

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111220\
 Data File : VV019365.D
 Acq On : 12 Nov 2020 20:33
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05096

Quant Time: Nov 13 01:15:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM111220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 13 01:06:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	203346	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	200448	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	122848	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	80135	52.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.56%
7) Chloroethane-d5	1.58	69	64877	52.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.18%
11) 1,1-Dichloroethene-d2	2.12	63	165015	52.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	104.64%
21) 2-Butanone-d5	3.91	46	85892	108.66	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.66%
24) Chloroform-d	4.37	84	150532	51.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.68%
26) 1,2-Dichloroethane-d4	5.05	65	103926	51.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.78%
32) Benzene-d6	5.07	84	268013	51.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.70%
36) 1,2-Dichloropropane-d6	6.09	67	74652	52.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	104.04%
41) Toluene-d8	7.33	98	263012	52.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.12%
43) trans-1,3-Dichloropropene-	7.64	79	46041	50.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.56%
47) 2-Hexanone-d5	8.11	63	63463	117.93	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	117.93%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	108487	55.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	110.70%
64) 1,2-Dichlorobenzene-d4	11.65	152	119500	50.93	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.86%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	89039	52.219	ug/L 96
3) Chloromethane	1.25	50	84750	55.626	ug/L 99
5) Vinyl chloride	1.32	62	88505	53.888	ug/L 99
6) Bromomethane	1.53	94	61826	52.648	ug/L 98
8) Chloroethane	1.60	64	56078	54.145	ug/L 99
9) Trichlorofluoromethane	1.76	101	155169	52.667	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	68131	50.738	ug/L 99
12) 1,1-Dichloroethene	2.13	96	72188	52.671	ug/L 91
13) Acetone	2.19	43	64610	95.968	ug/L 96
14) Carbon disulfide	2.31	76	193105	50.956	ug/L 99
15) Methyl Acetate	2.45	43	62338	54.846	ug/L 100
16) Methylene chloride	2.52	84	72679	52.809	ug/L 98
17) trans-1,2-Dichloroethene	2.78	96	68447	51.919	ug/L 98
18) Methyl tert-butyl Ether	2.78	73	222731	52.586	ug/L 100
19) 1,1-Dichloroethane	3.21	63	121751	53.262	ug/L 98
20) cis-1,2-Dichloroethene	3.94	96	74182	53.154	ug/L 98
22) 2-Butanone	4.00	43	83689	108.403	ug/L 98

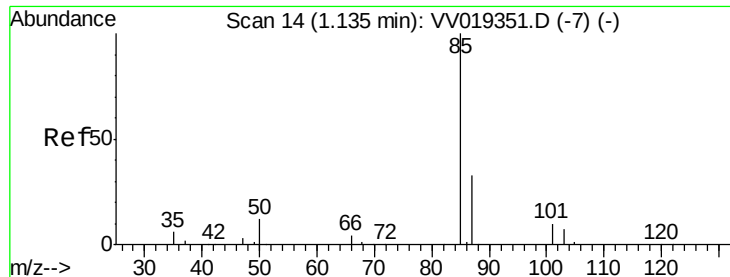
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111220\
 Data File : VV019365.D
 Acq On : 12 Nov 2020 20:33
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05096

Quant Time: Nov 13 01:15:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM111220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 13 01:06:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	43278	53.771	ug/L	95
25) Chloroform	4.40	83	139217	52.363	ug/L	96
27) 1,2-Dichloroethane	5.15	62	117568	52.199	ug/L	100
29) Cyclohexane	4.70	56	88801	51.257	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	136641	51.894	ug/L	99
31) Carbon tetrachloride	4.86	117	123750	52.189	ug/L	99
33) Benzene	5.13	78	269013	53.201	ug/L	100
34) Trichloroethene	5.94	95	78335	51.366	ug/L	94
35) Methylcyclohexane	6.15	83	89456	47.464	ug/L	99
37) 1,2-Dichloropropane	6.20	63	65293	53.129	ug/L	99
38) Bromodichloromethane	6.53	83	103251	51.686	ug/L	98
39) cis-1,3-Dichloropropene	7.05	75	106212	50.409	ug/L	100
40) 4-Methyl-2-pentanone	7.24	43	172035	110.942	ug/L	100
42) Toluene	7.41	91	303410	53.342	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	116123	51.743	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	71435	53.588	ug/L	98
46) Tetrachloroethene	8.00	164	68025	50.639	ug/L	99
48) 2-Hexanone	8.16	43	133854	110.142	ug/L	98
49) Dibromochloromethane	8.27	129	91773	53.645	ug/L	96
50) 1,2-Dibromoethane	8.37	107	78024	53.498	ug/L	95
51) Chlorobenzene	8.90	112	205743	52.597	ug/L	99
52) Ethylbenzene	9.03	91	335622	52.760	ug/L	100
53) m,p-Xylene	9.16	106	131981	53.580	ug/L	97
54) o-xylene	9.56	106	125753	52.791	ug/L	97
55) Styrene	9.58	104	231958	55.062	ug/L	99
56) Isopropylbenzene	9.95	105	339191	53.031	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	102012	56.004	ug/L	98
59) 1,2,3-Trichloropropane	10.29	75	90935	54.182	ug/L	98
61) Bromoform	9.75	173	73977	52.892	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	178771	51.795	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	185602	51.404	ug/L	98
65) 1,2-Dichlorobenzene	11.66	146	180705	51.744	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	27533	54.583	ug/L	96
67) 1,3,5-Trichlorobenzene	12.67	180	132138	49.939	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	125210	52.601	ug/L	98
69) Naphthalene	13.52	128	305069	54.269	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	128568	53.678	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 52.219 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

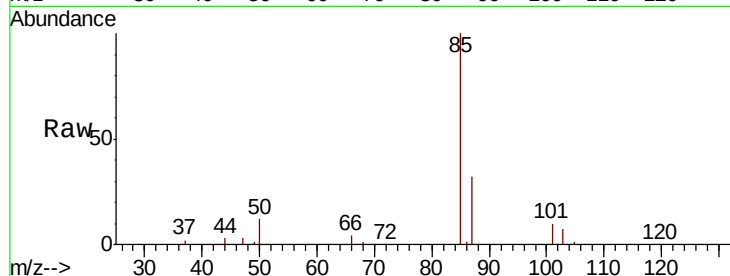
VSTD05096

Tot Ion: 85 Resp: 89039

Ion Ratio Lower Upper

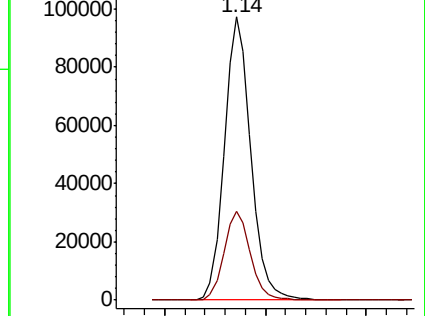
85 100

87 31.2 26.6 40.0

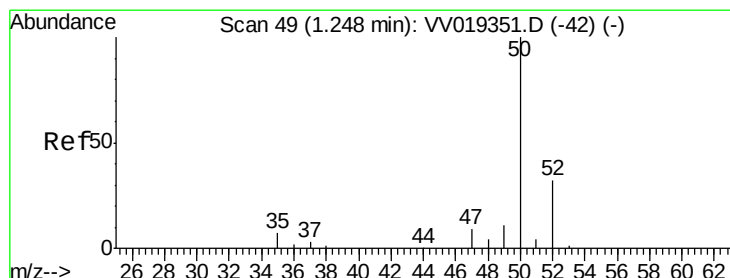
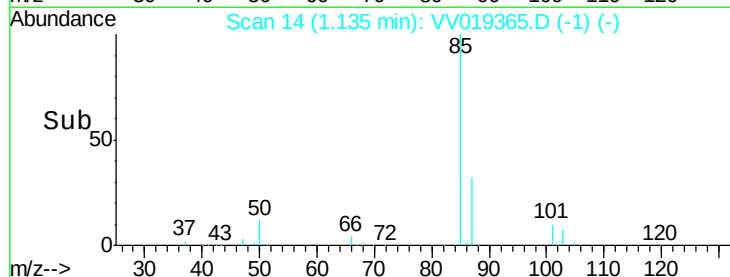


Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



Time-->



#3

Chloromethane

Concen: 55.626 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV019365.D

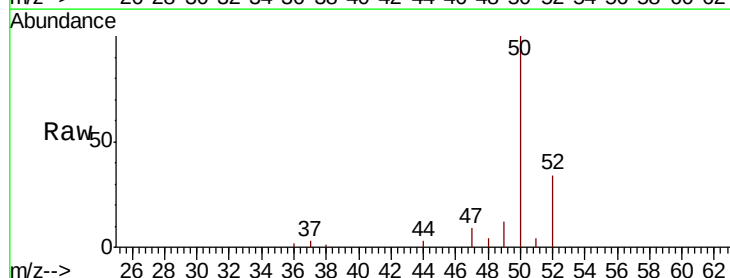
Acq: 12 Nov 2020 20:33

Tgt Ion: 50 Resp: 84750

Ion Ratio Lower Upper

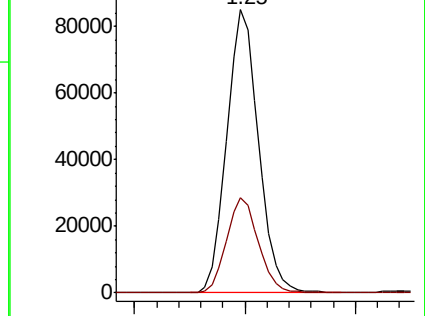
50 100

52 33.7 23.3 43.3

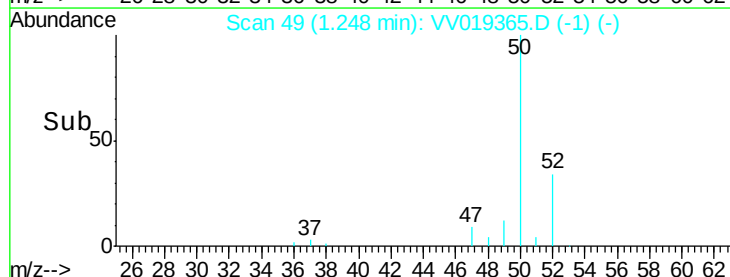


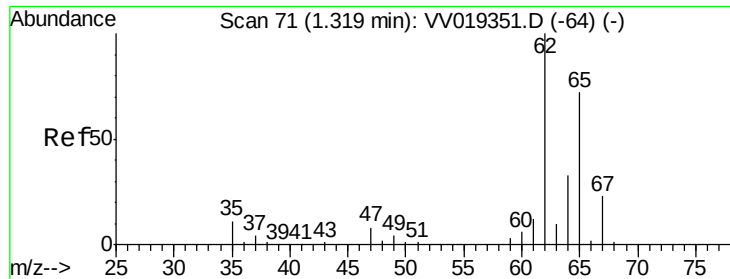
Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



Time-->





#5

Vinyl chloride

Concen: 53.888 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

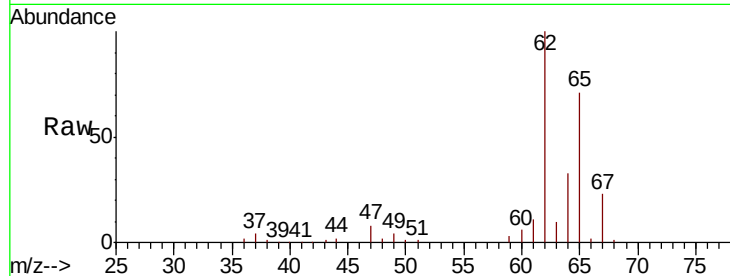
VSTD05096

Tot Ion: 62 Resp: 88505

Ion Ratio Lower Upper

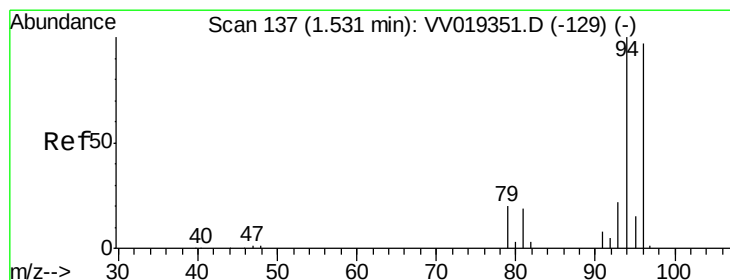
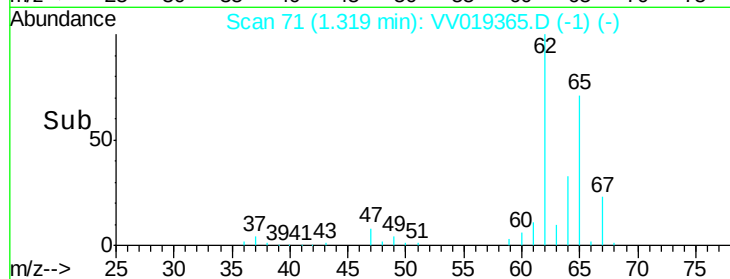
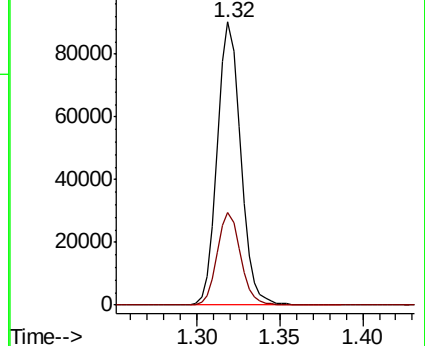
62 100

64 32.6 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 52.648 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV019365.D

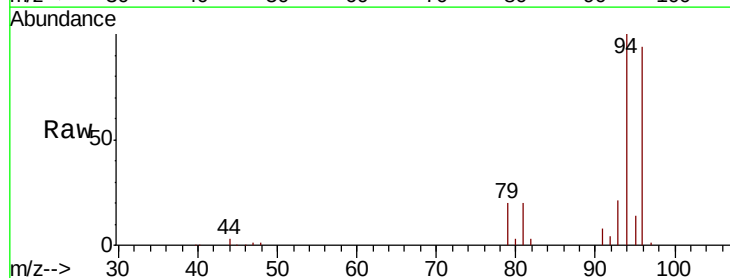
Acq: 12 Nov 2020 20:33

Tgt Ion: 94 Resp: 61826

Ion Ratio Lower Upper

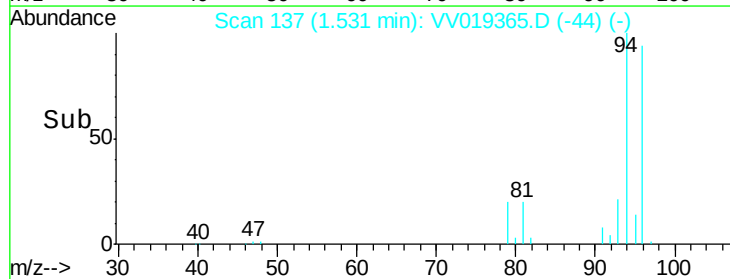
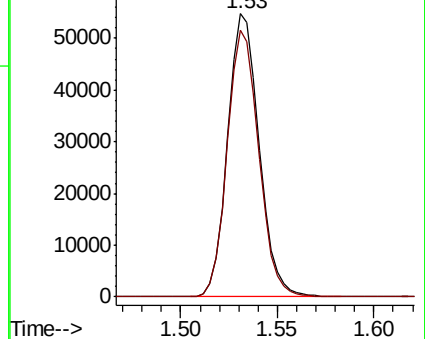
94 100

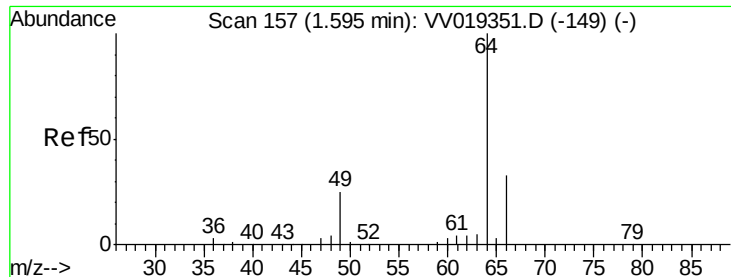
96 94.1 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

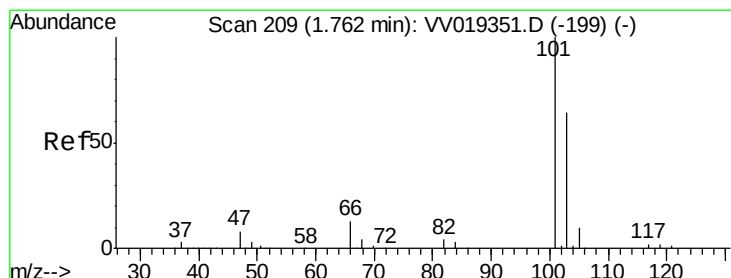
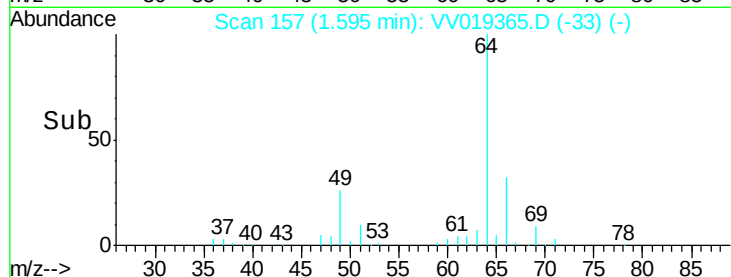
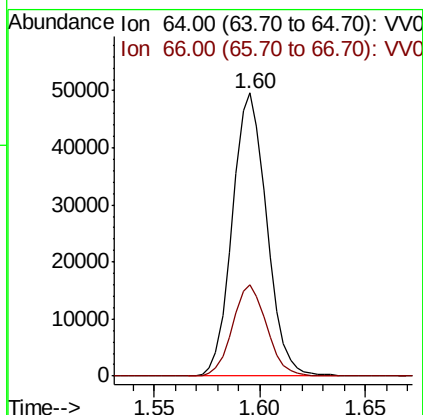
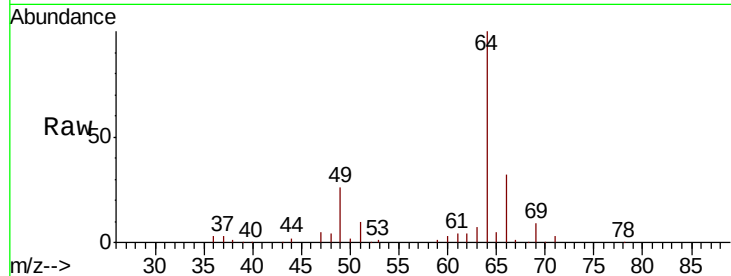




#8
Chloroethane
Concen: 54.145 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

