

Data File : VV014109.D
Acq On : 18 Dec 2019 09:33
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

Quant Time: Dec 19 07:01:50 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 18 06:35:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	776368	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	712287	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	394567	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	242182	53.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.88%
7) Chloroethane-d5	1.58	69	227252	48.49	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.98%
11) 1,1-Dichloroethene-d2	2.13	63	454282	45.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.50%
21) 2-Butanone-d5	3.92	46	309258	97.85	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.85%
24) Chloroform-d	4.39	84	483129	51.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.48%
26) 1,2-Dichloroethane-d4	5.07	65	286283	47.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.82%
32) Benzene-d6	5.09	84	940251	50.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.88%
36) 1,2-Dichloropropane-d6	6.11	67	292842	52.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.72%
41) Toluene-d8	7.35	98	829340	49.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.58%
43) trans-1,3-Dichloropropene-	7.66	79	125962	46.72	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.44%
47) 2-Hexanone-d5	8.12	63	218375	105.56	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.56%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	377746	47.09	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.18%
64) 1,2-Dichlorobenzene-d4	11.67	152	342419	44.19	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.38%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	316976	45.854	ug/L 98
3) Chloromethane	1.25	50	349184	55.251	ug/L 100
5) Vinyl chloride	1.33	62	316471	48.013	ug/L 96
6) Bromomethane	1.53	94	162614	40.805	ug/L 98
8) Chloroethane	1.60	64	193000	44.006	ug/L 99
9) Trichlorofluoromethane	1.77	101	435174	42.448	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	254709	43.622	ug/L 98
12) 1,1-Dichloroethene	2.14	96	232430	41.210	ug/L 90
13) Acetone	2.18	43	447951	96.720	ug/L 98
14) Carbon disulfide	2.32	76	645279	43.384	ug/L 100
15) Methyl Acetate	2.45	43	277063	48.540	ug/L 98
16) Methylene chloride	2.53	84	279667	47.616	ug/L 93
17) trans-1,2-Dichloroethene	2.79	96	250088	45.332	ug/L 94
18) Methyl tert-butyl Ether	2.80	73	752613	47.010	ug/L 100
19) 1,1-Dichloroethane	3.23	63	483093	48.604	ug/L 98
20) cis-1,2-Dichloroethene	3.96	96	276678	46.311	ug/L 95
22) 2-Butanone	4.00	43	466743	104.995	ug/L 94

