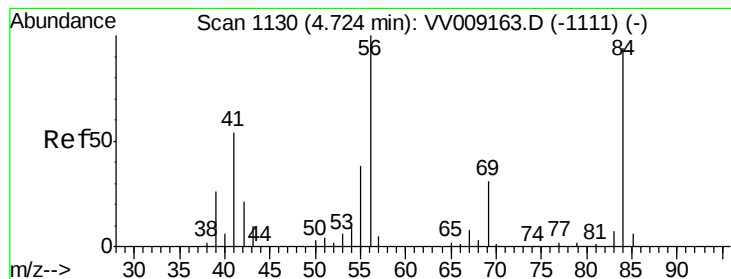
62 100

98 10.5 8.1 12.1



Abundance Ion 62.00 (61.70 to 62.70): VV009161.D (-1170) (-)





#30

Cyclohexane

Concen: 5.287 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

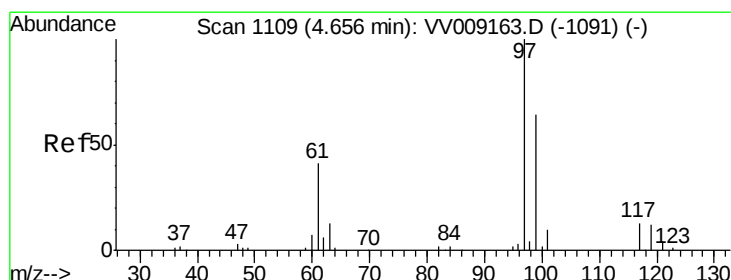
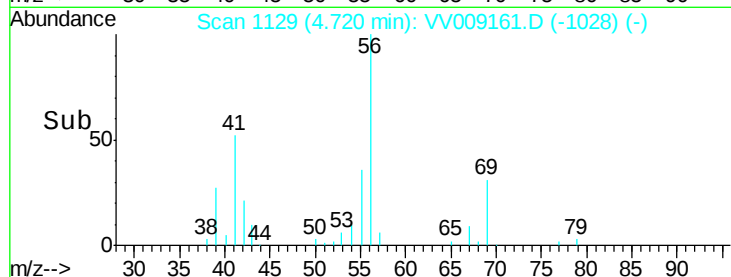
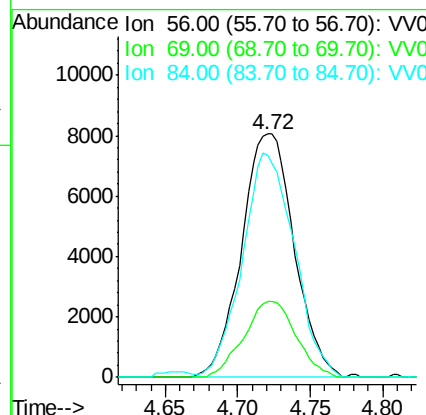
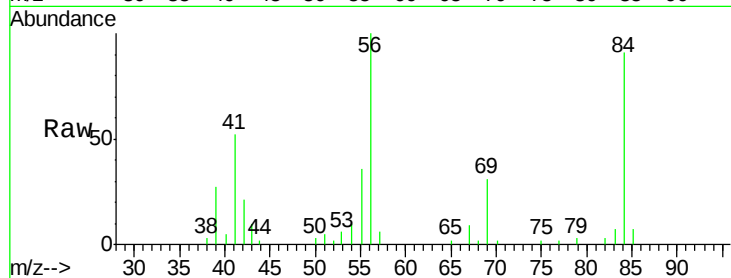
ClientSampleId :

VSTD00568

Tot Ion:	56	Resp:	20348
Ion	Ratio	Lower	Upper
56	100		
69	30.9	26.0	39.0
84	90.8	77.0	115.4

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:09 AM



#31

1,1,1-Trichloroethane

Concen: 5.067 ug/L

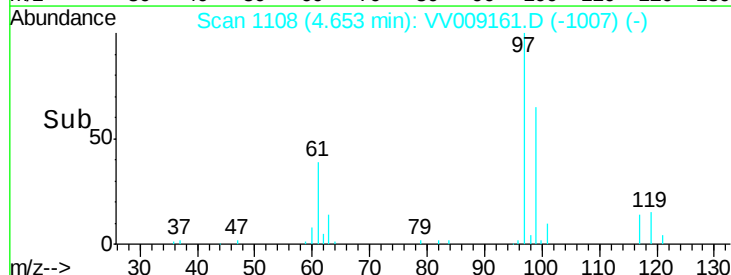
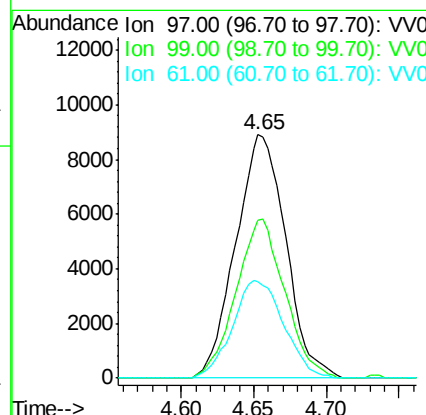
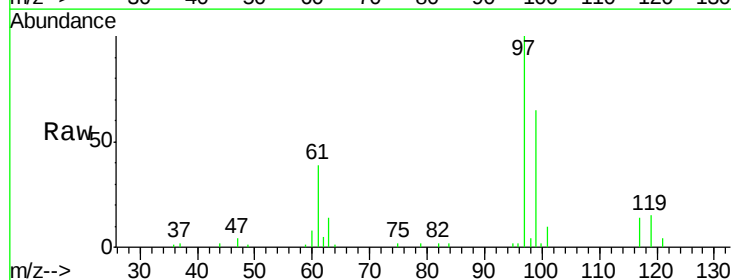
RT: 4.65 min Scan# 1108

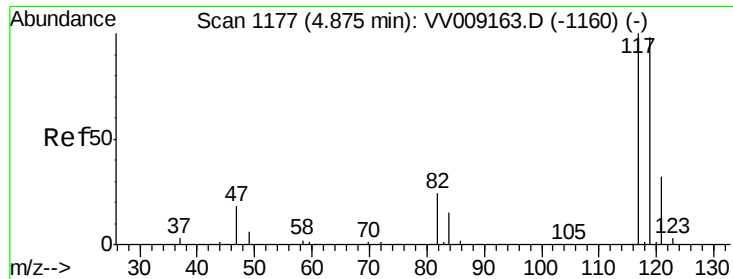
Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Tgt Ion:	97	Resp:	21385
Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.2	76.8
61	41.0	31.8	47.6





#32

Carbon tetrachloride

Concen: 5.121 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

Tot Ion:117 Resp: 19784

Ion Ratio Lower Upper

117 100

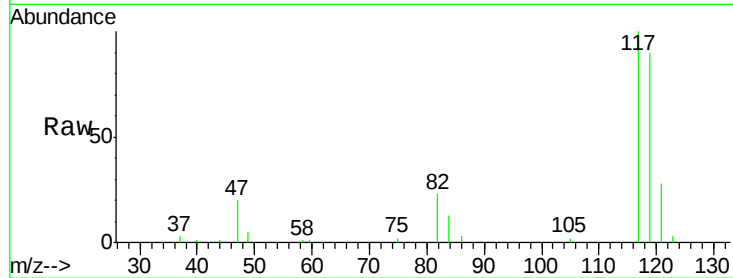
119 93.3 76.6 115.0

Manual Integrations

APPROVED

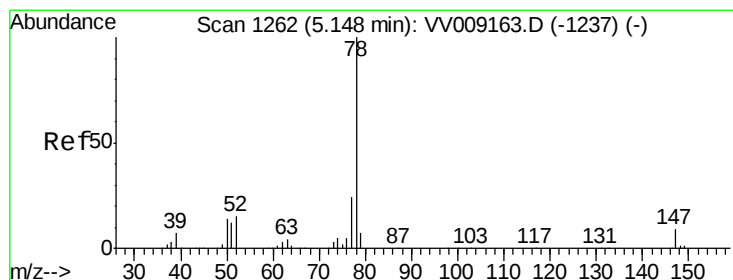
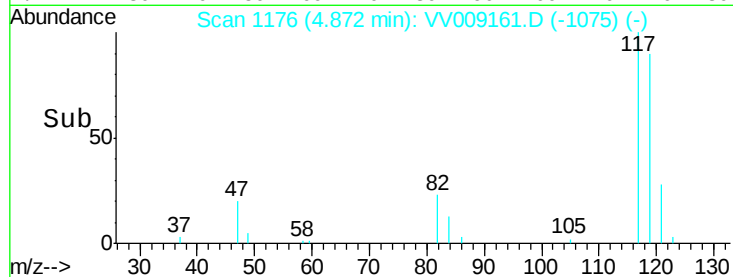
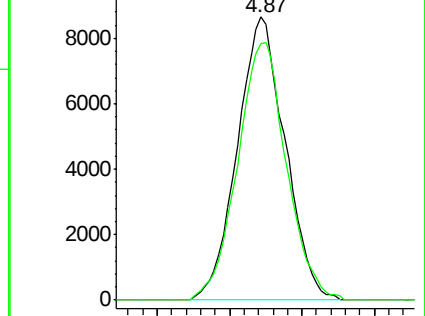
MMDadoda

1/8/2019 12:00:09 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 5.086 ug/L

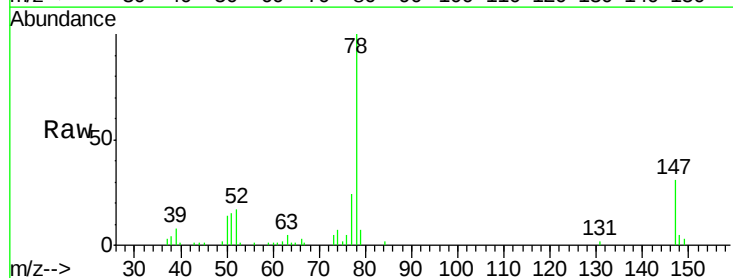
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

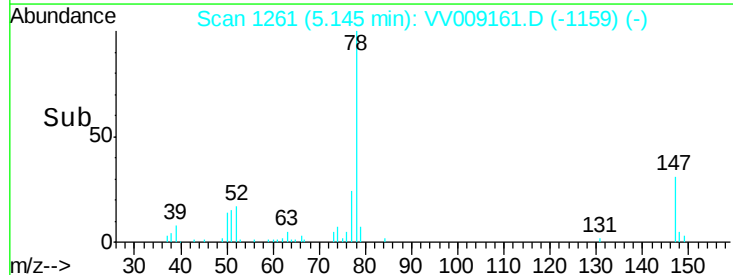
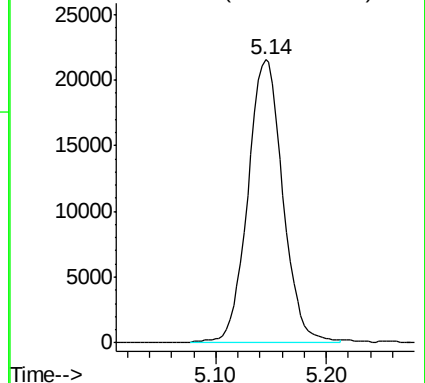
Lab File: VV009161.D

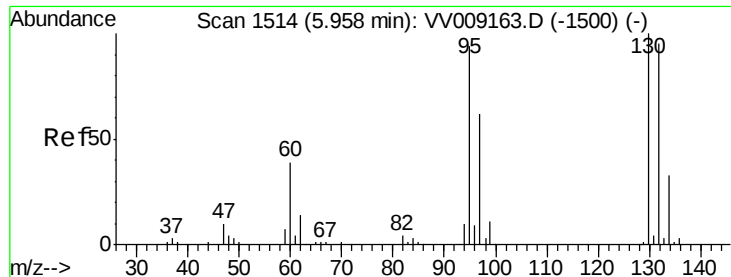
Acq: 04 Jan 2019 14:41

Tgt Ion: 78 Resp: 47465



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 5.128 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