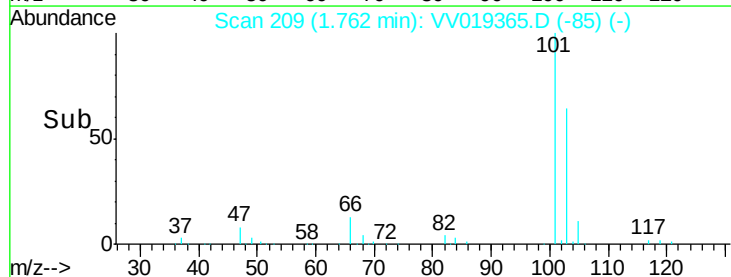
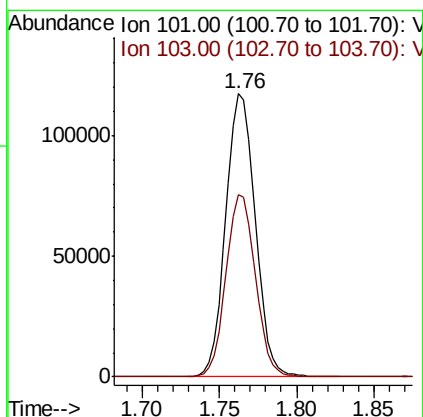
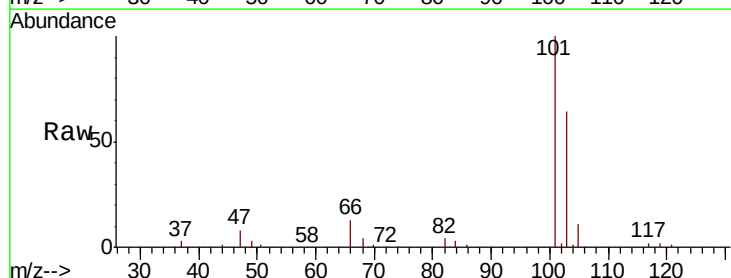
Instrument :
MSVOA_V
ClientSampleId :
VSTD05096

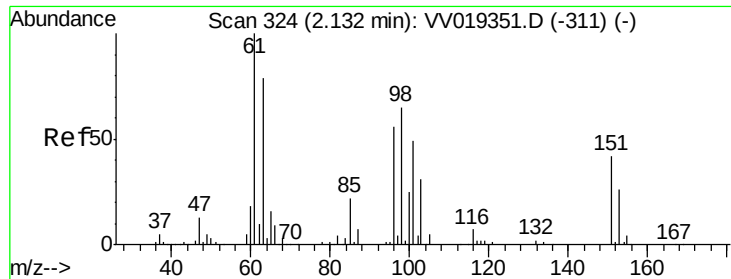
Tot Ion: 64 Resp: 56078
Ion Ratio Lower Upper
64 100
66 32.1 22.9 42.5



#9
Trichlorofluoromethane
Concen: 52.667 ug/L
RT: 1.76 min Scan# 209
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

Tgt Ion: 101 Resp: 155169
Ion Ratio Lower Upper
101 100
103 64.1 51.4 77.2





#10

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

Concen: 50.738 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05096

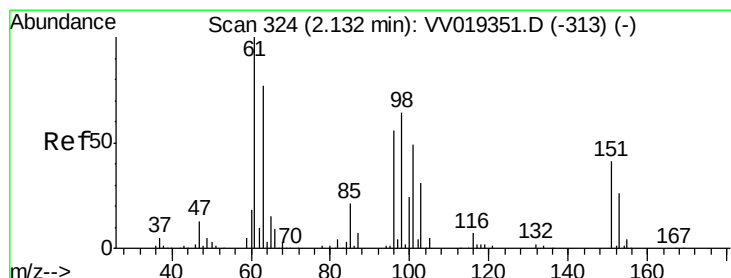
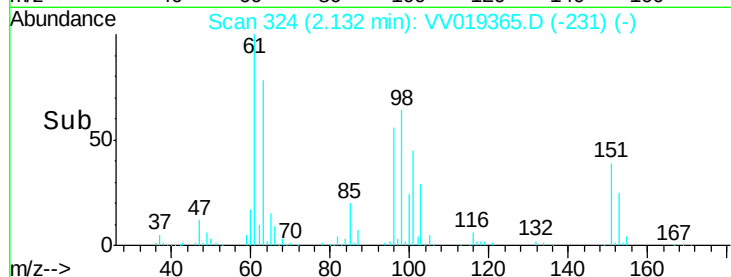
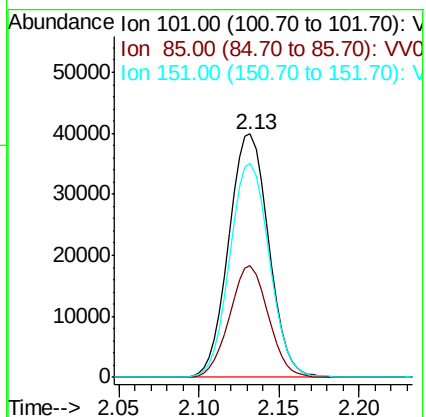
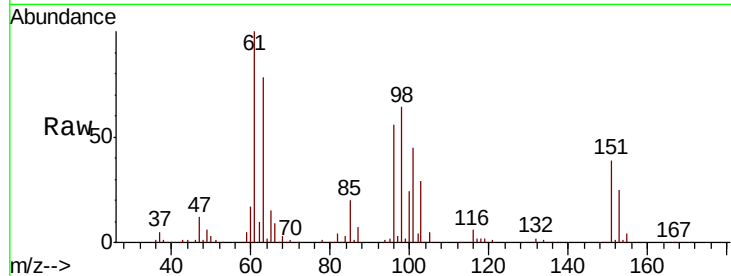
Tot Ion:101 Resp: 68131

Ion Ratio Lower Upper

101 100

85 44.4 35.8 53.6

151 87.1 69.2 103.8



#12

1,1-Dichloroethene

Concen: 52.671 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

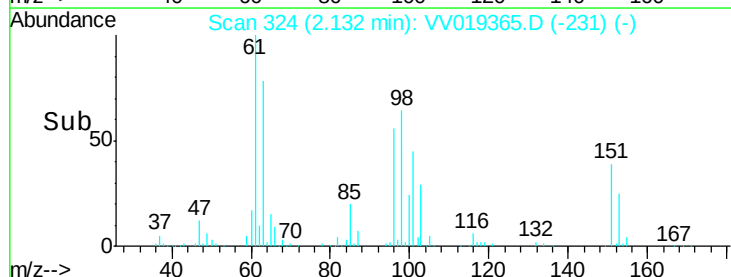
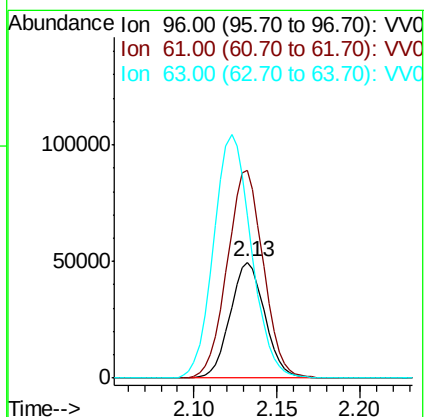
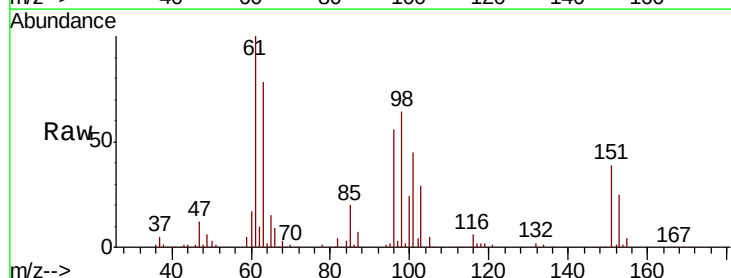
Tgt Ion: 96 Resp: 72188

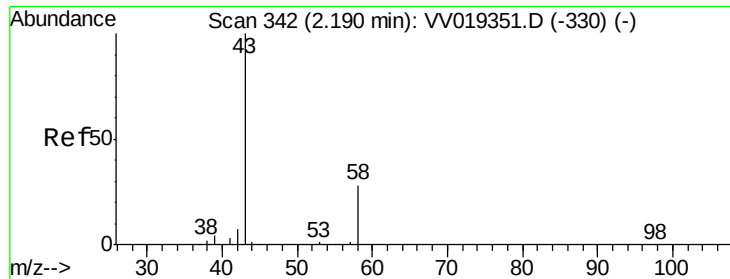
Ion Ratio Lower Upper

96 100

61 179.3 121.0 224.8

63 140.7 86.2 160.0





#13

Acetone

Concen: 95.968 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

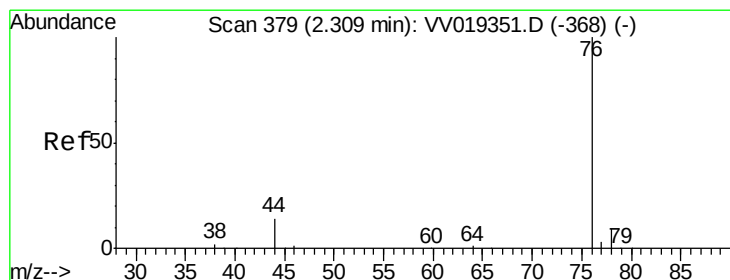
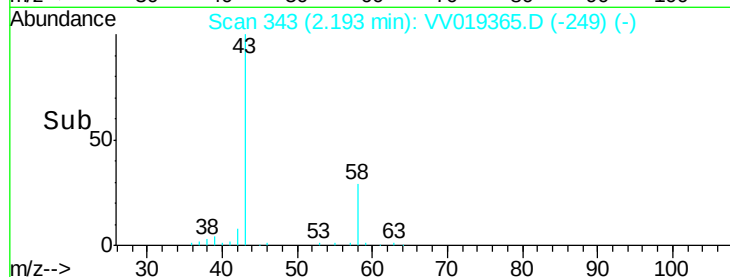
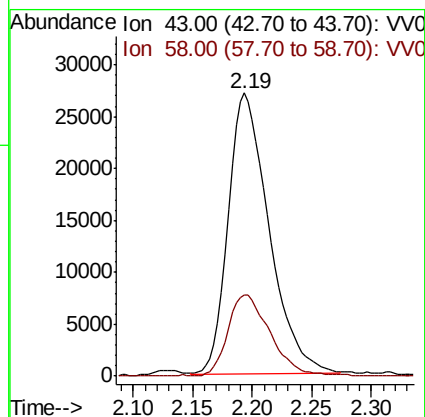
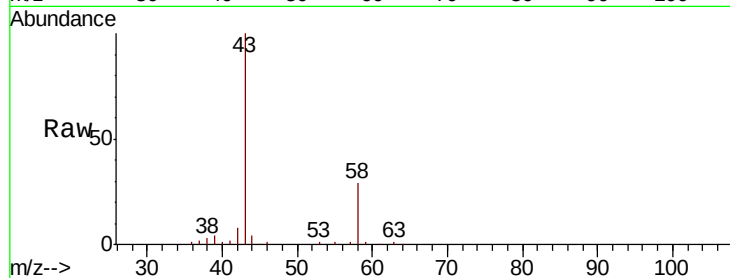
VSTD05096

Tot Ion: 43 Resp: 64610

Ion Ratio Lower Upper

43 100

58 29.7 0.0 55.8



#14

Carbon disulfide

Concen: 50.956 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV019365.D

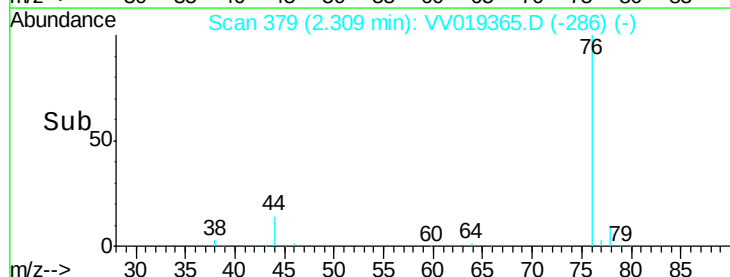
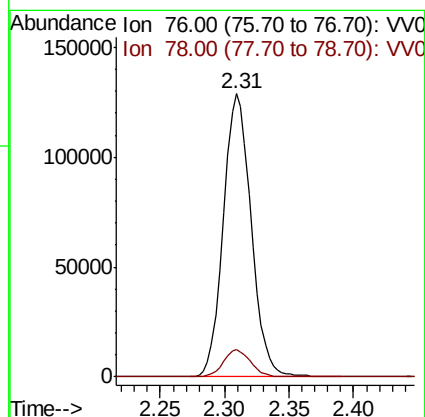
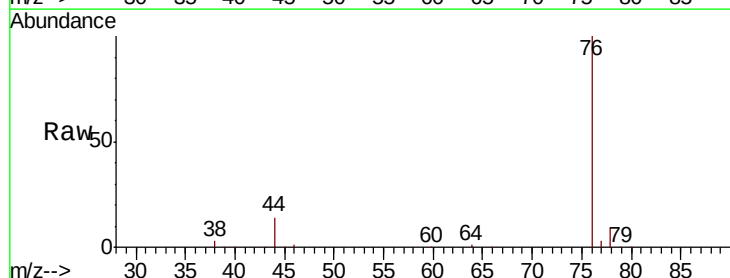
Acq: 12 Nov 2020 20:33

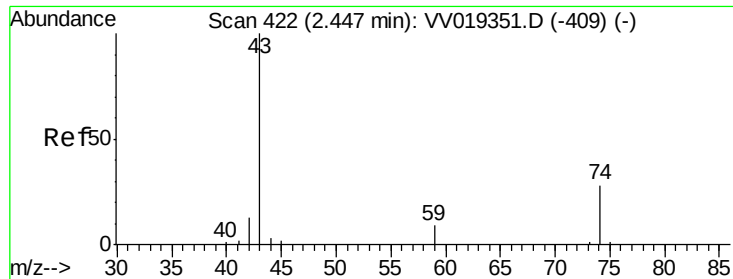
Tgt Ion: 76 Resp: 193105

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.0

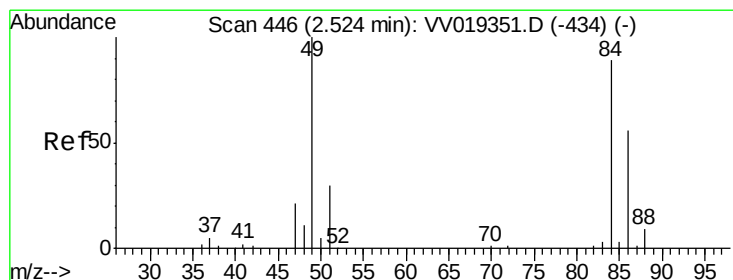
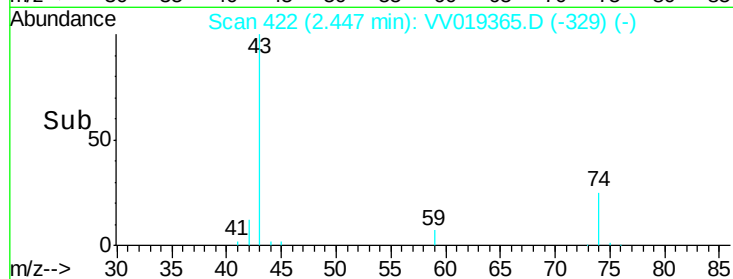
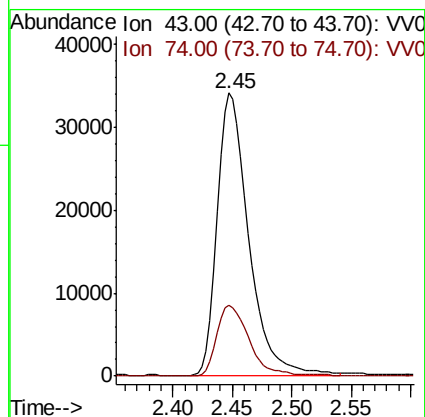
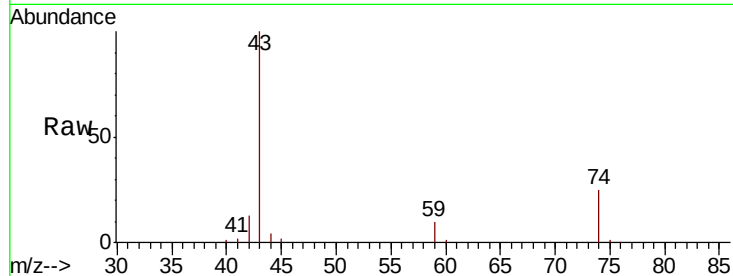




#15
Methvl Acetate
Concen: 54.846 ug/L
RT: 2.45 min Scan# 422
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

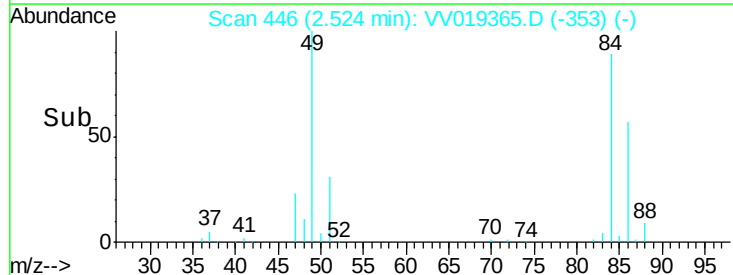
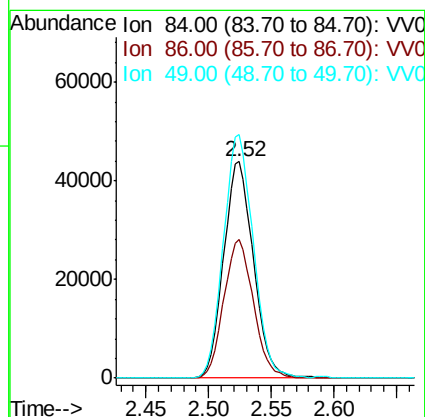
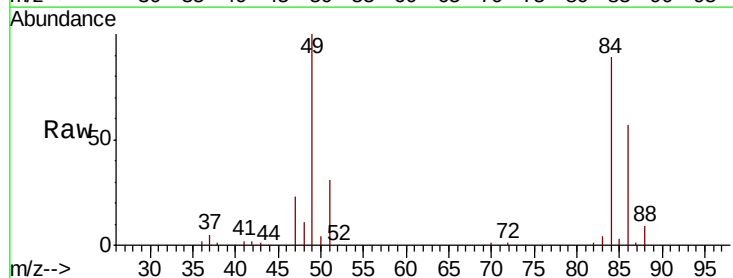
Instrument :
MSVOA_V
ClientSampleId :
VSTD05096

