

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\
 Data File : VV009158.D
 Acq On : 04 Jan 2019 12:37
 Operator : SY/MD
 Sample : VSTD10066
 Misc : 5.00 G/10ML/MSVOA V/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

Quant Time: Jan 05 04:24:23 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	203106	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	186521	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	97570	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	112073	80.70	ug/L	0.00
7) Chloroethane-d5	1.58	69	112715	83.65	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	397885	85.69	ug/L	0.00
20) 2-Butanone-d5	3.95	46	178128	184.94	ug/L	-0.02
24) Chloroform-d	4.40	84	387107	90.52	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	211411	92.41	ug/L	0.00
29) Benzene-d6	5.10	84	743962	89.52	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	216153	90.72	ug/L	0.00
37) Toluene-d8	7.36	98	699850	89.28	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	107292	94.91	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	117605	209.13	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	246862	94.27	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	281439	85.34	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	279518	85.616	ug/L	99
3) Chloromethane	1.25	50	188209	85.116	ug/L	99
5) Vinyl chloride	1.32	62	203175	85.813	ug/L	99
6) Bromomethane	1.53	94	144244	86.490	ug/L	97
8) Chloroethane	1.60	64	124442	85.286	ug/L	97
9) Trichlorofluoromethane	1.76	101	394630	90.914	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	265470	91.830	ug/L	99
12) 1,1-Dichloroethene	2.14	96	229419	91.508	ug/L	96
13) Acetone	2.21	43	195615	141.227	ug/L	100
14) Carbon disulfide	2.31	76	651648	90.963	ug/L	99
15) Methyl Acetate	2.47	43	158109	92.253	ug/L	97
16) Methylene chloride	2.53	84	242576	79.944	ug/L	97
17) Methyl tert-butyl Ether	2.81	73	610897	99.480	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	244871	92.163	ug/L	98
19) 1,1-Dichloroethane	3.23	63	410357	93.007	ug/L	99
21) 2-Butanone	4.03	43	231087	181.408	ug/L	# 89
22) cis-1,2-Dichloroethene	3.96	96	268194	94.423	ug/L	99
23) Bromochloromethane	4.30	128	128910	96.468	ug/L	98
25) Chloroform	4.43	83	441606	93.989	ug/L	99
27) 1,2-Dichloroethane	5.18	62	308032	97.602	ug/L	99
30) Cyclohexane	4.73	56	375313	90.766	ug/L	100
31) 1,1,1-Trichloroethane	4.66	97	422011	93.061	ug/L	99
32) Carbon tetrachloride	4.87	117	389857	93.925	ug/L	100
34) Benzene	5.15	78	926236	92.375	ug/L	100
35) Trichloroethene	5.96	95	264651	91.615	ug/L	99
36) Methylcyclohexane	6.18	83	445913	92.386	ug/L	98
40) 1,2-Dichloropropane	6.22	63	226305	93.639	ug/L	99
41) Bromodichloromethane	6.56	83	330922	99.895	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	383852	100.230	ug/L	99
43) 4-Methyl-2-pentanone	7.28	43	420321	182.457	ug/L	100

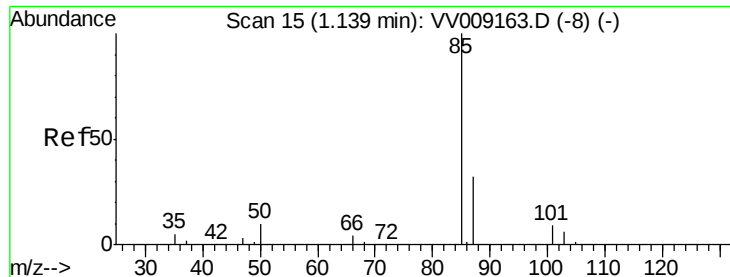
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\
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 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	1005143	92.978	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	343498	102.445	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	208635	97.673	ug/L	98
47) Tetrachloroethene	8.02	164	228339	91.238	ug/L	98
49) 2-Hexanone	8.19	43	323974	191.090	ug/L	99
50) Dibromochloromethane	8.29	129	267595	101.974	ug/L	98
51) 1,2-Dibromoethane	8.40	107	216440	96.904	ug/L	97
52) Chlorobenzene	8.93	112	686492	92.550	ug/L	100
53) Ethylbenzene	9.06	91	1163524	95.170	ug/L	99
54) m,p-Xylene	9.18	106	451029	94.690	ug/L	100
55) o-xylene	9.59	106	427253	97.008	ug/L	99
56) Styrene	9.60	104	732143	98.555	ug/L	100
57) Isopropylbenzene	9.98	105	1195997	97.873	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	285728	99.836	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	221239	96.716	ug/L	98
62) Bromoform	9.78	173	179872	104.384	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	573879	93.349	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	579180	90.381	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	541226	92.421	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	61464	101.097	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	455320	91.834	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	389135	96.425	ug/L	100
69) Naphthalene	13.55	128	894737	108.849	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	355675	96.036	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 85.616 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV009158.D

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ClientSampleId :

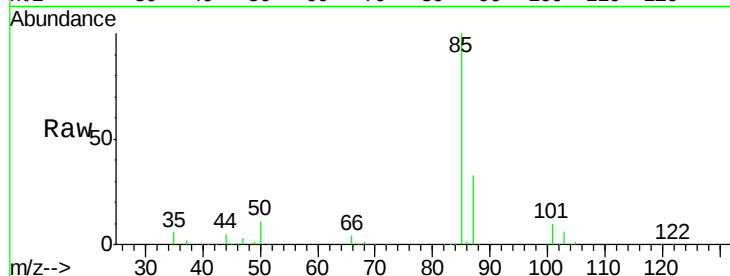
VSTD10066

Tot Ion: 85 Resp: 279518

Ion Ratio Lower Upper

85 100

87 32.7 22.5 41.7



Abundance Ion 85.00 (84.70 to 85.70): VV009158.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV009158.D (-1) (-)

1.14

250000

200000

150000

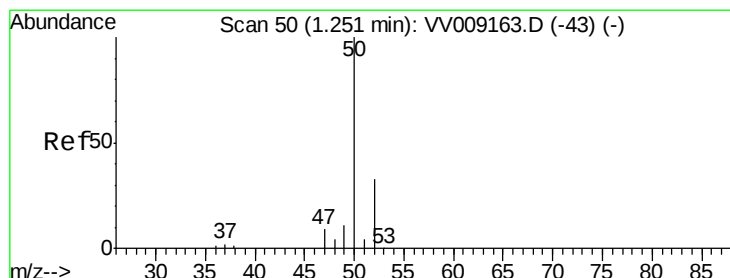
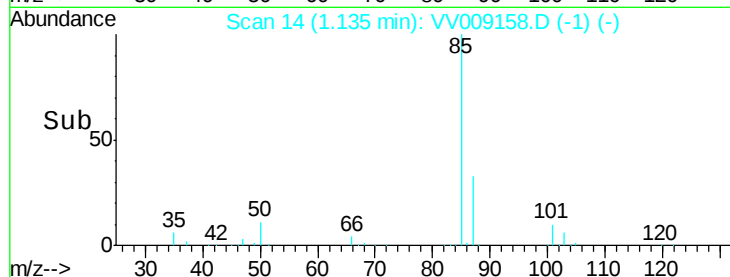
100000

50000

0

Time-->

1.05 1.10 1.15 1.20 1.25



#3

Chloromethane

Concen: 85.116 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009158.D

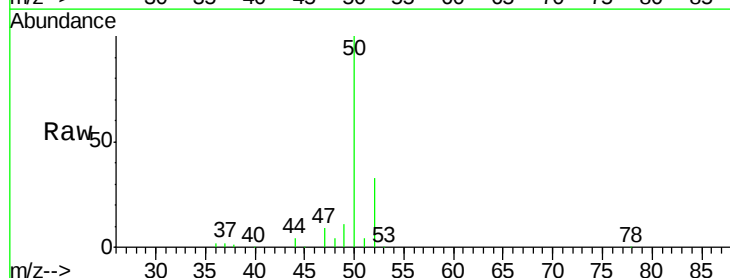
Acq: 04 Jan 2019 12:37

Tgt Ion: 50 Resp: 188209

Ion Ratio Lower Upper

50 100

52 33.3 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV009158.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV009158.D (-1) (-)

1.25

150000

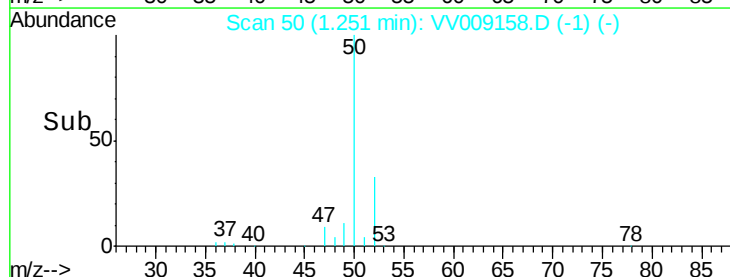
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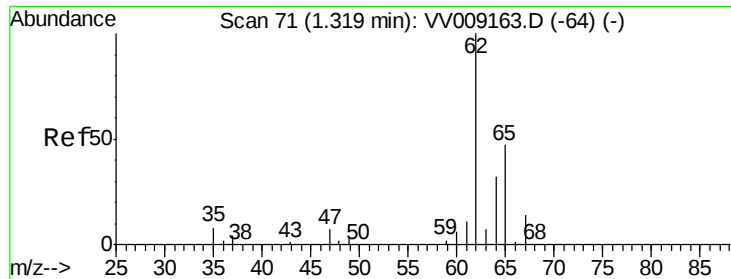
50000

0

Time-->

1.20 1.25 1.30





#5

Vinyl chloride

Concen: 85.813 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

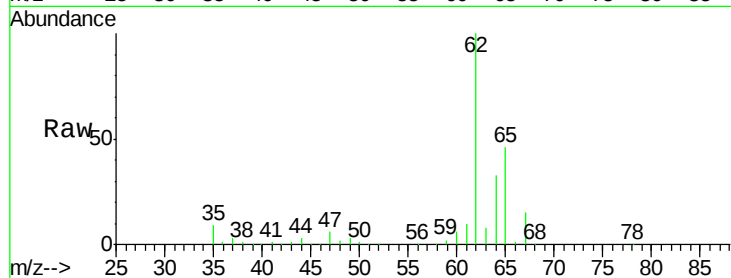
VSTD10066

Tot Ion: 62 Resp: 203175

Ion Ratio Lower Upper

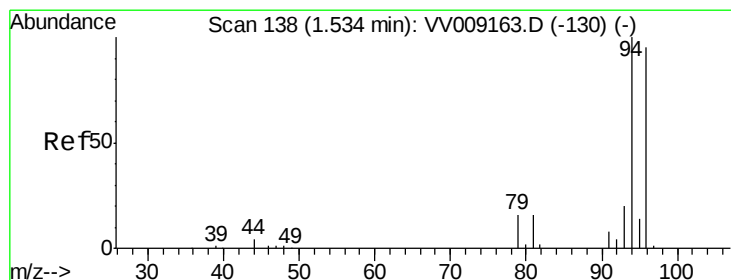
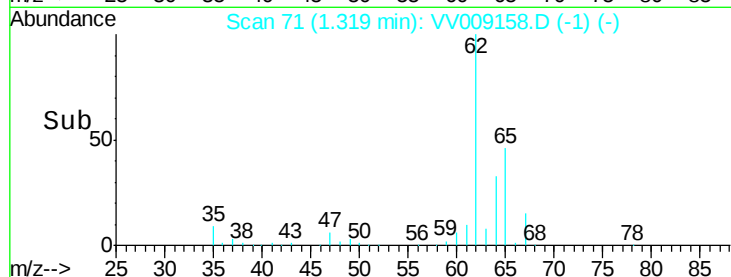
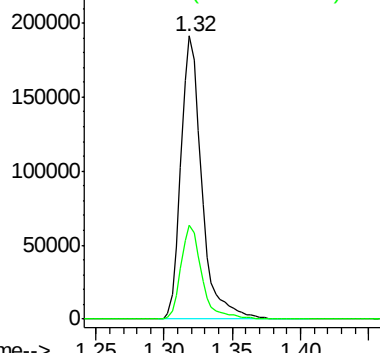
62 100

64 33.2 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 86.490 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV009158.D

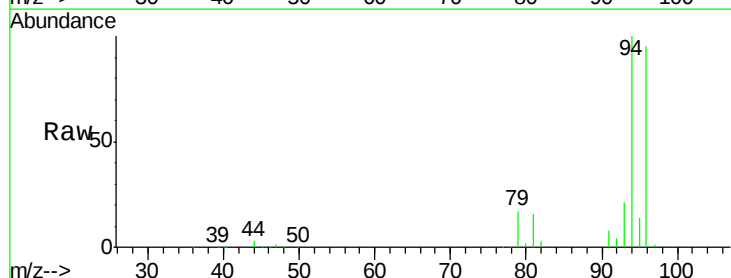
Acq: 04 Jan 2019 12:37

Tgt Ion: 94 Resp: 144244

Ion Ratio Lower Upper

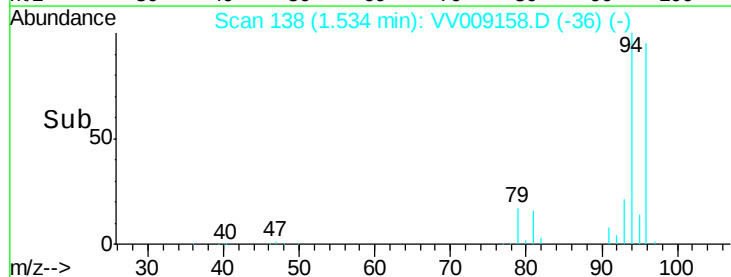
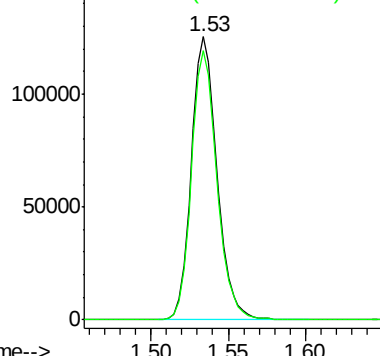
94 100

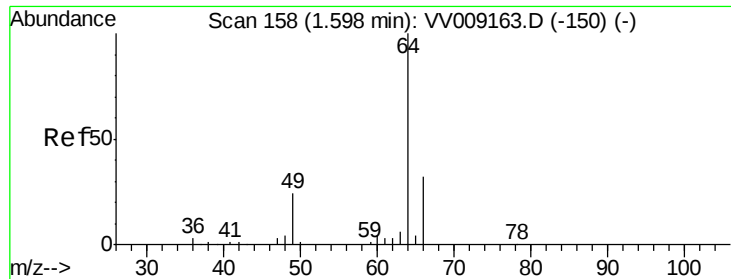
96 94.5 9.7 185.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 85.286 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.01 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

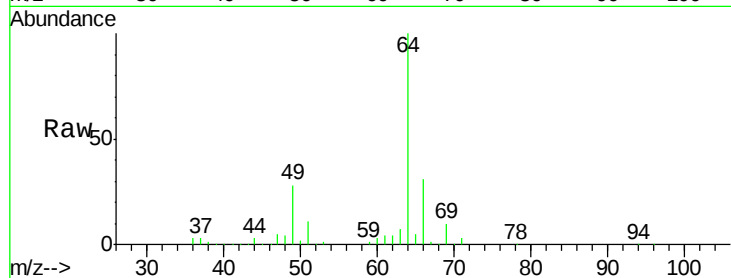
VSTD10066

Tot Ion: 64 Resp: 124442

Ion Ratio Lower Upper

64 100

66 31.4 23.2 43.0



Abundance Ion 64.00 (63.70 to 64.70): VV009158.D (-56) (-)

Ion 66.00 (65.70 to 66.70): VV009158.D (-56) (-)

1.60

120000

100000

80000

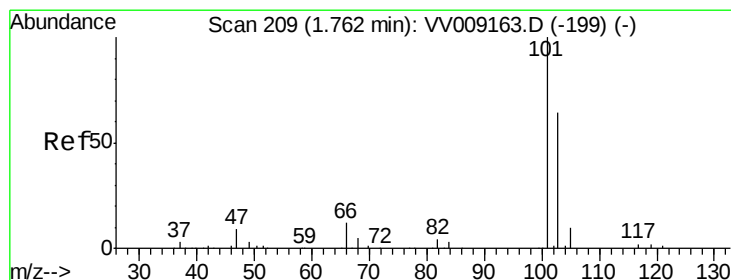
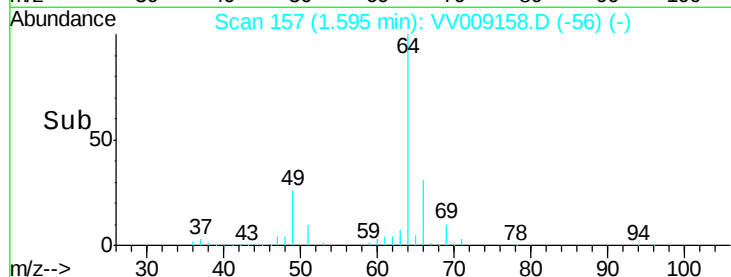
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 90.914 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.01 min

Lab File: VV009158.D

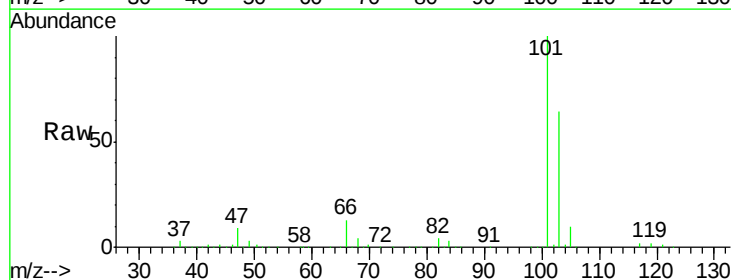
Acq: 04 Jan 2019 12:37

Tgt Ion: 101 Resp: 394630

Ion Ratio Lower Upper

101 100

103 65.1 46.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): VV009158.D (-56) (-)

Ion 103.00 (102.70 to 103.70): VV009158.D (-56) (-)