Tot Ion: 95 Resp: 13787

Ion Ratio Lower Upper

95 100

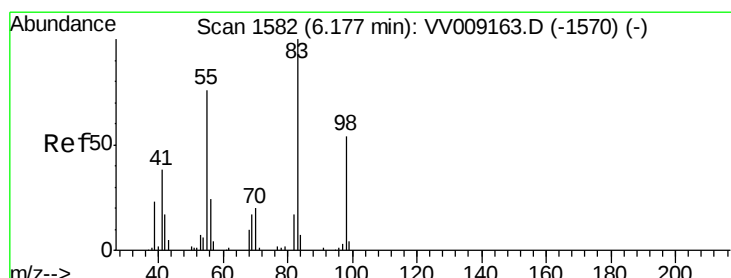
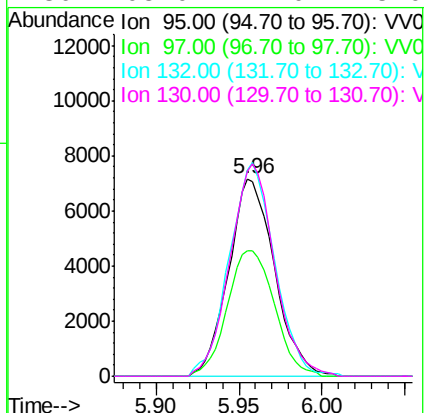
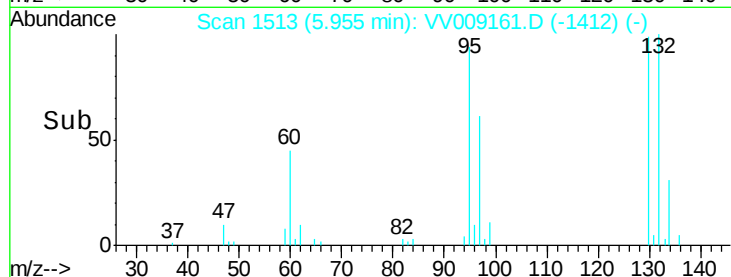
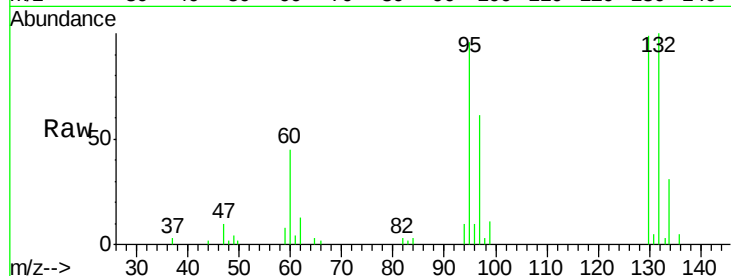
97 65.3 46.2 85.8

132 106.3 73.9 137.3

130 105.0 77.0 143.0

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:09 AM



#36

Methylcyclohexane

Concen: 5.295 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

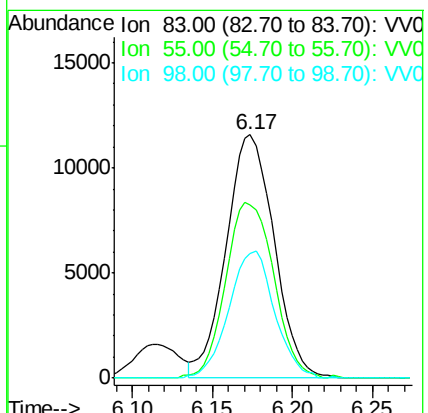
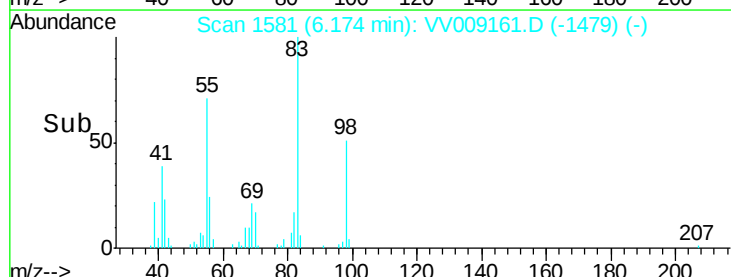
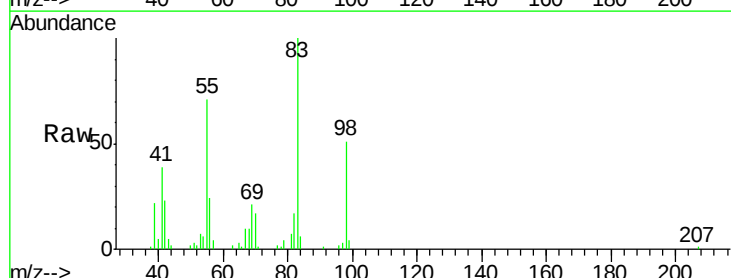
Tgt Ion: 83 Resp: 23787

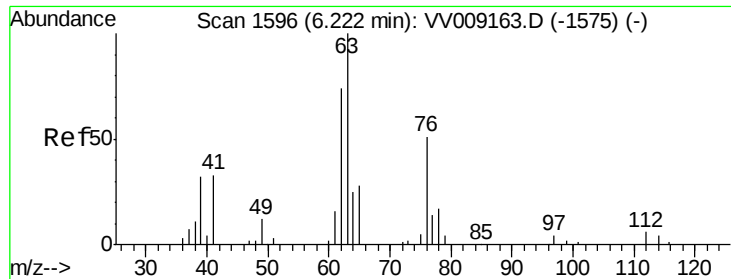
Ion Ratio Lower Upper

83 100

55 72.2 58.5 87.7

98 49.3 41.4 62.0





#40

1,2-Dichloropropane

Concen: 4.947 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampled :

VSTD00568

Tot Ion: 63 Resp: 11128

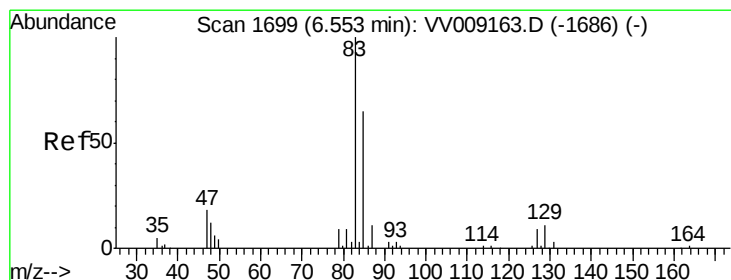
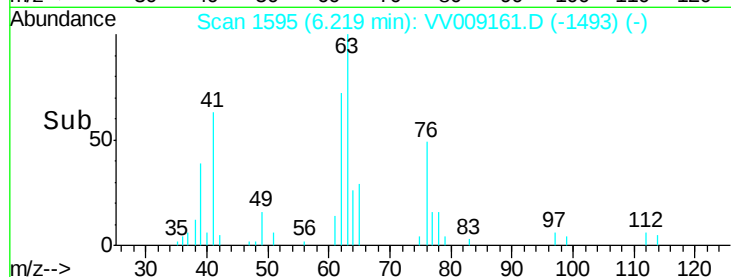
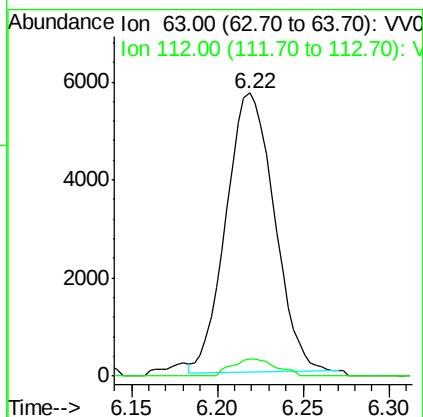
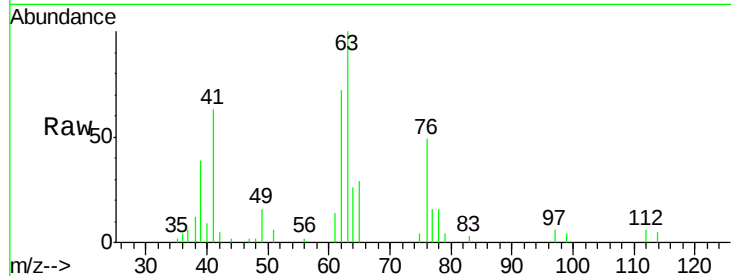
Ion Ratio Lower Upper

63 100

112 5.6 3.9 5.9

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:09 AM



#41

Bromodichloromethane

Concen: 4.845 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

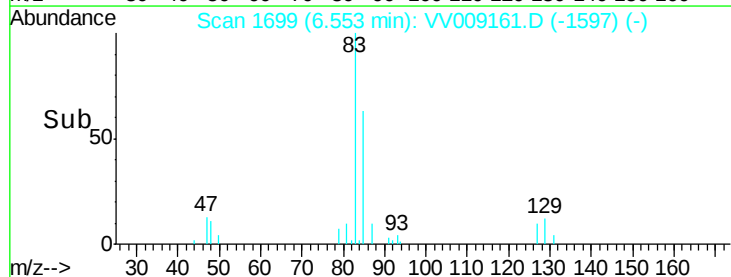
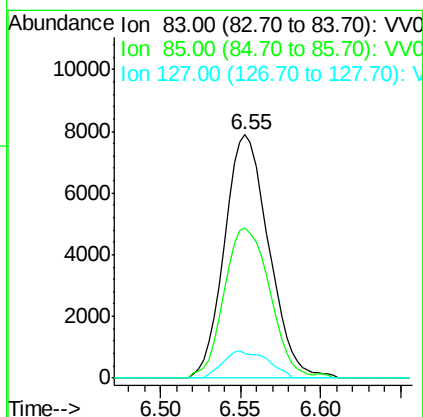
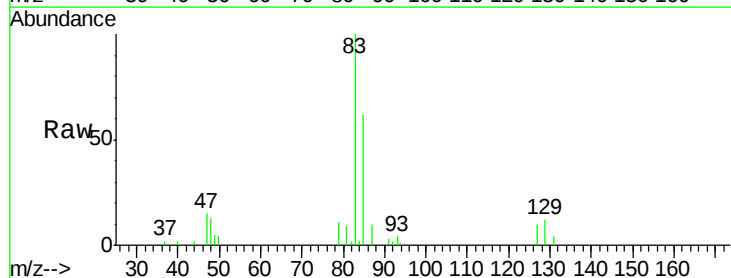
Tgt Ion: 83 Resp: 14938