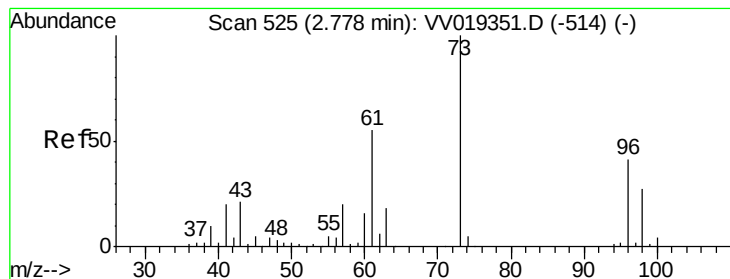
Tot Ion: 43 Resp: 62338
Ion Ratio Lower Upper
43 100
74 25.7 20.7 31.1



#16
Methylene chloride
Concen: 52.809 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

Tgt Ion: 84 Resp: 72679
Ion Ratio Lower Upper
84 100
86 64.0 45.6 84.8
49 112.5 80.2 149.0





#17

trans-1,2-Dichloroethene

Concen: 51.919 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05096

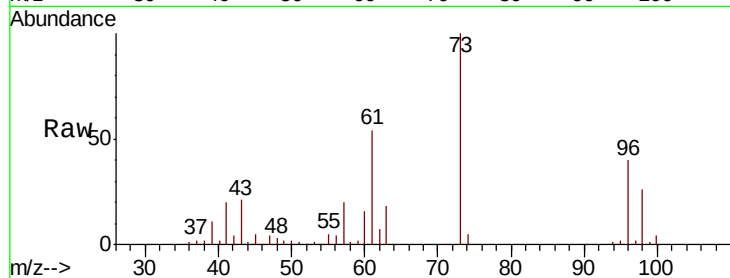
Tot Ion: 96 Resp: 68447

Ion Ratio Lower Upper

96 100

61 134.5 91.8 170.6

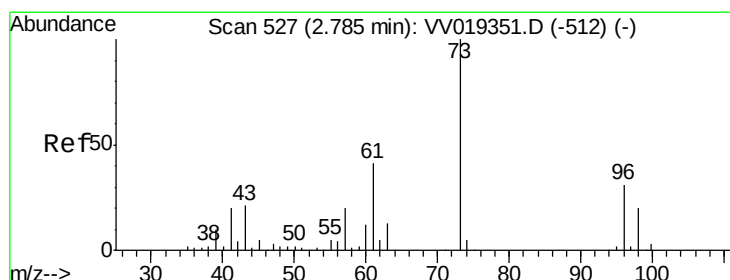
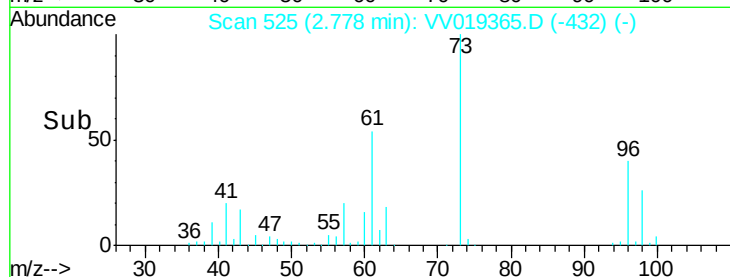
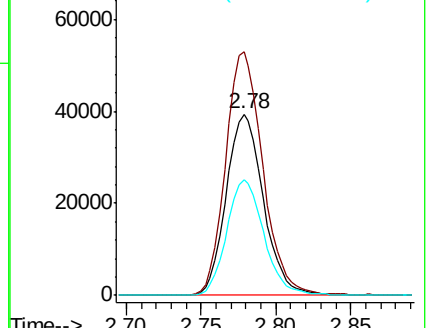
98 64.0 45.1 83.7



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



#18

Methyl tert-butyl Ether

Concen: 52.586 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

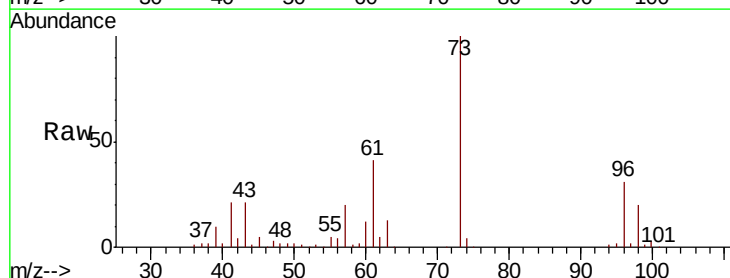
Tgt Ion: 73 Resp: 222731

Ion Ratio Lower Upper

73 100

43 21.4 17.2 25.8

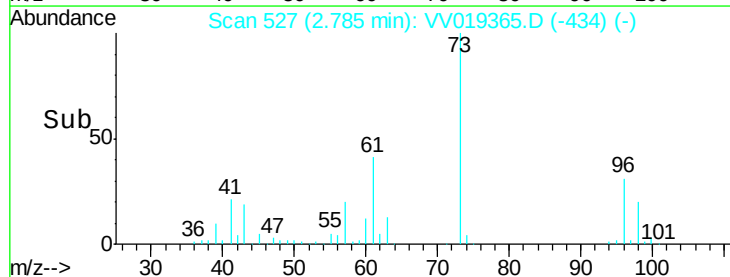
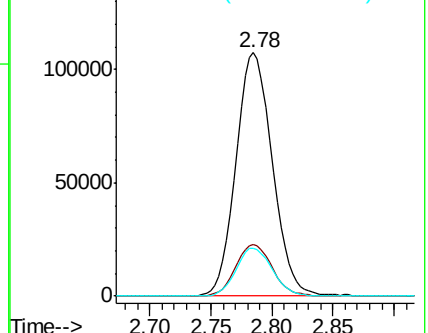
57 19.6 15.9 23.9

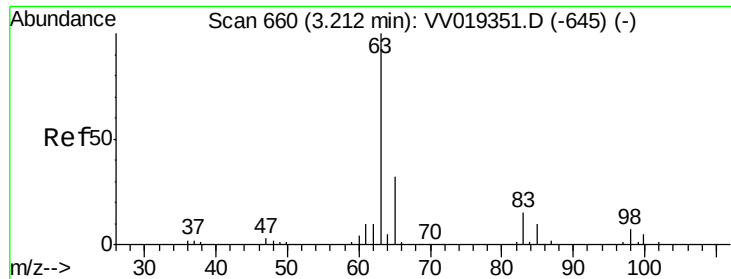


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

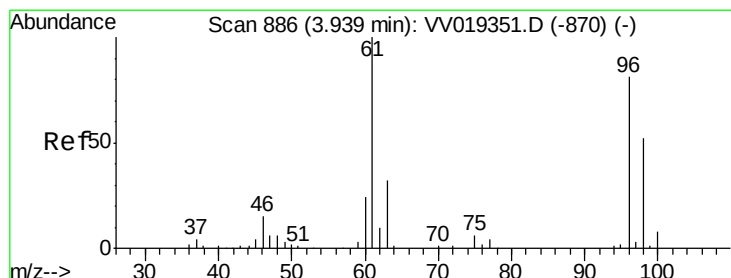
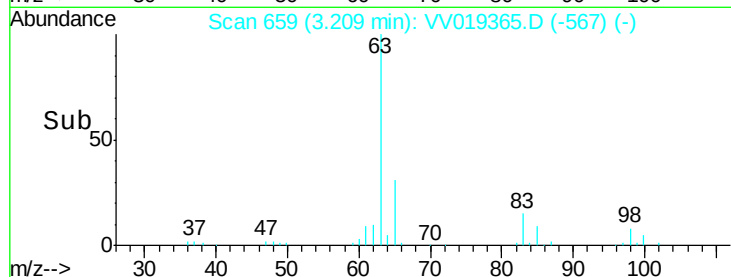
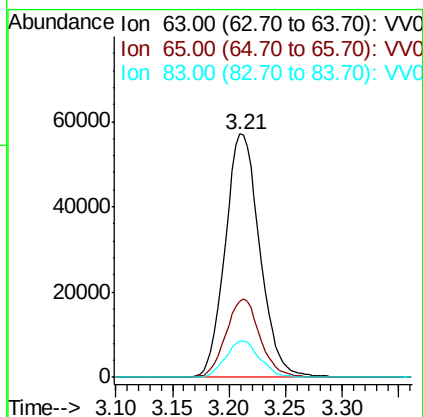
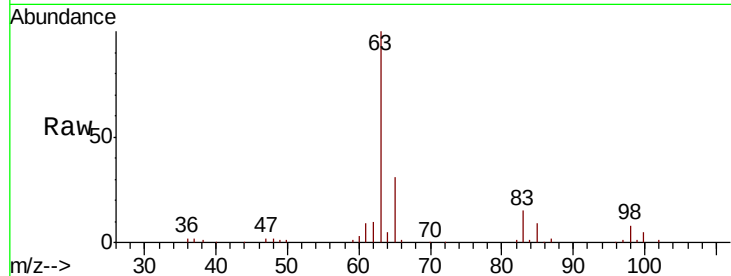




#19
 1,1-Dichloroethane
 Concen: 53.262 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

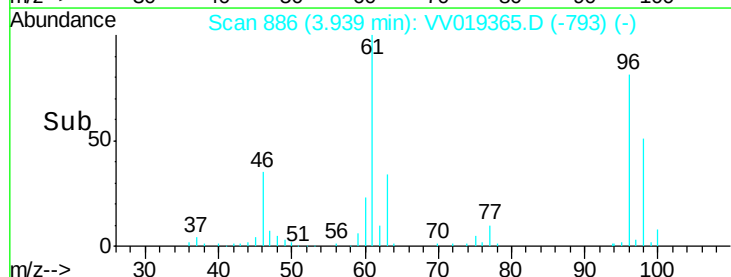
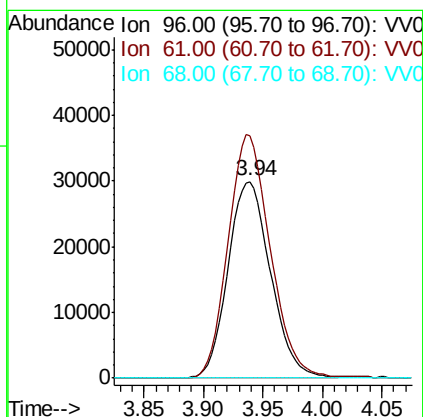
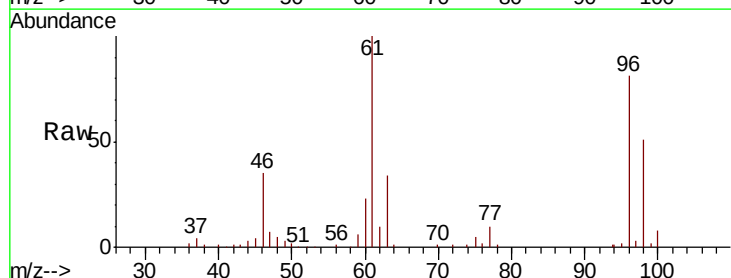
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05096

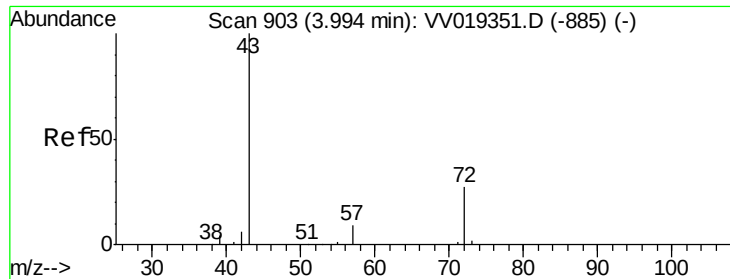
Tot Ion: 63 Resp: 121751
 Ion Ratio Lower Upper
 63 100
 65 31.3 23.0 42.8
 83 15.0 10.7 19.9



#20
 cis-1,2-Dichloroethene
 Concen: 53.154 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Tgt Ion: 96 Resp: 74182
 Ion Ratio Lower Upper
 96 100
 61 123.7 88.2 163.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 108.403 ug/L

RT: 4.00 min Scan# 904

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

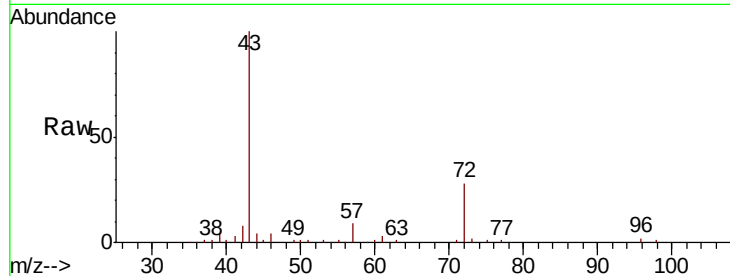
VSTD05096

Tot Ion: 43 Resp: 83689

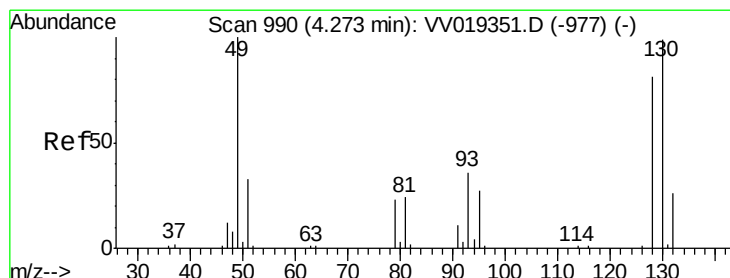
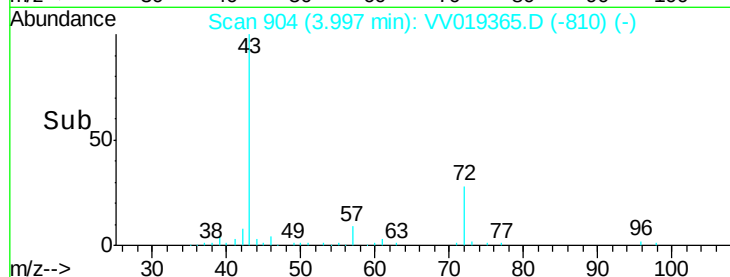
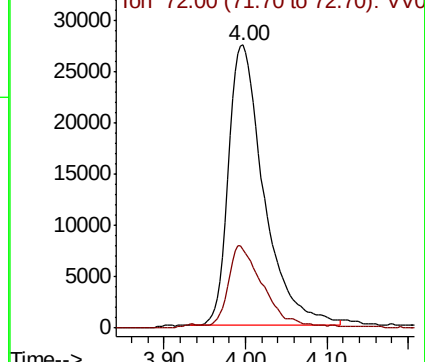
Ion Ratio Lower Upper

43 100

72 25.3 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VV019365.D (-810) (-)



#23

Bromochloromethane

Concen: 53.771 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Tgt Ion:128 Resp: 43278

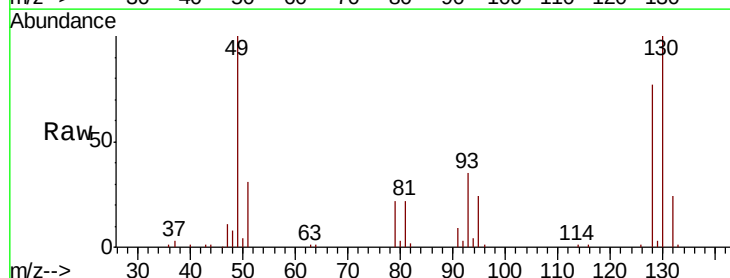
Ion Ratio Lower Upper

128 100

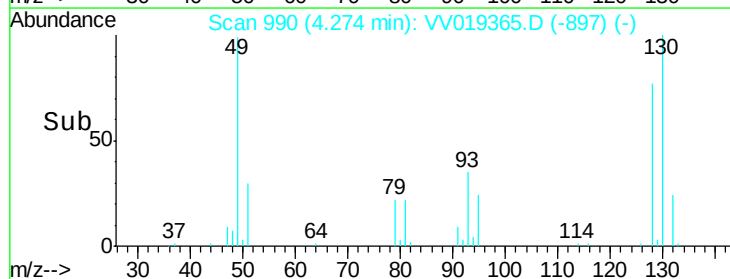
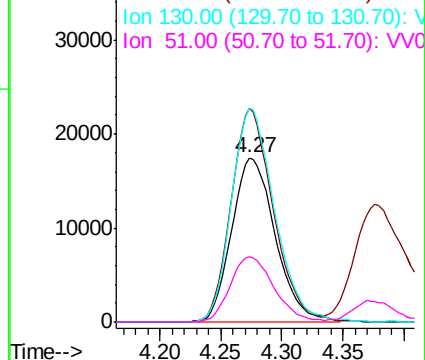
49 130.0 86.2 160.0

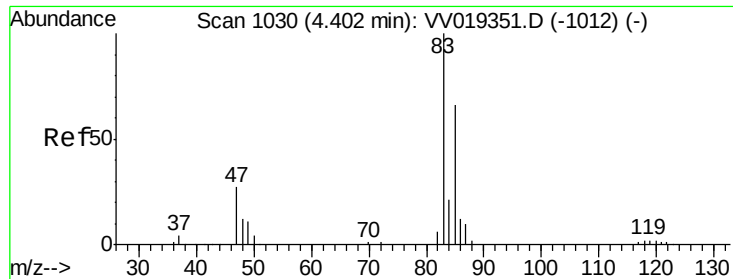
130 129.9 94.0 174.6

51 39.7 30.6 46.0



Abundance Ion 128.00 (127.70 to 128.70): VV019365.D (-897) (-)

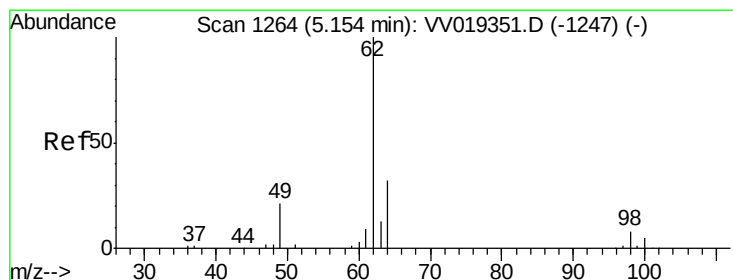
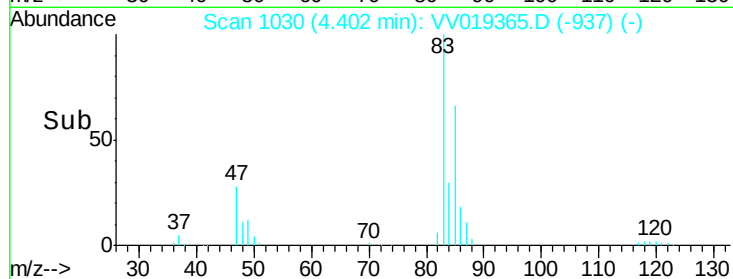
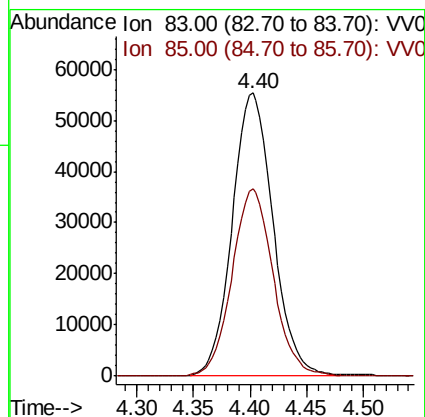
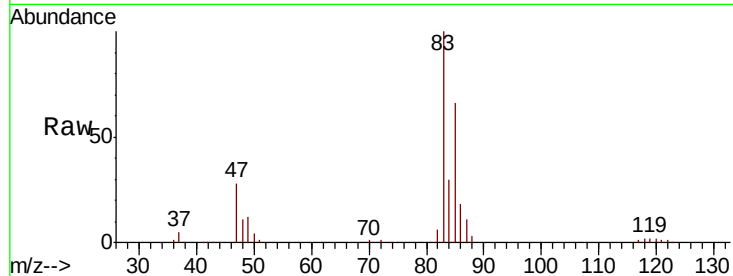