1.76

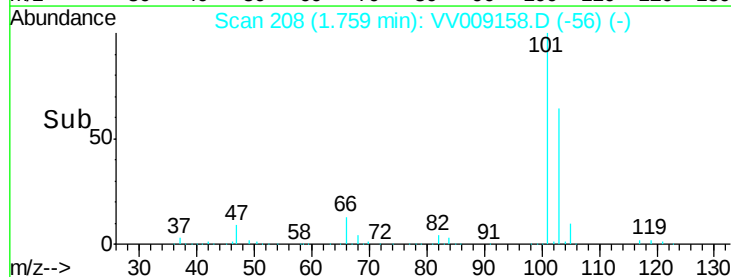
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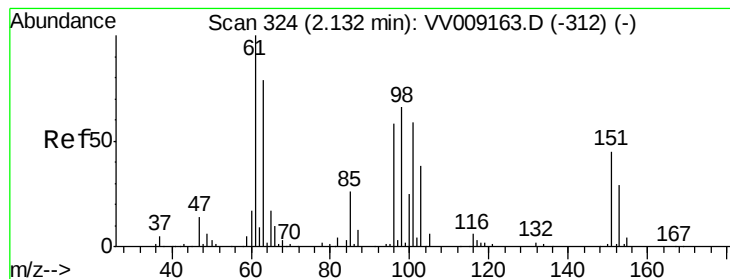
200000

100000

0

Time-->





#11

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

Concen: 91.830 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

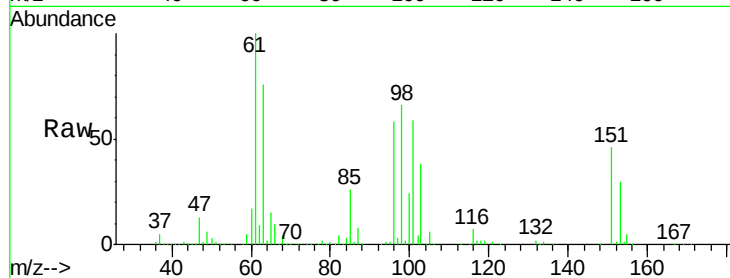
Tot Ion:101 Resp: 265470

Ion Ratio Lower Upper

101 100

85 42.6 34.6 52.0

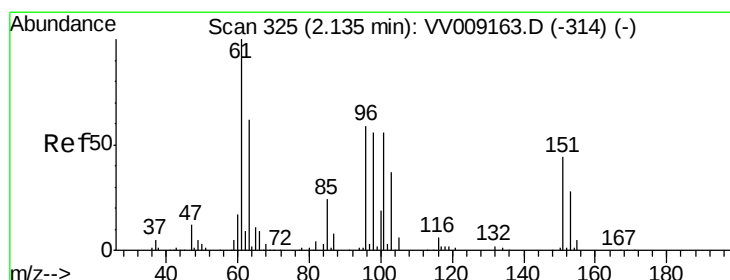
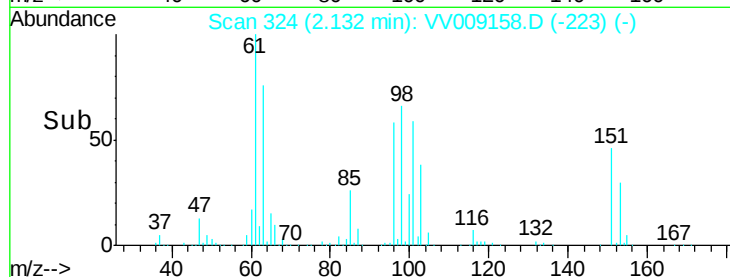
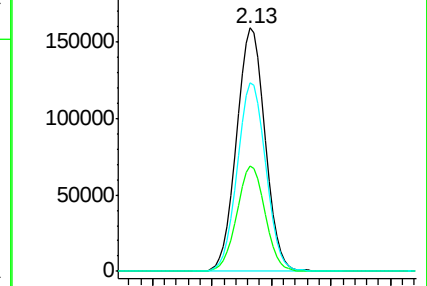
151 77.5 62.6 94.0



Abundance Ion 101.00 (100.70 to 101.70): VV009163.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV009163.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV009163.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 91.508 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

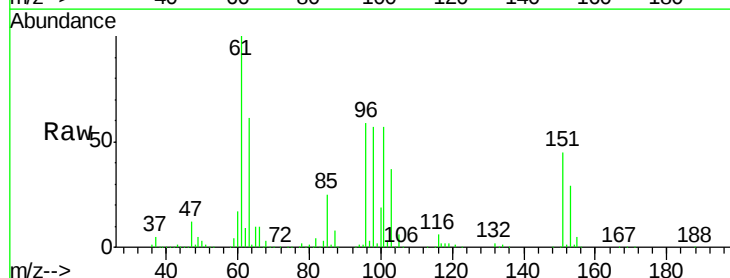
Tgt Ion: 96 Resp: 229419

Ion Ratio Lower Upper

96 100

61 169.6 117.0 217.4

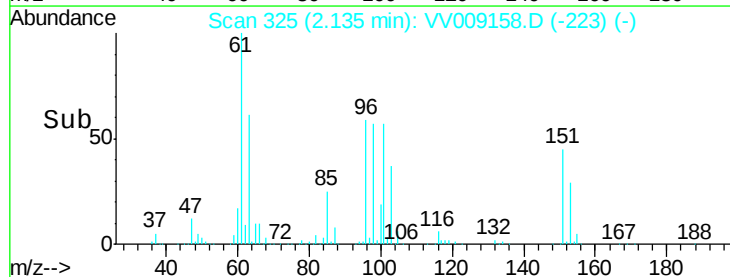
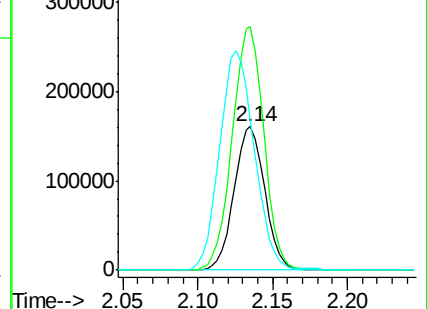
63 104.2 78.2 145.2

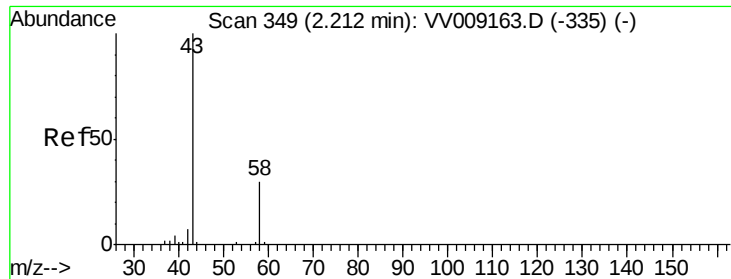


Abundance Ion 96.00 (95.70 to 96.70): VV009163.D (-314) (-)

Ion 61.00 (60.70 to 61.70): VV009163.D (-314) (-)

Ion 63.00 (62.70 to 63.70): VV009163.D (-314) (-)





#13

Acetone

Concen: 141.227 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

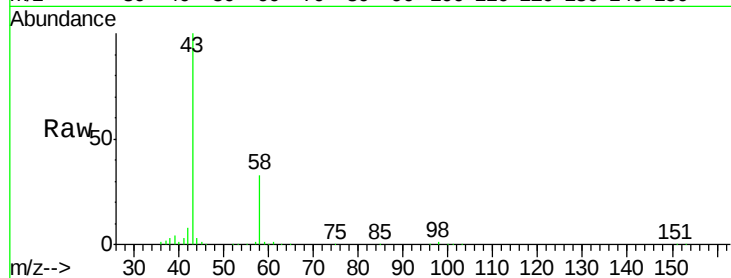
VSTD10066

Tot Ion: 43 Resp: 195615

Ion Ratio Lower Upper

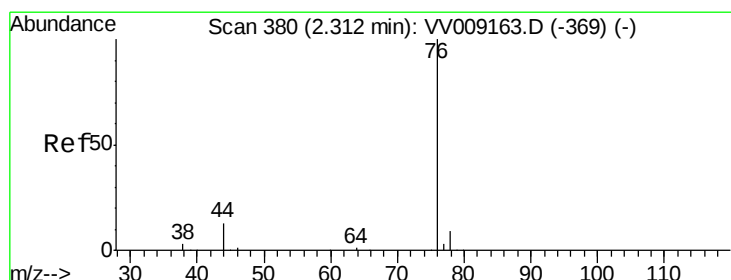
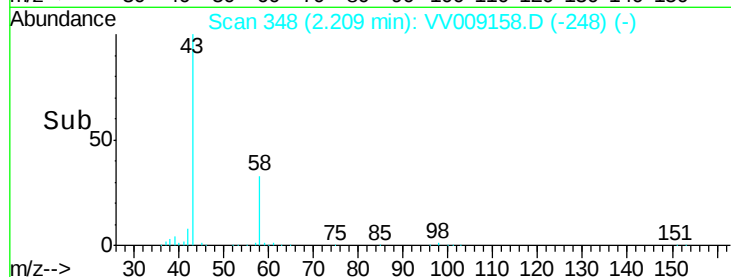
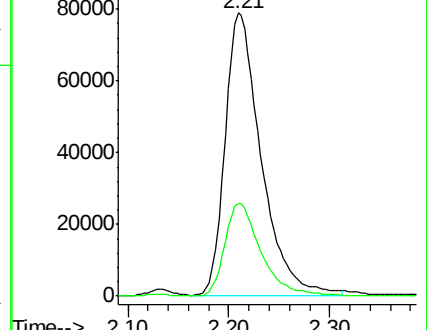
43 100

58 33.4 0.0 67.0



Abundance Ion 43.00 (42.70 to 43.70): VV009163.D (-335) (-)

Ion 58.00 (57.70 to 58.70): VV009163.D (-335) (-)



#14

Carbon disulfide

Concen: 90.963 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.01 min

Lab File: VV009158.D

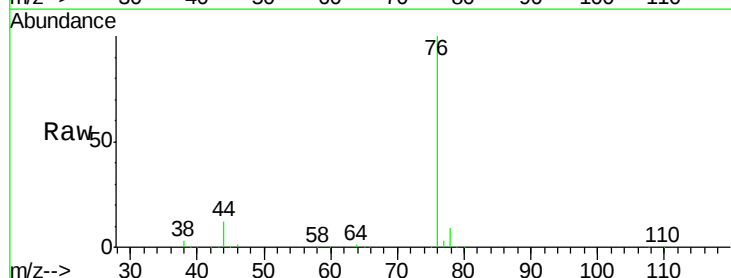
Acq: 04 Jan 2019 12:37

Tgt Ion: 76 Resp: 651648

Ion Ratio Lower Upper

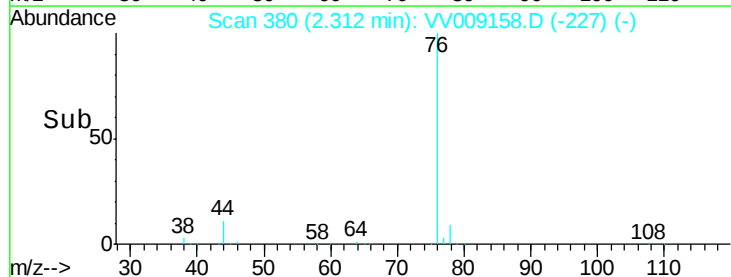
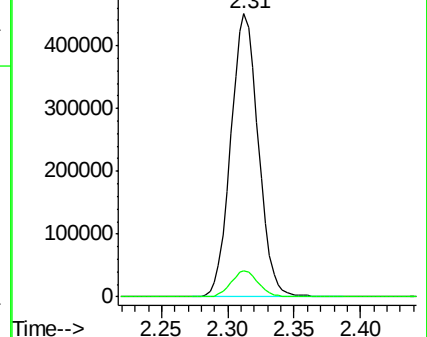
76 100

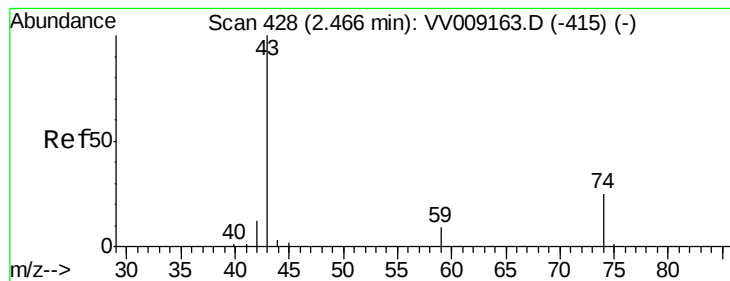
78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009163.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009163.D (-369) (-)





#15

Methvl Acetate

Concen: 92.253 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.01 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

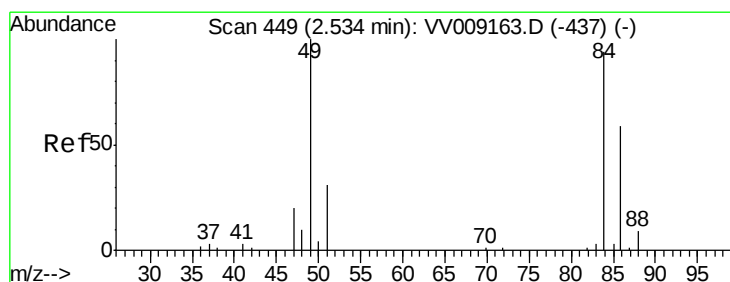
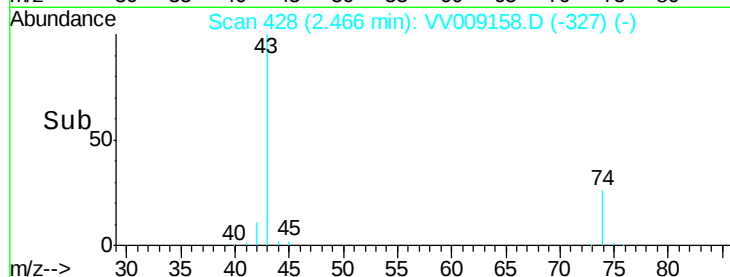
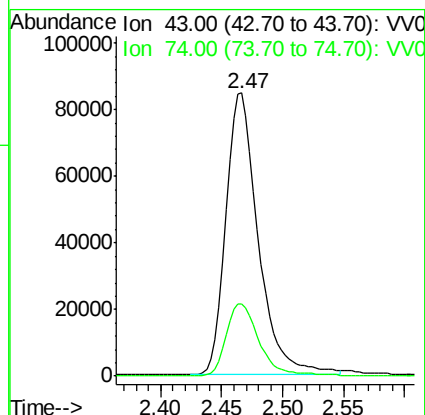
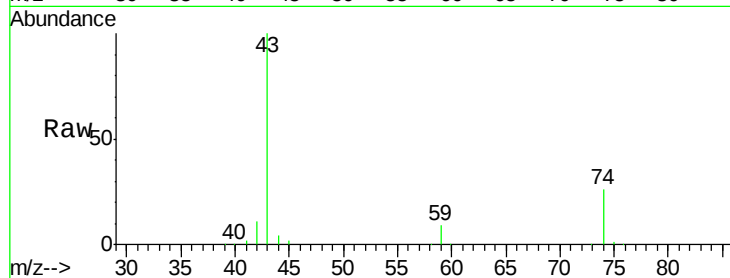
VSTD10066

Tot Ion: 43 Resp: 158109

Ion Ratio Lower Upper

43 100

74 25.6 19.4 29.0



#16

Methylene chloride

Concen: 79.944 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

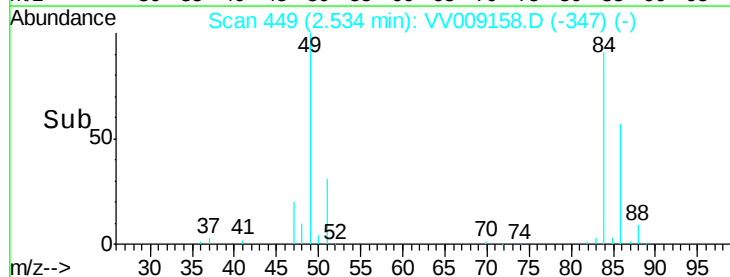
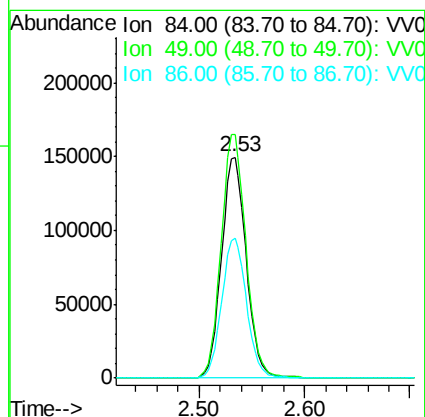
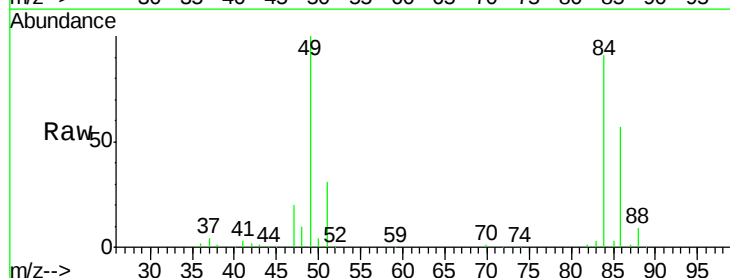
Tgt Ion: 84 Resp: 242576