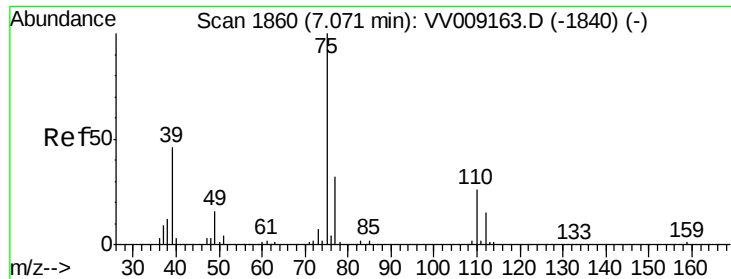
Ion Ratio Lower Upper

83 100

85 61.7 45.3 84.1

127 10.1 7.8 11.6





#42

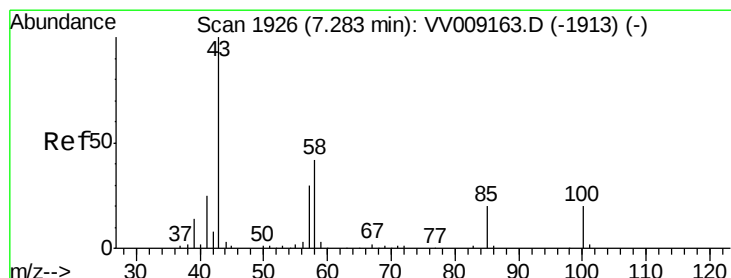
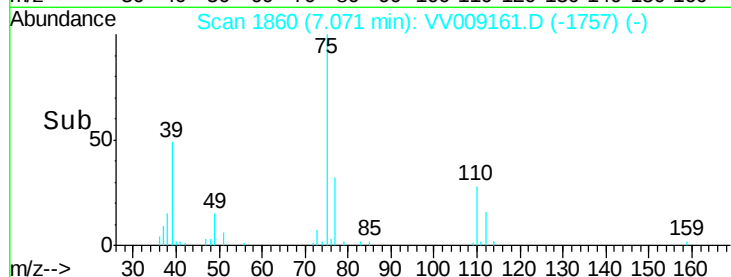
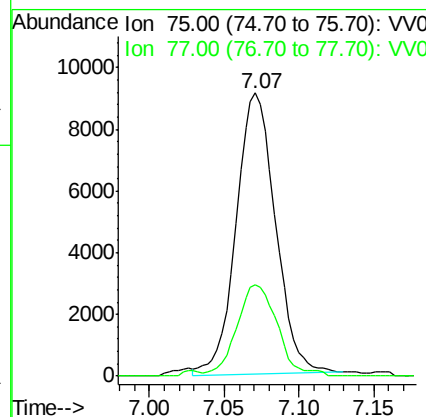
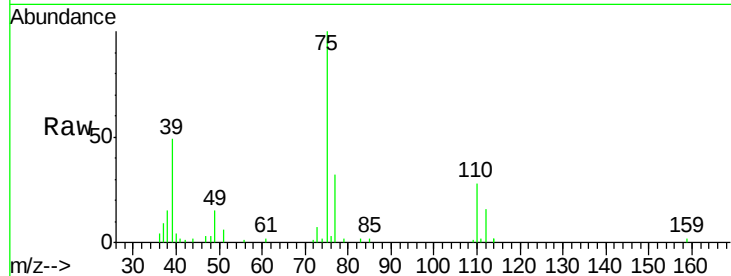
cis-1,3-Dichloropropene
Concen: 4.684 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.5	22.8	42.4

Manual Integrations
APPROVED

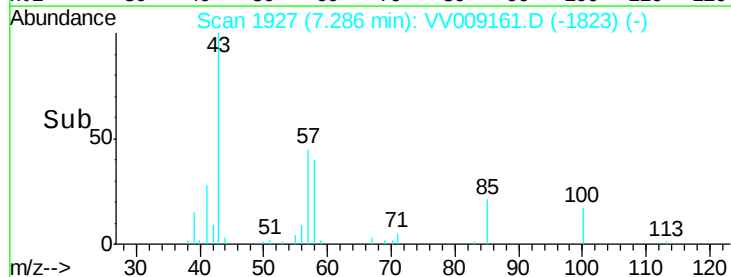
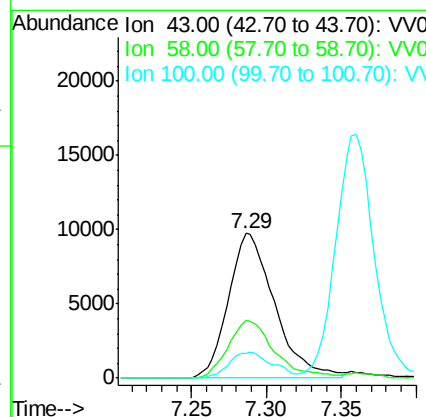
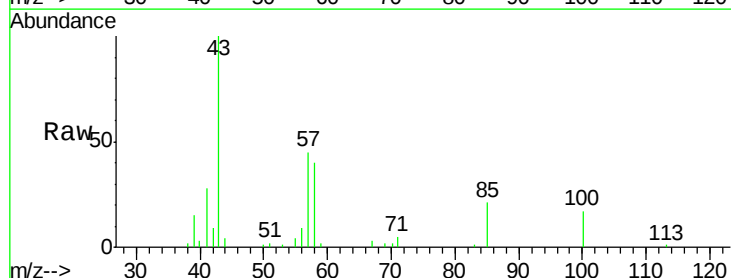
MMDadoda
1/8/2019 12:00:09 AM

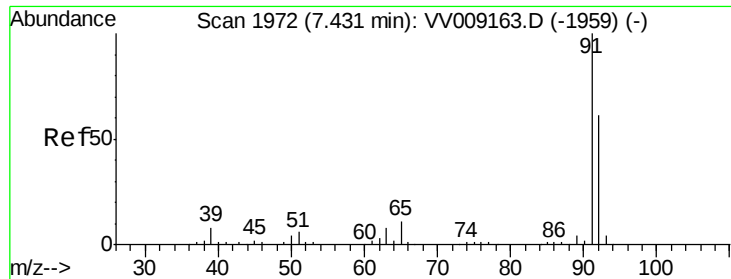


#43

4-Methyl-2-pentanone
Concen: 9.798 ug/L
RT: 7.29 min Scan# 1927
Delta R.T. 0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.9	33.4	50.2
100	16.9	15.2	22.8





#44

Toluene

Concen: 5.042 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

Tot Ion: 91 Resp: 50738

Ion Ratio Lower Upper

91 100

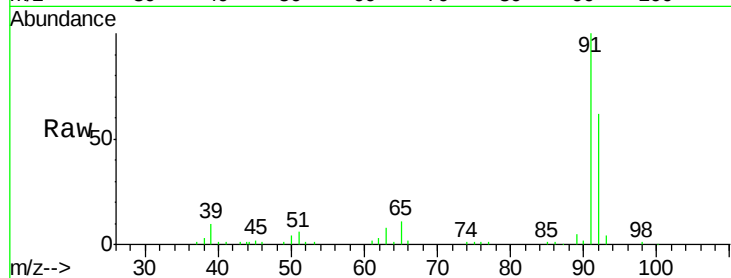
92 62.4 41.7 77.5

Manual Integrations

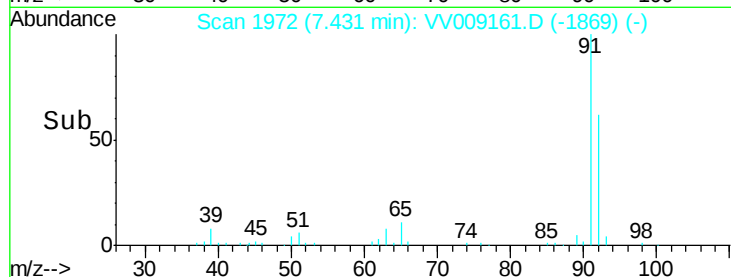
APPROVED

MMDadoda

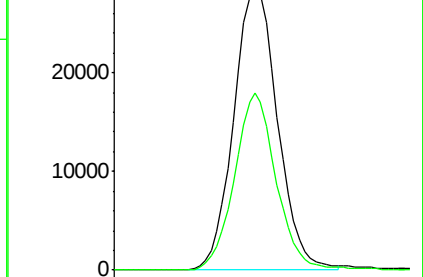
1/8/2019 12:00:09 AM



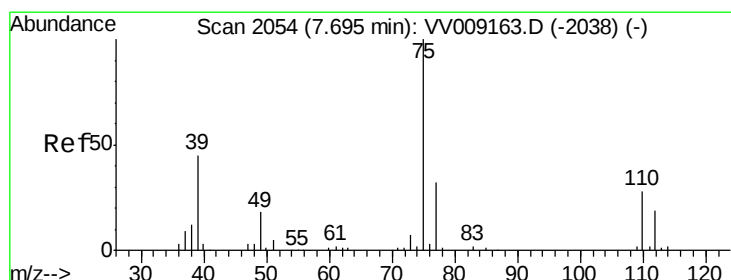
Abundance Ion 91.00 (90.70 to 91.70): VV009161.D (-1869) (-)



Ion 92.00 (91.70 to 92.70): VV009161.D (-1869) (-)



Time-->



#45

trans-1,3-Dichloropropene

Concen: 4.627 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009161.D

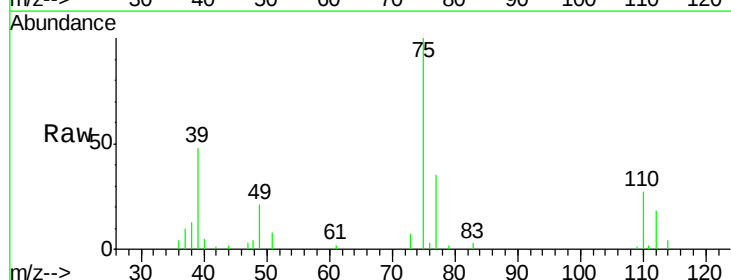
Acq: 04 Jan 2019 14:41

Tgt Ion: 75 Resp: 14441

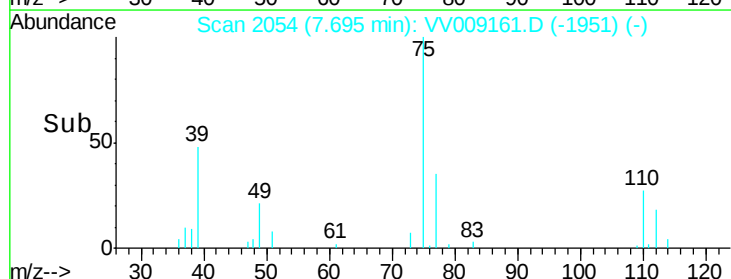
Ion Ratio Lower Upper

75 100

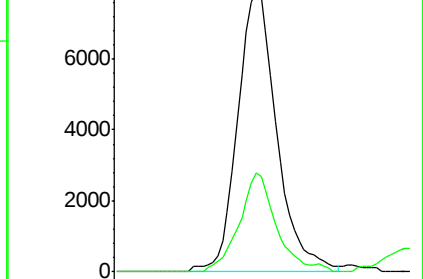
77 34.8 22.3 41.5



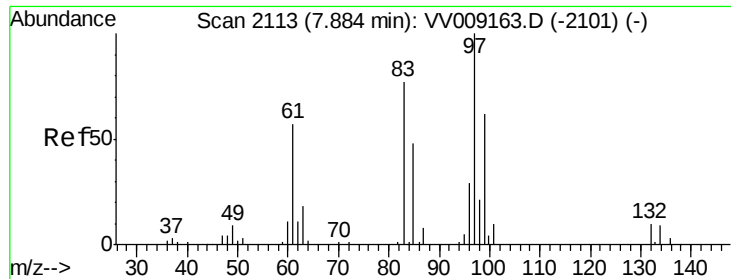
Abundance Ion 75.00 (74.70 to 75.70): VV009161.D (-1951) (-)



Ion 77.00 (76.70 to 77.70): VV009161.D (-1951) (-)