#25
Chloroform
Concen: 52.363 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

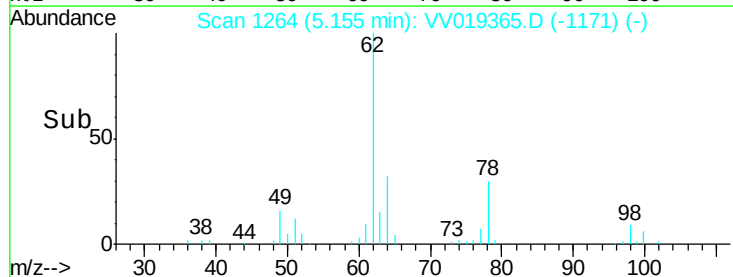
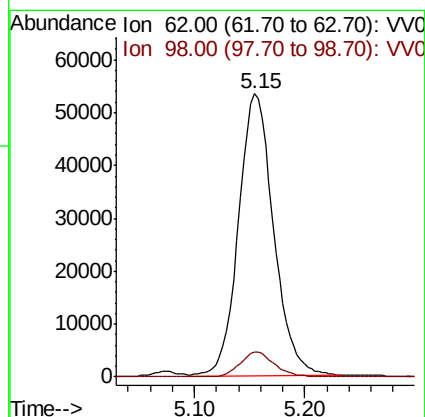
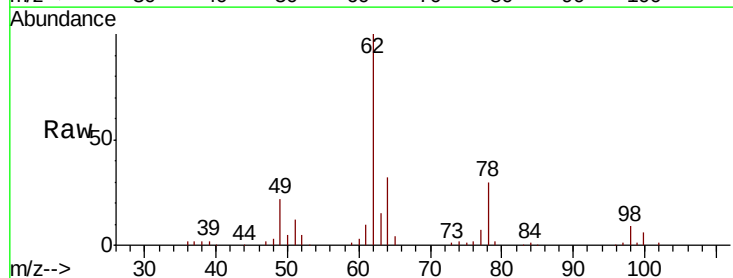
Instrument :
MSVOA_V
ClientSampleId :
VSTD05096

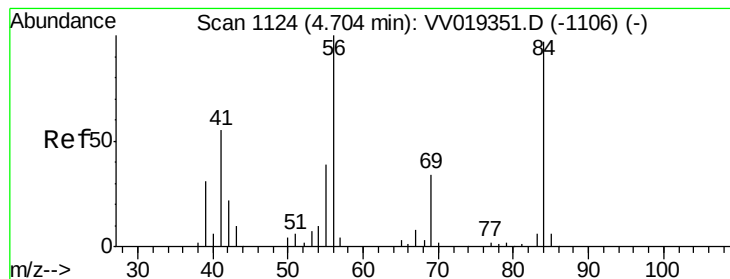
Tot Ion: 83 Resp: 139217
Ion Ratio Lower Upper
83 100
85 66.4 44.0 81.8



#27
1,2-Dichloroethane
Concen: 52.199 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

Tgt Ion: 62 Resp: 117568
Ion Ratio Lower Upper
62 100
98 8.6 6.7 10.1





#29

Cyclohexane

Concen: 51.257 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05096

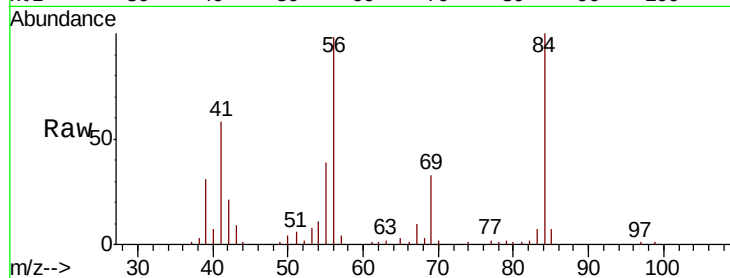
Tot Ion: 56 Resp: 88801

Ion Ratio Lower Upper

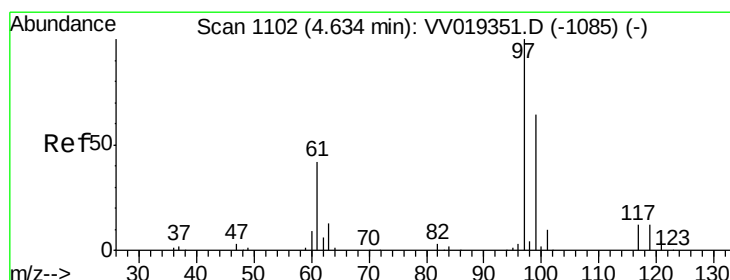
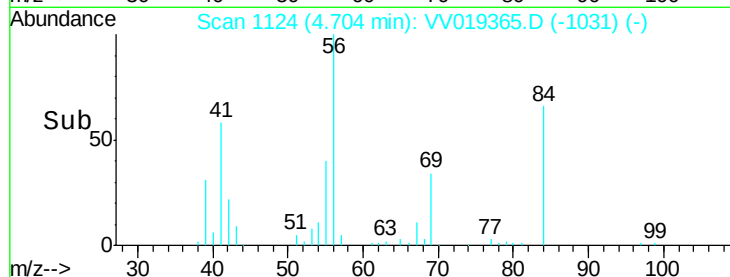
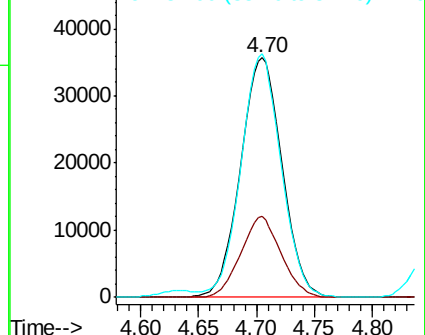
56 100

69 32.7 26.7 40.1

84 98.6 79.5 119.3



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 51.894 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

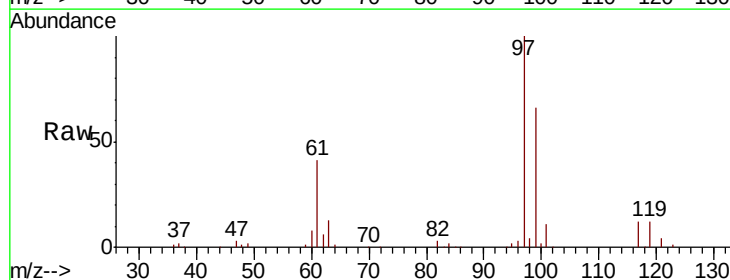
Tgt Ion: 97 Resp: 136641

Ion Ratio Lower Upper

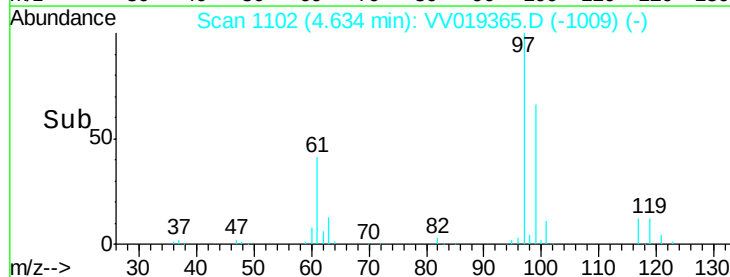
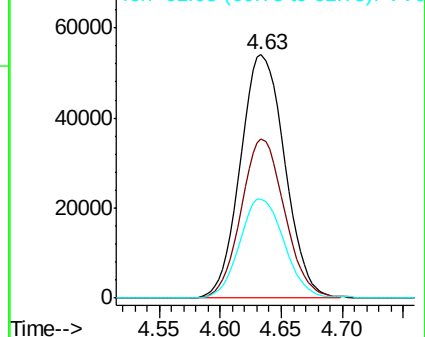
97 100

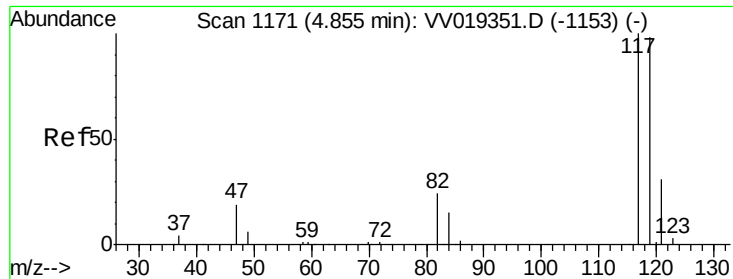
99 64.0 51.0 76.6

61 40.8 33.2 49.8



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 52.189 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

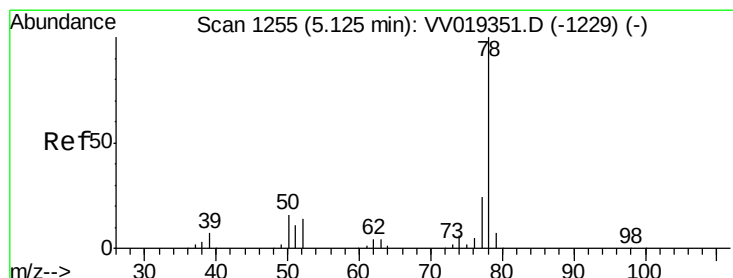
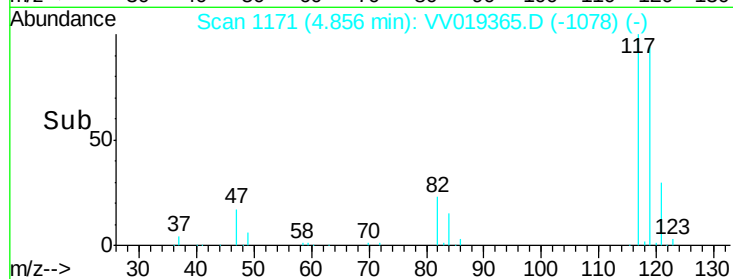
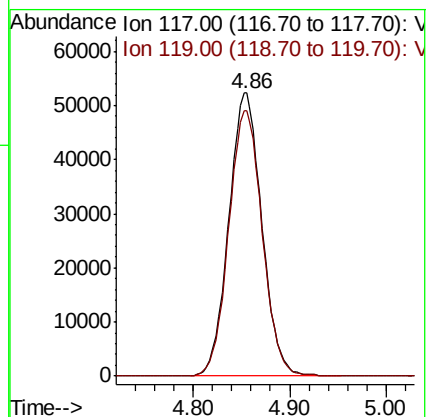
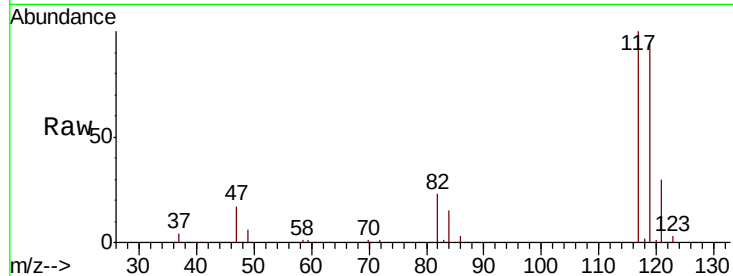
VSTD05096

Tot Ion:117 Resp: 123750

Ion Ratio Lower Upper

117 100

119 95.0 77.0 115.4



#33

Benzene

Concen: 53.201 ug/L

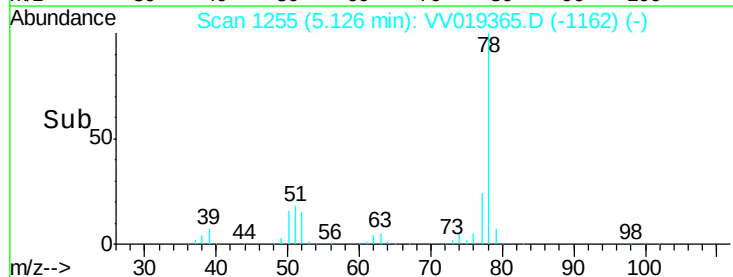
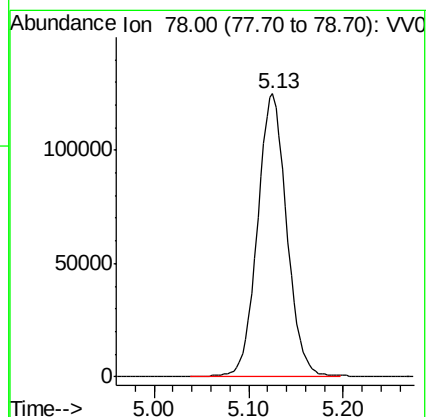
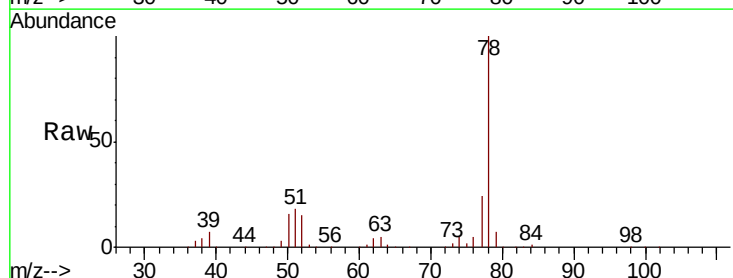
RT: 5.13 min Scan# 1255

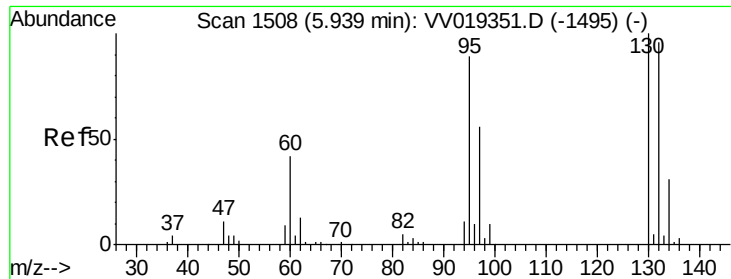
Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Tgt Ion: 78 Resp: 269013

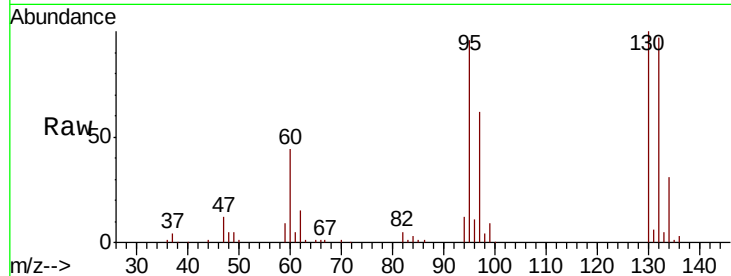




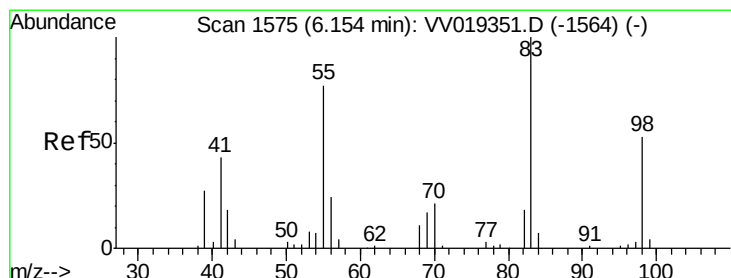
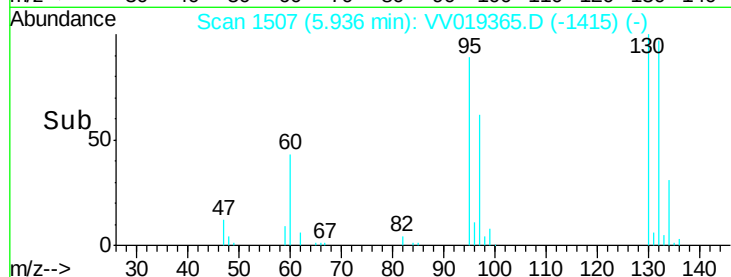
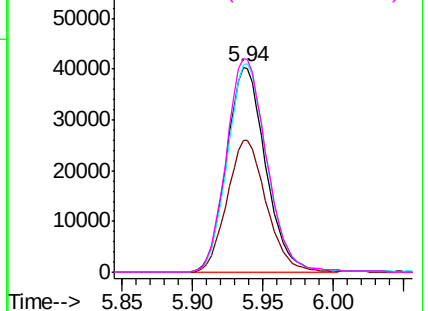
#34
 Trichloroethene
 Concen: 51.366 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. -0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05096

Tot Ion: 95 Resp: 78335
 Ion Ratio Lower Upper
 95 100
 97 64.4 46.8 86.8
 132 101.1 75.5 140.3
 130 104.2 77.7 144.3

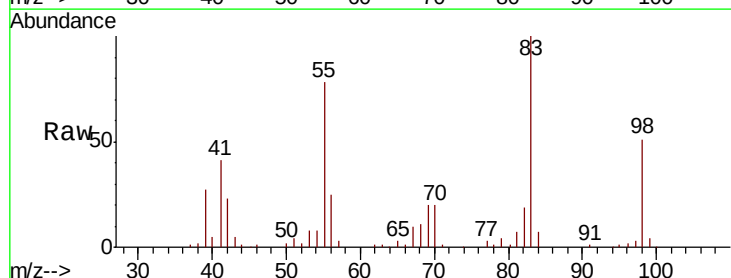


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

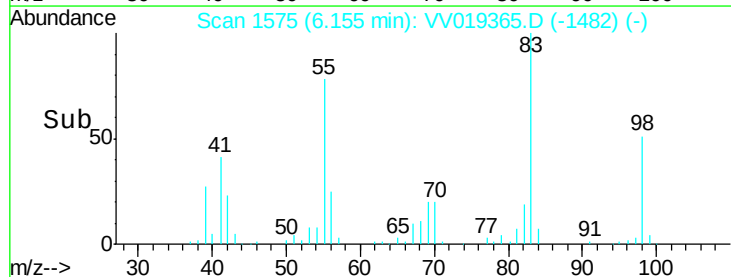
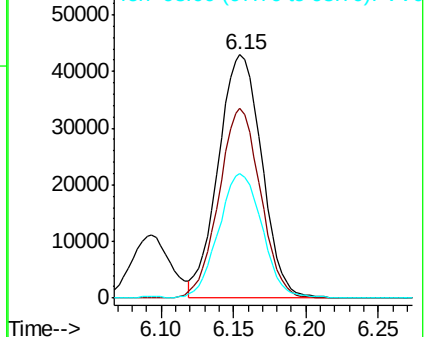