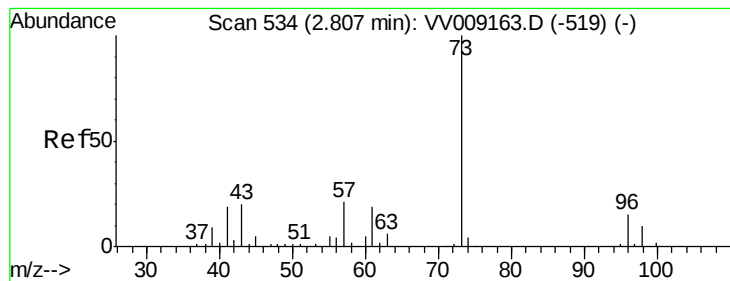
Ion Ratio Lower Upper

84 100

49 110.1 77.6 144.2

86 63.3 47.4 88.0



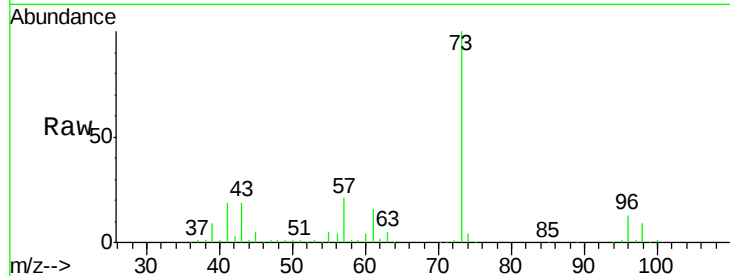


#17

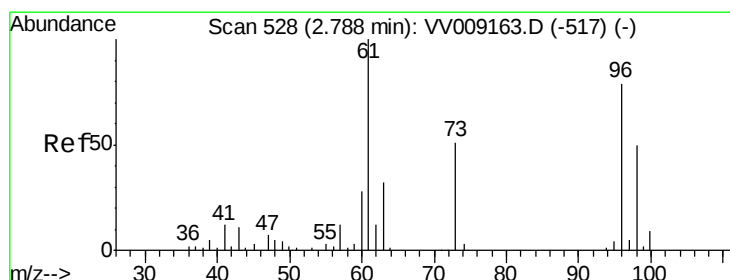
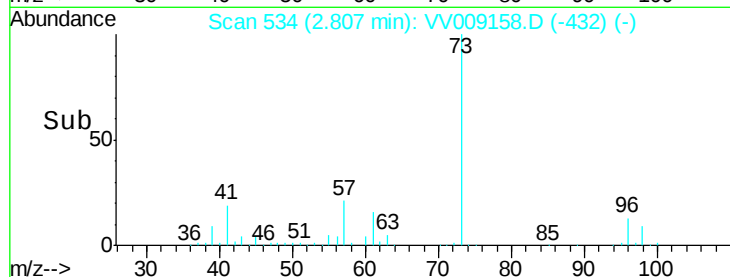
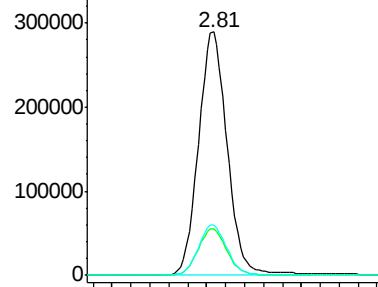
Methvl tert-butvl Ether
 Concen: 99.480 ug/L
 RT: 2.81 min Scan# 534
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

Tot Ion	Ratio	Lower	Upper
73	100		
43	19.1	15.4	23.2
57	20.7	16.2	24.2



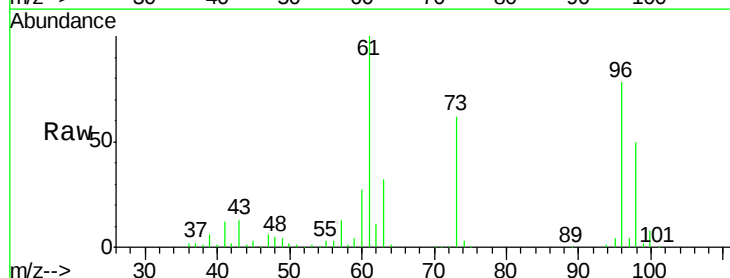
Abundance Ion 73.00 (72.70 to 73.70): VV0
 Ion 43.00 (42.70 to 43.70): VV0
 Ion 57.00 (56.70 to 57.70): VV0



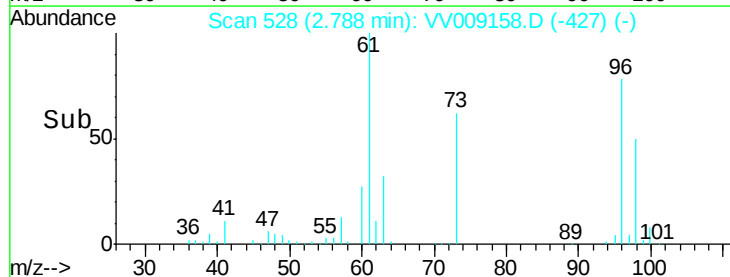
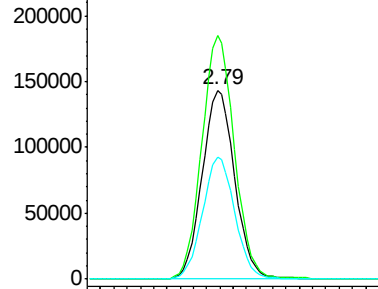
#18

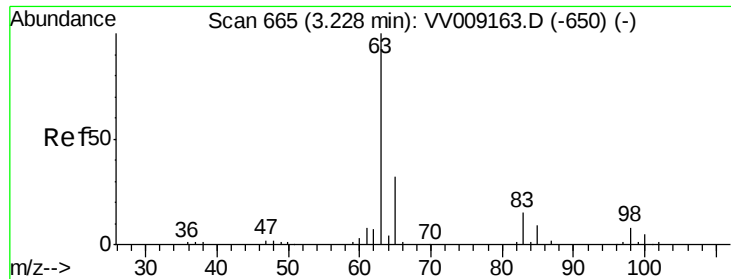
trans-1,2-Dichloroethene
 Concen: 92.163 ug/L
 RT: 2.79 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	128.8	88.8	164.8
98	64.7	43.5	80.9



Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

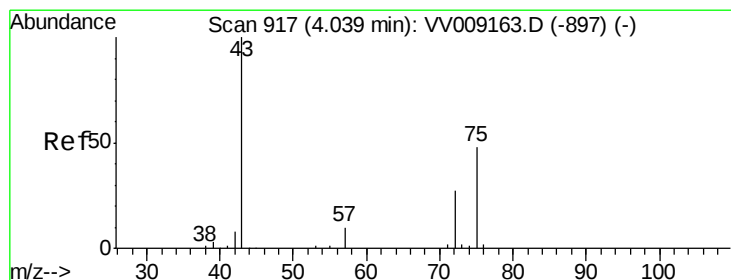
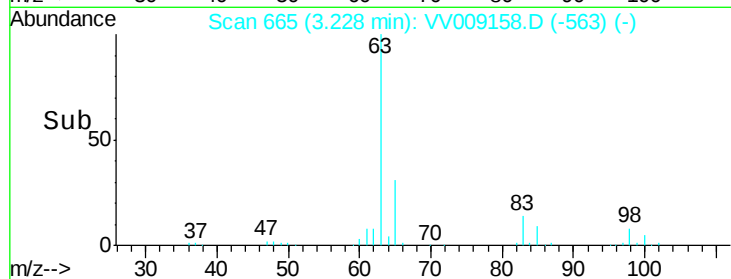
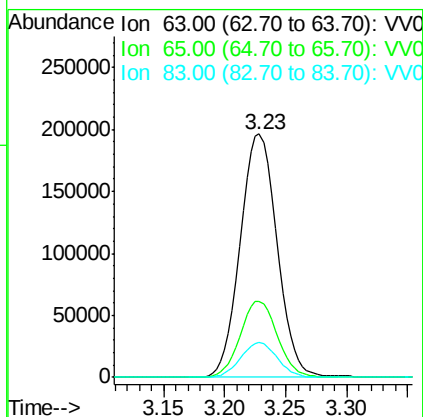
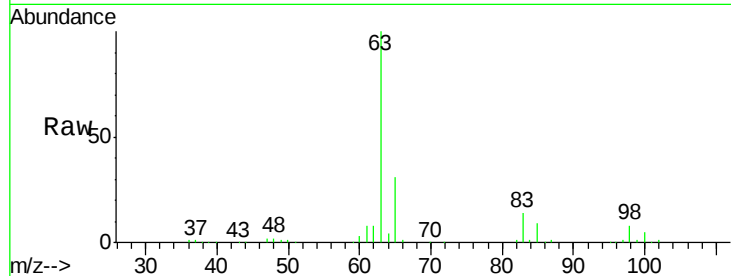




#19
 1,1-Dichloroethane
 Concen: 93.007 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

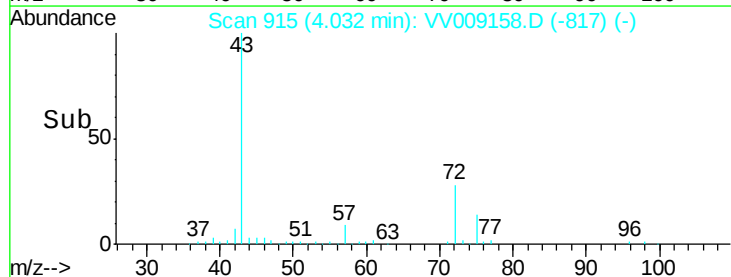
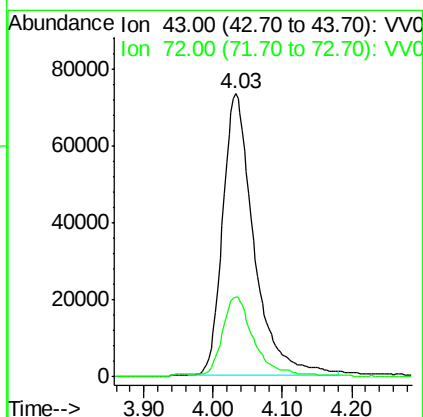
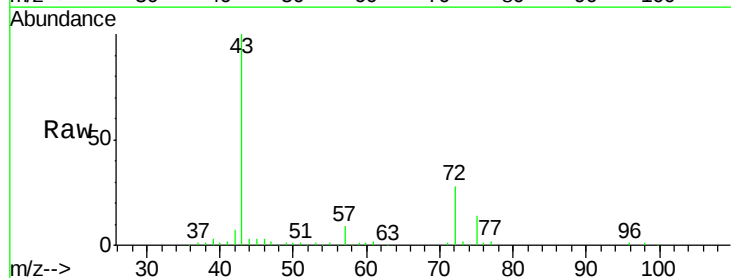
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

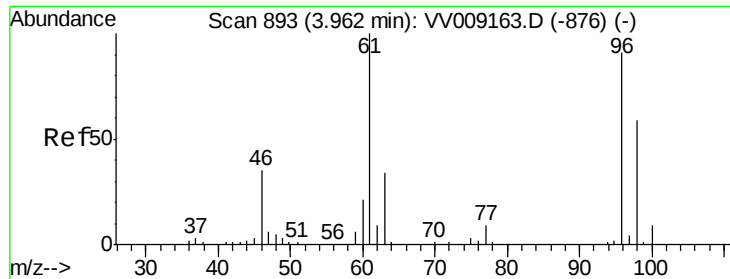
Tot Ion: 63 Resp: 410357
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.6 42.0
 83 14.4 9.9 18.3



#21
 2-Butanone
 Concen: 181.408 ug/L
 RT: 4.03 min Scan# 915
 Delta R.T. -0.02 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Tgt Ion: 43 Resp: 231087
 Ion Ratio Lower Upper
 43 100
 72 25.8 0.1 0.1#



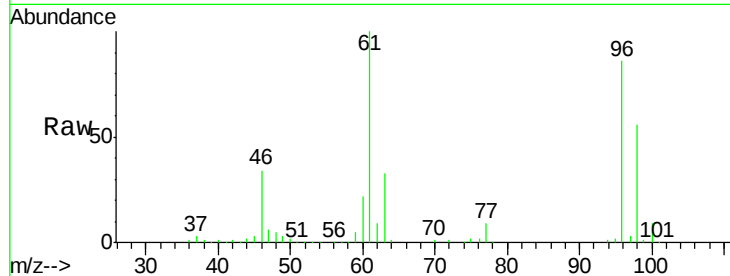


#22

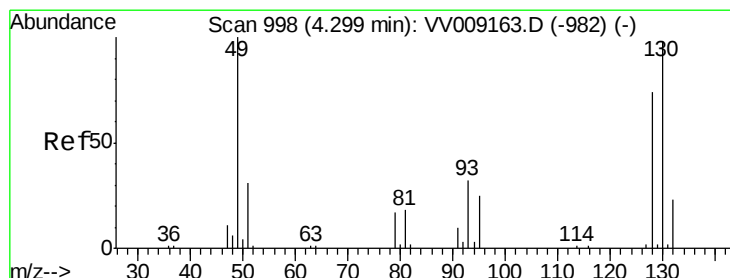
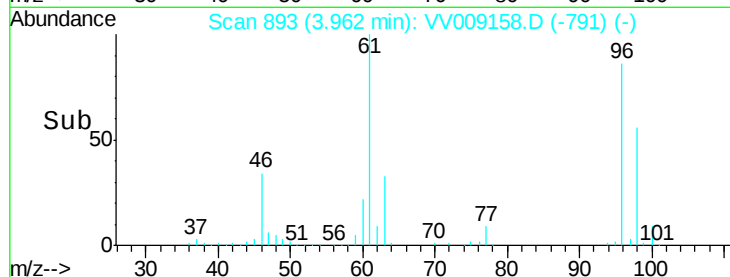
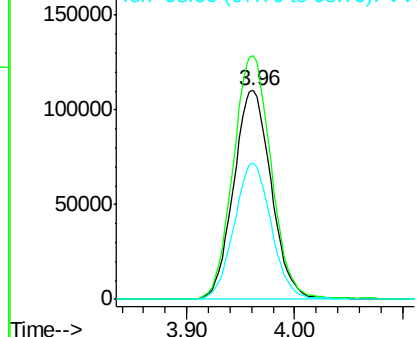
cis-1,2-Dichloroethene
 Concen: 94.423 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

Tot Ion: 96 Resp: 268194
 Ion Ratio Lower Upper
 96 100
 61 116.5 83.2 154.6
 98 65.3 45.8 85.2



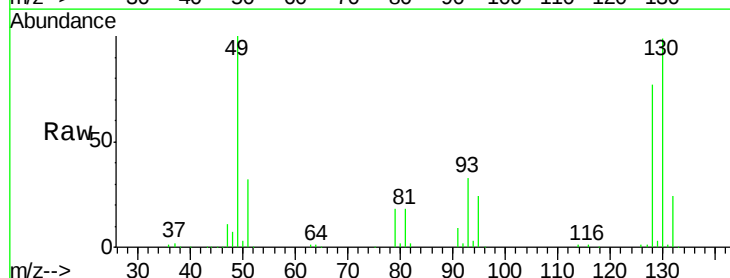
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



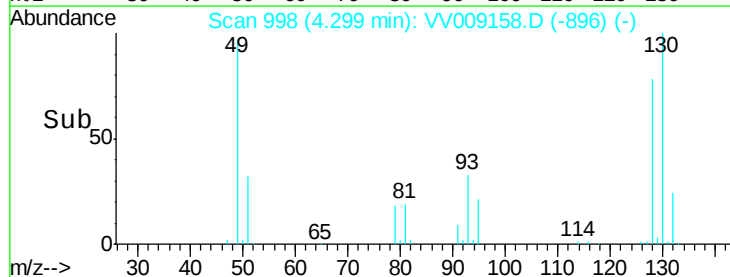
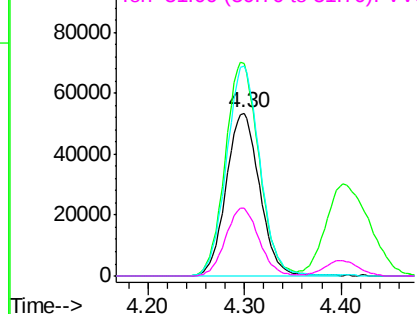
#23

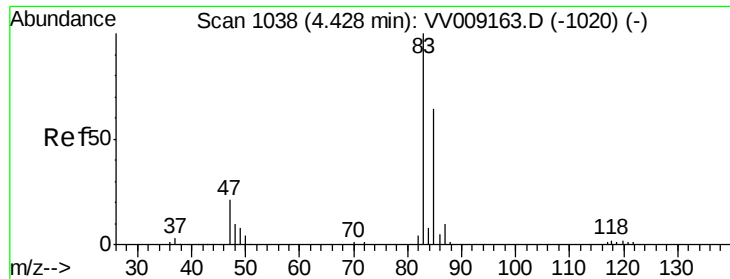
Bromochloromethane
 Concen: 96.468 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Tgt Ion: 128 Resp: 128910
 Ion Ratio Lower Upper
 128 100
 49 130.3 89.9 167.0
 130 129.0 87.8 163.2
 51 41.3 33.8 50.6



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

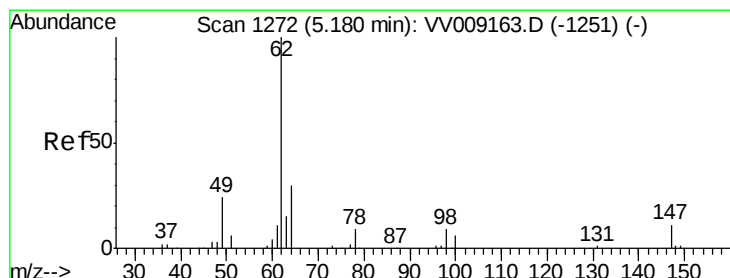
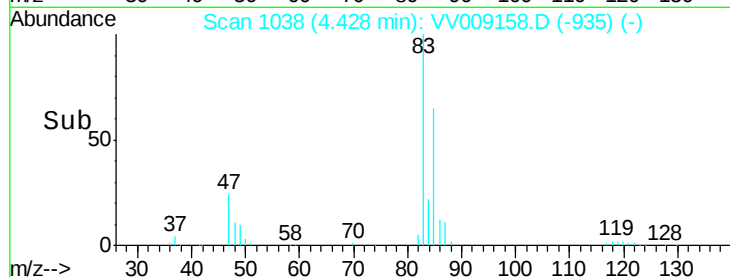
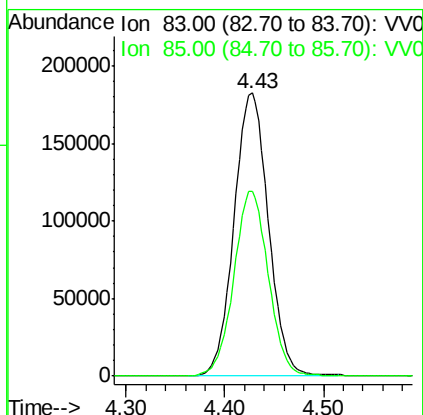
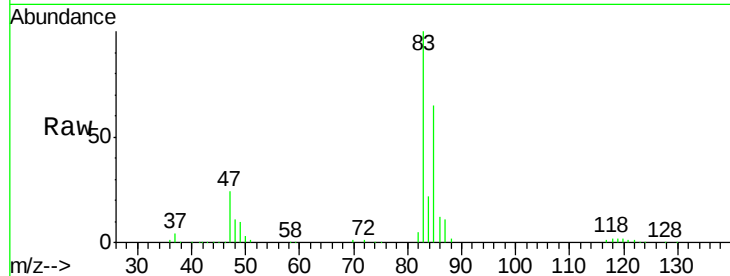




#25
Chloroform
Concen: 93.989 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009158.D
Acq: 04 Jan 2019 12:37