Time-->



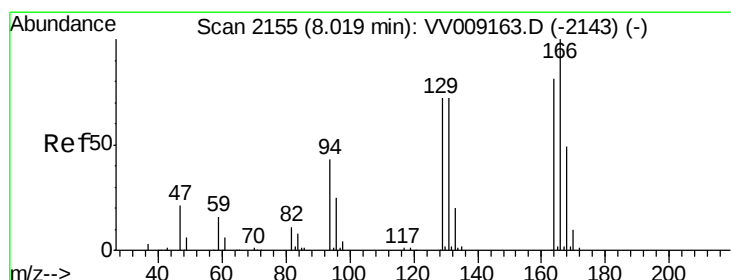
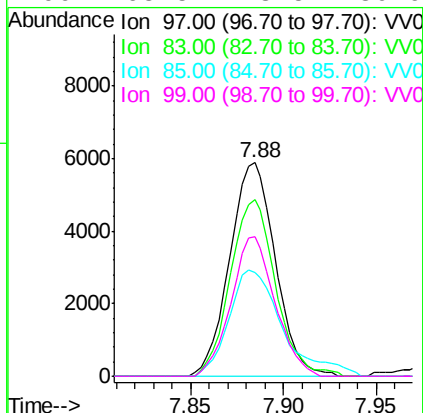
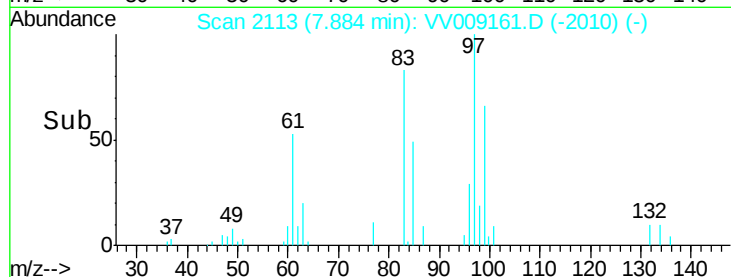
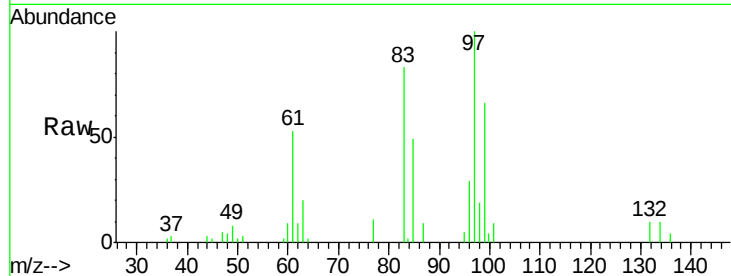
#46
1,1,2-Trichloroethane
Concen: 5.073 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tot Ion:	97	Resp:	10087
Ion	Ratio	Lower	Upper
97	100		
83	82.7	56.0	104.0
85	48.6	36.5	67.9
99	65.5	43.5	80.9

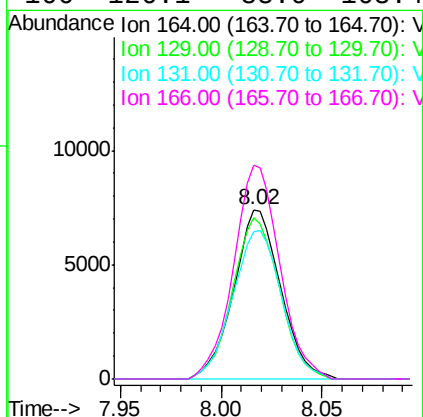
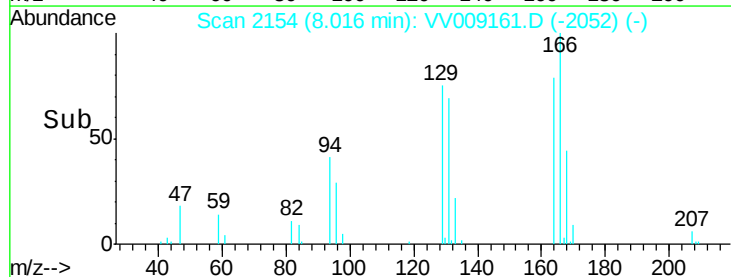
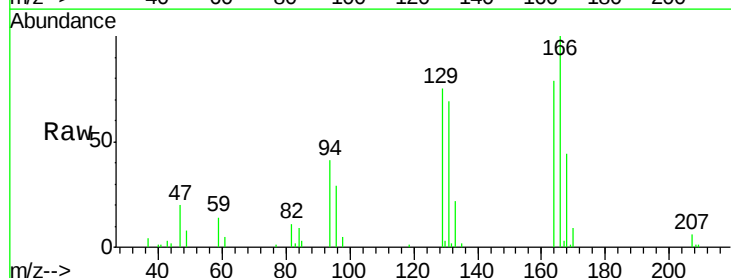
Manual Integrations
APPROVED

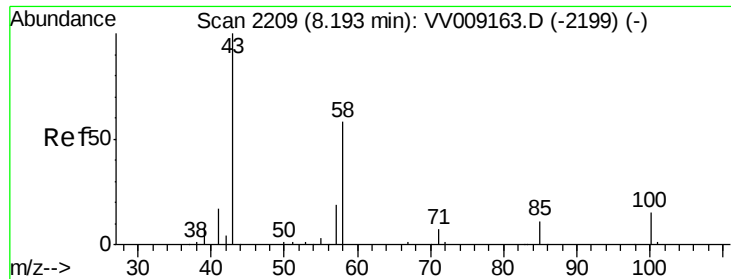
MMDadoda
1/8/2019 12:00:09 AM



#47
Tetrachloroethene
Concen: 5.174 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion:	164	Resp:	12053
Ion	Ratio	Lower	Upper
164	100		
129	94.9	63.5	117.9
131	87.3	63.2	117.4
166	126.1	88.0	163.4





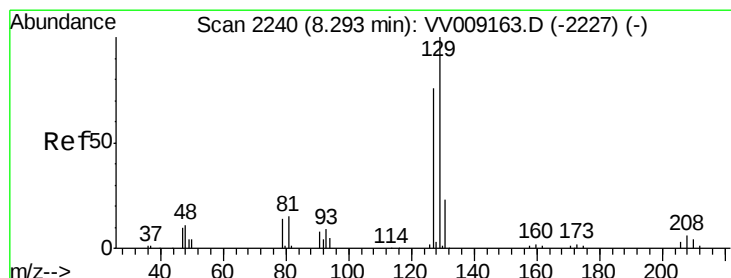
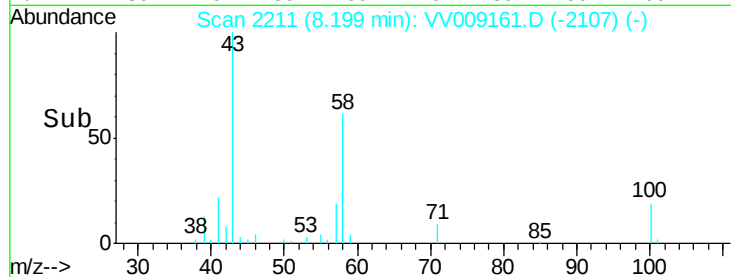
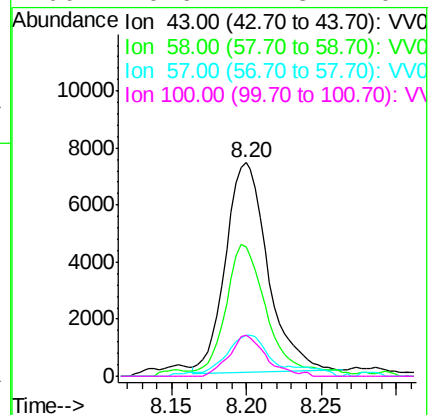
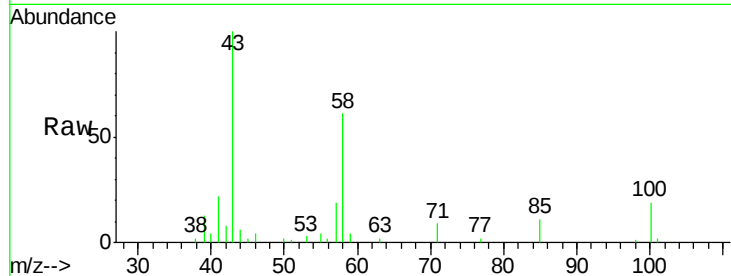
#49
2-Hexanone
Concen: 9.211 ug/L
RT: 8.20 min Scan# 2211
Delta R.T. 0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tot Ion	43	58	57	100
Ratio	100	55.7	17.4	16.6
Lower		46.7	15.5	12.8
Upper		70.1	23.3	19.2

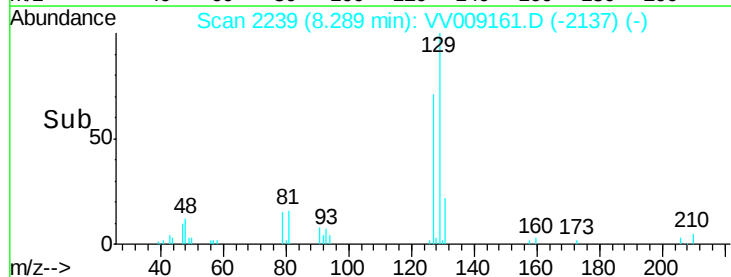
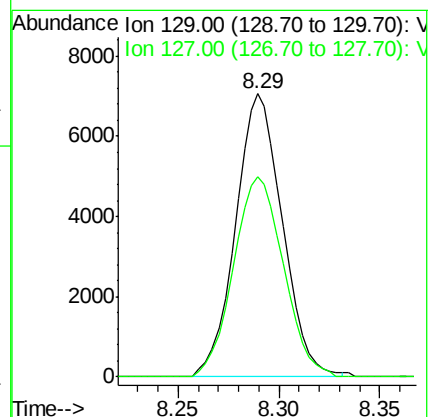
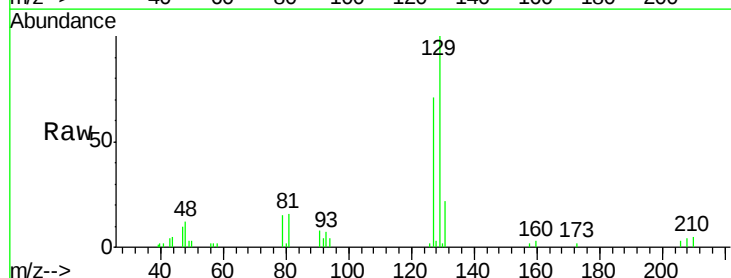
Manual Integrations
APPROVED

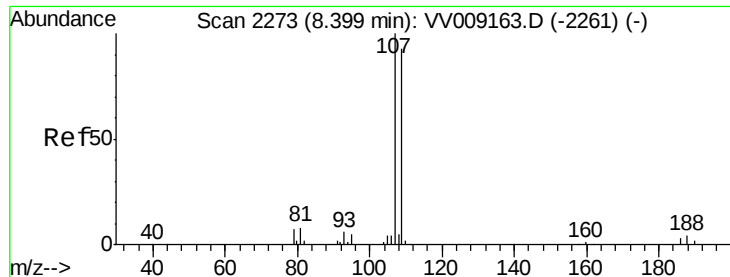
MMDadoda
1/8/2019 12:00:09 AM



#50
Dibromochloromethane
Concen: 4.694 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion	129	127
Ratio	100	70.5
Lower		53.1
Upper		98.7