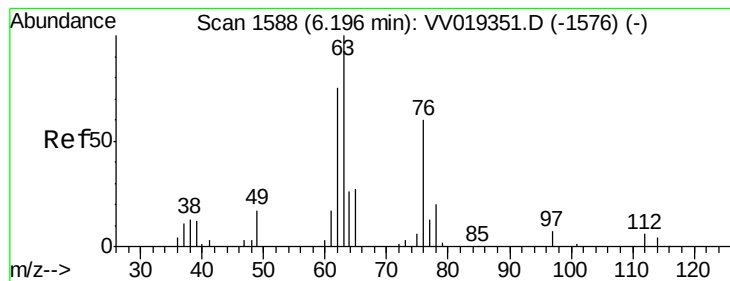
#35
 Methylcyclohexane
 Concen: 47.464 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Tgt Ion: 83 Resp: 89456
 Ion Ratio Lower Upper
 83 100
 55 74.5 58.6 88.0
 98 51.5 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





#37

1,2-Dichloropropane

Concen: 53.129 ug/L

RT: 6.20 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

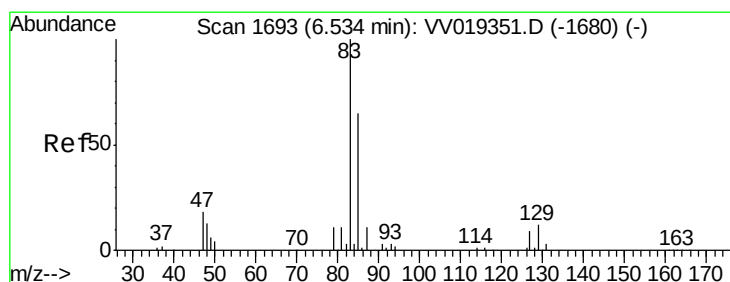
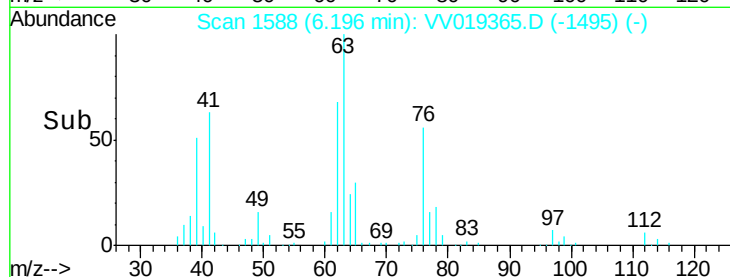
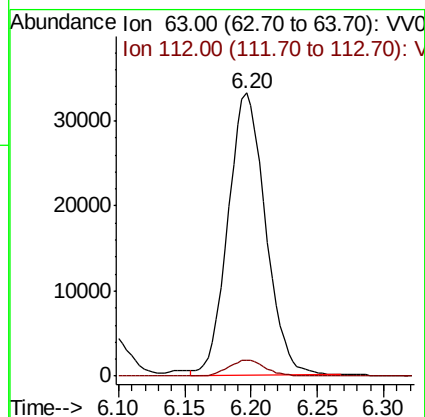
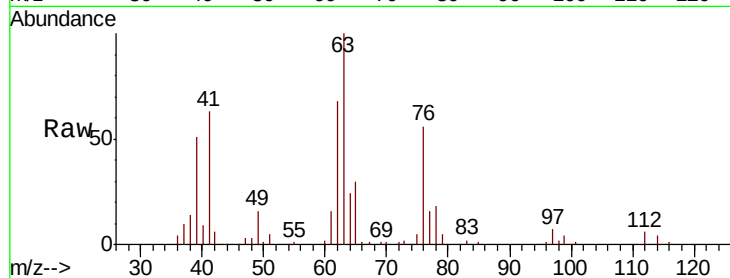
VSTD05096

Tot Ion: 63 Resp: 65293

Ion Ratio Lower Upper

63 100

112 5.5 4.6 6.8



#38

Bromodichloromethane

Concen: 51.686 ug/L

RT: 6.53 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

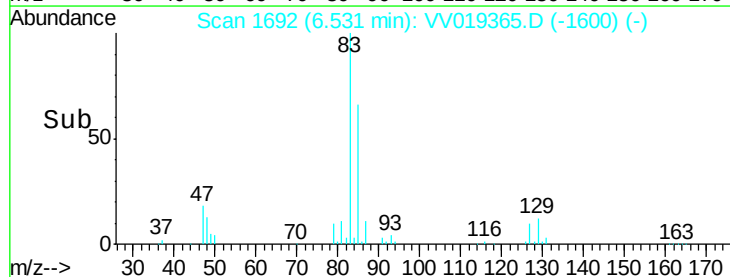
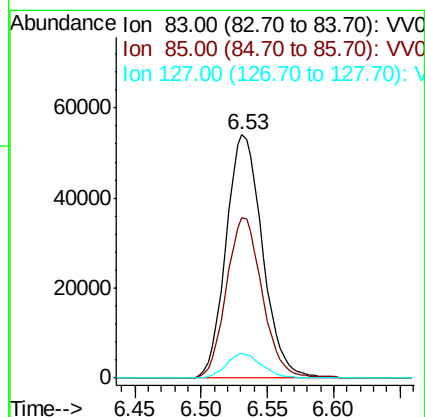
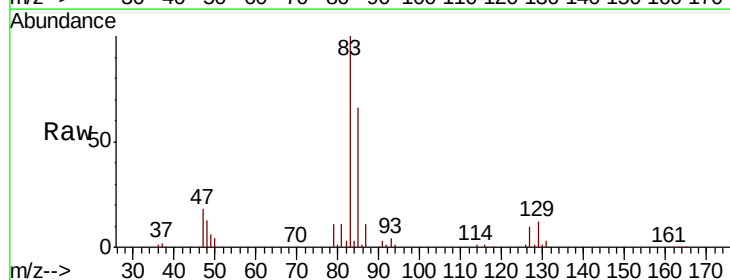
Tgt Ion: 83 Resp: 103251

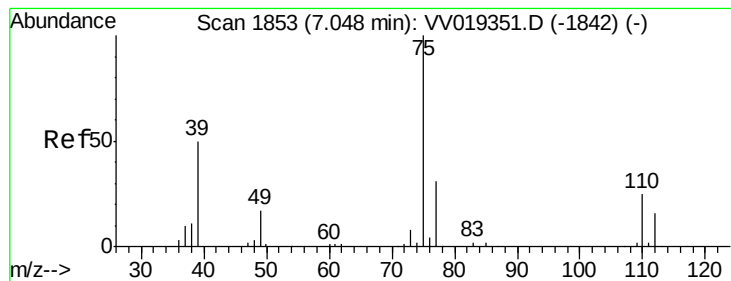
Ion Ratio Lower Upper

83 100

85 65.7 45.1 83.7

127 10.0 7.2 10.8



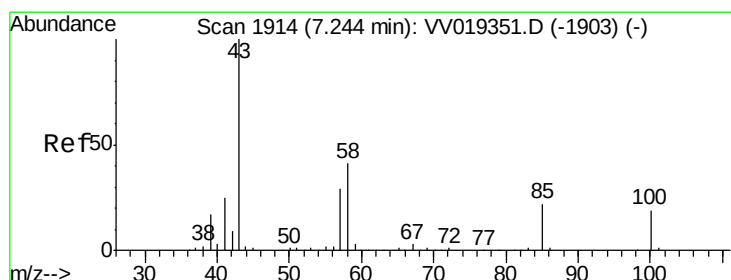
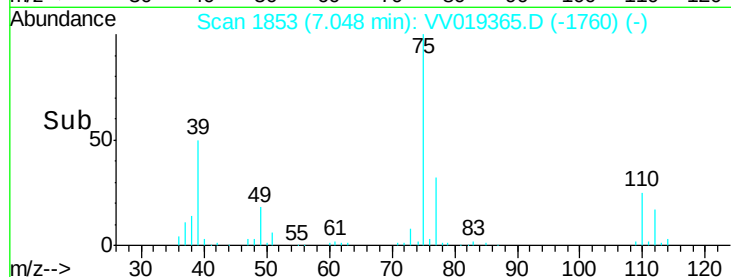
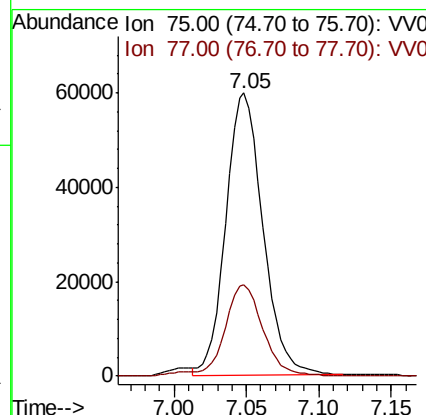
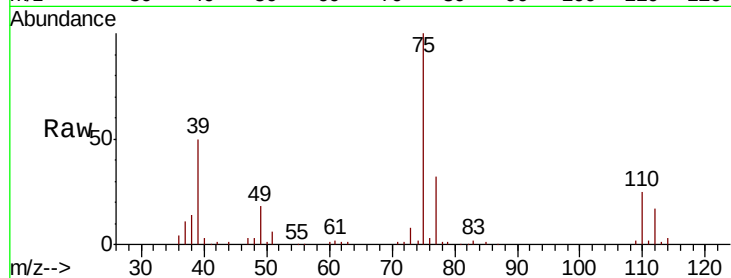


#39

cis-1,3-Dichloropropene
 Concen: 50.409 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05096

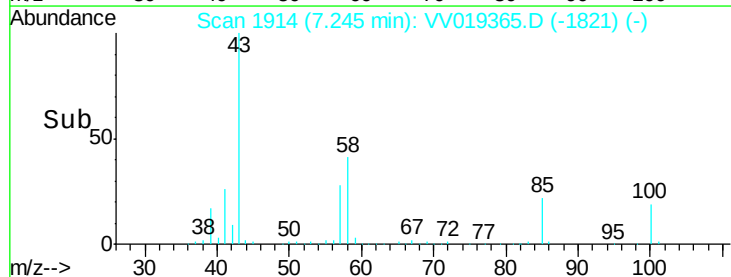
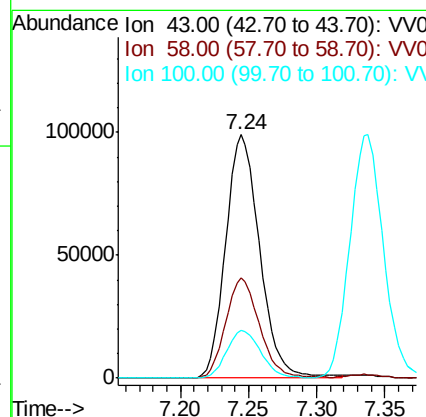
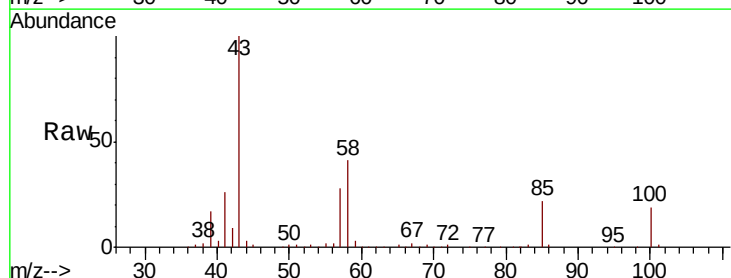
Tot Ion: 75 Resp: 106212
 Ion Ratio Lower Upper
 75 100
 77 32.3 22.7 42.1

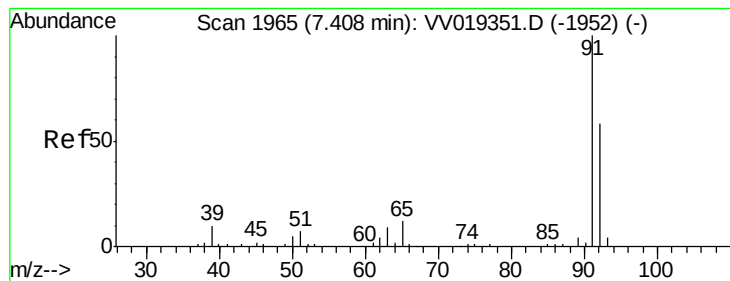


#40

4-Methyl-2-pentanone
 Concen: 110.942 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Tgt Ion: 43 Resp: 172035
 Ion Ratio Lower Upper
 43 100
 58 40.9 32.7 49.1
 100 19.6 15.9 23.9





#42

Toluene

Concen: 53.342 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

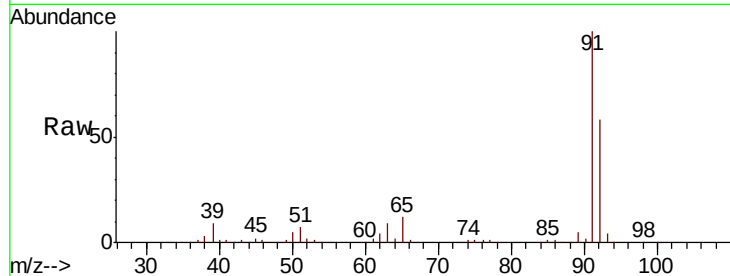
VSTD05096

Tot Ion: 91 Resp: 303410

Ion Ratio Lower Upper

91 100

92 57.8 40.5 75.3



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

200000

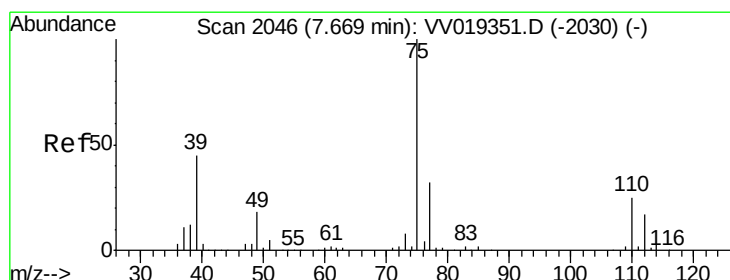
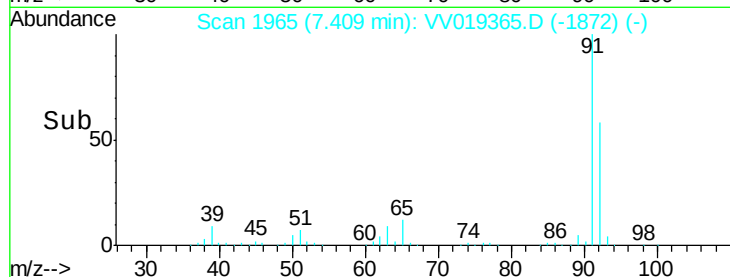
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.743 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019365.D

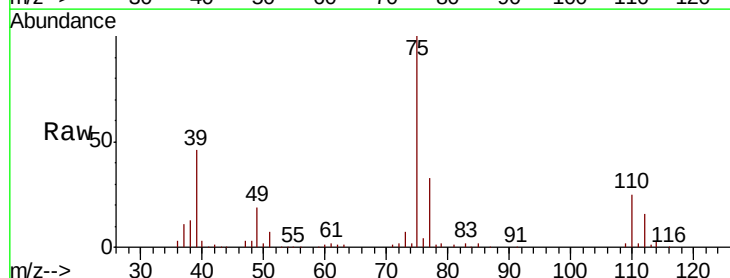
Acq: 12 Nov 2020 20:33

Tgt Ion: 75 Resp: 116123

Ion Ratio Lower Upper

75 100

77 32.8 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.67

80000

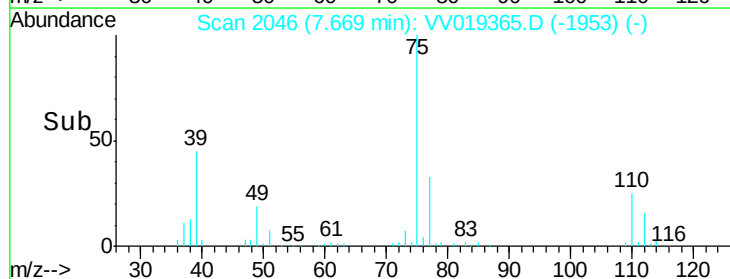
60000

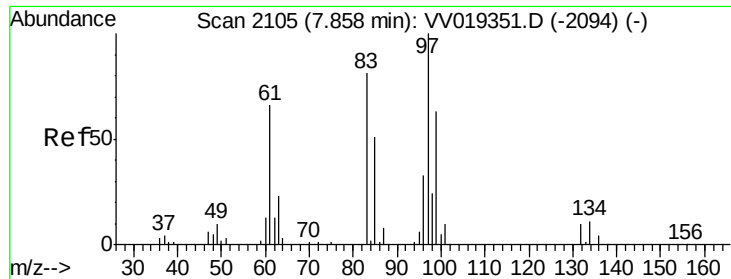
40000

20000

0

Time-->

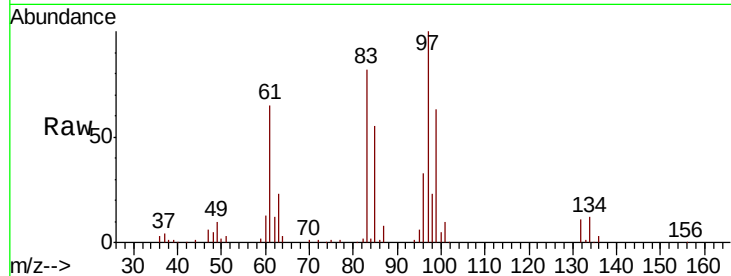




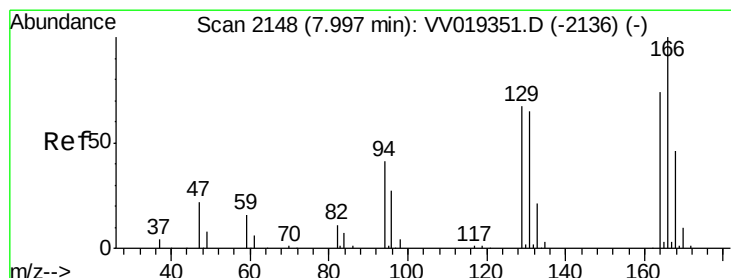
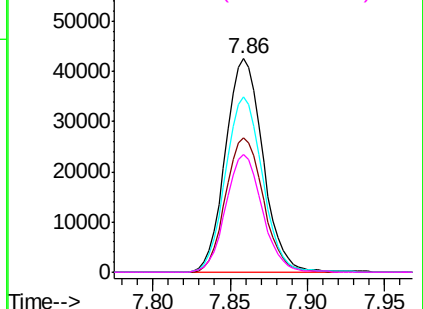
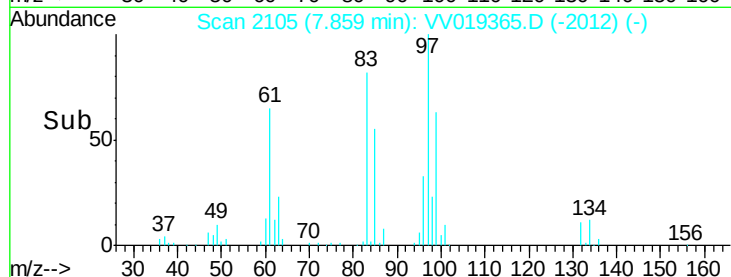
#45
 1,1,2-Trichloroethane
 Concen: 53.588 ug/L
 RT: 7.86 min Scan# 2105
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05096