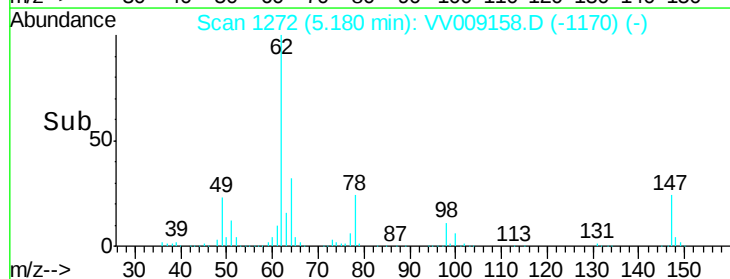
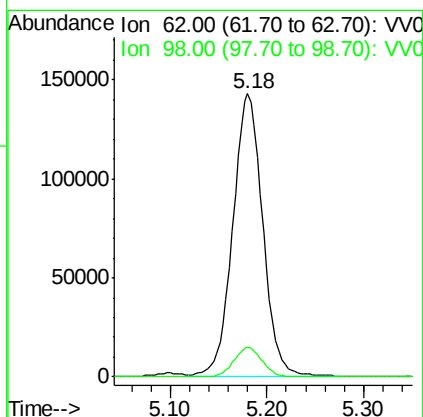
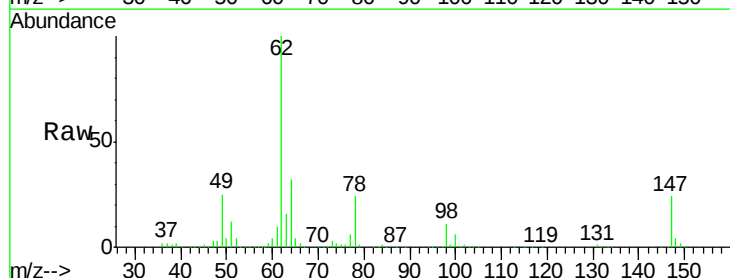
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

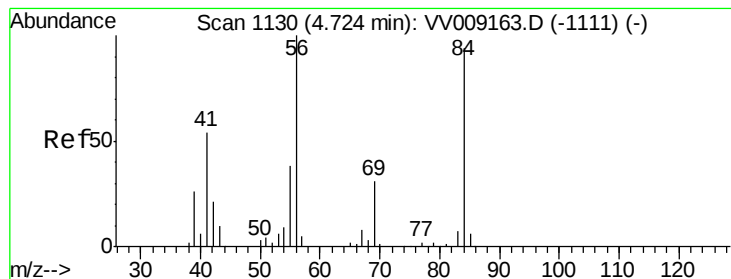
Tot Ion: 83 Resp: 441606
Ion Ratio Lower Upper
83 100
85 65.7 45.3 84.1



#27
1,2-Dichloroethane
Concen: 97.602 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009158.D
Acq: 04 Jan 2019 12:37

Tgt Ion: 62 Resp: 308032
Ion Ratio Lower Upper
62 100
98 10.6 8.1 12.1





#30

Cvclohexane

Concen: 90.766 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

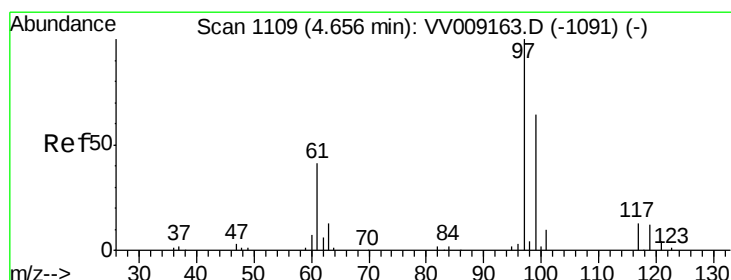
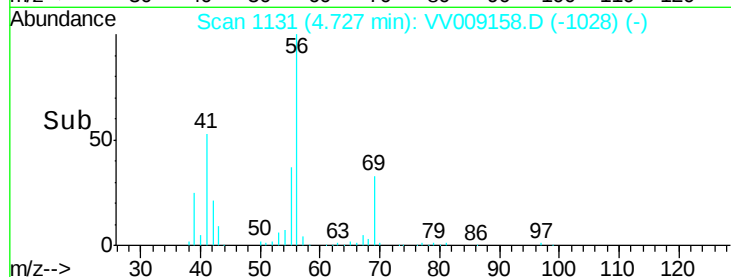
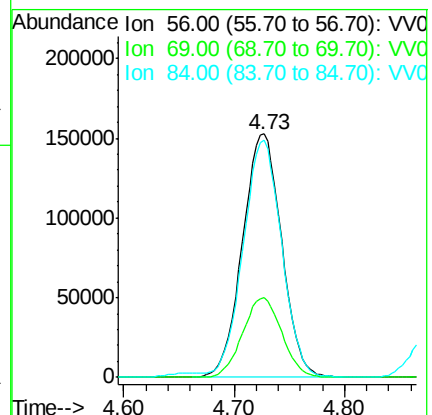
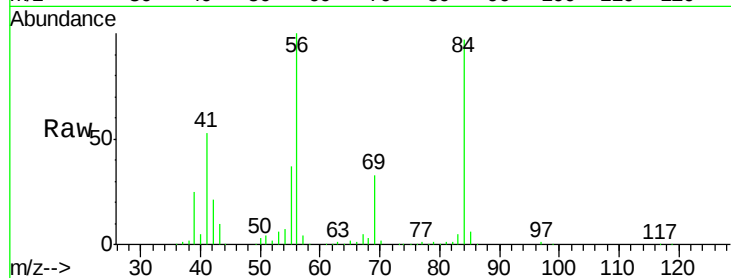
Tot Ion: 56 Resp: 375313

Ion Ratio Lower Upper

56 100

69 32.8 26.0 39.0

84 96.1 77.0 115.4



#31

1,1,1-Trichloroethane

Concen: 93.061 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

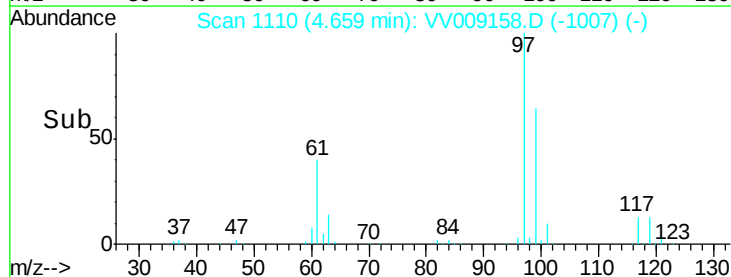
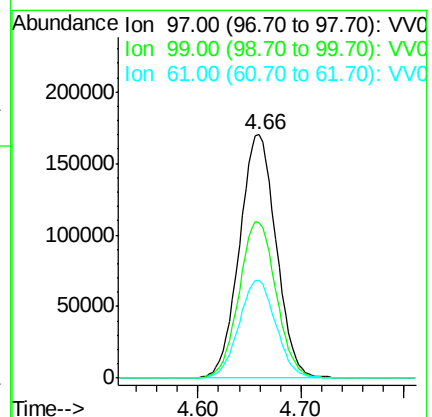
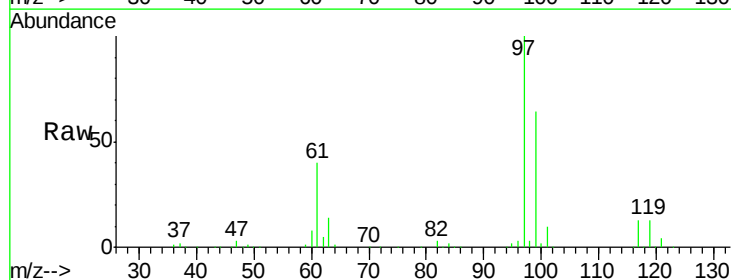
Tgt Ion: 97 Resp: 422011

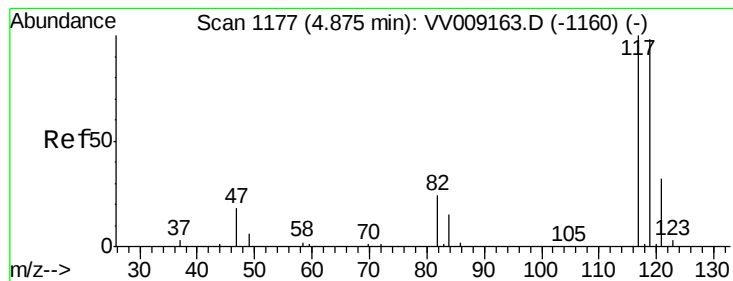
Ion Ratio Lower Upper

97 100

99 64.7 51.2 76.8

61 40.4 31.8 47.6





#32

Carbon tetrachloride

Concen: 93.925 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

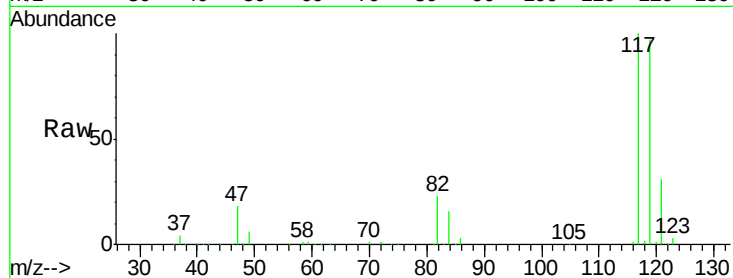
VSTD10066

Tot Ion:117 Resp: 389857

Ion Ratio Lower Upper

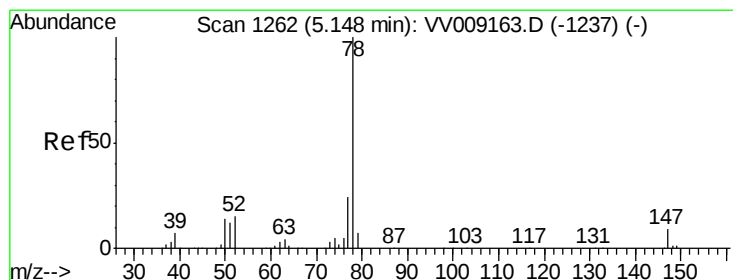
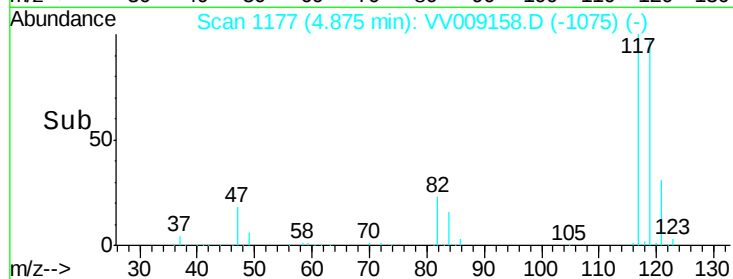
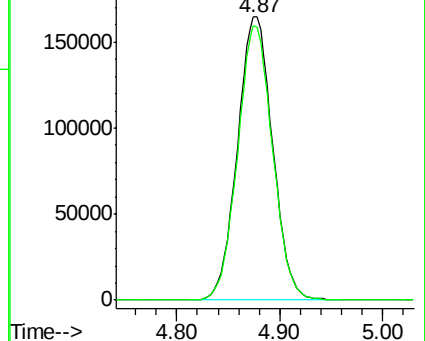
117 100

119 96.2 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 92.375 ug/L

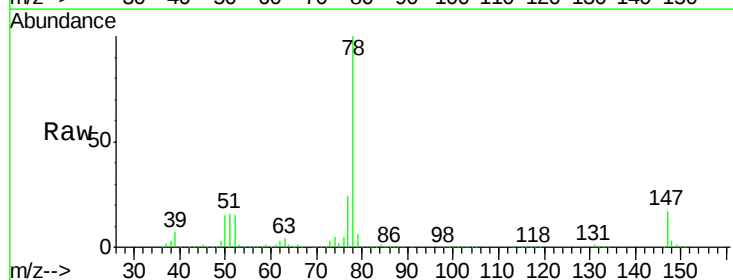
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

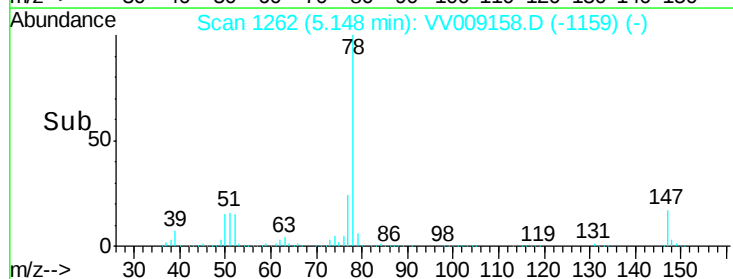
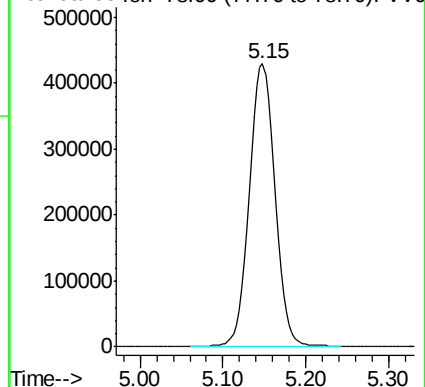
Lab File: VV009158.D

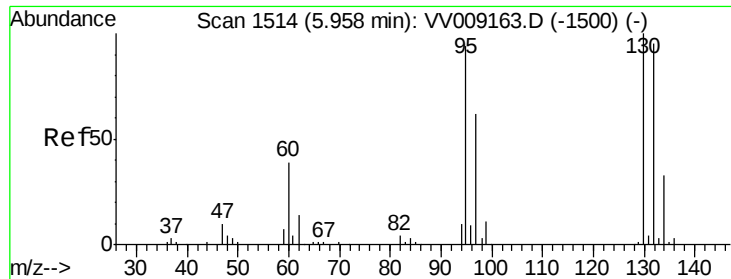
Acq: 04 Jan 2019 12:37

Tgt Ion: 78 Resp: 926236



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 91.615 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

Tot Ion: 95 Resp: 264651

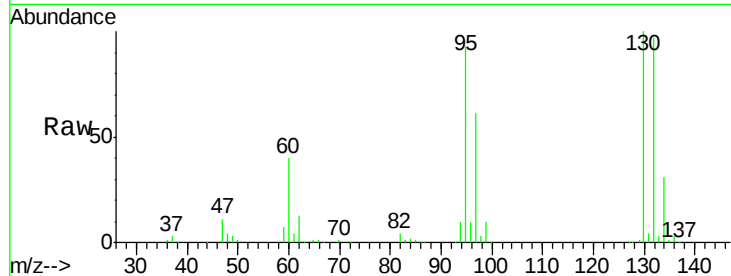
Ion Ratio Lower Upper

95 100

97 65.4 46.2 85.8

132 104.5 73.9 137.3

130 108.2 77.0 143.0

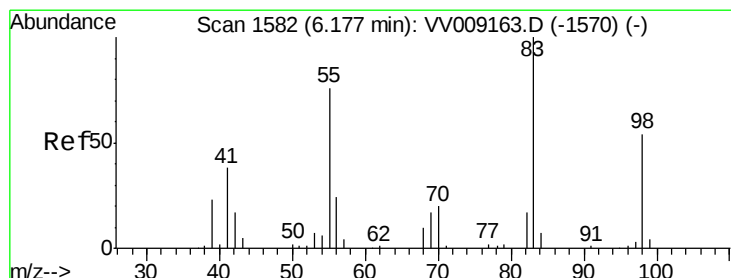
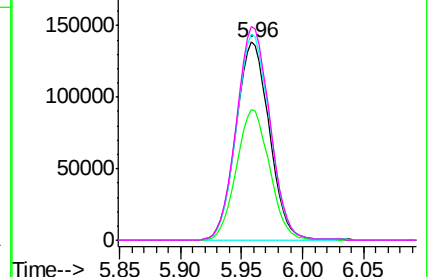
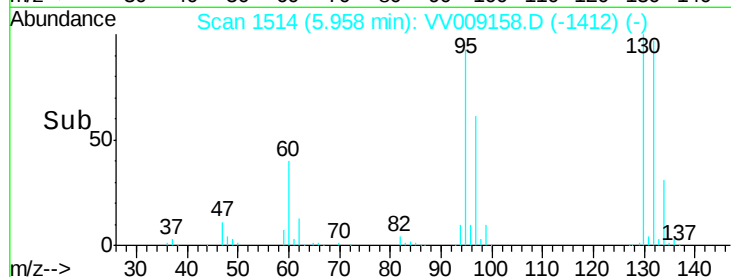


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 92.386 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

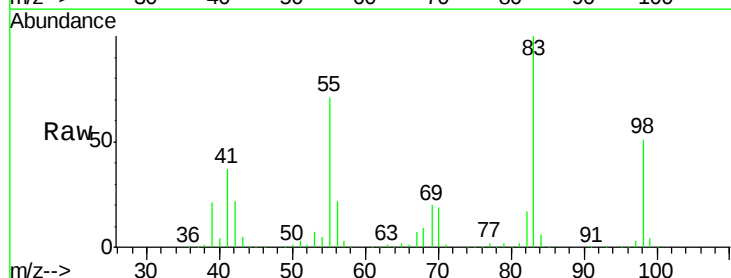
Tgt Ion: 83 Resp: 445913

Ion Ratio Lower Upper

83 100

55 71.2 58.5 87.7

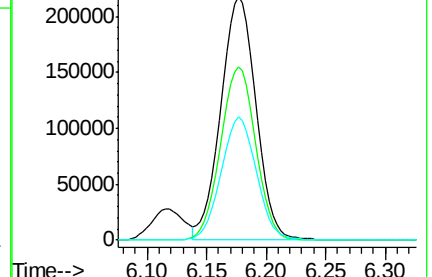
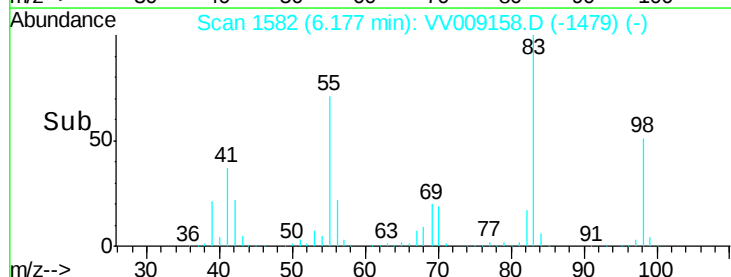
98 50.7 41.4 62.0