#51

1,2-Dibromoethane

Concen: 4.879 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

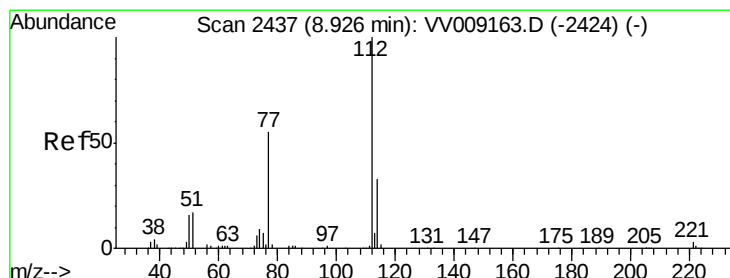
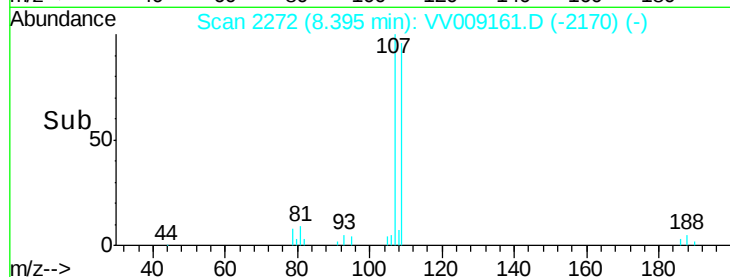
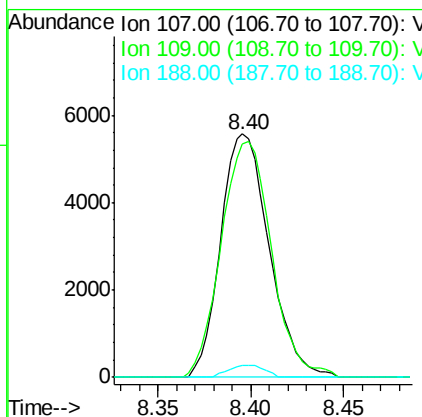
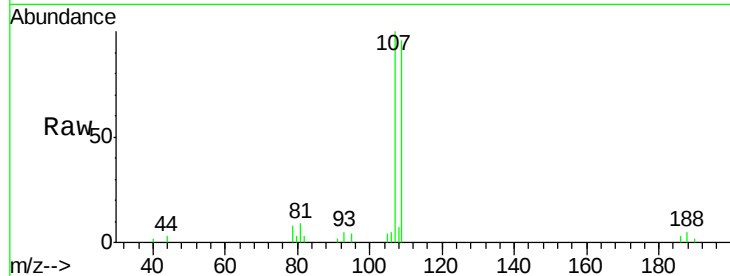
ClientSampleId :

VSTD00568

Tot Ion:	107	Resp:	10143
Ion Ratio	Lower	Upper	
107	100		
109	96.1	63.6	118.0
188	4.9	3.3	4.9

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:09 AM



#52

Chlorobenzene

Concen: 5.076 ug/L

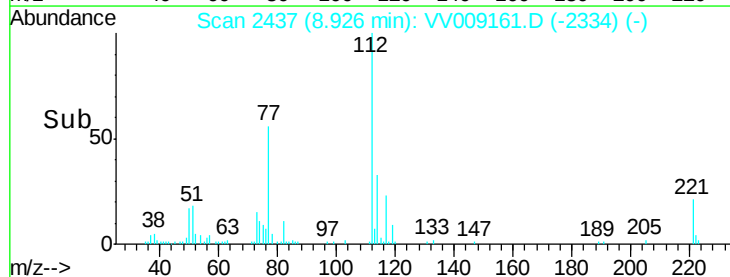
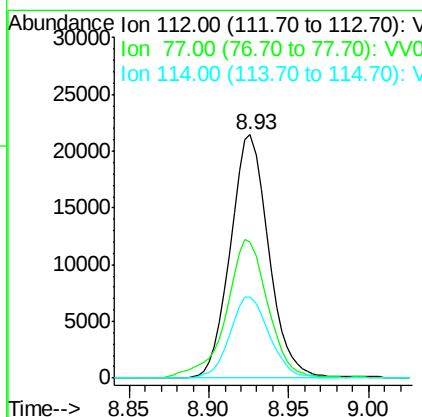
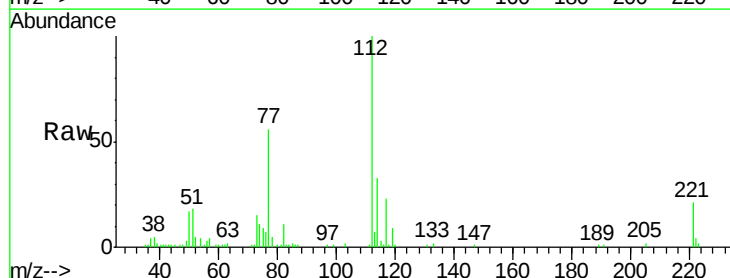
RT: 8.93 min Scan# 2437

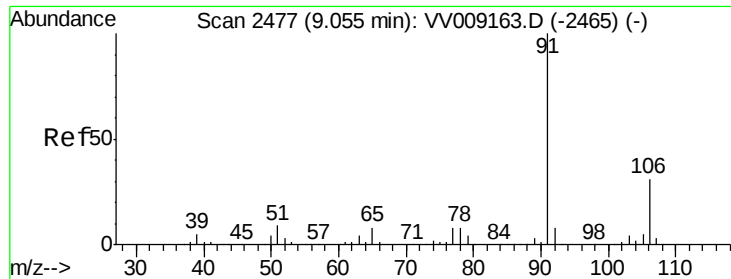
Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Tgt Ion:	112	Resp:	35044
Ion Ratio	Lower	Upper	
112	100		
77	55.8	44.6	66.8
114	33.4	22.5	41.9





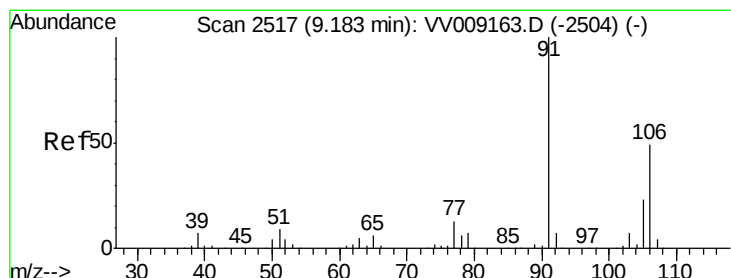
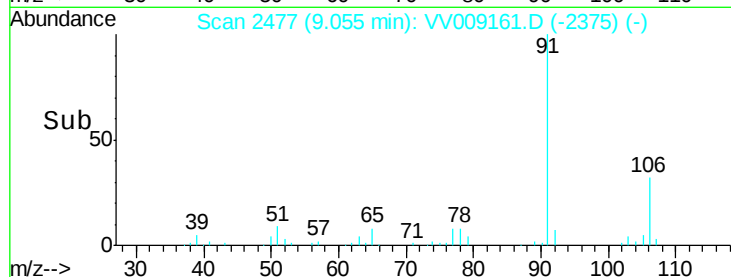
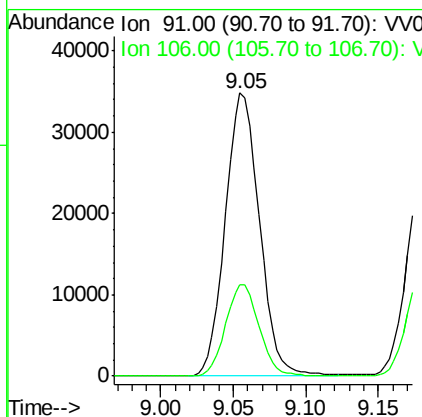
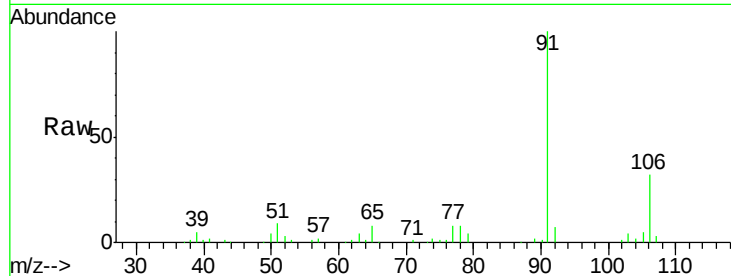
#53
Ethylbenzene
Concen: 5.020 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tot Ion: 91 Resp: 57121
Ion Ratio Lower Upper
91 100
106 32.3 22.5 41.9

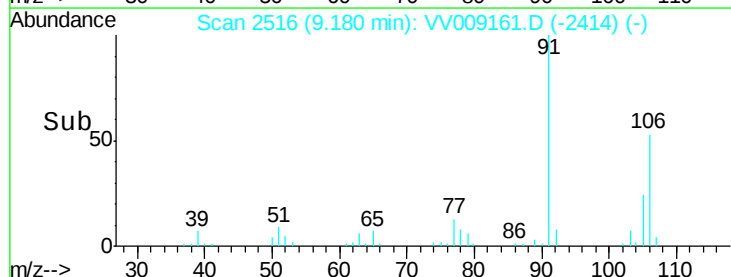
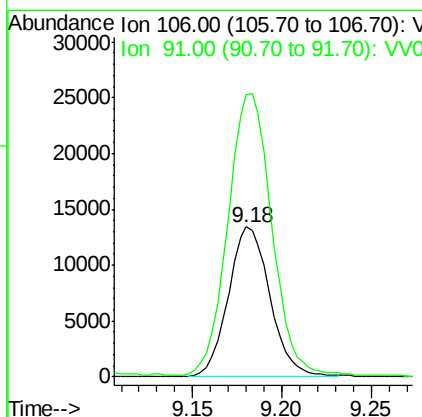
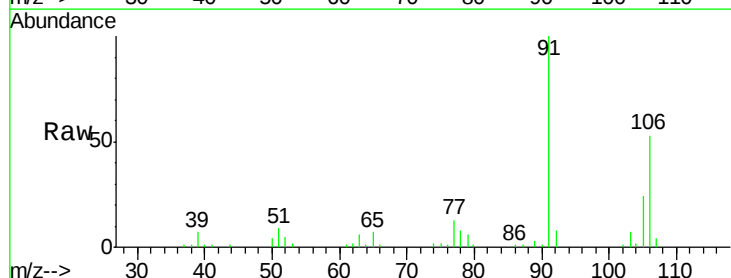
Manual Integrations
APPROVED

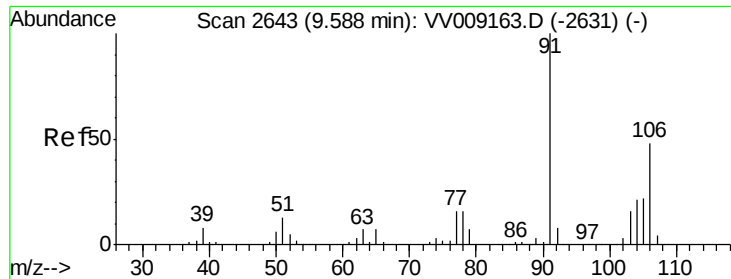
MMDadoda
1/8/2019 12:00:09 AM



#54
m,p-Xylene
Concen: 4.951 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion: 106 Resp: 21948
Ion Ratio Lower Upper
106 100
91 188.2 138.9 257.9





#55

o-xylene

Concen: 4.863 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Tot Ion:106 Resp: 19936

Ion Ratio Lower Upper

106 100

91 209.3 148.7 276.1

Instrument :

MSVOA_V

ClientSampleId :

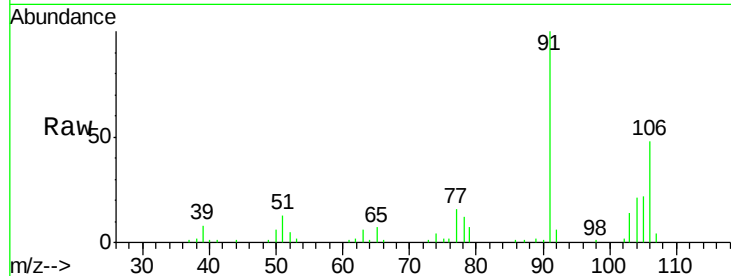
VSTD00568

Manual Integrations

APPROVED

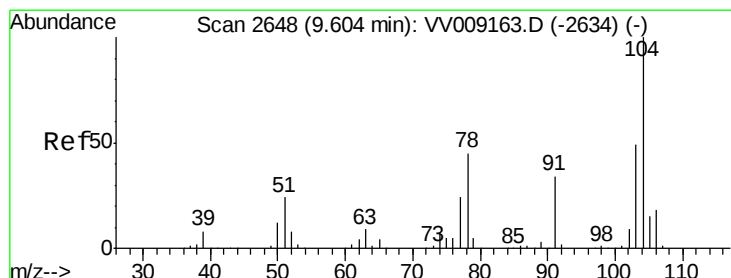
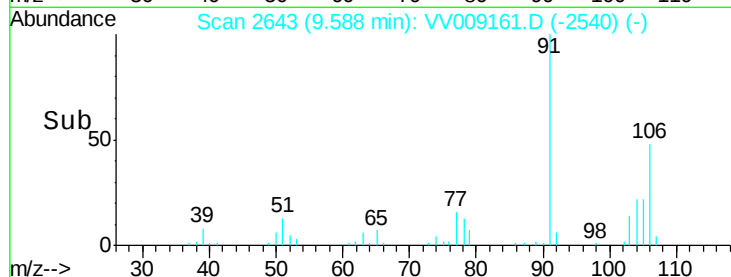
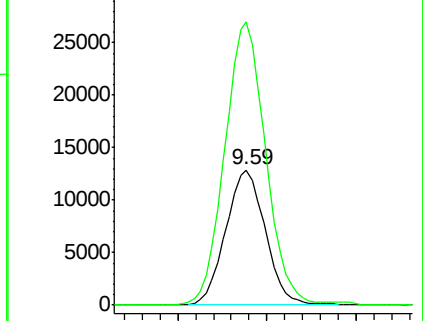
MMDadoda