Tot Ion:	97	Resp:	71435
Ion	Ratio	Lower	Upper
97	100		
99	63.1	42.5	78.9
83	82.3	58.1	107.9
85	55.0	37.2	69.0

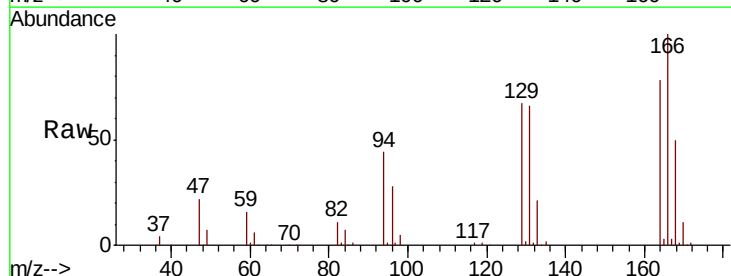


Abundance Ion 97.00 (96.70 to 97.70): VV019365.D (-2012) (-)

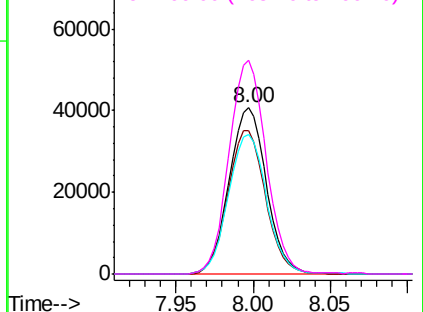
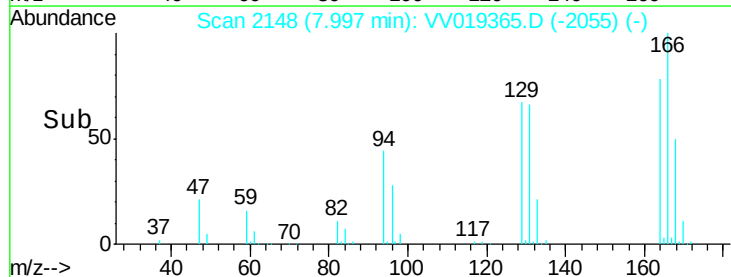


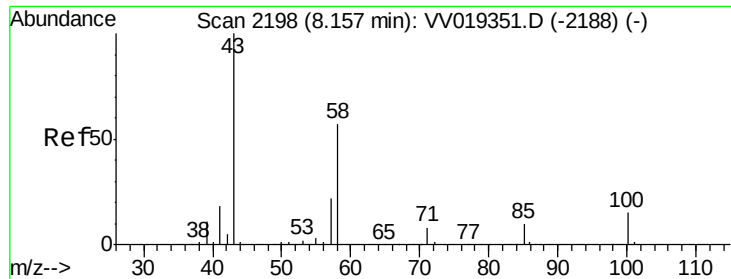
#46
 Tetrachloroethene
 Concen: 50.639 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Tgt Ion:	164	Resp:	68025
Ion	Ratio	Lower	Upper
164	100		
129	86.1	60.9	113.1
131	84.4	58.9	109.5
166	128.6	91.4	169.8



Abundance Ion 164.00 (163.70 to 164.70): VV019365.D (-2055) (-)

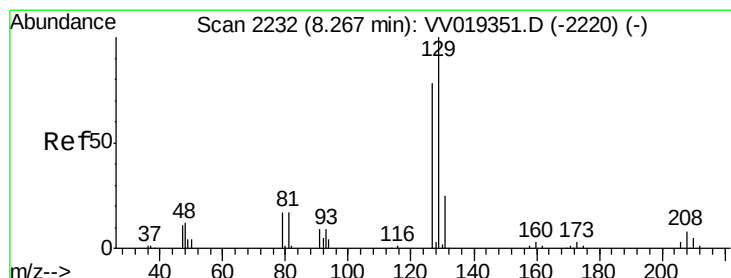
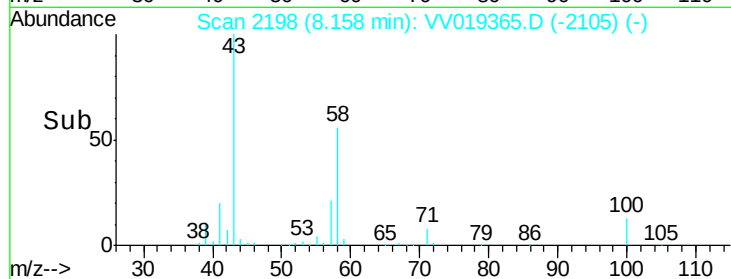
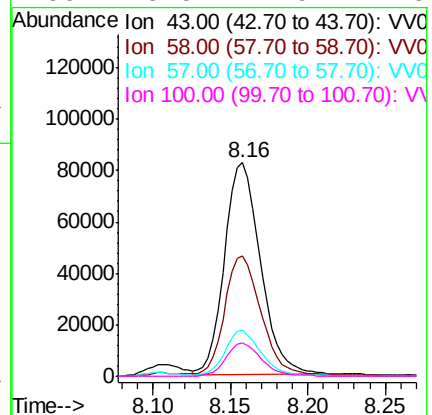
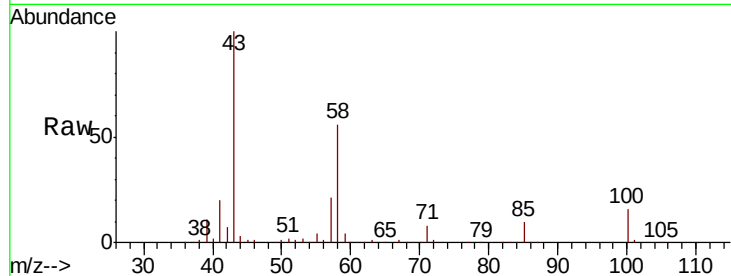




#48
2-Hexanone
Concen: 110.142 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

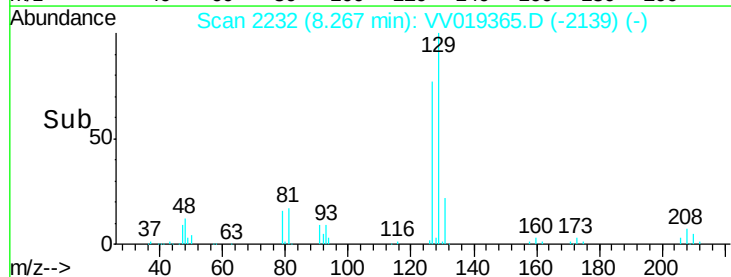
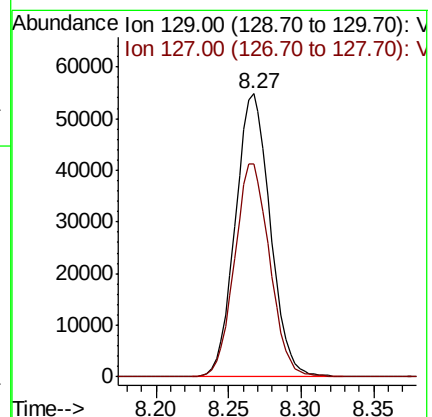
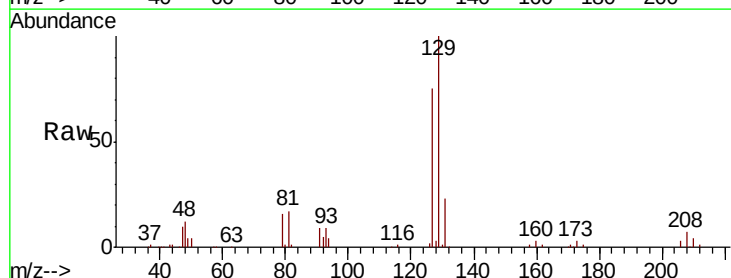
Instrument :
MSVOA_V
ClientSampleId :
VSTD05096

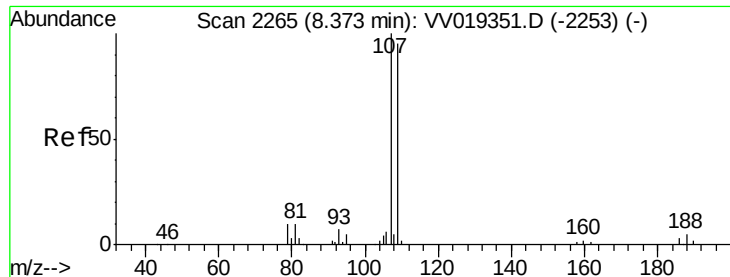
Tot Ion: 43 Resp: 133854
Ion Ratio Lower Upper
43 100
58 56.6 43.6 65.4
57 21.5 17.2 25.8
100 15.5 11.9 17.9



#49
Dibromochloromethane
Concen: 53.645 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

Tgt Ion: 129 Resp: 91773
Ion Ratio Lower Upper
129 100
127 75.4 54.9 102.1

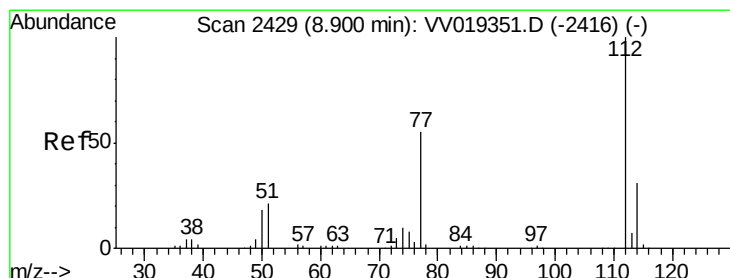
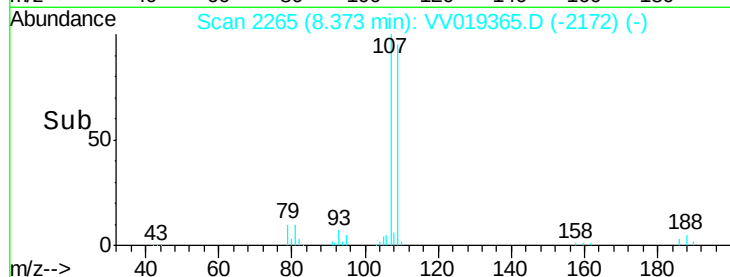
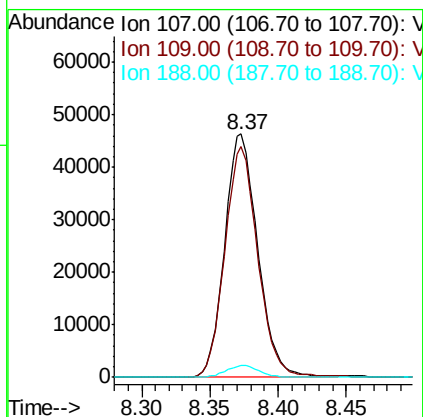
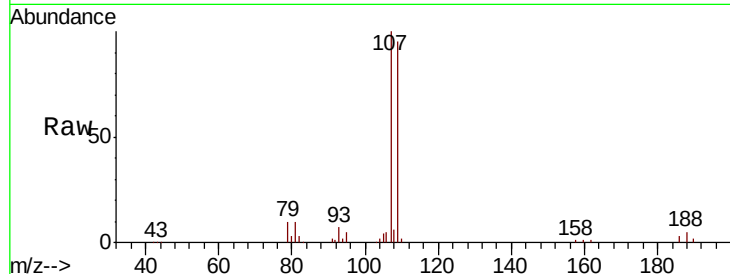




#50
1,2-Dibromoethane
Concen: 53.498 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

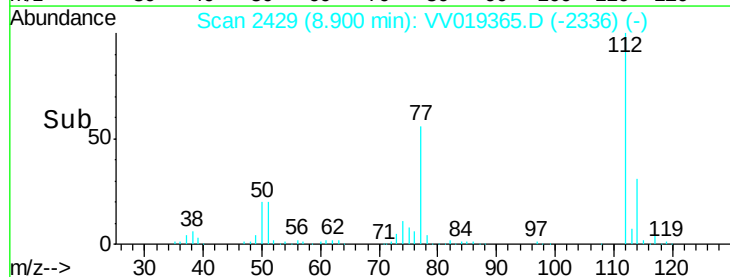
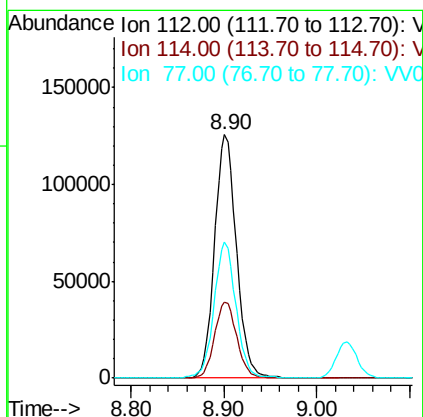
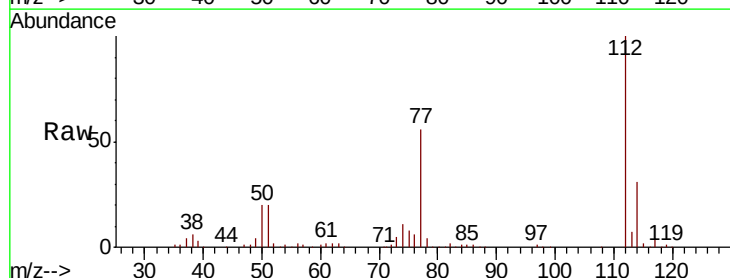
Instrument :
MSVOA_V
ClientSampleId :
VSTD05096

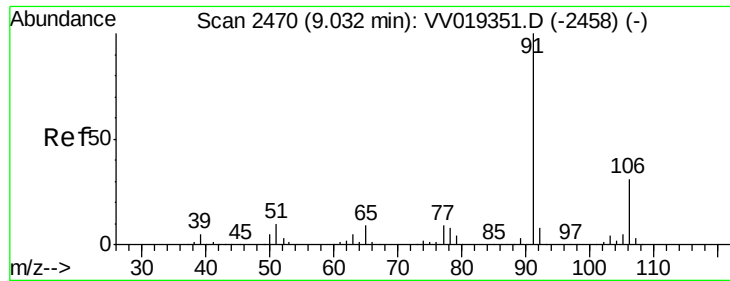
Tot Ion:107 Resp: 78024
Ion Ratio Lower Upper
107 100
109 94.9 62.9 116.9
188 4.7 3.6 5.4



#51
Chlorobenzene
Concen: 52.597 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. 0.00 min
Lab File: VV019365.D
Acq: 12 Nov 2020 20:33

Tgt Ion:112 Resp: 205743
Ion Ratio Lower Upper
112 100
114 31.4 21.8 40.6
77 55.8 45.1 67.7





#52

Ethylbenzene

Concen: 52.760 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

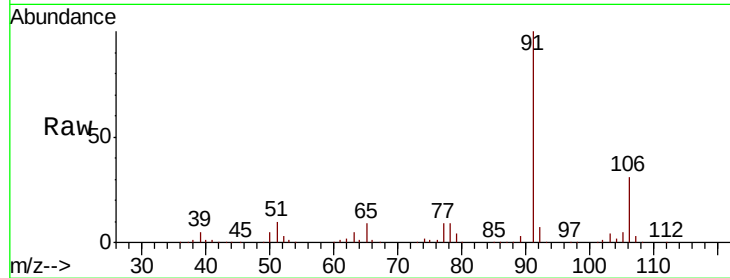
VSTD05096

Tot Ion: 91 Resp: 335622

Ion Ratio Lower Upper

91 100

106 30.9 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VV019365.D (-2377) (-)

Ion 106.00 (105.70 to 106.70): VV019365.D (-2377) (-)

250000

200000

150000

100000

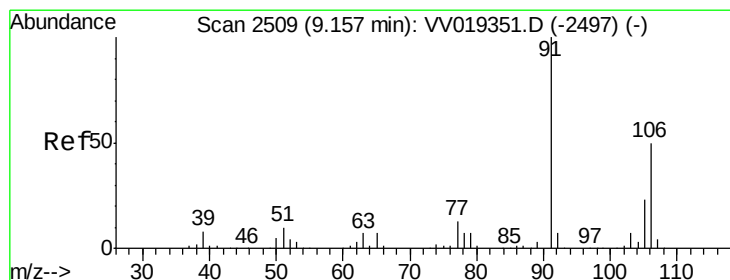
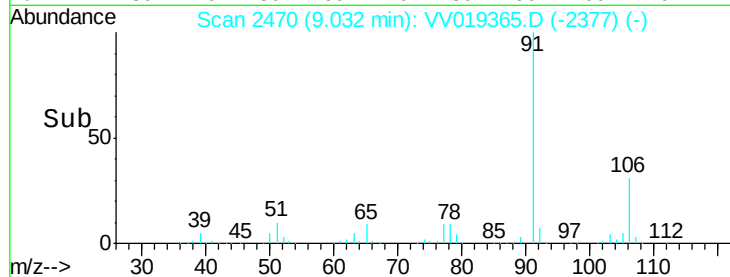
50000

0

Time-->

8.95 9.00 9.05 9.10

9.03



#53

m,p-Xylene

Concen: 53.580 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019365.D

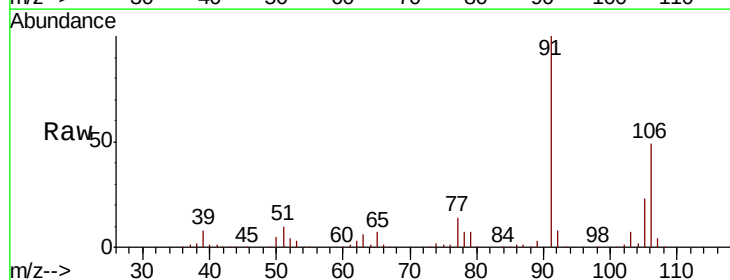
Acq: 12 Nov 2020 20:33

Tgt Ion: 106 Resp: 131981

Ion Ratio Lower Upper

106 100

91 202.1 144.9 269.1



Abundance Ion 106.00 (105.70 to 106.70): VV019365.D (-2416) (-)