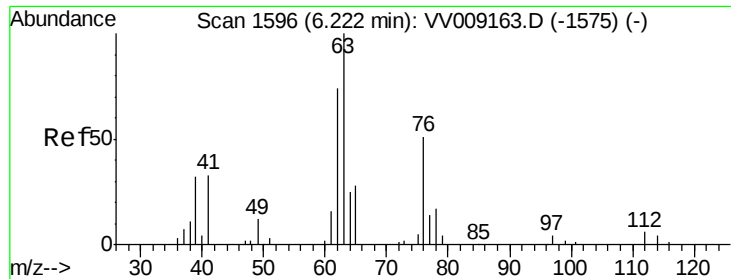


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

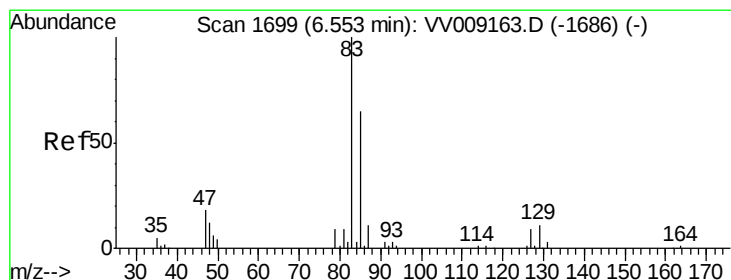
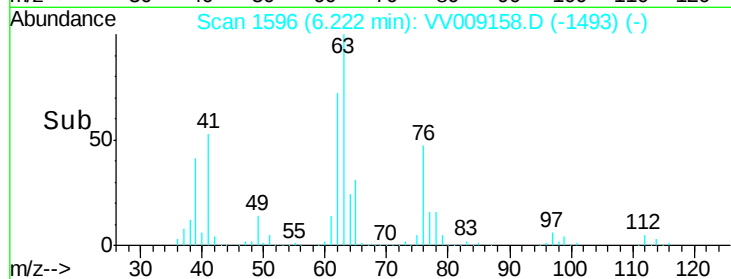
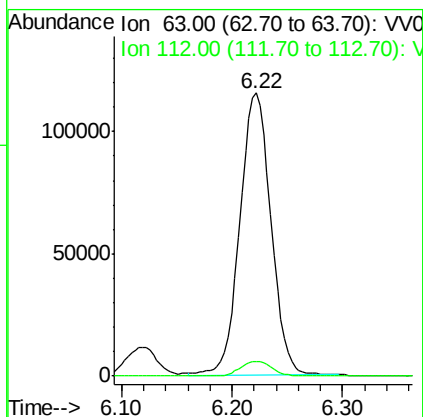
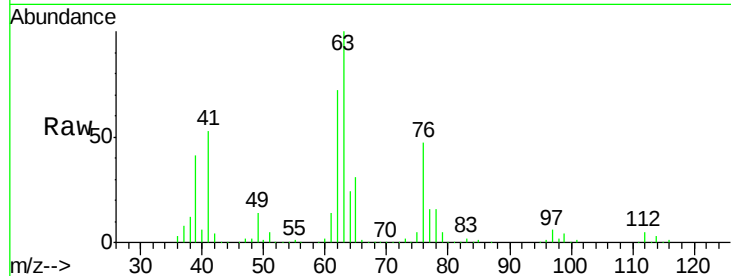




#40
 1,2-Dichloropropane
 Concen: 93.639 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

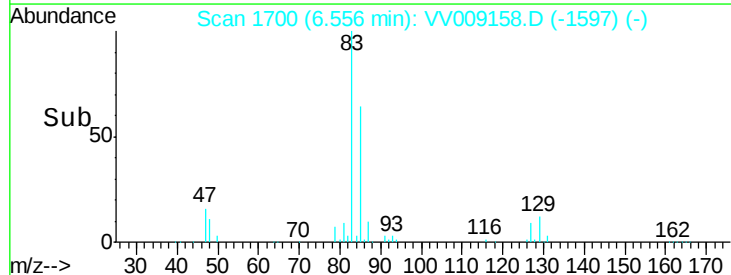
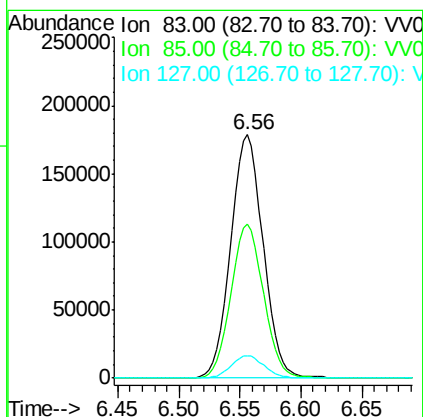
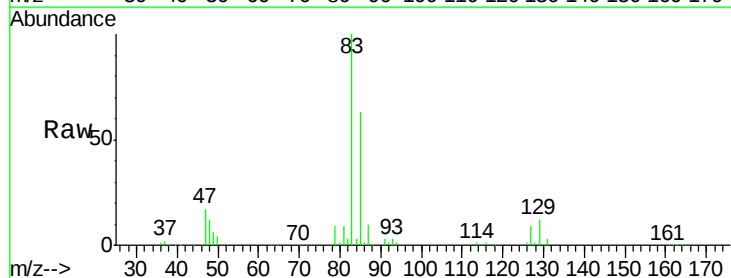
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

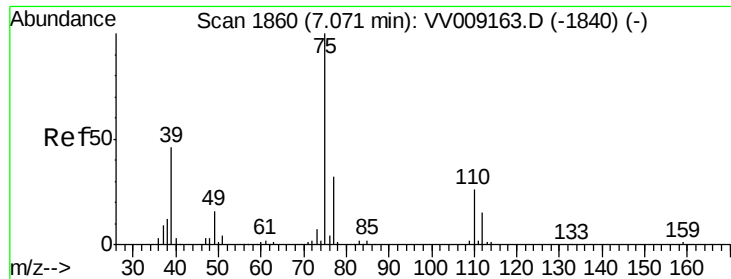
Tot Ion: 63 Resp: 226305
 Ion Ratio Lower Upper
 63 100
 112 5.2 3.9 5.9



#41
 Bromodichloromethane
 Concen: 99.895 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Tgt Ion: 83 Resp: 330922
 Ion Ratio Lower Upper
 83 100
 85 63.5 45.3 84.1
 127 9.3 7.8 11.6



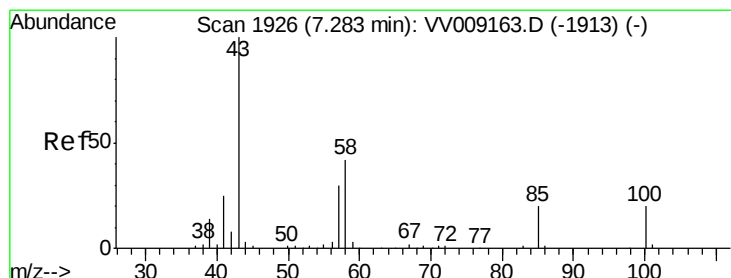
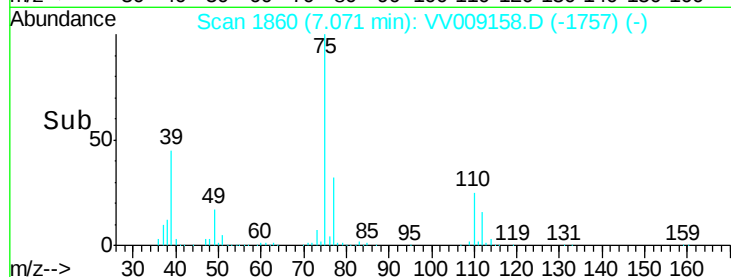
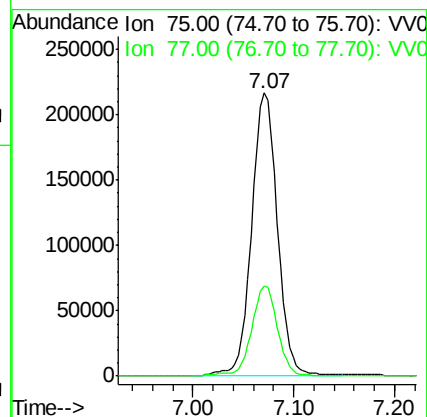
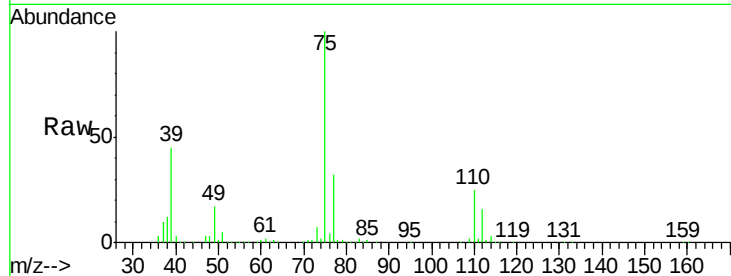


#42

cis-1,3-Dichloropropene
Concen: 100.230 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV009158.D
Acq: 04 Jan 2019 12:37

Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

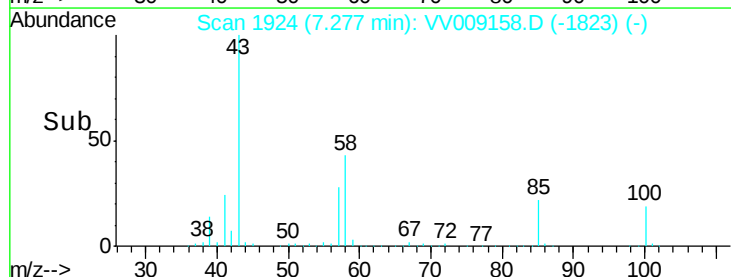
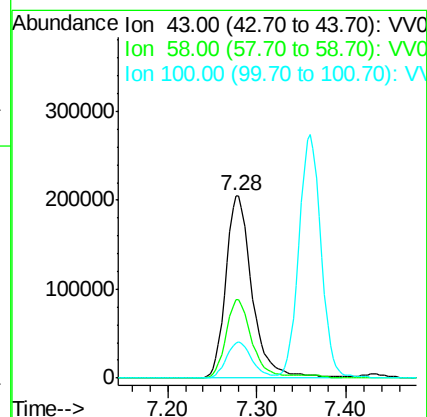
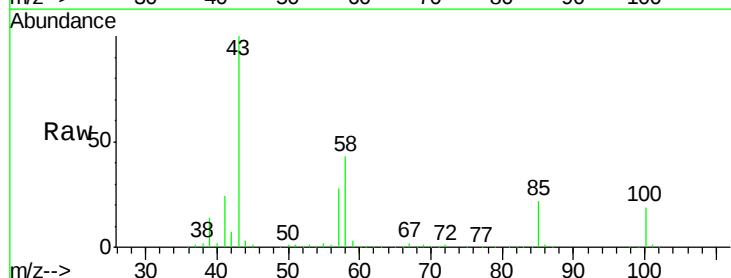
Tot Ion: 75 Resp: 383852
Ion Ratio Lower Upper
75 100
77 31.9 22.8 42.4

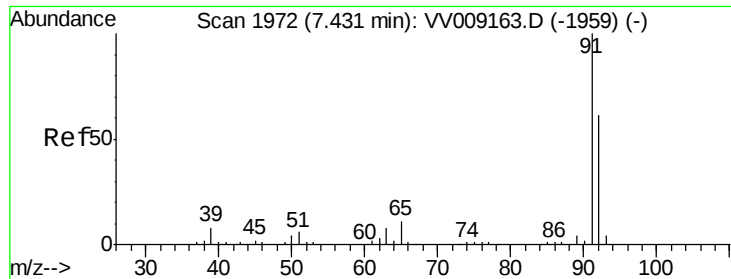


#43

4-Methyl-2-pentanone
Concen: 182.457 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. -0.01 min
Lab File: VV009158.D
Acq: 04 Jan 2019 12:37

Tgt Ion: 43 Resp: 420321
Ion Ratio Lower Upper
43 100
58 41.7 33.4 50.2
100 19.2 15.2 22.8





#44

Toluene

Concen: 92.978 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

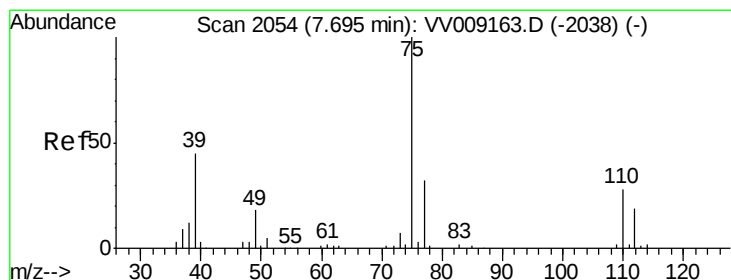
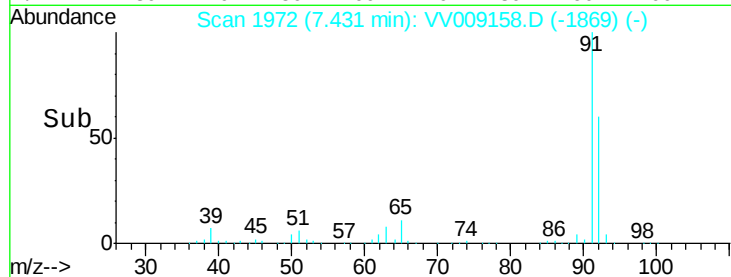
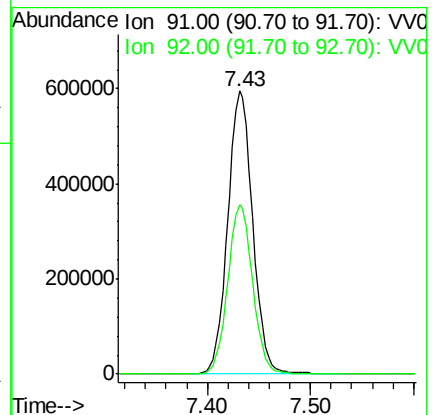
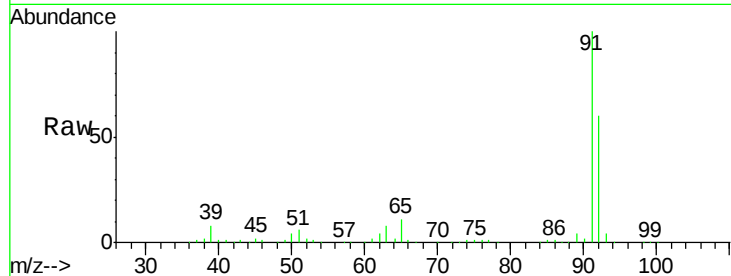
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

Tot Ion: 91 Resp: 1005143

Ion Ratio Lower Upper

91 100

92 59.8 41.7 77.5



#45

trans-1,3-Dichloropropene

Concen: 102.445 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009158.D

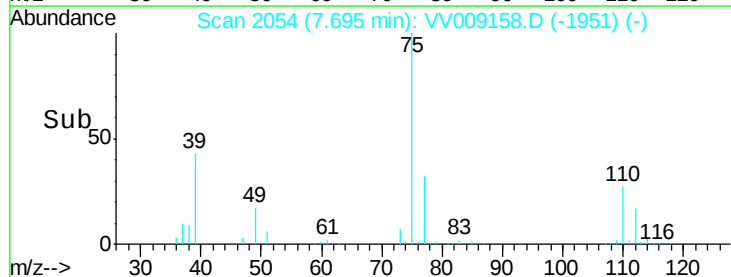
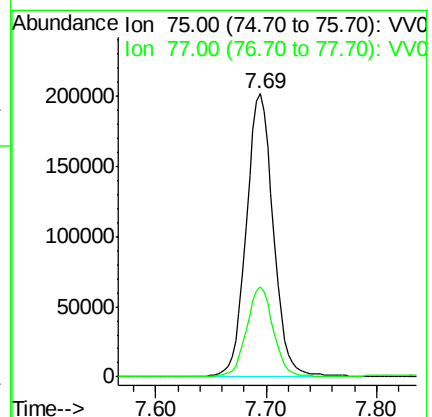
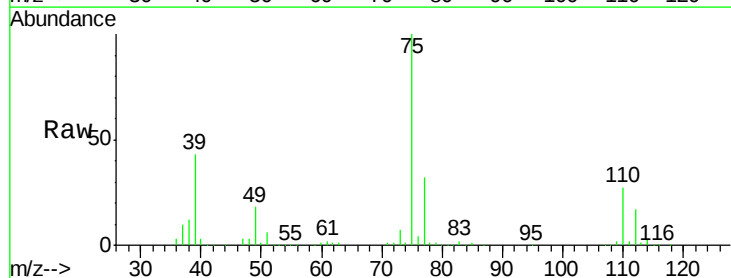
Acq: 04 Jan 2019 12:37

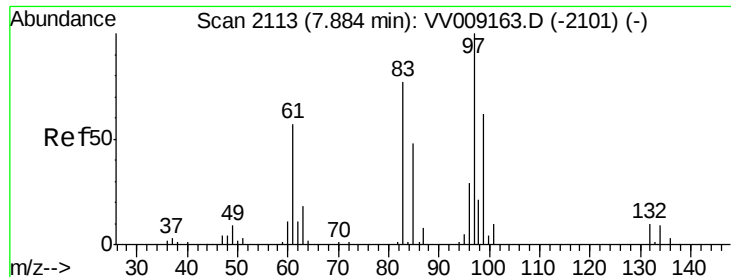
Tgt Ion: 75 Resp: 343498

Ion Ratio Lower Upper

75 100

77 31.8 22.3 41.5

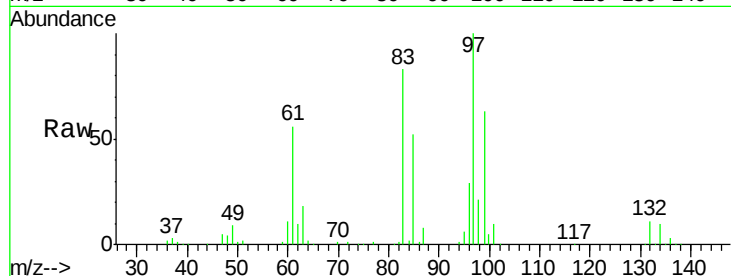




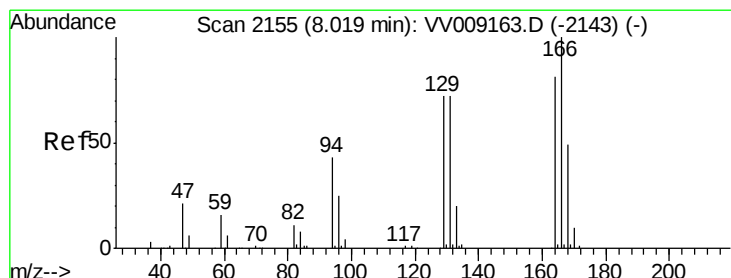
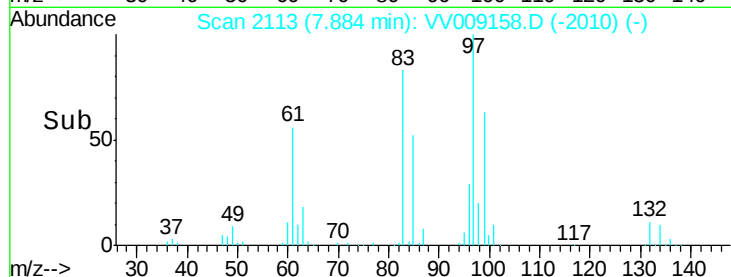
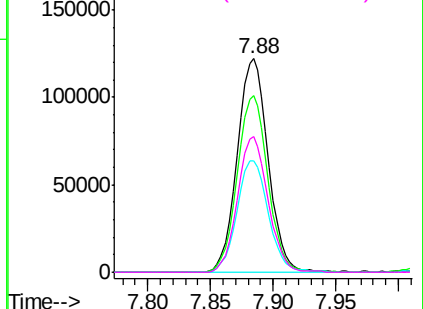
#46
 1,1,2-Trichloroethane
 Concen: 97.673 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