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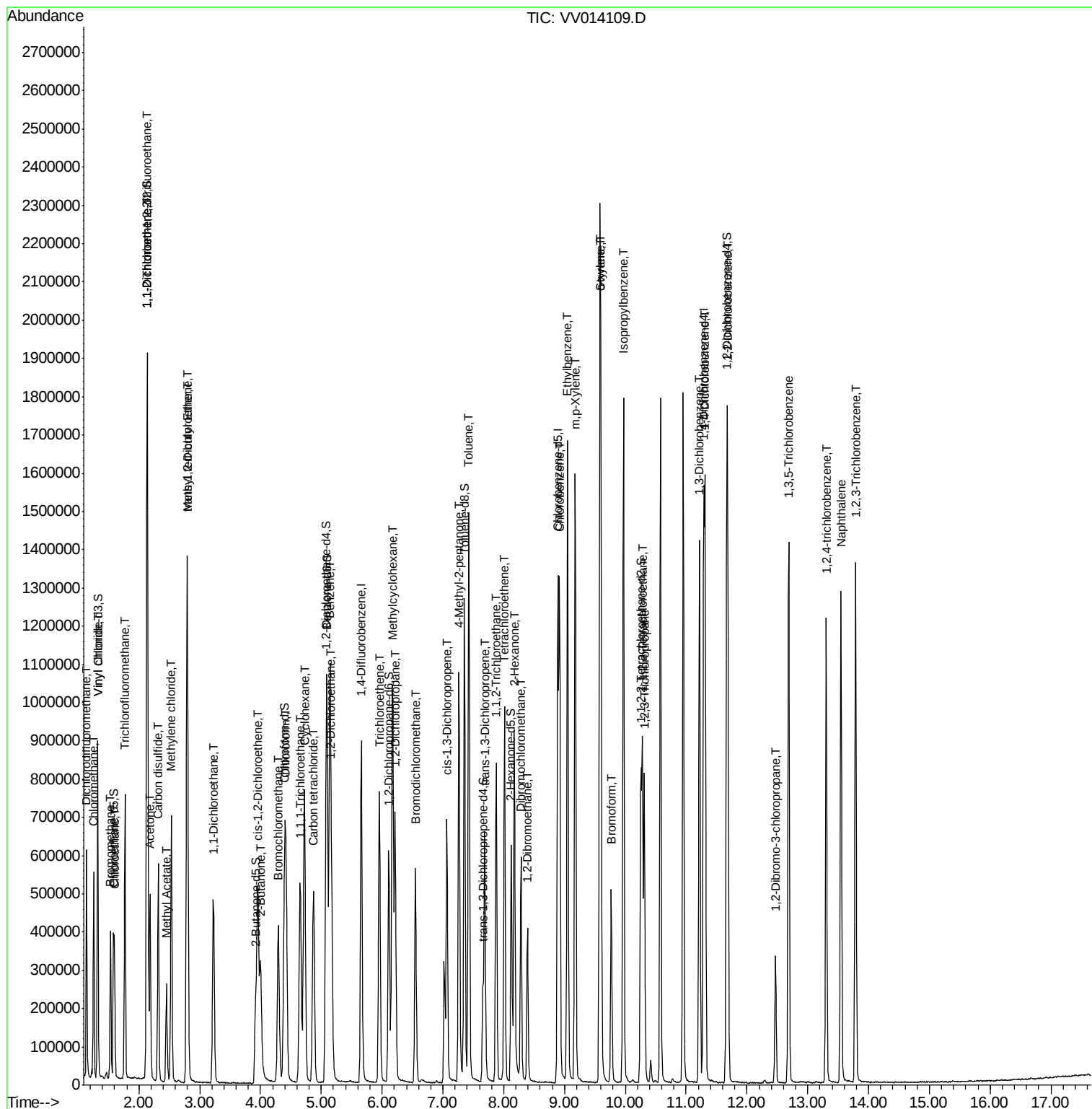
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	149208	45.205	ug/L	92
25) Chloroform	4.42	83	496675	46.743	ug/L	97
27) 1,2-Dichloroethane	5.17	62	365908	47.790	ug/L	100
29) Cyclohexane	4.72	56	397754	47.796	ug/L	98
30) 1,1,1-Trichloroethane	4.65	97	413706	48.112	ug/L	99
31) Carbon tetrachloride	4.87	117	380683	49.560	ug/L	99
33) Benzene	5.14	78	1060224	49.982	ug/L	100
34) Trichloroethene	5.96	95	267358	46.994	ug/L	99
35) Methylcyclohexane	6.17	83	419470	49.140	ug/L	97
37) 1,2-Dichloropropane	6.21	63	272988	53.174	ug/L	100
38) Bromodichloromethane	6.55	83	367666	50.499	ug/L	98
39) cis-1,3-Dichloropropene	7.06	75	403401	49.913	ug/L	100
40) 4-Methyl-2-pentanone	7.26	43	685066	102.619	ug/L	99
42) Toluene	7.42	91	1074271	49.085	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	356876	48.762	ug/L	98
45) 1,1,2-Trichloroethane	7.87	97	252701	49.589	ug/L	98
46) Tetrachloroethene	8.01	164	236302	46.029	ug/L	96
48) 2-Hexanone	8.17	43	579536	108.521	ug/L	94
49) Dibromochloromethane	8.28	129	301828	48.453	ug/L	98
50) 1,2-Dibromoethane	8.39	107	263190	46.884	ug/L	99
51) Chlorobenzene	8.92	112	702921	46.553	ug/L	99
52) Ethylbenzene	9.05	91	1157766	47.986	ug/L	100
53) m,p-Xylene	9.17	106	453693	48.627	ug/L	98
54) o-xylene	9.58	106	434707	47.652	ug/L	100
55) Styrene	9.60	104	772456	49.079	ug/L	97
56) Isopropylbenzene	9.97	105	1144580	46.678	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	405247	48.849	ug/L	98
59) 1,2,3-Trichloropropane	10.31	75	323302	46.536	ug/L	100
61) Bromoform	9.77	173	233032	48.280	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	601834	46.486	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	605956	45.273	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	586201	45.265	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	78844	43.807	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	473796	45.065	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	400659	42.234	ug/L	100
69) Naphthalene	13.55	128	1004999	40.347	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	452229	45.584	ug/L	99

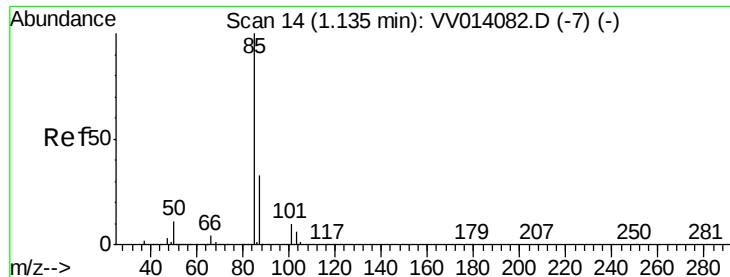
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 45.854 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