Ion 91.00 (90.70 to 91.70): VV019365.D (-2416) (-)

200000

150000

100000

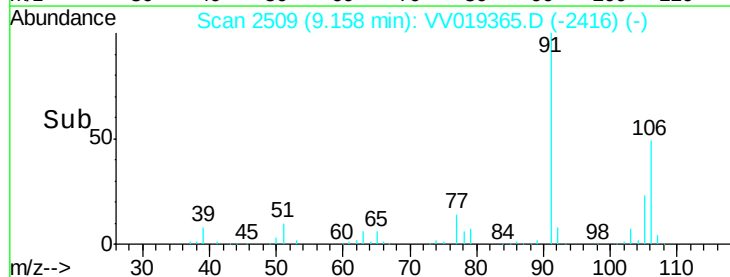
50000

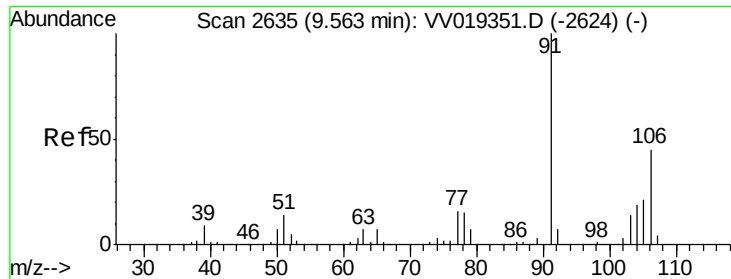
0

Time-->

9.10 9.15 9.20 9.25

9.16





#54

o-xylene

Concen: 52.791 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

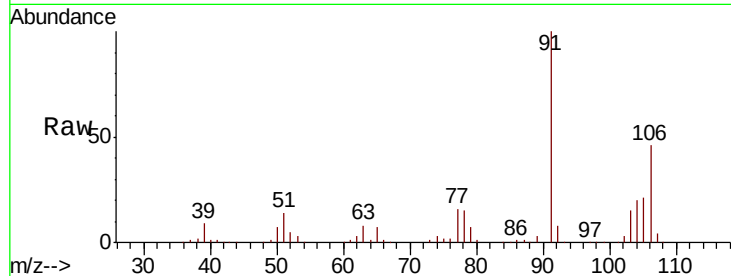
VSTD05096

Tot Ion:106 Resp: 125753

Ion Ratio Lower Upper

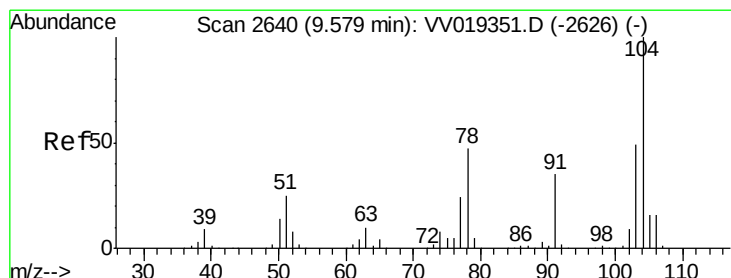
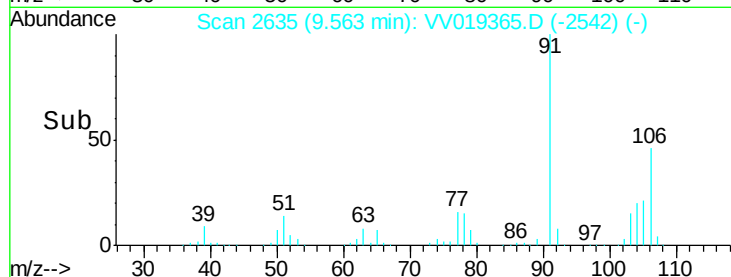
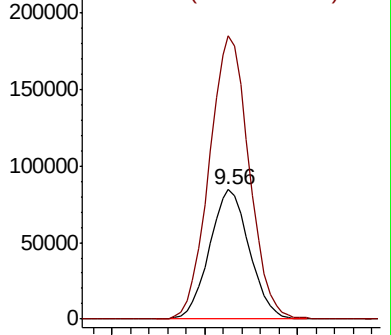
106 100

91 218.6 149.3 277.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 55.062 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV019365.D

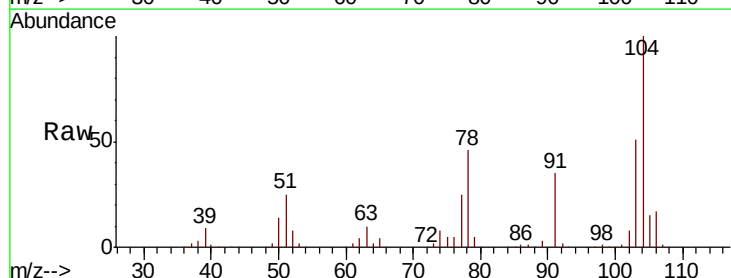
Acq: 12 Nov 2020 20:33

Tgt Ion:104 Resp: 231958

Ion Ratio Lower Upper

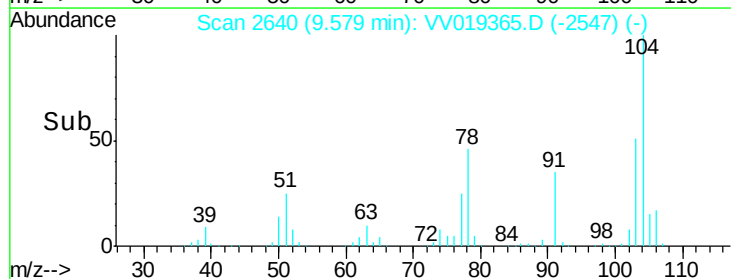
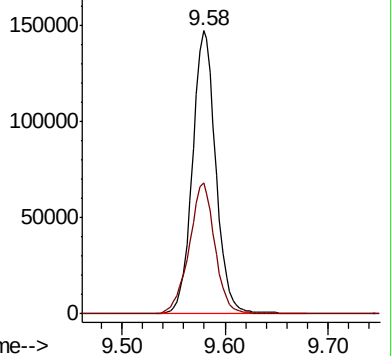
104 100

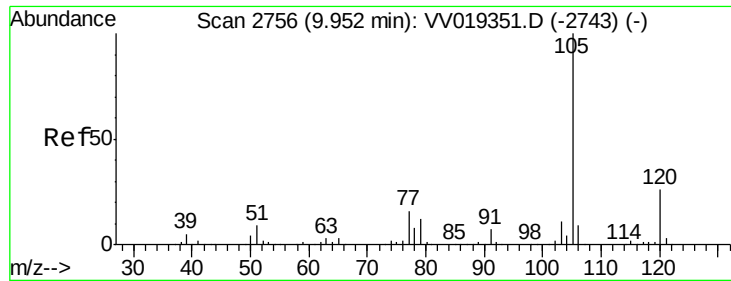
78 46.2 33.0 61.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 53.031 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05096

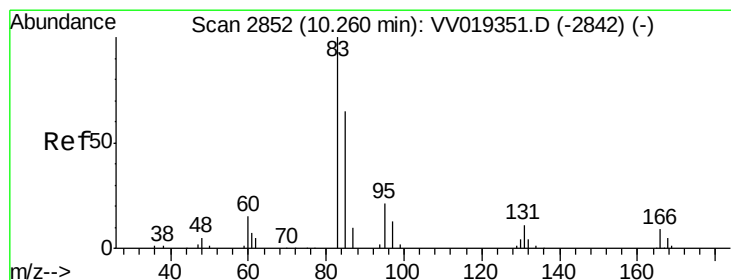
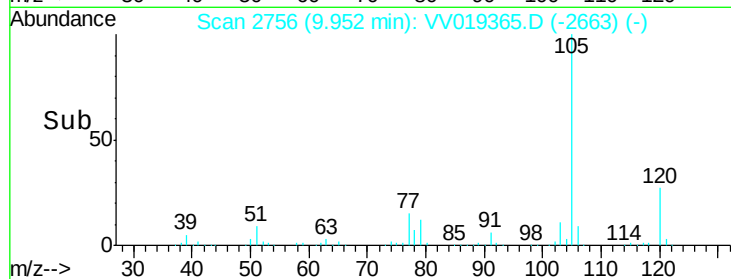
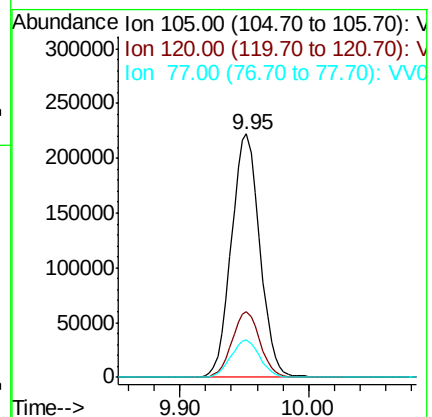
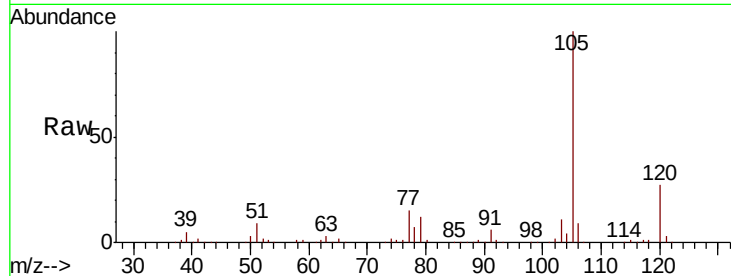
Tot Ion:105 Resp: 339191

Ion Ratio Lower Upper

105 100

120 26.7 21.3 31.9

77 15.7 12.6 18.8



#58

1,1,2,2-Tetrachloroethane

Concen: 56.004 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

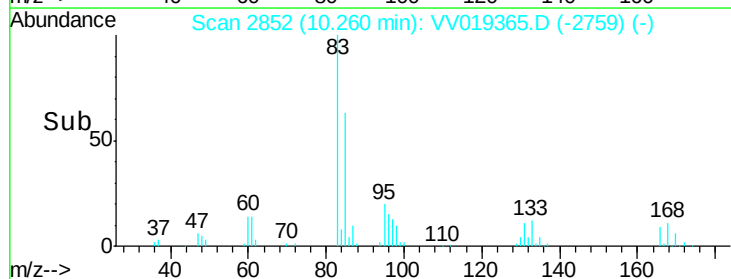
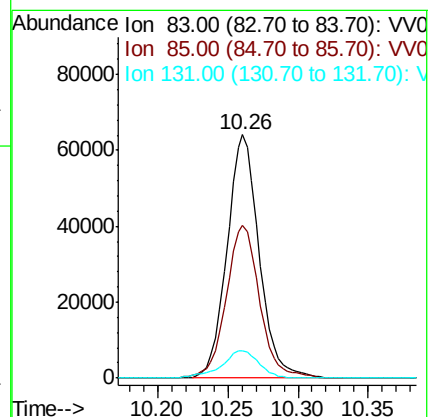
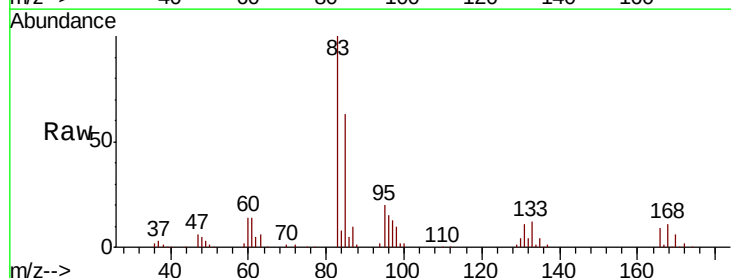
Tgt Ion: 83 Resp: 102012

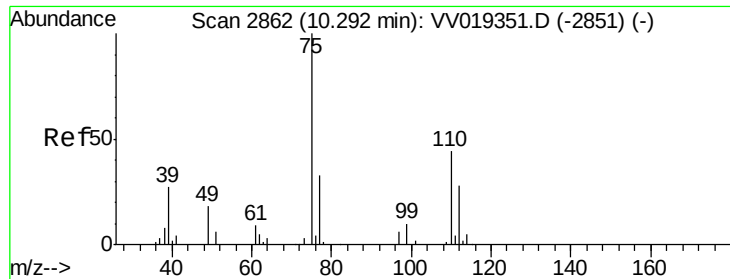
Ion Ratio Lower Upper

83 100

85 62.9 45.1 83.9

131 11.5 9.6 14.4





#59

1,2,3-Trichloropropane

Concen: 54.182 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

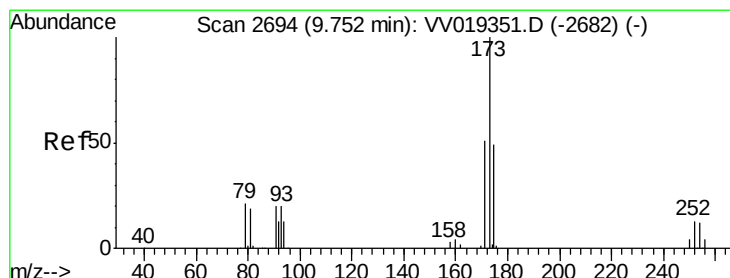
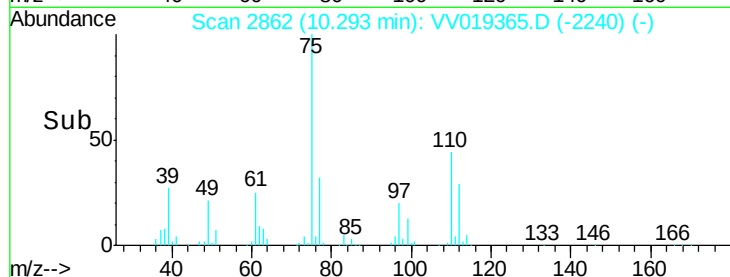
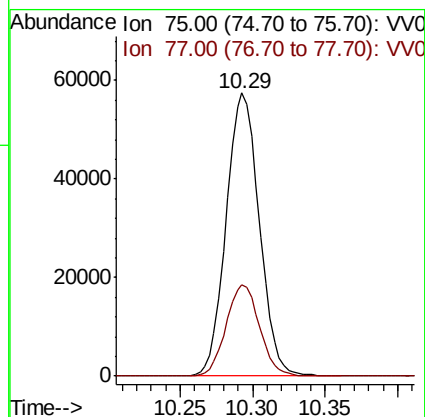
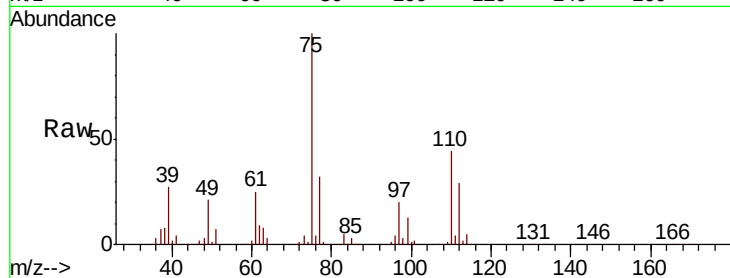
VSTD05096

Tot Ion: 75 Resp: 90935

Ion Ratio Lower Upper

75 100

77 32.5 25.0 37.4



#61

Bromoform

Concen: 52.892 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

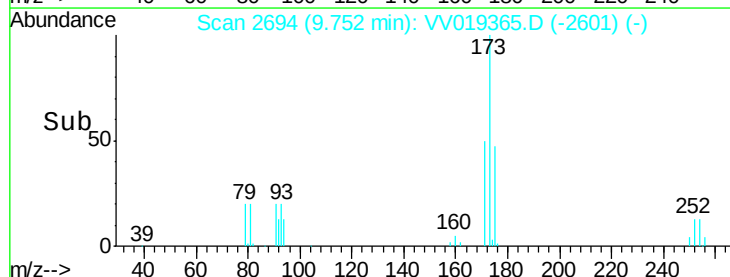
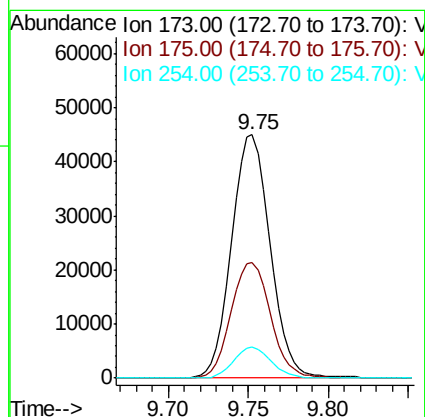
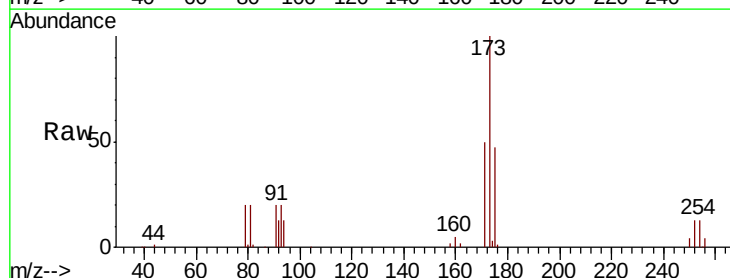
Tgt Ion: 173 Resp: 73977