Tot Ion:	97	Resp:	208635
Ion	Ratio	Lower	Upper
97	100		
83	82.7	56.0	104.0
85	52.2	36.5	67.9
99	63.3	43.5	80.9



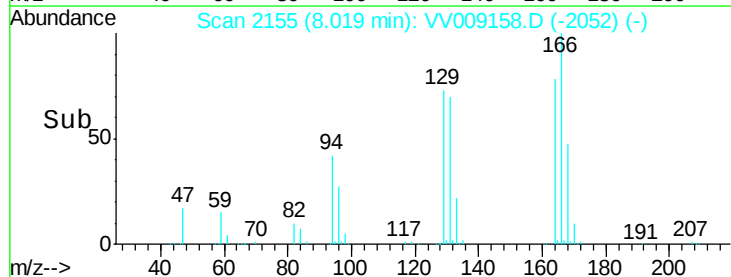
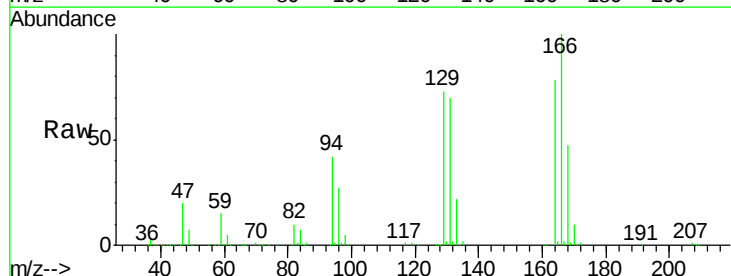
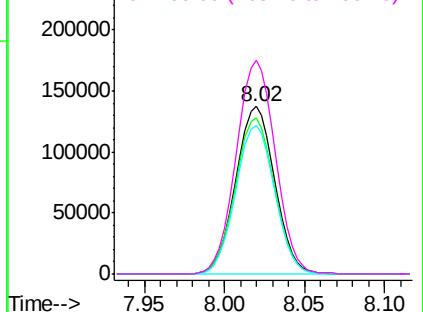
Abundance Ion 97.00 (96.70 to 97.70): VV009158.D (-2010) (-)

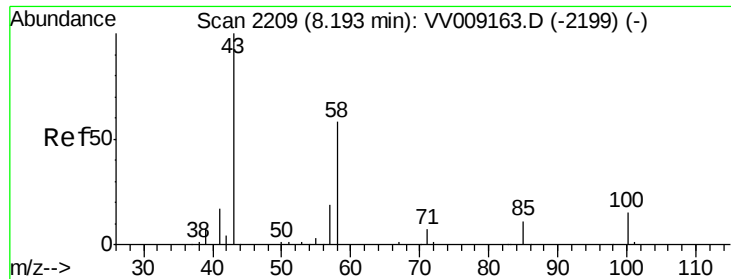


#47
 Tetrachloroethene
 Concen: 91.238 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Tgt Ion:	164	Resp:	228339
Ion	Ratio	Lower	Upper
164	100		
129	93.1	63.5	117.9
131	88.9	63.2	117.4
166	127.6	88.0	163.4

Abundance Ion 164.00 (163.70 to 164.70): VV009158.D (-2052) (-)

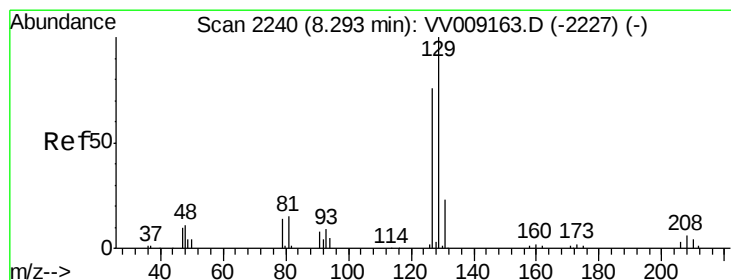
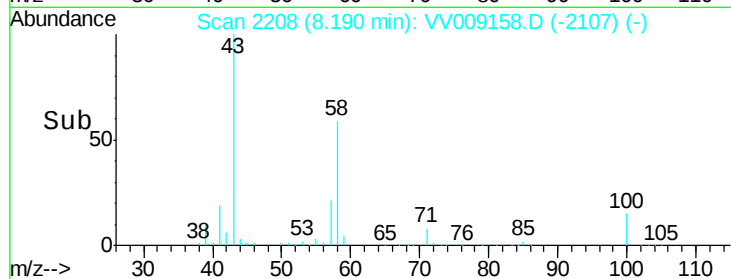
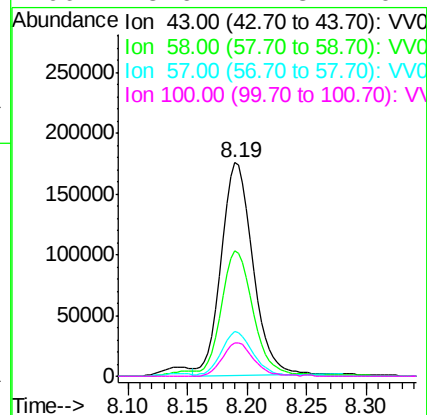
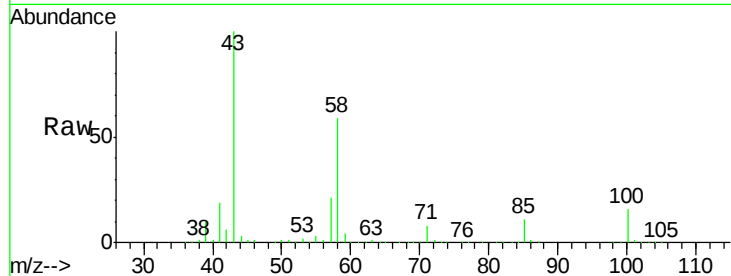




#49
2-Hexanone
Concen: 191.090 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VV009158.D
Acq: 04 Jan 2019 12:37

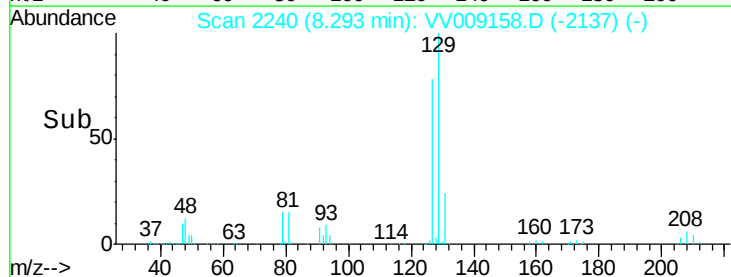
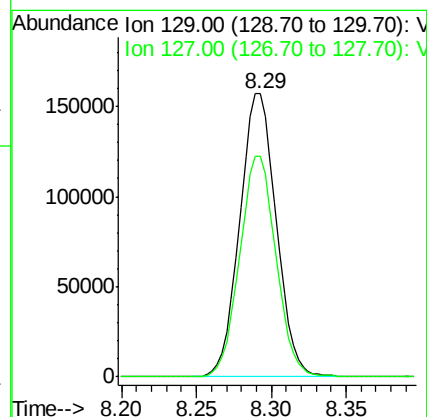
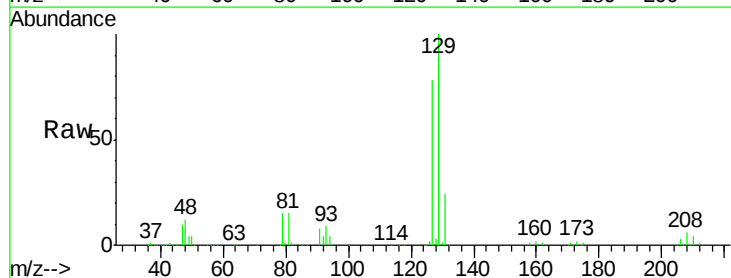
Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

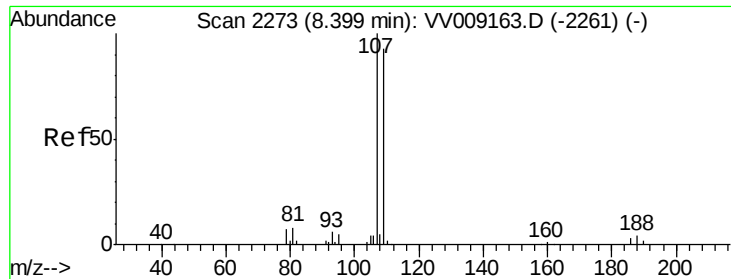
Tot Ion: 43 Resp: 323974
Ion Ratio Lower Upper
43 100
58 58.3 46.7 70.1
57 20.9 15.5 23.3
100 15.6 12.8 19.2



#50
Dibromochloromethane
Concen: 101.974 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. -0.00 min
Lab File: VV009158.D
Acq: 04 Jan 2019 12:37

Tgt Ion: 129 Resp: 267595
Ion Ratio Lower Upper
129 100
127 77.9 53.1 98.7





#51

1,2-Dibromoethane

Concen: 96.904 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

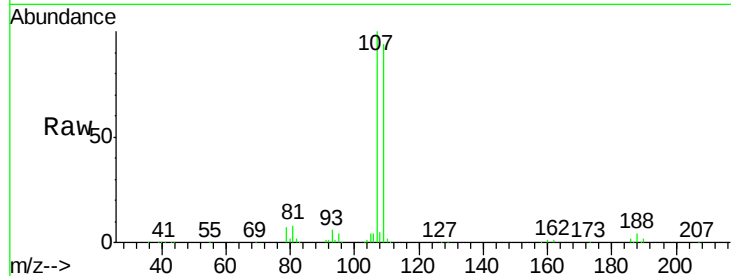
Tot Ion:107 Resp: 216440

Ion Ratio Lower Upper

107 100

109 93.5 63.6 118.0

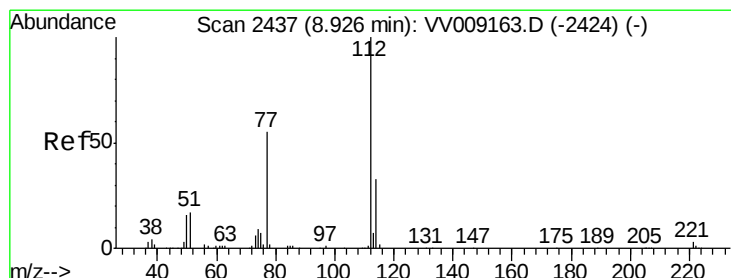
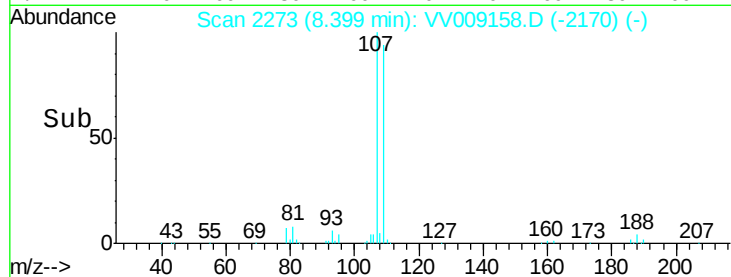
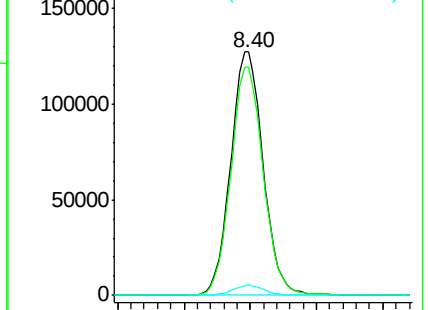
188 4.1 3.3 4.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 92.550 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

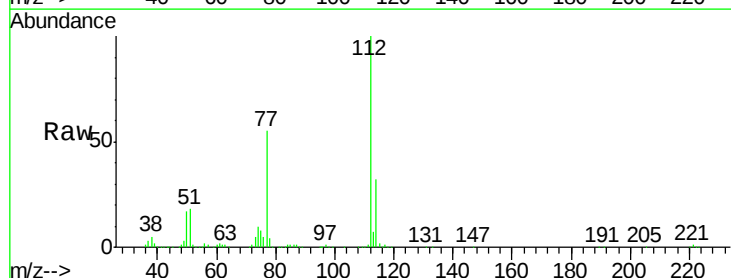
Tgt Ion:112 Resp: 686492

Ion Ratio Lower Upper

112 100

77 55.3 44.6 66.8

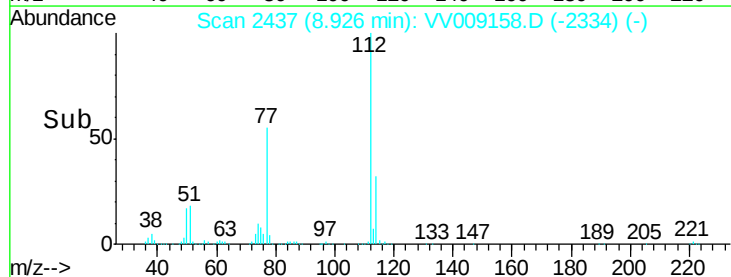
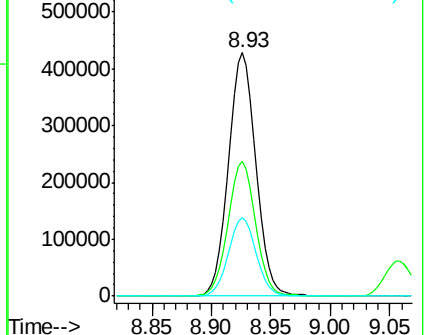
114 32.0 22.5 41.9

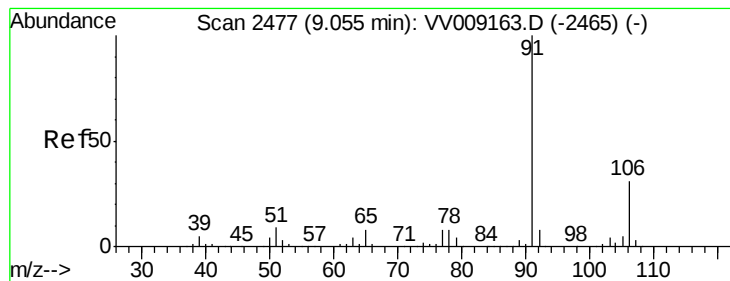


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 95.170 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

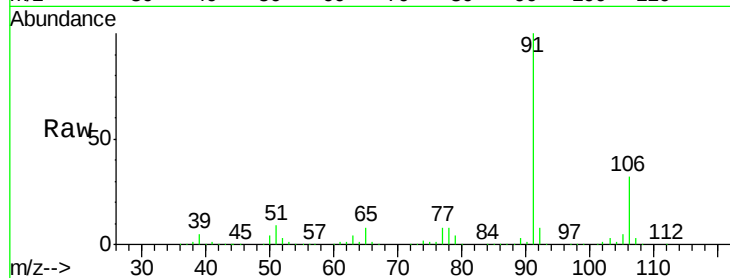
VSTD10066

Tot Ion: 91 Resp: 1163524

Ion Ratio Lower Upper

91 100

106 31.6 22.5 41.9



Abundance Ion 91.00 (90.70 to 91.70): VV009163.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV009163.D (-2465) (-)

800000

600000

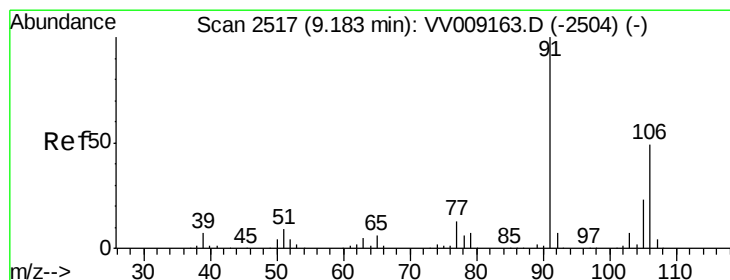
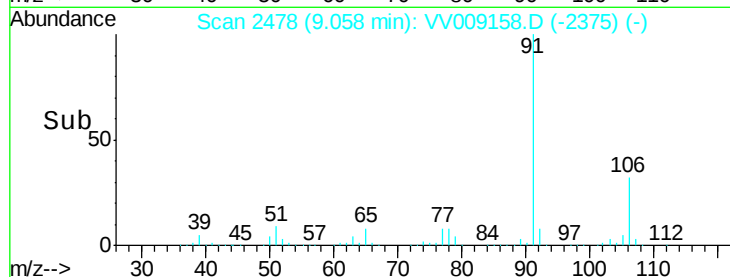
400000

200000

0

9.00 9.05 9.10 9.15

Time-->



#54

m,p-Xylene

Concen: 94.690 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV009158.D

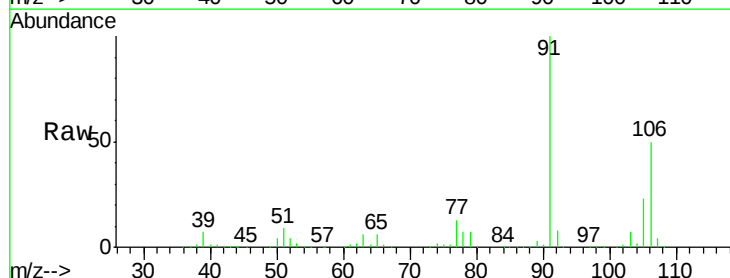
Acq: 04 Jan 2019 12:37

Tgt Ion: 106 Resp: 451029

Ion Ratio Lower Upper

106 100

91 198.8 138.9 257.9



Abundance Ion 106.00 (105.70 to 106.70): VV009163.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV009163.D (-2504) (-)