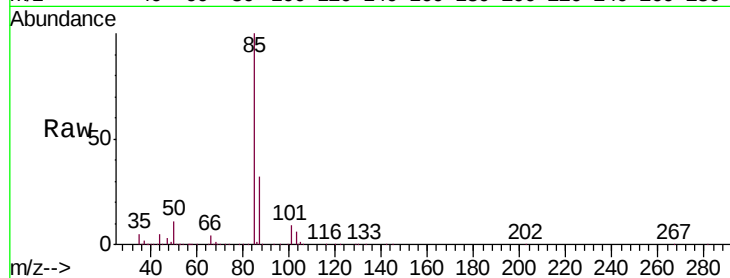
VSTD05086

Tgt Ion: 85 Resp: 316976

Ion Ratio Lower Upper

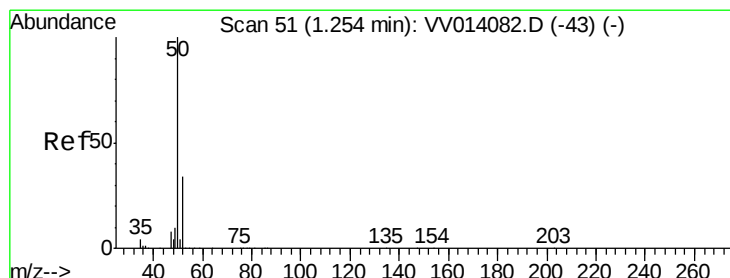
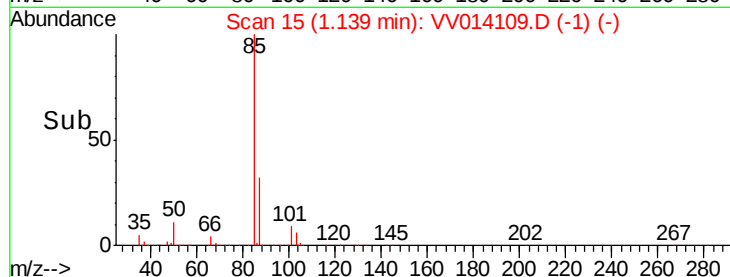
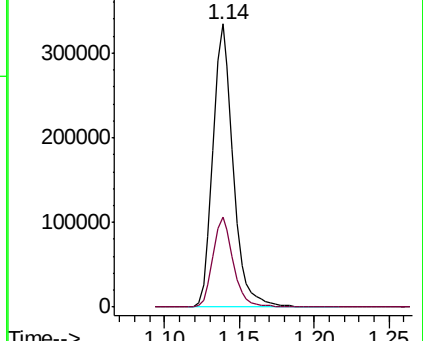
85 100

87 31.8 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 55.251 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV014109.D

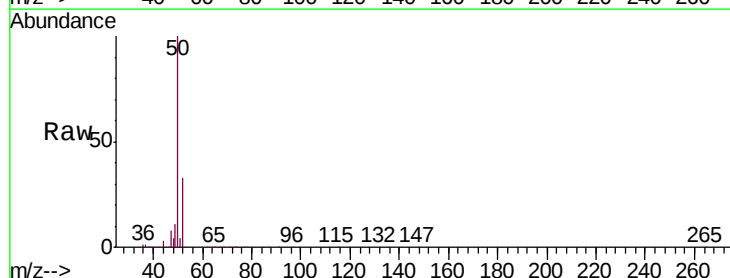
Acq: 18 Dec 2019 09:33

Tgt Ion: 50 Resp: 349184

Ion Ratio Lower Upper

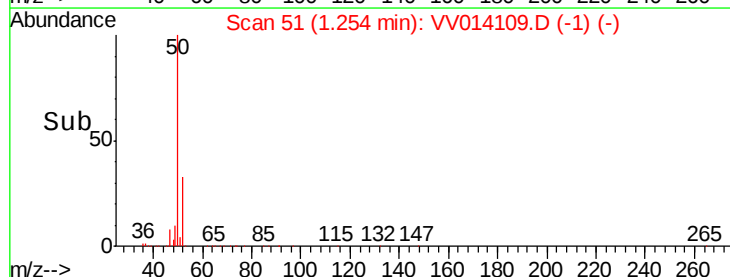
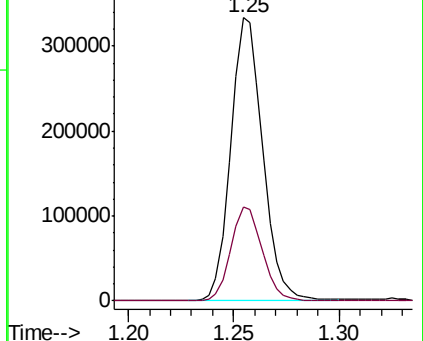
50 100