1/8/2019 12:00:09 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 4.822 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009161.D

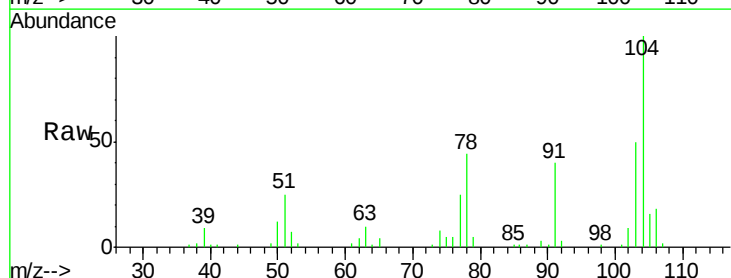
Acq: 04 Jan 2019 14:41

Tgt Ion:104 Resp: 33340

Ion Ratio Lower Upper

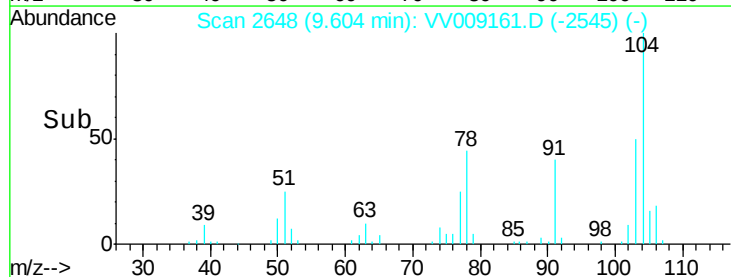
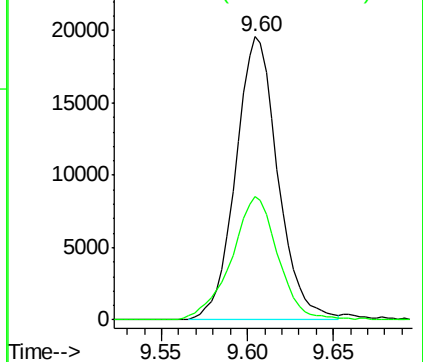
104 100

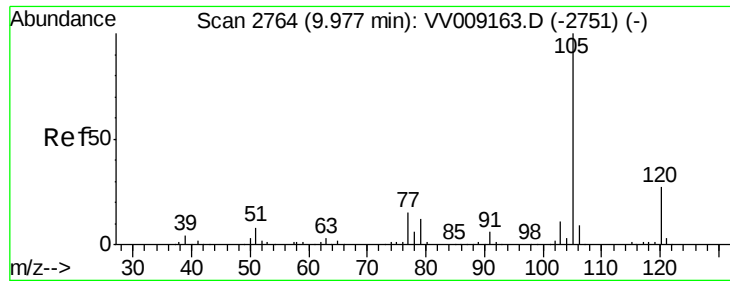
78 43.7 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 4.922 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

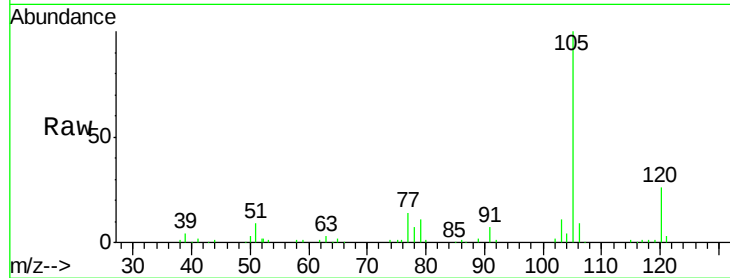
ClientSampleId :

VSTD00568

Tot Ion:	105	Resp:	55977
Ion	Ratio	Lower	Upper
105	100		
120	27.5	21.9	32.9
77	14.8	12.1	18.1

Manual Integrations
APPROVED

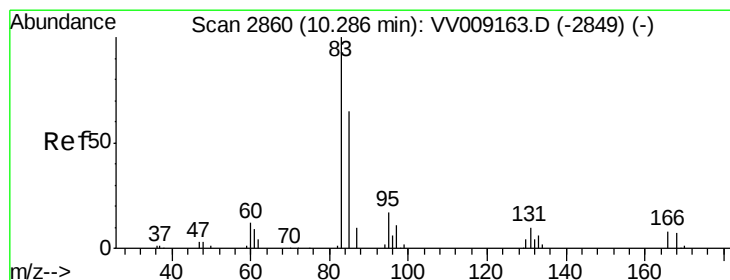
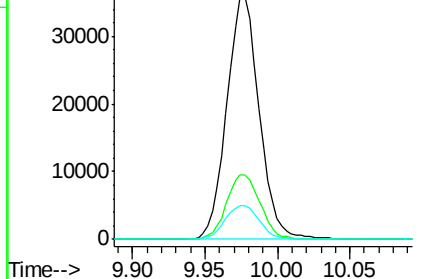
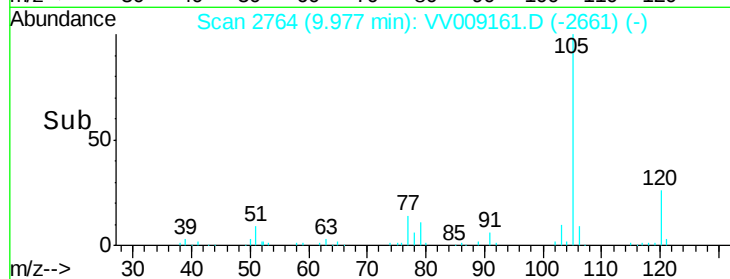
MMDadoda
1/8/2019 12:00:09 AM



Abundance Ion 105.00 (104.70 to 105.70): VV009161.D (-2661) (-)

Ion 120.00 (119.70 to 120.70): VV009161.D (-2661) (-)

Ion 77.00 (76.70 to 77.70): VV009161.D (-2661) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 4.662 ug/L

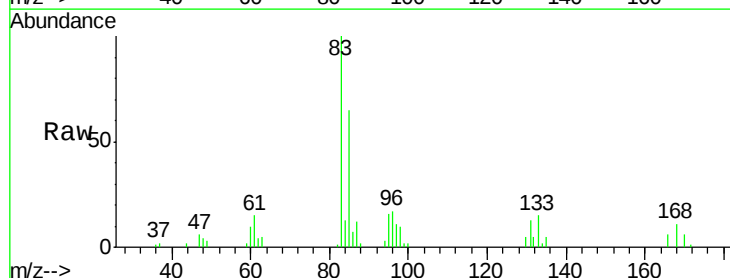
RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

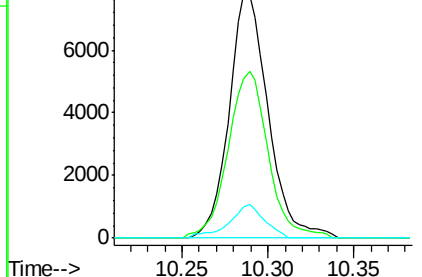
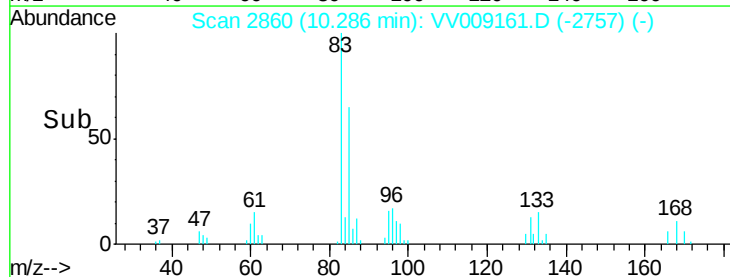
Tgt Ion:	83	Resp:	12420
Ion	Ratio	Lower	Upper
83	100		
85	65.4	45.4	84.2
131	12.9	9.4	14.0

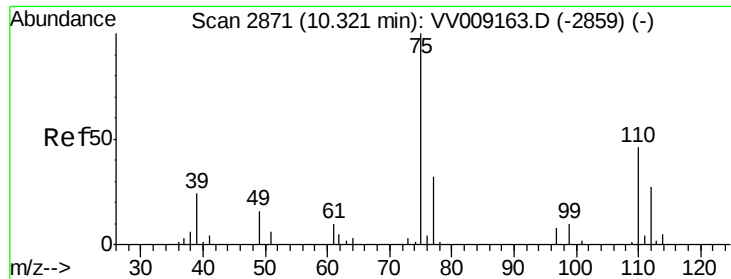


Abundance Ion 83.00 (82.70 to 83.70): VV009161.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV009161.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV009161.D (-2757) (-)





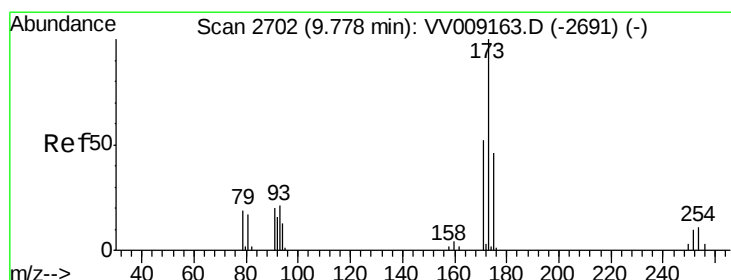
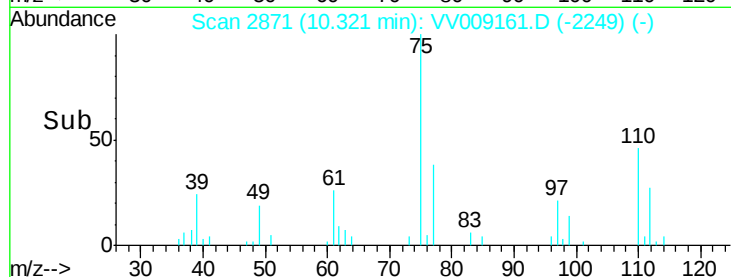
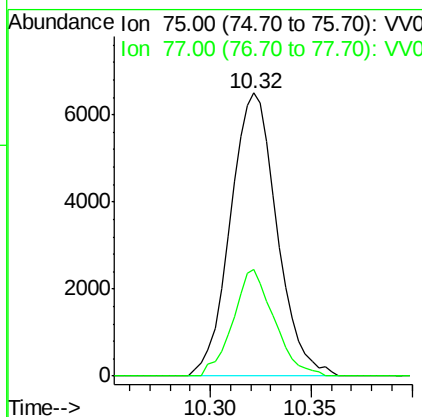
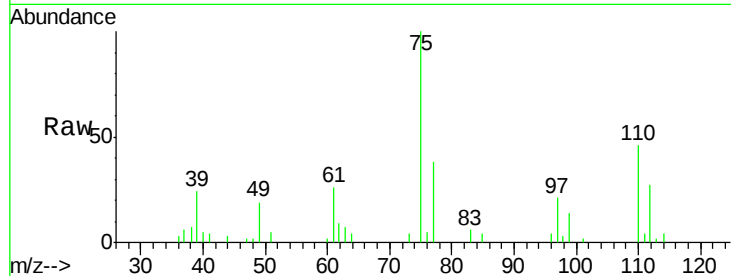
#59
 1,2,3-Trichloropropane
 Concen: 4.928 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Tot Ion: 75 Resp: 10492
 Ion Ratio Lower Upper
 75 100
 77 33.5 25.0 37.6