600000

500000

400000

300000

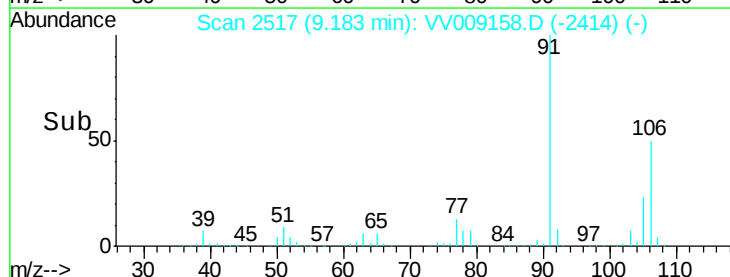
200000

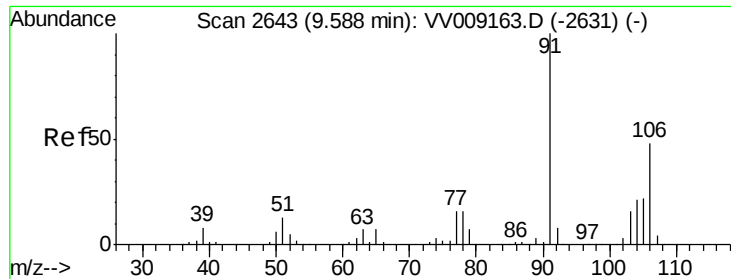
100000

0

9.10 9.20 9.30

Time-->

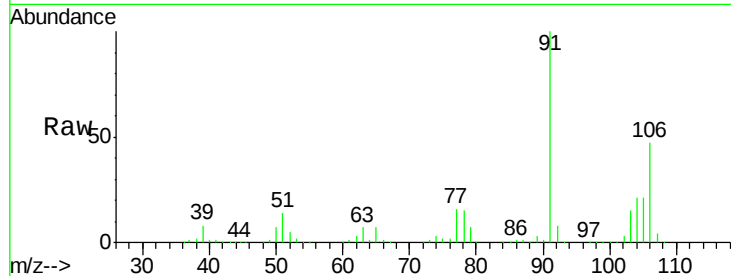




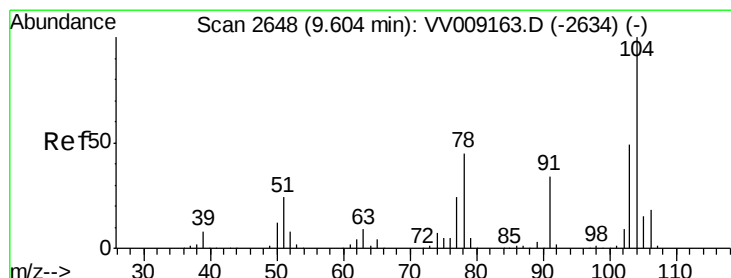
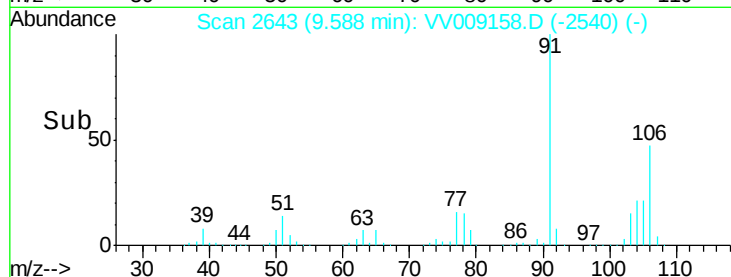
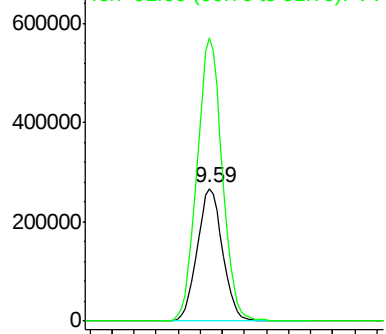
#55
o-xylene
Concen: 97.008 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV009158.D
Acq: 04 Jan 2019 12:37

Instrument :
MSVOA_V
ClientSampleId :
VSTD10066

Tot Ion:106 Resp: 427253
Ion Ratio Lower Upper
106 100
91 213.7 148.7 276.1

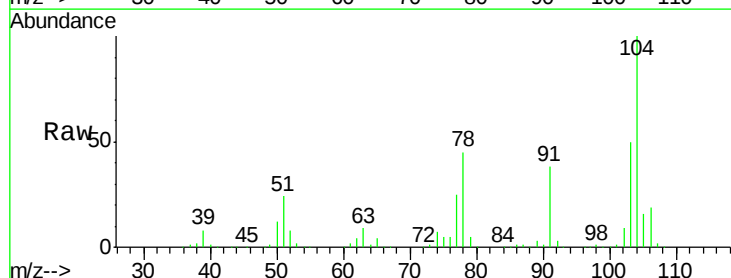


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

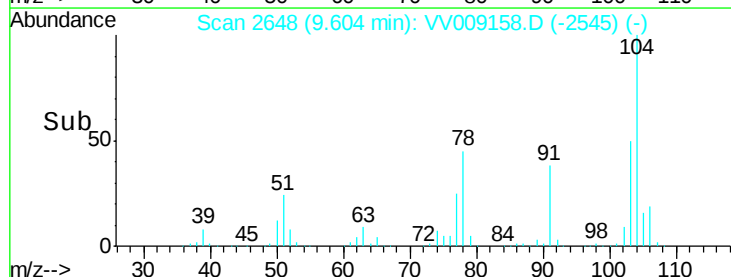
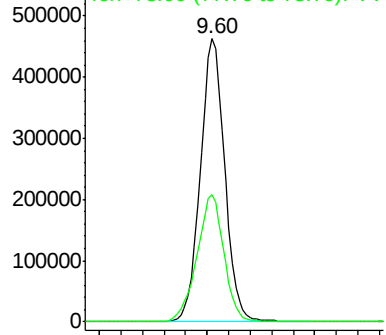


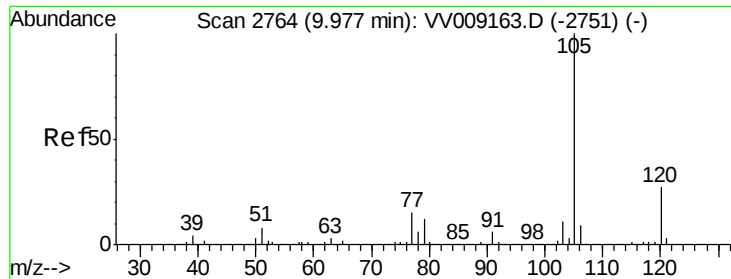
#56
Styrene
Concen: 98.555 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV009158.D
Acq: 04 Jan 2019 12:37

Tgt Ion:104 Resp: 732143
Ion Ratio Lower Upper
104 100
78 45.0 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: 97.873 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

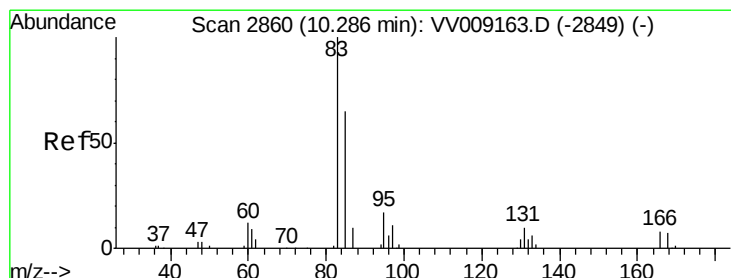
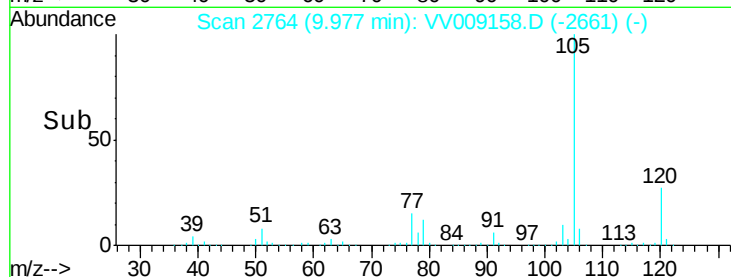
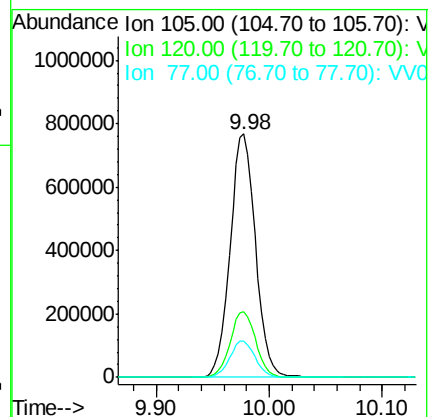
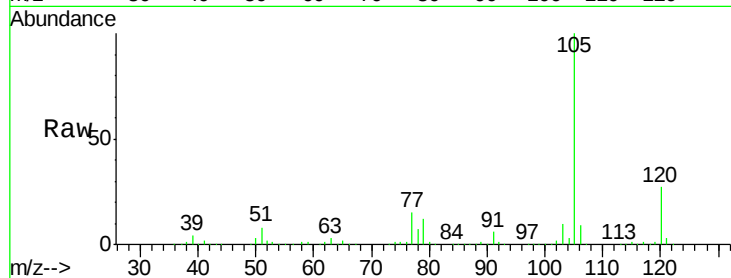
Tot Ion:105 Resp: 1195997

Ion Ratio Lower Upper

105 100

120 27.2 21.9 32.9

77 14.9 12.1 18.1



#58

1,1,2,2-Tetrachloroethane

Concen: 99.836 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

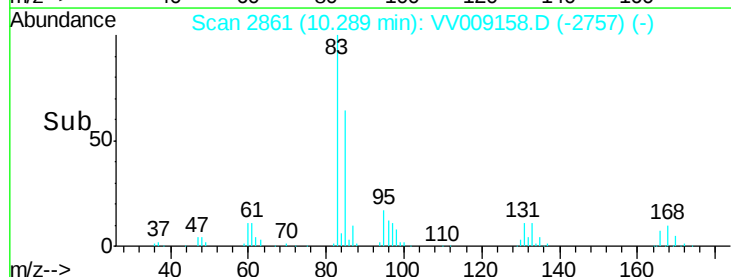
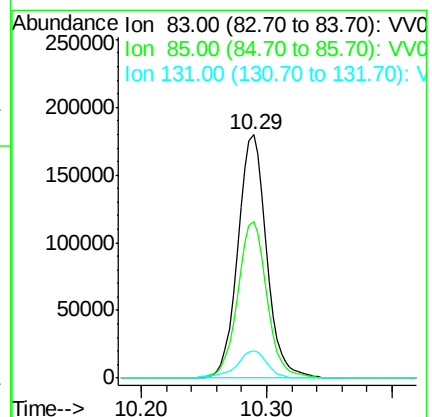
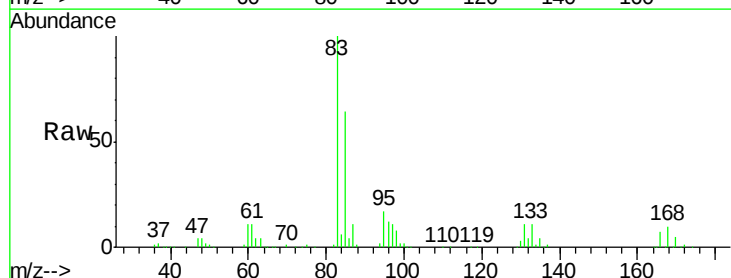
Tgt Ion: 83 Resp: 285728

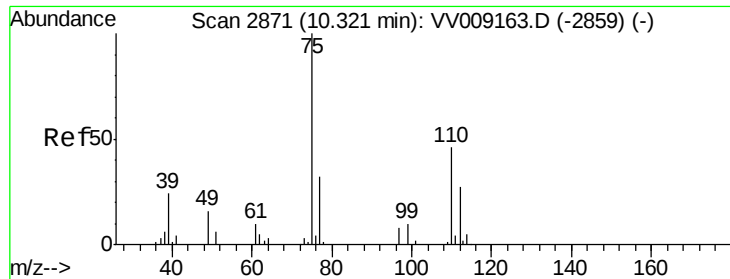
Ion Ratio Lower Upper

83 100

85 64.1 45.4 84.2

131 11.3 9.4 14.0





#59

1,2,3-Trichloropropane

Concen: 96.716 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

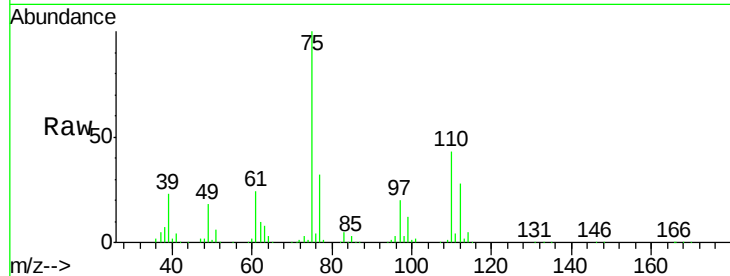
VSTD10066

Tot Ion: 75 Resp: 221239

Ion Ratio Lower Upper

75 100

77 32.6 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VV009163.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009163.D (-2859) (-)

10.32

150000

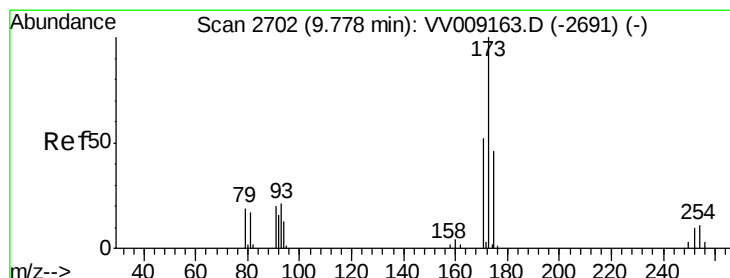
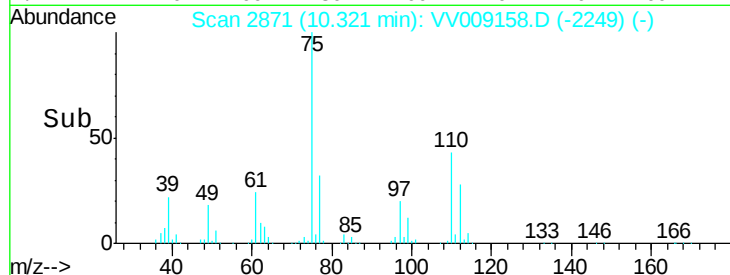
100000

50000

0

Time-->

10.25 10.30 10.35 10.40



#62

Bromoform

Concen: 104.384 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

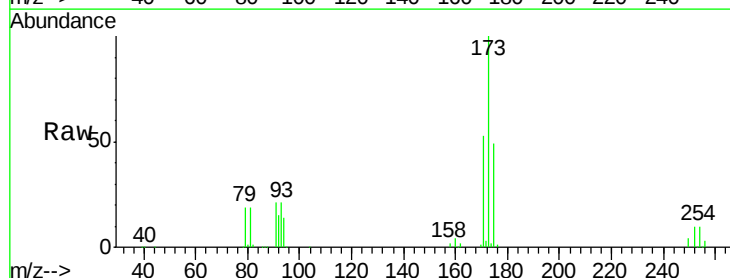
Tgt Ion: 173 Resp: 179872

Ion Ratio Lower Upper

173 100

175 48.8 38.4 57.6

254 9.7 8.0 12.0



Abundance Ion 173.00 (172.70 to 173.70): VV009163.D (-2691) (-)

Ion 175.00 (174.70 to 175.70): VV009163.D (-2691) (-)

Ion 254.00 (253.70 to 254.70): VV009163.D (-2691) (-)

9.78

150000

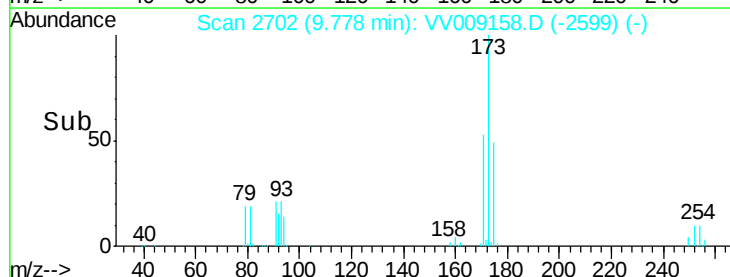
100000

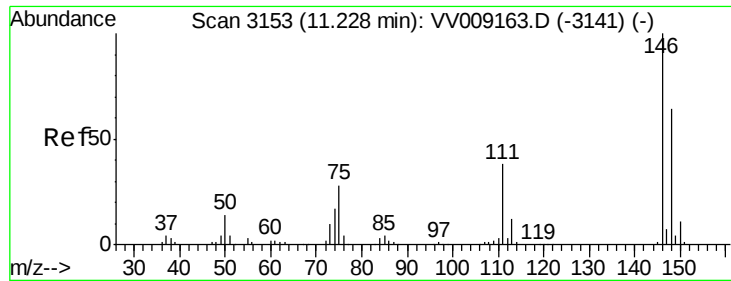
50000

0

Time-->

9.70 9.75 9.80 9.85

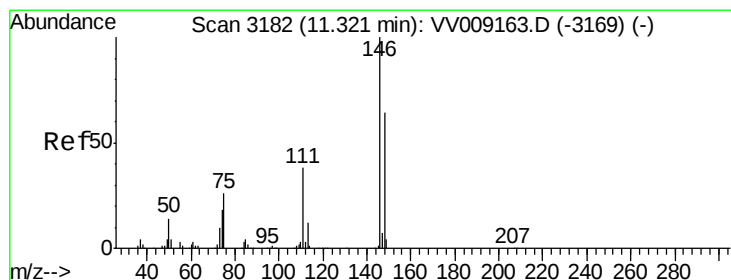
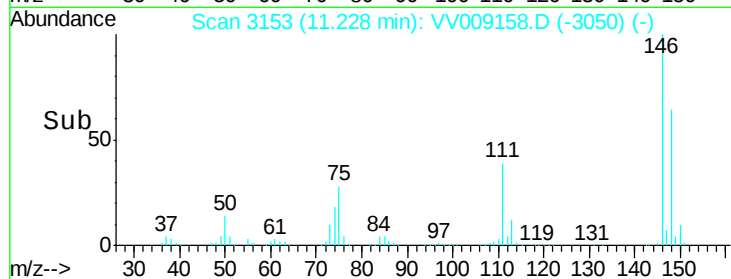
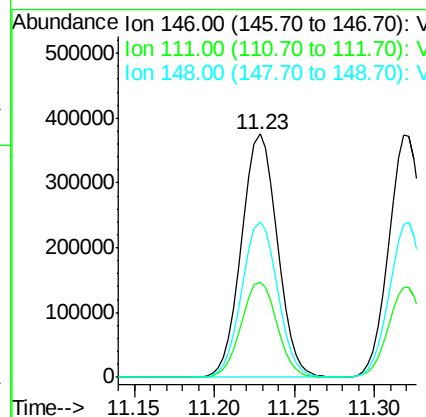
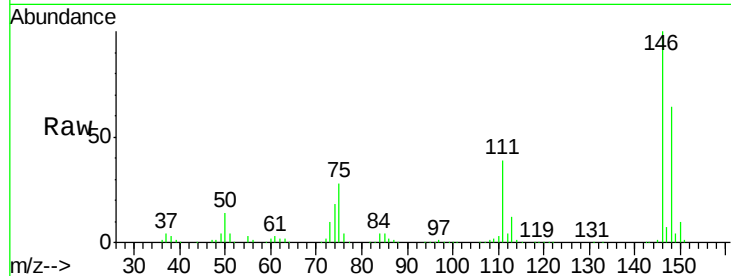