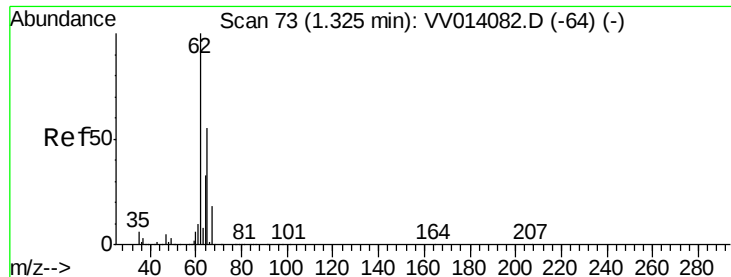
52 33.0 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 48.013 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

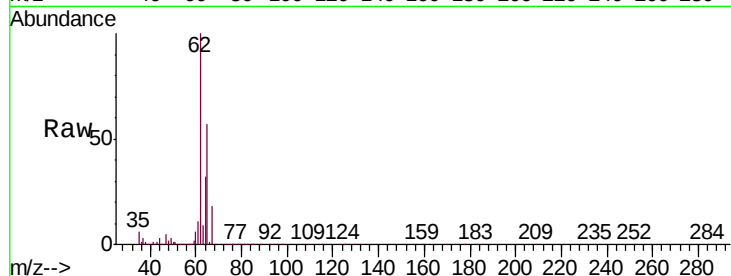
VSTD05086

Tgt Ion: 62 Resp: 316471

Ion Ratio Lower Upper

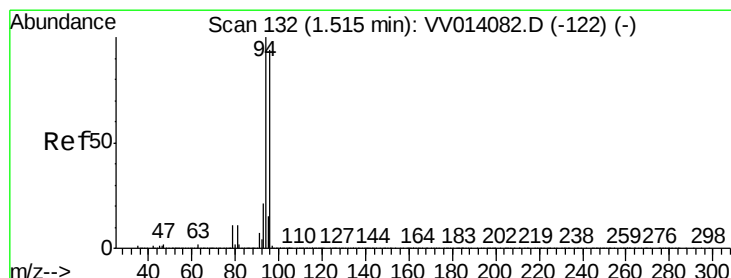
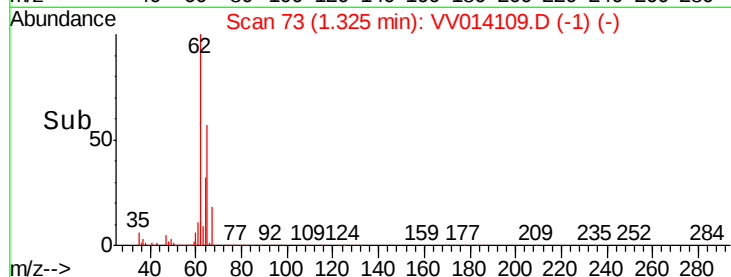
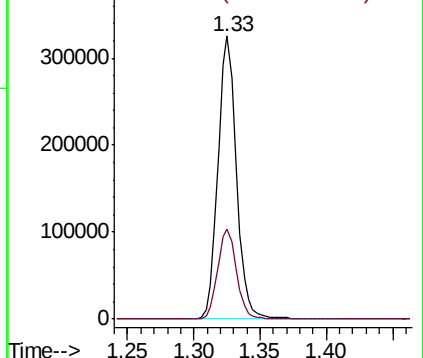
62 100

64 32.0 24.1 44.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 40.805 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.02 min

Lab File: VV014109.D

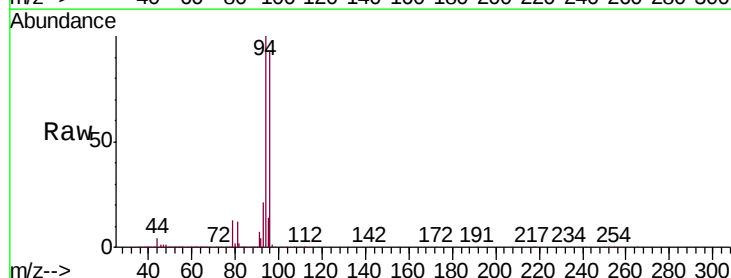
Acq: 18 Dec 2019 09:33

Tgt Ion: 94 Resp: 162614

Ion Ratio Lower Upper

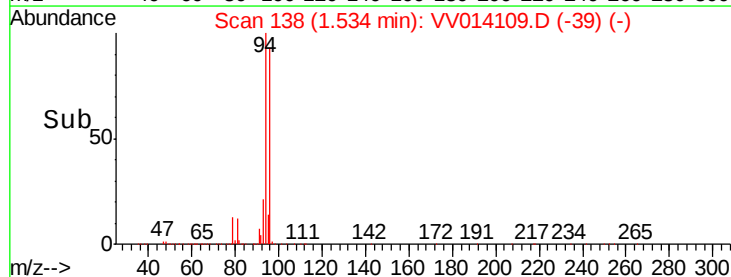
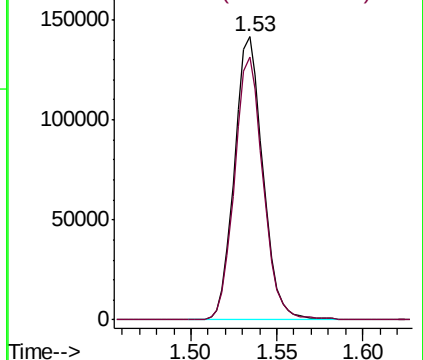
94 100