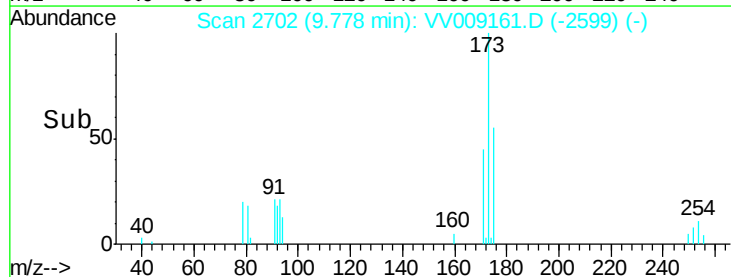
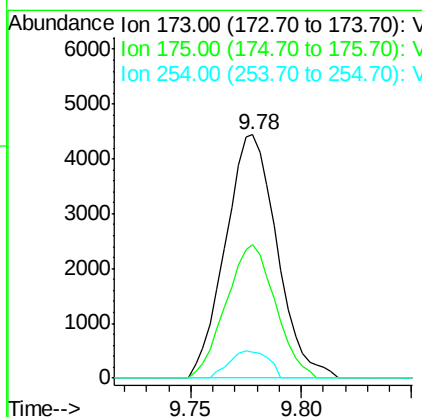
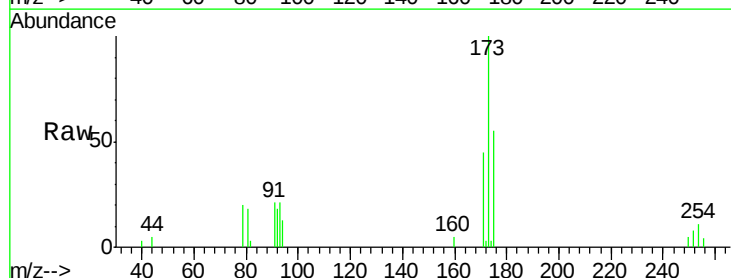
Manual Integrations
 APPROVED

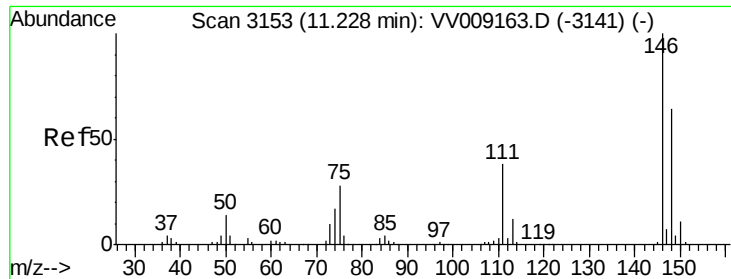
MMDadoda
 1/8/2019 12:00:09 AM



#62
 Bromoform
 Concen: 4.725 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Tgt Ion: 173 Resp: 7198
 Ion Ratio Lower Upper
 173 100
 175 52.4 38.4 57.6
 254 8.5 8.0 12.0





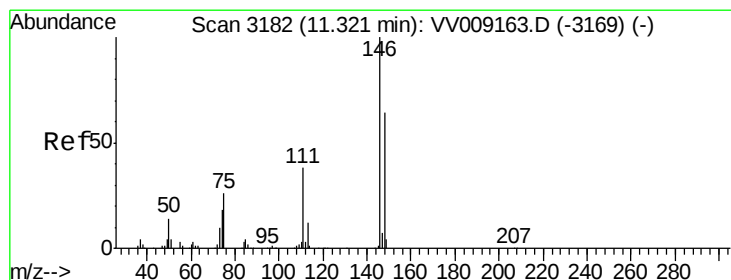
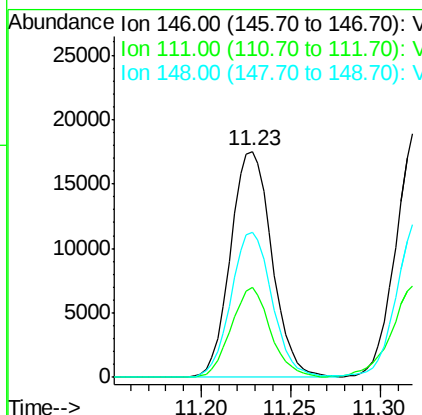
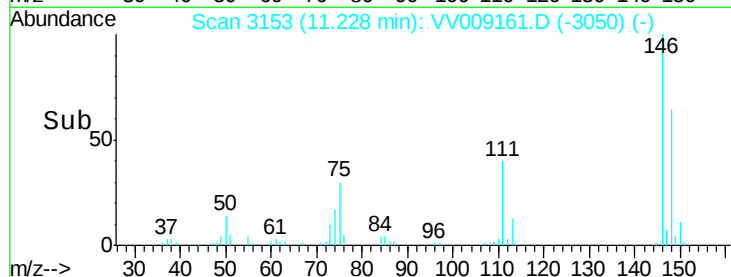
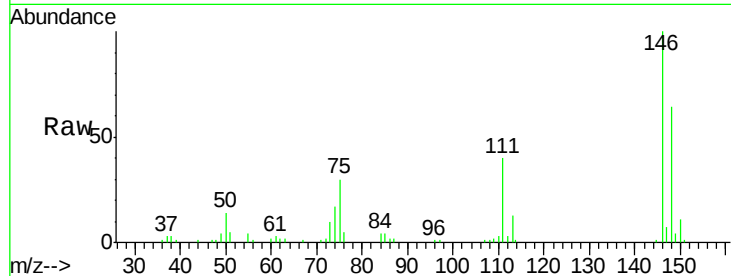
#63
 1,3-Dichlorobenzene
 Concen: 5.221 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	28.0	52.0
148	64.2	45.6	84.8

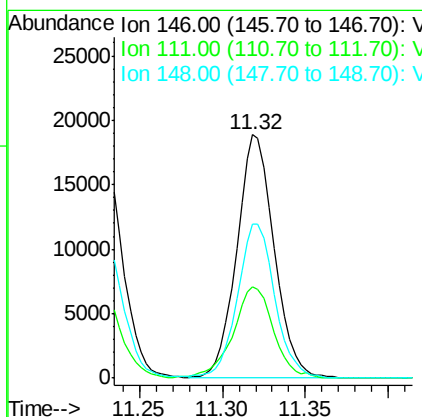
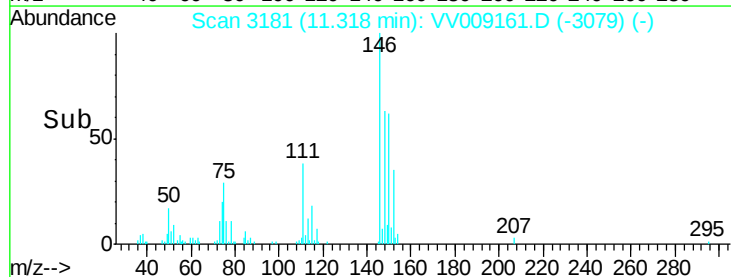
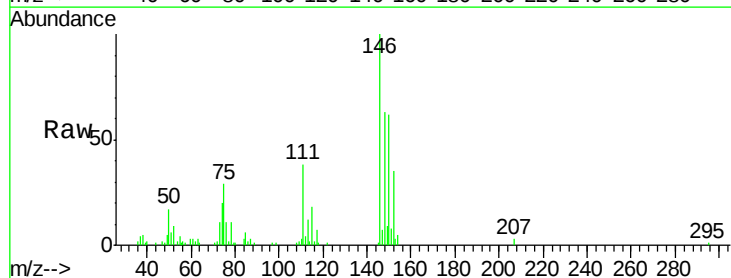
Manual Integrations
 APPROVED

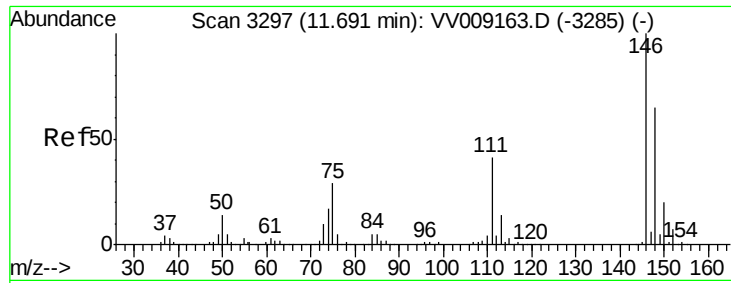
MMDadoda
 1/8/2019 12:00:09 AM



#64
 1,4-Dichlorobenzene
 Concen: 5.215 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	26.0	48.4
148	63.0	43.4	80.6





#65

1,2-Dichlorobenzene

Concen: 5.205 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Instrument :

MSVOA_V

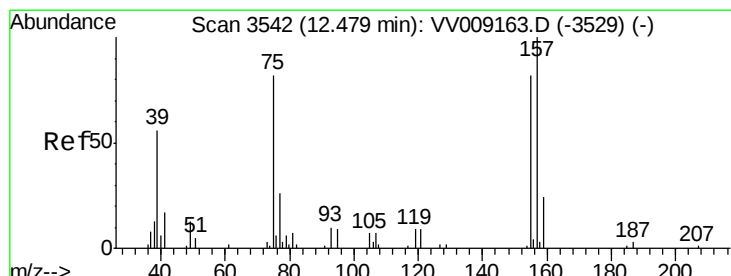
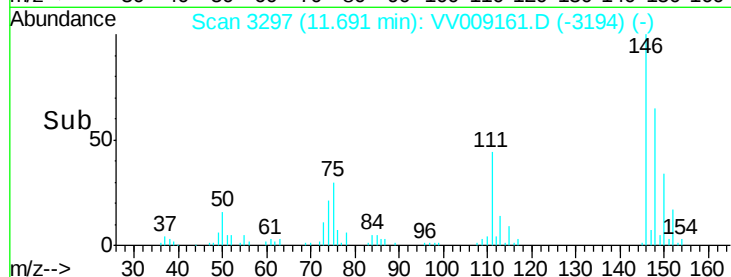
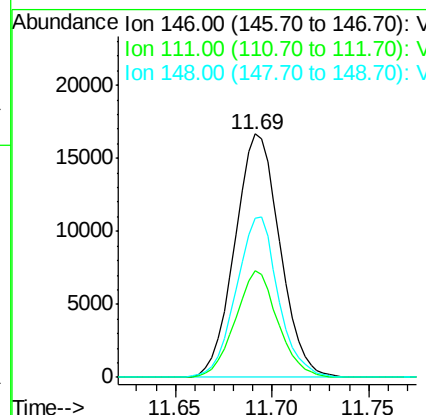
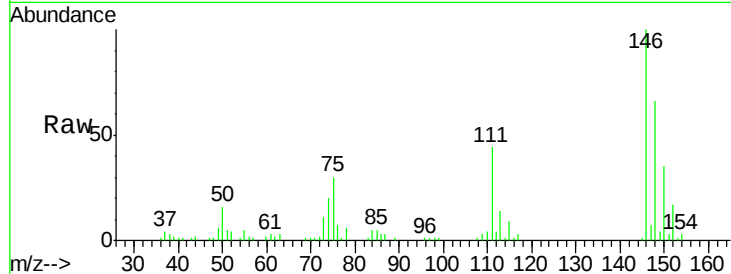
ClientSampleId :

VSTD00568

Tot Ion:	146	Resp:	26950
Ion Ratio	Lower	Upper	
146	100		
111	43.9	32.2	48.4
148	65.6	50.4	75.6