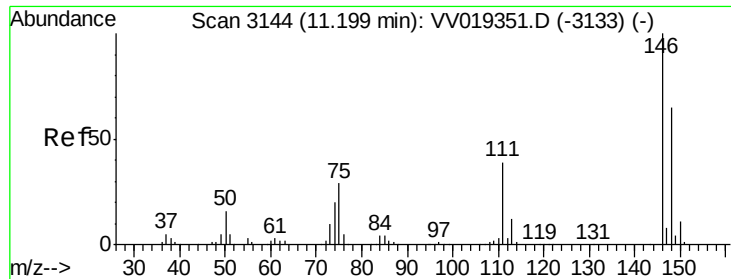
Ion Ratio Lower Upper

173 100

175 48.6 38.3 57.5

254 12.2 10.3 15.5

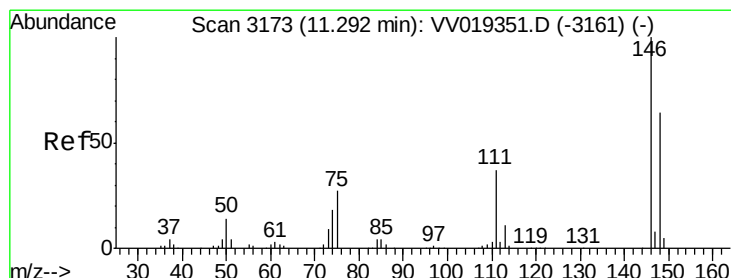
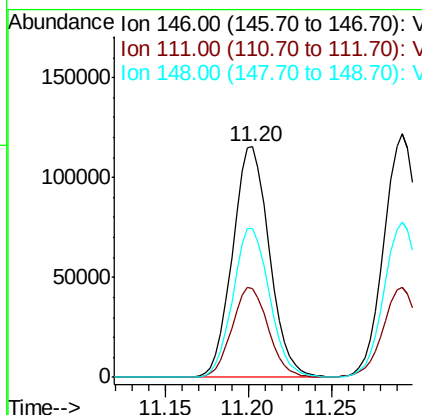
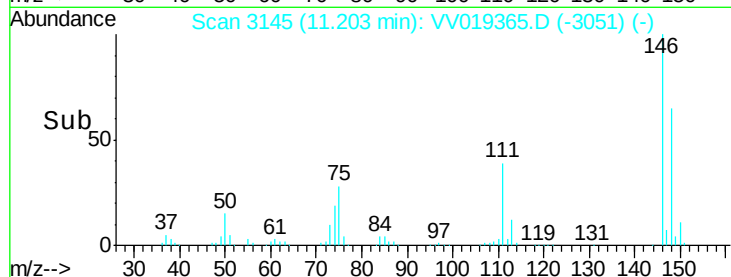
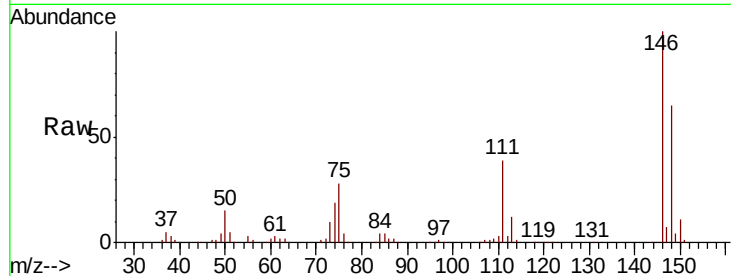




#62
 1,3-Dichlorobenzene
 Concen: 51.795 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

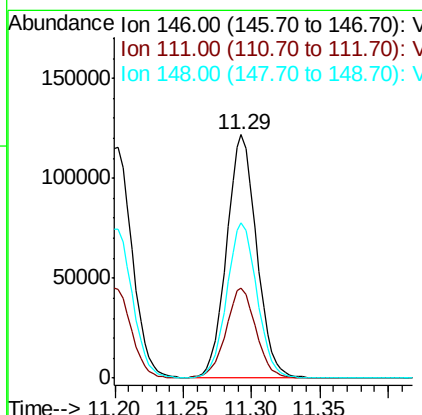
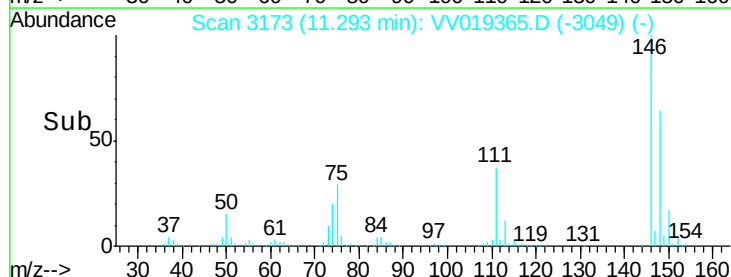
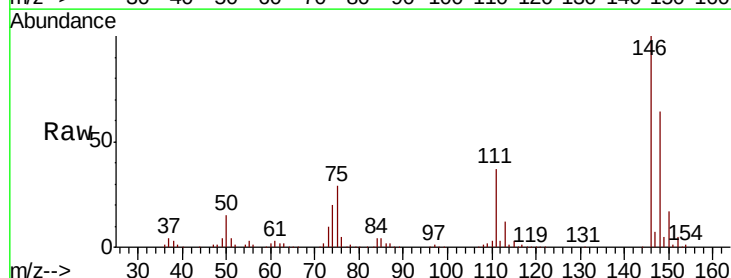
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05096

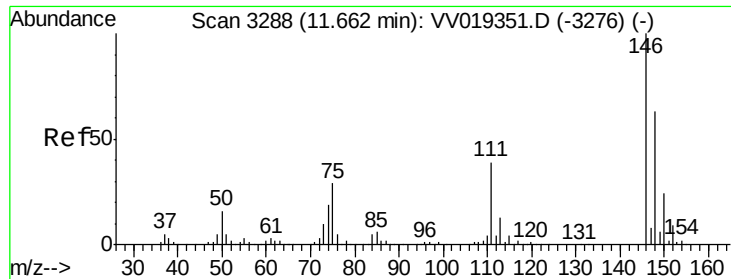
Tot Ion:146 Resp: 178771
 Ion Ratio Lower Upper
 146 100
 111 38.5 26.5 49.3
 148 64.8 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 51.404 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Tgt Ion:146 Resp: 185602
 Ion Ratio Lower Upper
 146 100
 111 37.1 25.1 46.7
 148 63.8 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 51.744 ug/L

RT: 11.66 min Scan# 3288

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05096

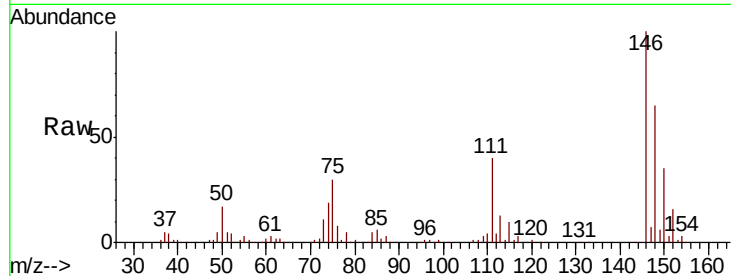
Tot Ion:146 Resp: 180705

Ion Ratio Lower Upper

146 100

111 40.5 30.6 45.8

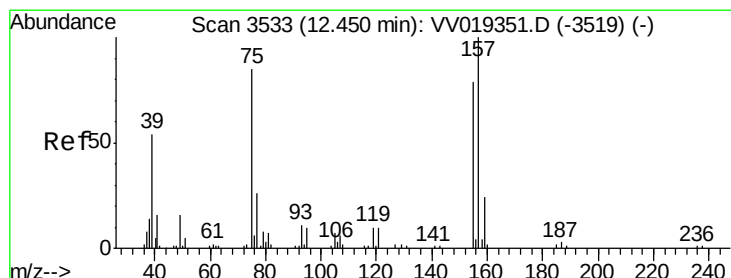
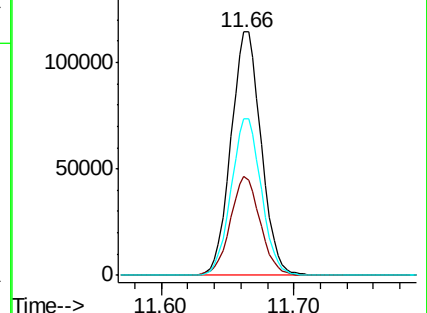
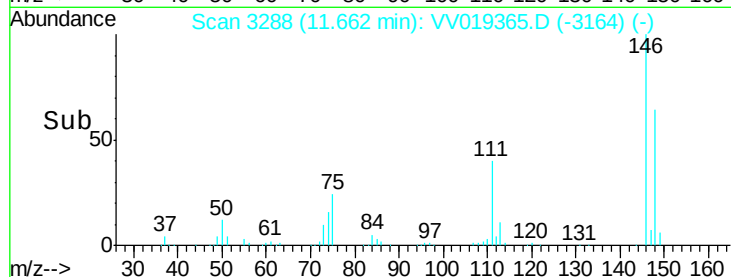
148 64.5 50.6 75.8



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: 54.583 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

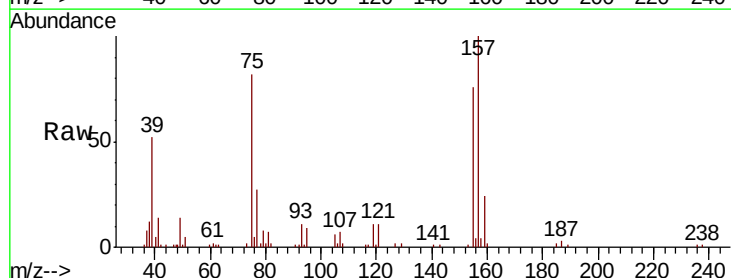
Tgt Ion: 75 Resp: 27533

Ion Ratio Lower Upper

75 100

155 93.2 72.2 108.2

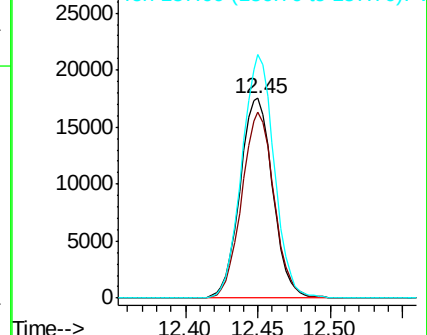
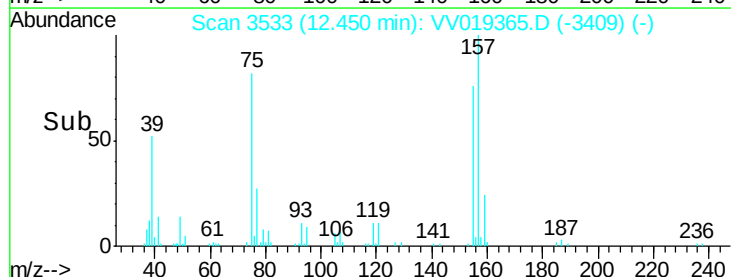
157 122.0 94.1 141.1

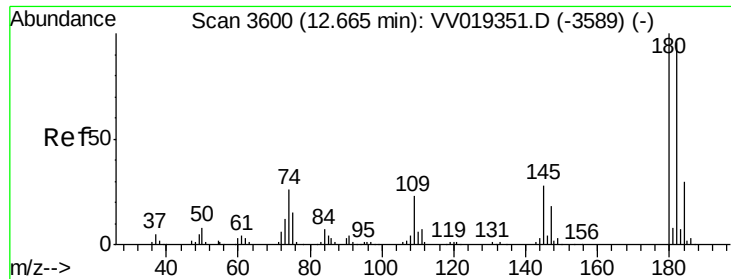


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

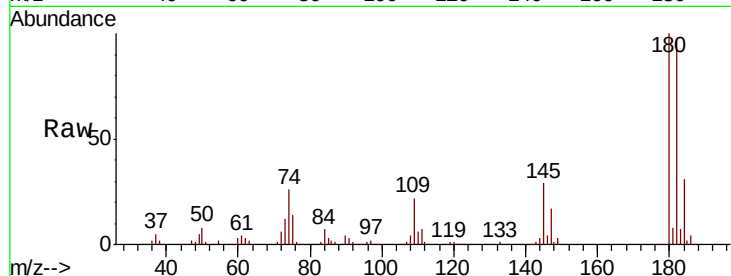




#67
 1,3,5-Trichlorobenzene
 Concen: 49.939 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05096

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.5	114.7
184	30.6	24.6	36.8
145	28.2	22.4	33.6

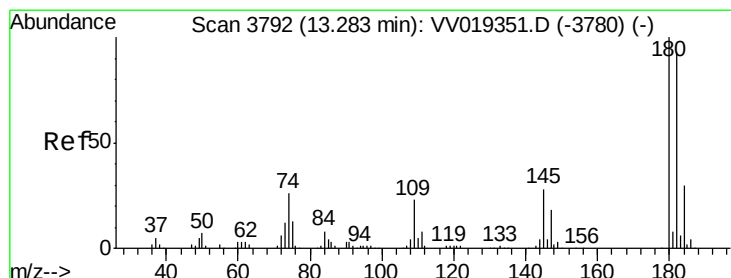
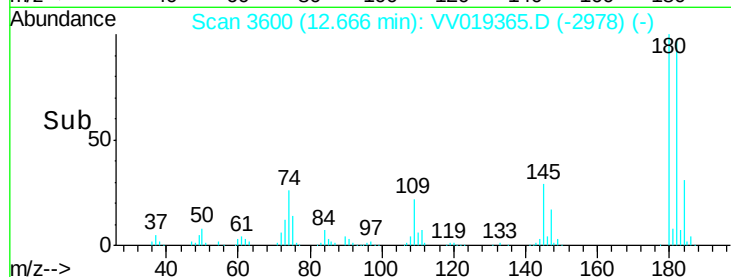
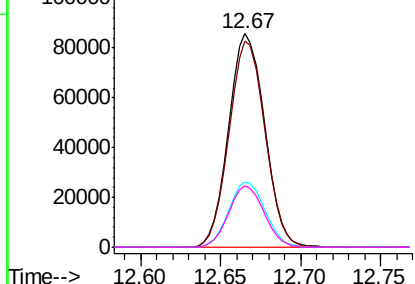


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

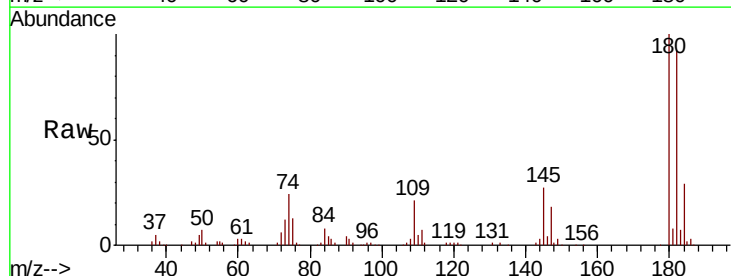
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.601 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019365.D
 Acq: 12 Nov 2020 20:33

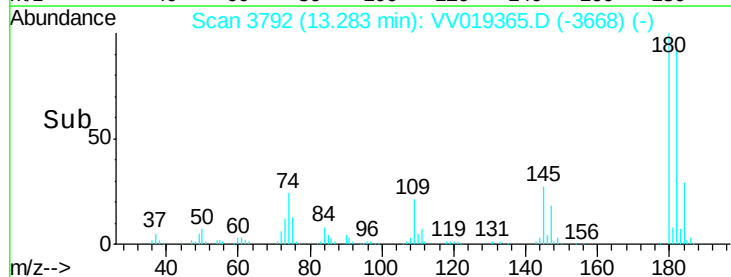
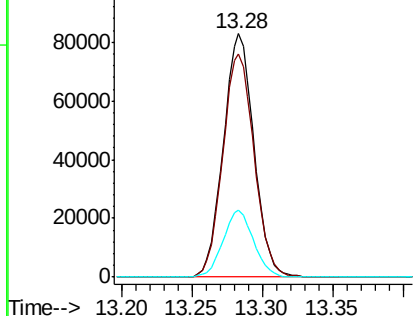
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	77.0	115.4
145	27.4	22.5	33.7

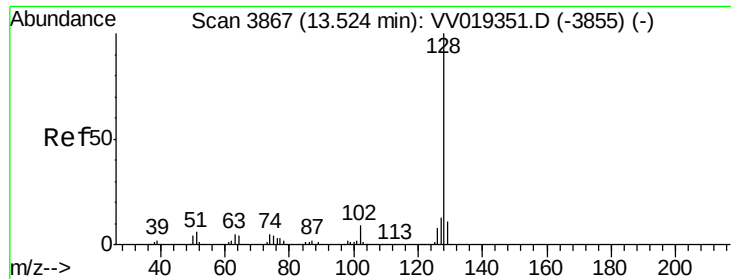


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.269 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05096

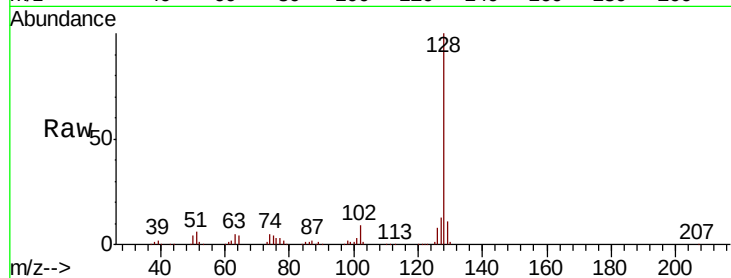
Tot Ion:128 Resp: 305069

Ion Ratio Lower Upper

128 100

127 13.1 10.9 16.3

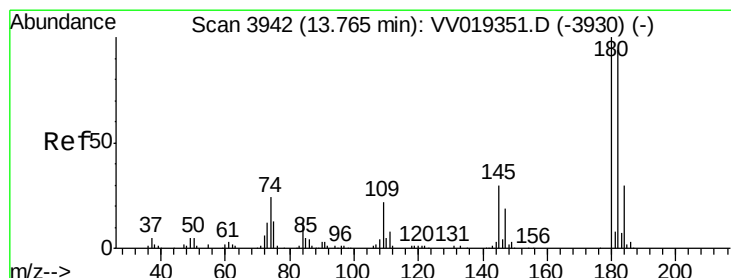
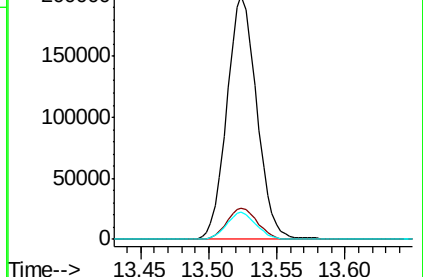
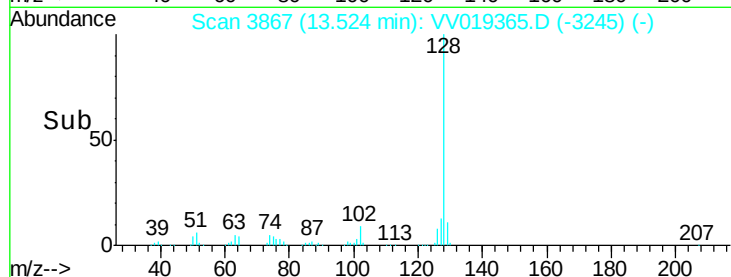
129 10.9 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 53.678 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019365.D

Acq: 12 Nov 2020 20:33

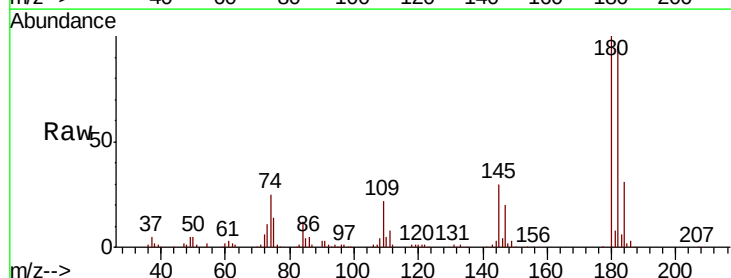
Tgt Ion:180 Resp: 128568

Ion Ratio Lower Upper

180 100

182 95.8 76.0 114.0

145 29.7 24.2 36.2



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