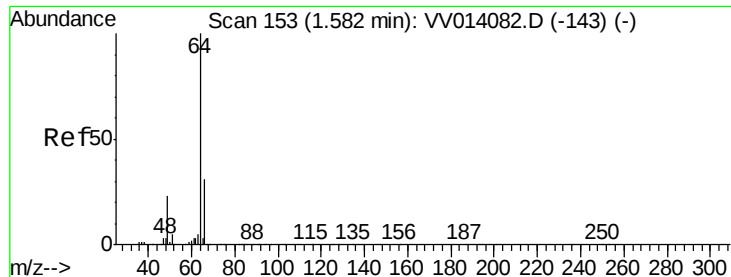
96 93.0 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 44.006 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.02 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

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ClientSampleId :

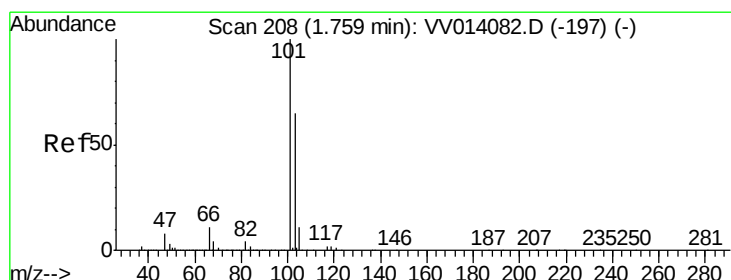
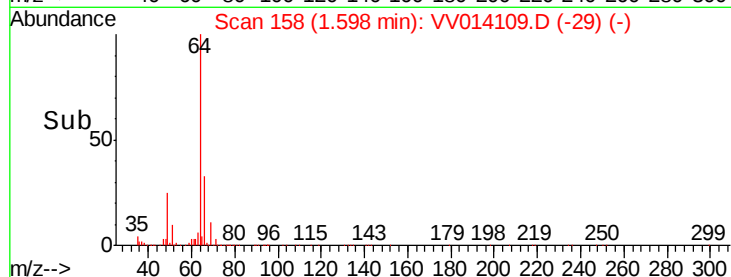
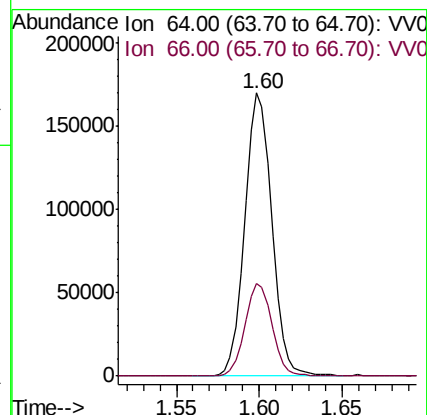
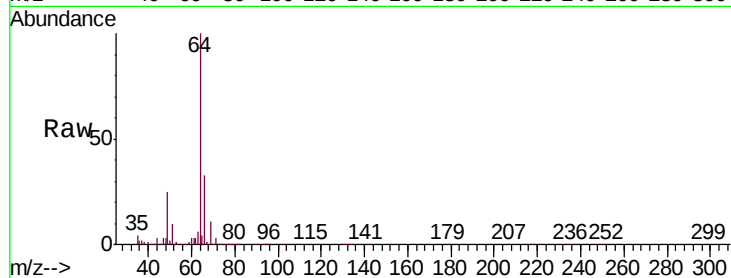
VSTD05086