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:09 AM



#66

1,2-Dibromo-3-chloropropane

Concen: 4.502 ug/L

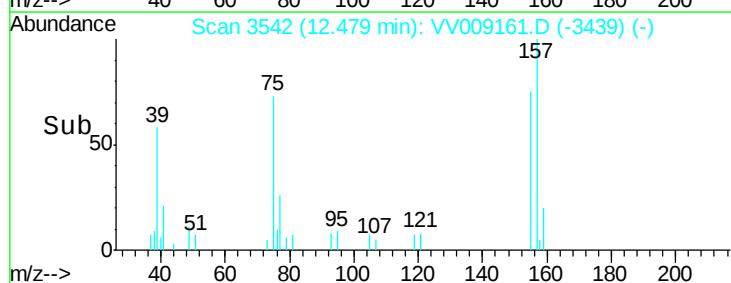
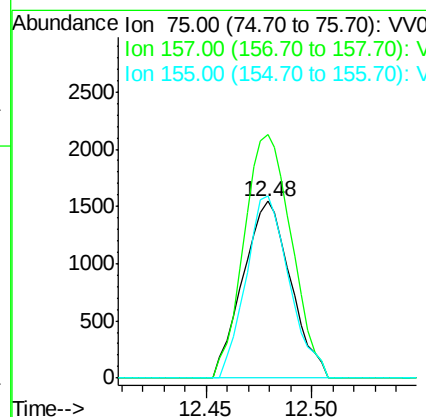
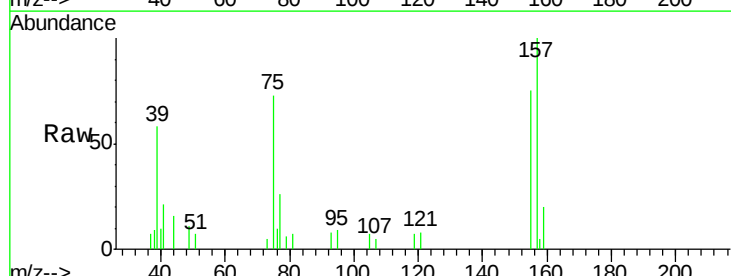
RT: 12.48 min Scan# 3542

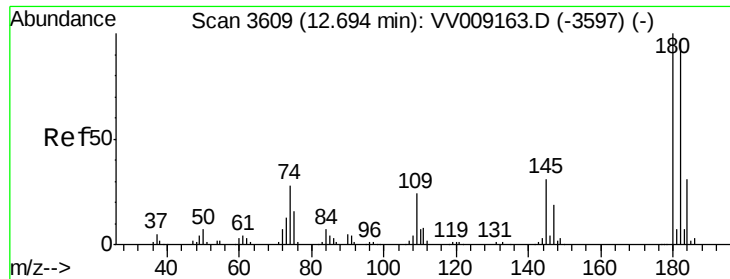
Delta R.T. -0.00 min

Lab File: VV009161.D

Acq: 04 Jan 2019 14:41

Tgt Ion:	75	Resp:	2420
Ion Ratio	Lower	Upper	
75	100		
157	145.1	96.9	145.3
155	103.2	68.0	102.0#





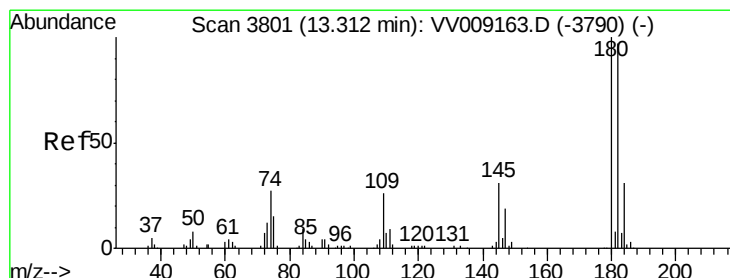
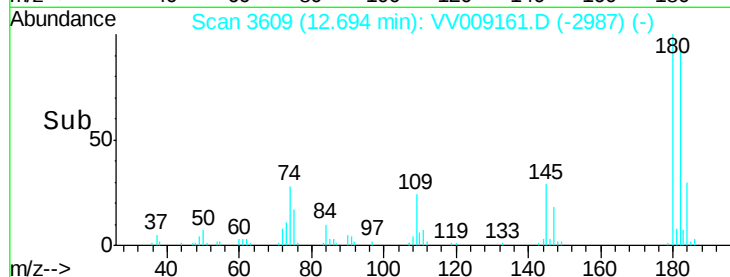
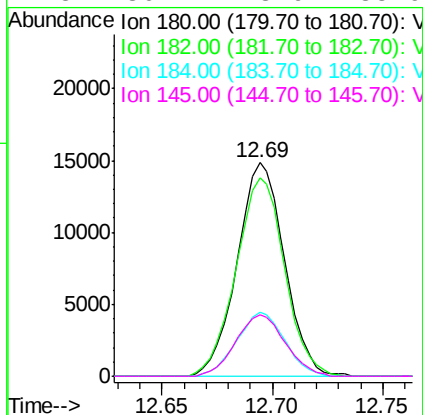
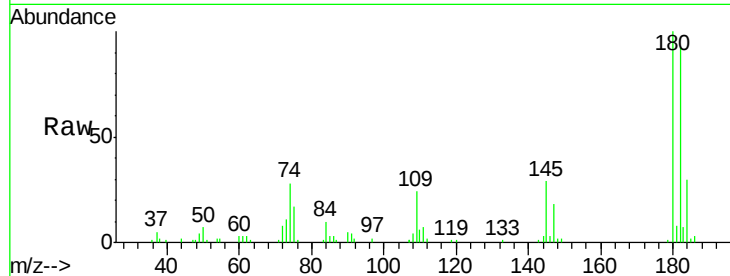
#67
 1,3,5-Trichlorobenzene
 Concen: 5.064 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.3	112.9
184	30.5	24.6	37.0
145	30.2	23.9	35.9

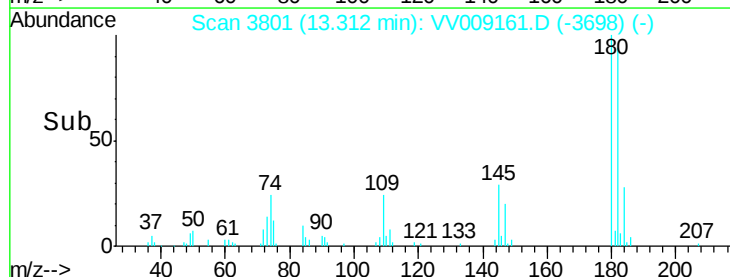
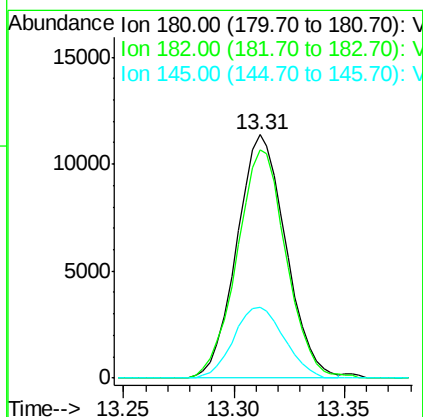
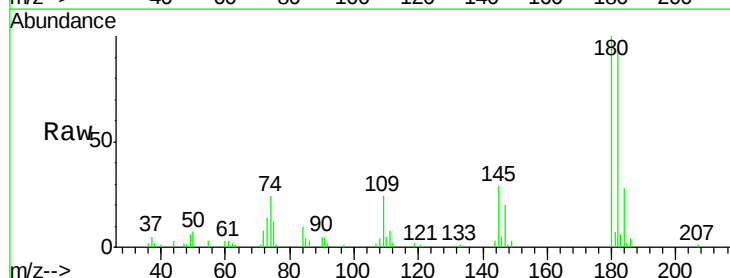
Manual Integrations
 APPROVED

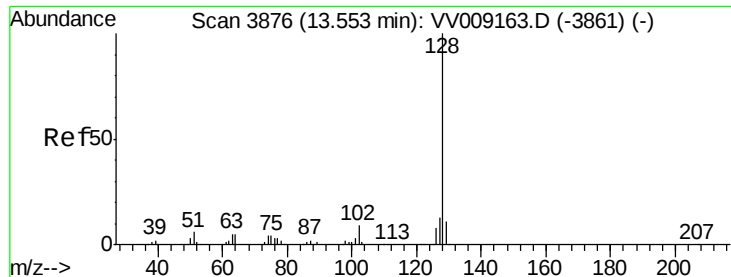
MMDadoda
 1/8/2019 12:00:09 AM



#68
 1,2,4-trichlorobenzene
 Concen: 4.932 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009161.D
 Acq: 04 Jan 2019 14:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.1	76.2	114.4
145	30.0	25.4	38.0





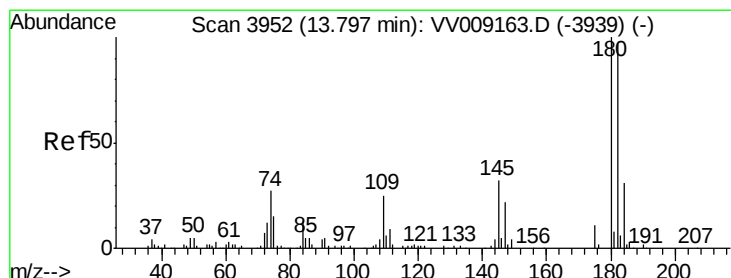
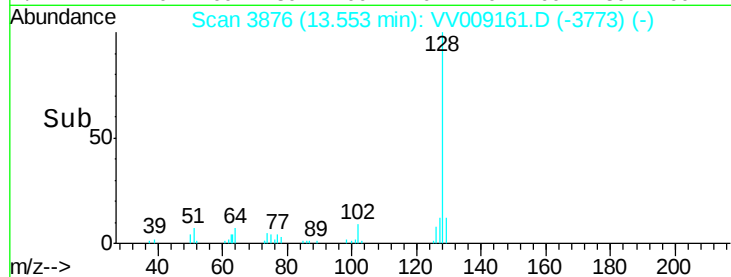
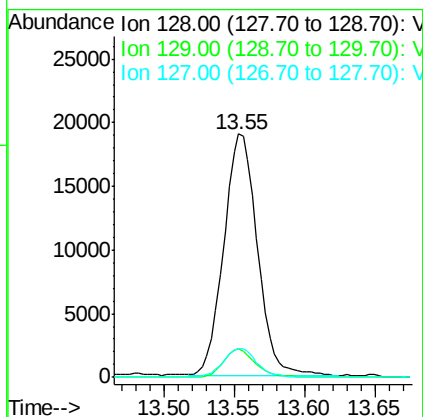
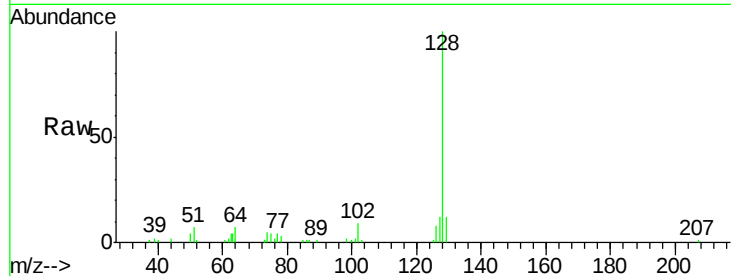
#69
Naphthalene
Concen: 4.321 ug/L
RT: 13.55 min Scan# 3876
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	11.8	10.4	15.6

Manual Integrations
APPROVED

MMDadoda
1/8/2019 12:00:09 AM



#70
1,2,3-Trichlorobenzene
Concen: 4.837 ug/L
RT: 13.80 min Scan# 3952
Delta R.T. -0.00 min
Lab File: VV009161.D
Acq: 04 Jan 2019 14:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	74.4	111.6
145	34.4	25.7	38.5