#63
 1,3-Dichlorobenzene
 Concen: 93.349 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

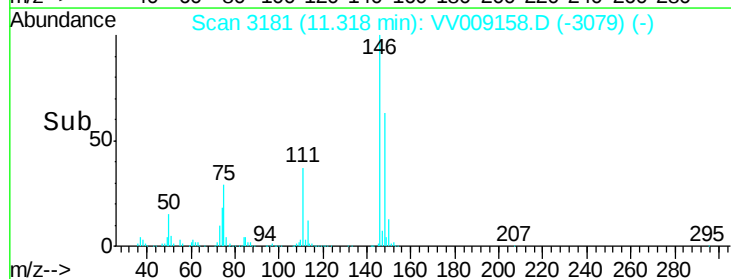
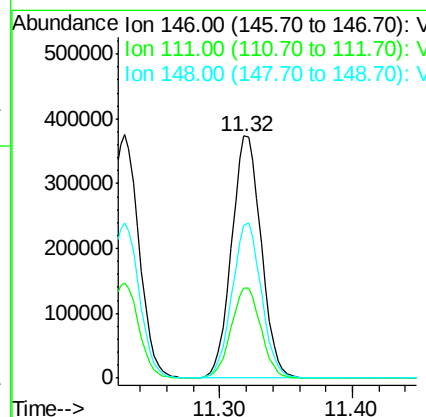
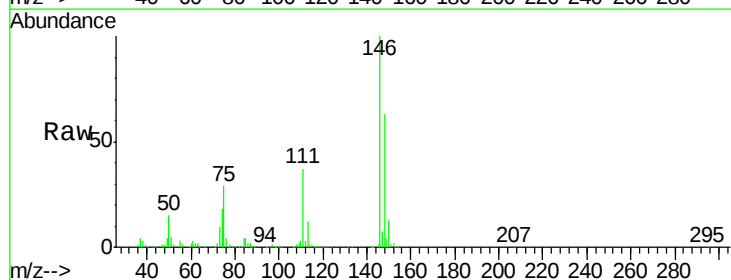
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

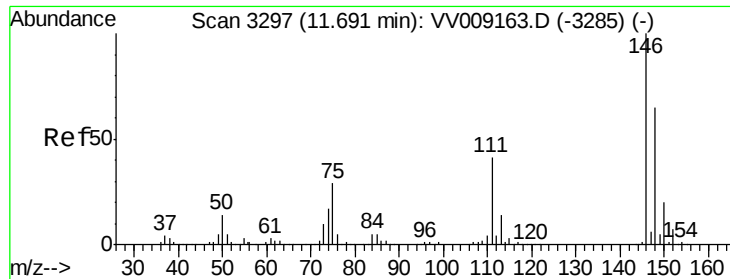
Tot Ion:146 Resp: 573879
 Ion Ratio Lower Upper
 146 100
 111 39.3 28.0 52.0
 148 63.8 45.6 84.8



#64
 1,4-Dichlorobenzene
 Concen: 90.381 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Tgt Ion:146 Resp: 579180
 Ion Ratio Lower Upper
 146 100
 111 37.4 26.0 48.4
 148 63.3 43.4 80.6





#65

1,2-Dichlorobenzene

Concen: 92.421 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

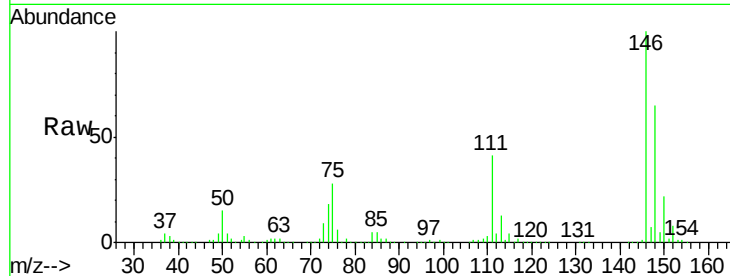
Tot Ion:146 Resp: 541226

Ion Ratio Lower Upper

146 100

111 40.6 32.2 48.4

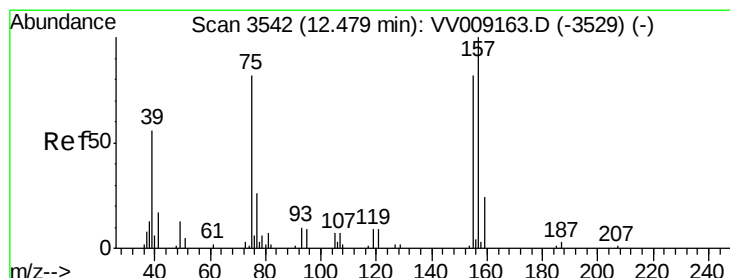
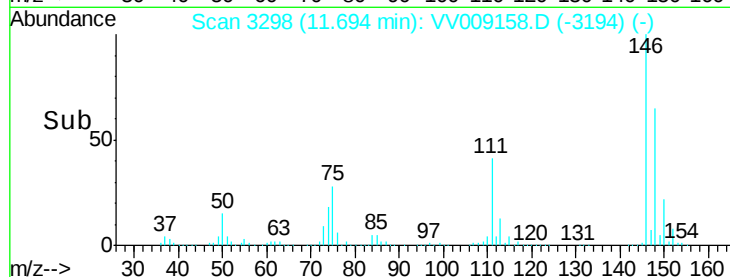
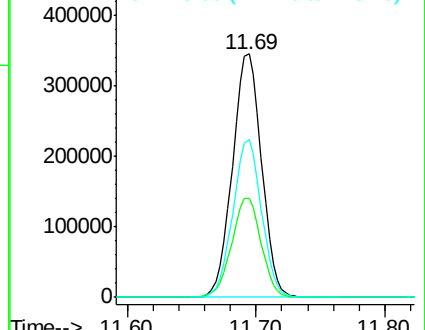
148 64.7 50.4 75.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 101.097 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

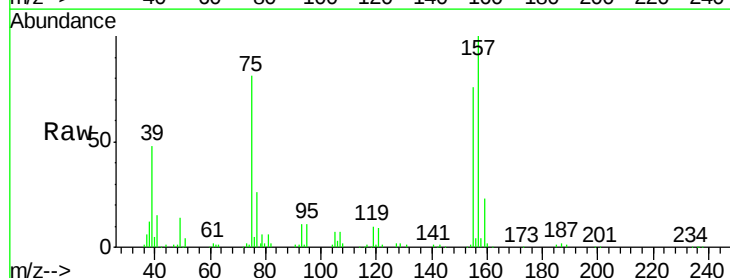
Tgt Ion: 75 Resp: 61464

Ion Ratio Lower Upper

75 100

157 122.8 96.9 145.3

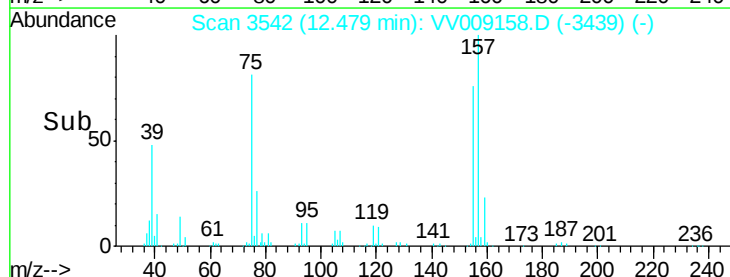
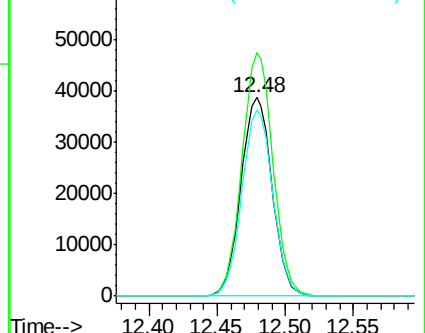
155 93.9 68.0 102.0

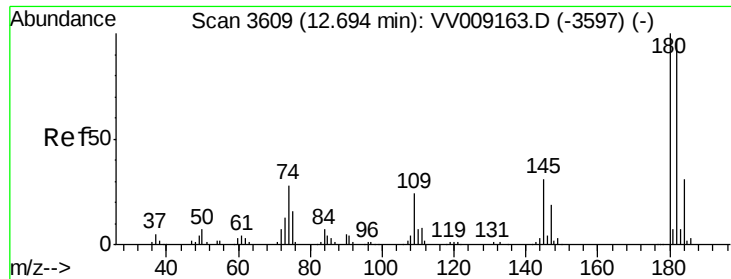


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

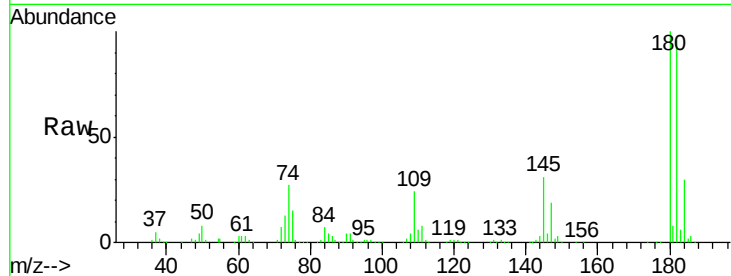




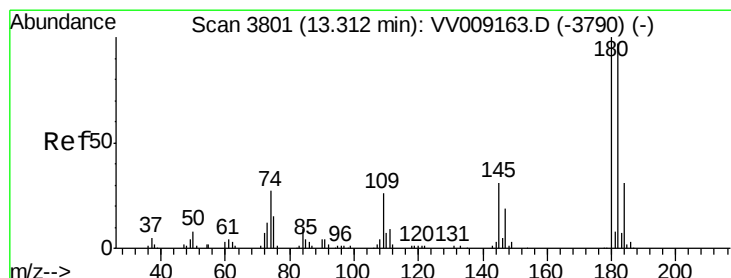
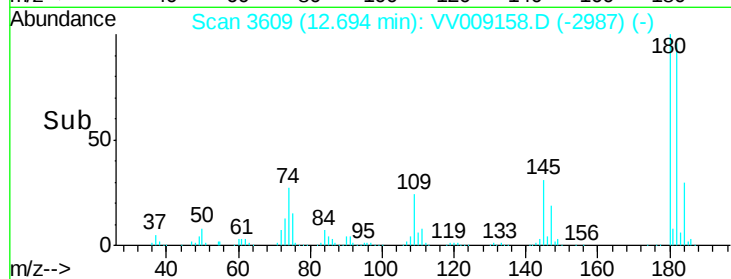
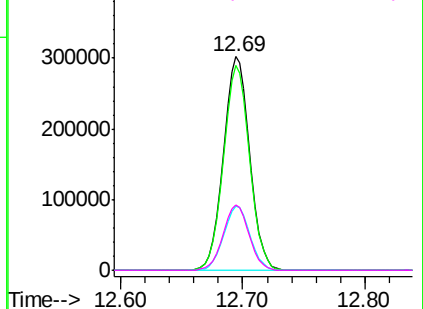
#67
 1,3,5-Trichlorobenzene
 Concen: 91.834 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10066

Tot Ion:180 Resp: 455320
 Ion Ratio Lower Upper
 180 100
 182 95.8 75.3 112.9
 184 30.2 24.6 37.0
 145 30.4 23.9 35.9

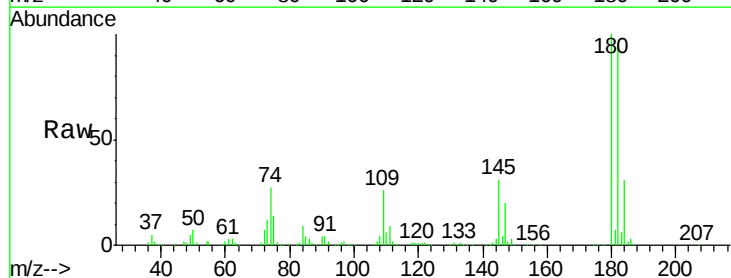


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

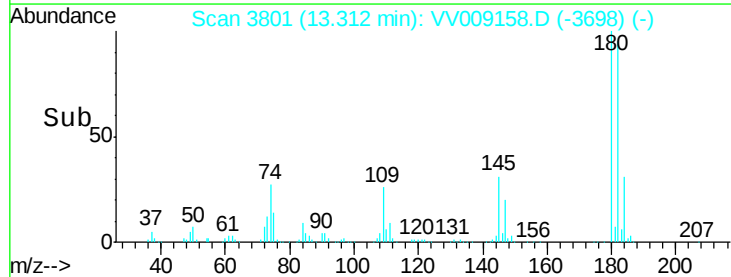
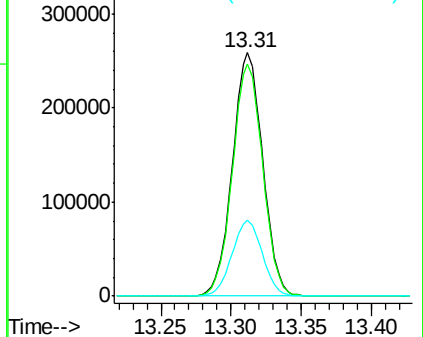


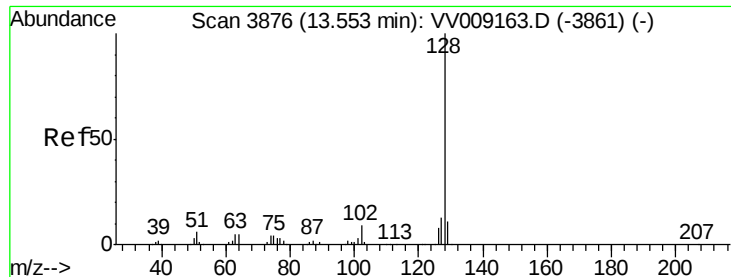
#68
 1,2,4-trichlorobenzene
 Concen: 96.425 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009158.D
 Acq: 04 Jan 2019 12:37

Tgt Ion:180 Resp: 389135
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.2 114.4
 145 31.1 25.4 38.0



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





#69

Naphthalene

Concen: 108.849 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD10066

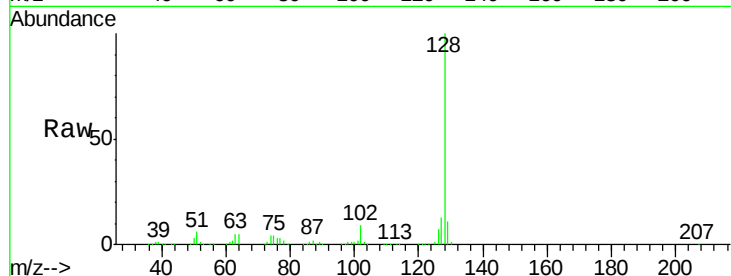
Tot Ion:128 Resp: 894737

Ion Ratio Lower Upper

128 100

129 10.8 9.0 13.4

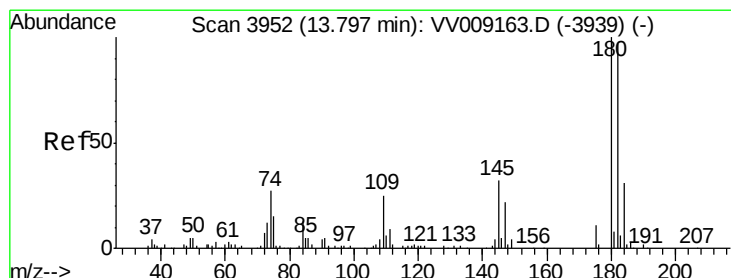
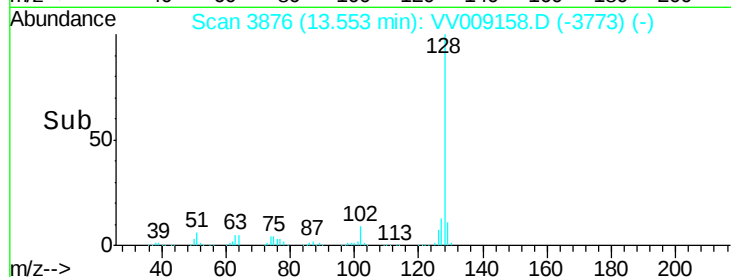
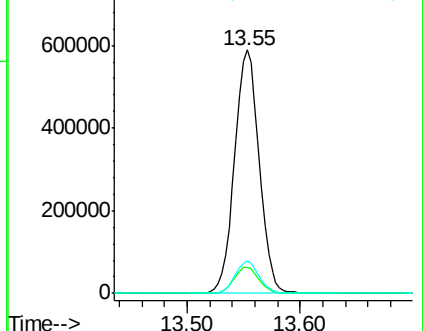
127 13.0 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 96.036 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009158.D

Acq: 04 Jan 2019 12:37

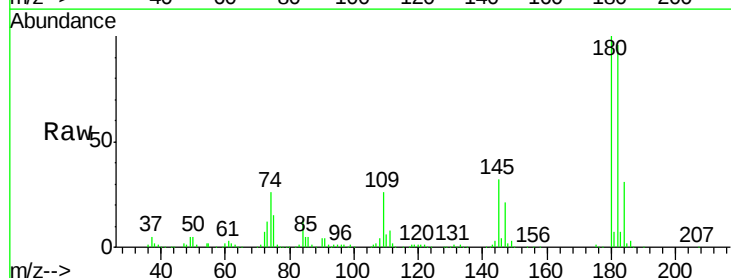
Tgt Ion:180 Resp: 355675

Ion Ratio Lower Upper

180 100

182 96.0 74.4 111.6

145 32.3 25.7 38.5



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