Tgt Ion: 64 Resp: 193000

Ion Ratio Lower Upper

64 100

66 32.8 22.7 42.1



#9

Trichlorofluoromethane

Concen: 42.448 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.01 min

Lab File: VV014109.D

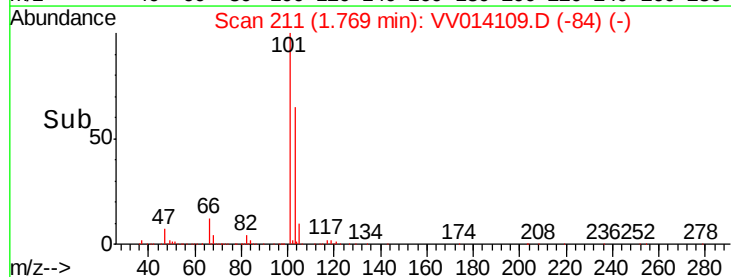
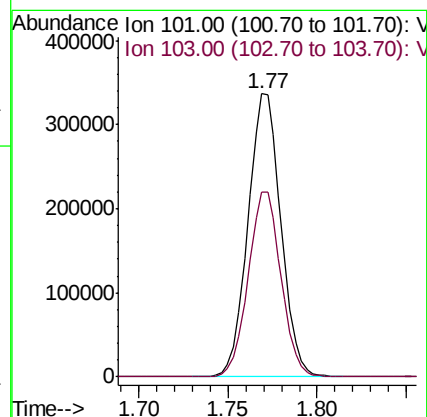
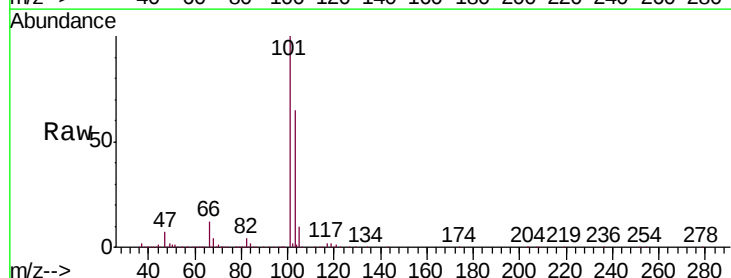
Acq: 18 Dec 2019 09:33

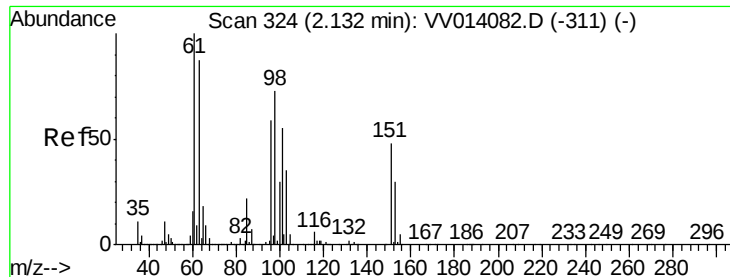
Tgt Ion: 101 Resp: 435174

Ion Ratio Lower Upper

101 100

103 65.4 51.9 77.9





#10

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

Concen: 43.622 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

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ClientSampleId :

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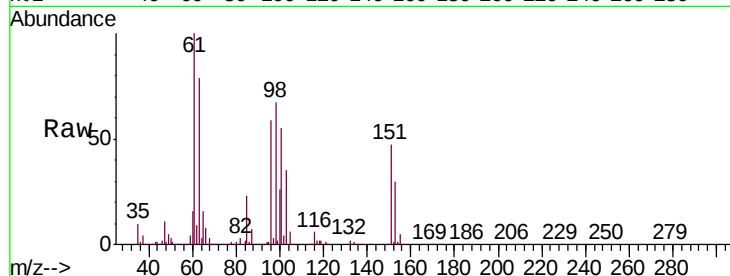
Tgt Ion: 101 Resp: 254709

Ion Ratio Lower Upper

101 100

85 40.8 32.5 48.7

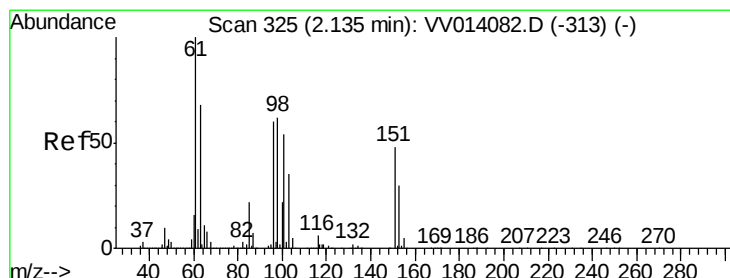
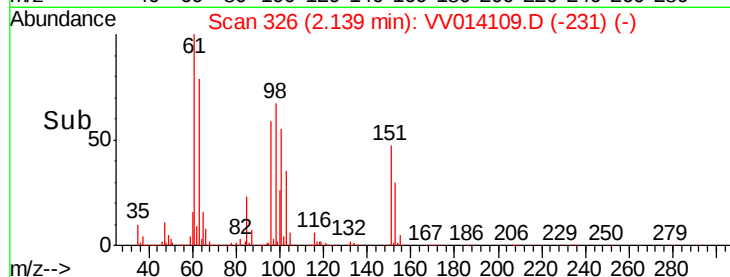
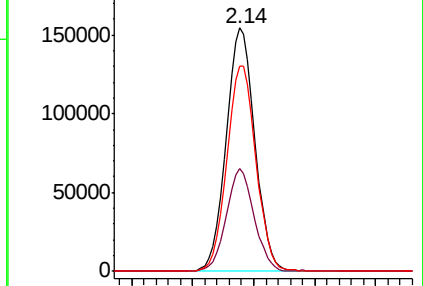
151 85.2 69.8 104.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 41.210 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

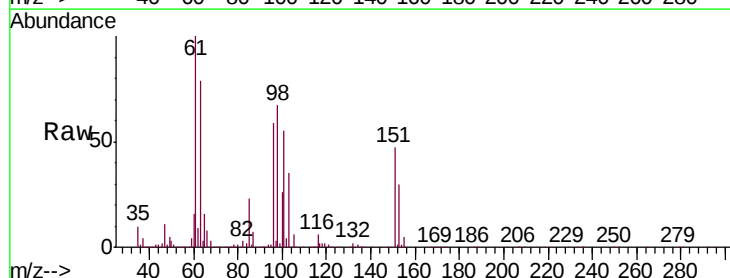
Tgt Ion: 96 Resp: 232430

Ion Ratio Lower Upper

96 100

61 168.7 114.0 211.8

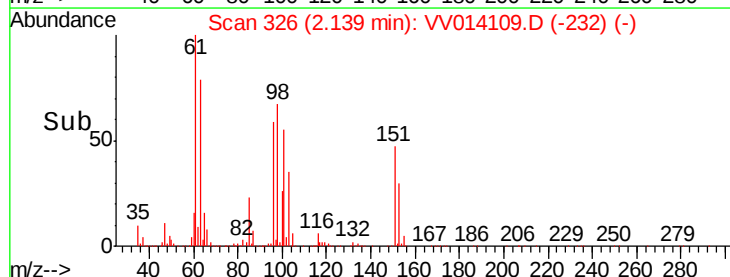
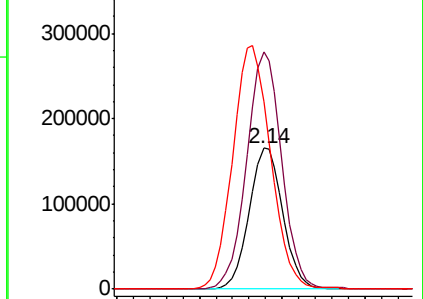
63 133.0 80.3 149.1

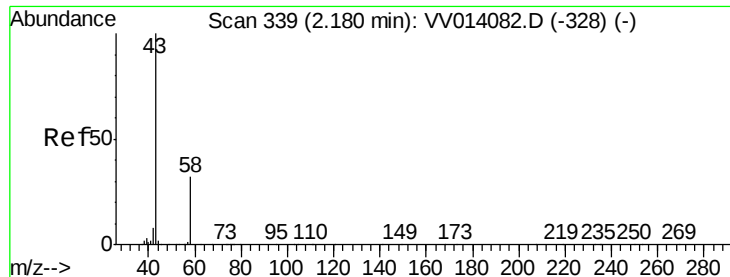


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 96.720 ug/L

RT: 2.18 min Scan# 339

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

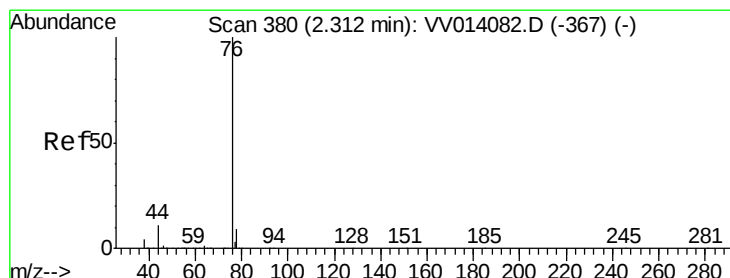
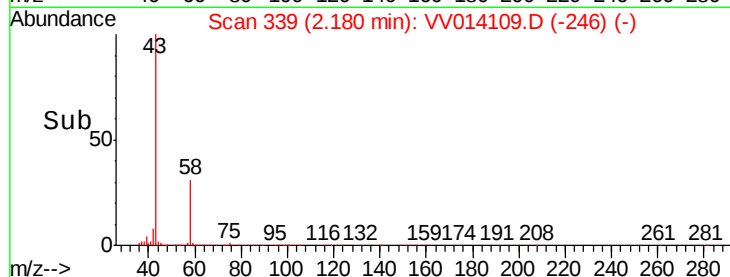
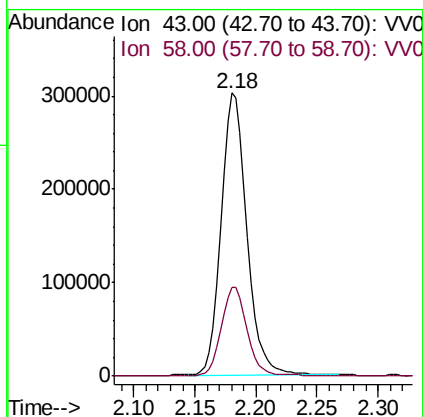
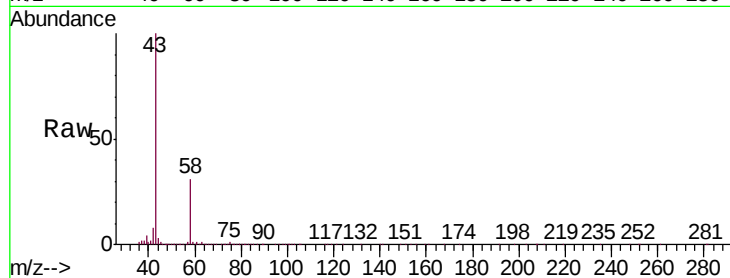
Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

Tgt Ion: 43 Resp: 447951

Ion Ratio Lower Upper

43 100

58 31.6 0.0 60.8



#14

Carbon disulfide

Concen: 43.384 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV014109.D

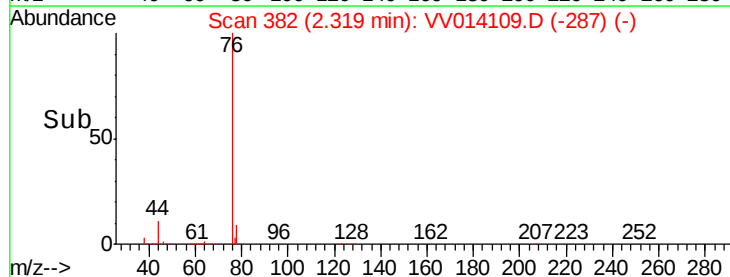
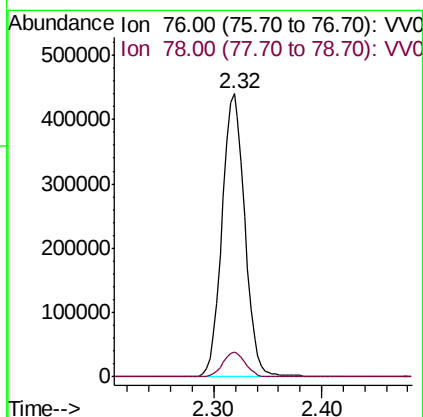
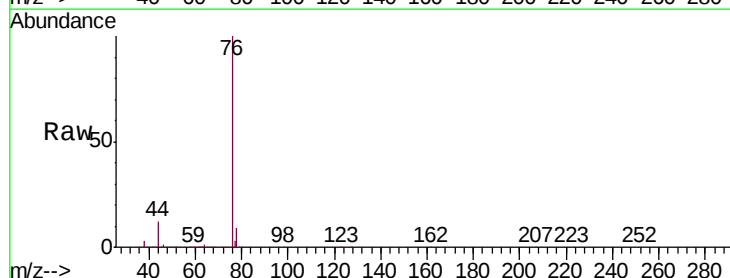
Acq: 18 Dec 2019 09:33

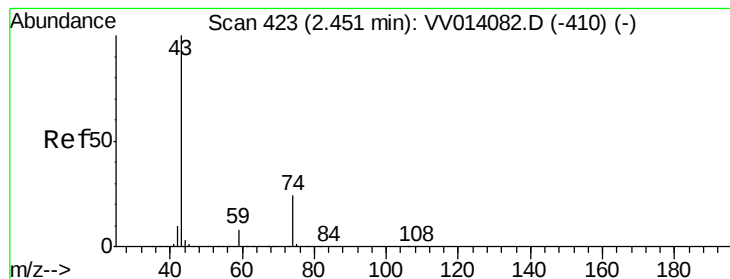
Tgt Ion: 76 Resp: 645279

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8





#15

Methyl Acetate

Concen: 48.540 ug/L

RT: 2.45 min Scan# 424

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

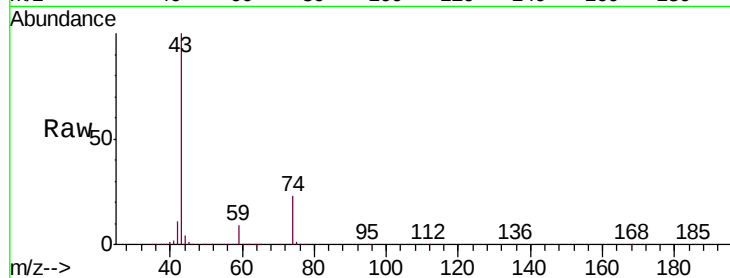
VSTD05086

Tgt Ion: 43 Resp: 277063

Ion Ratio Lower Upper

43 100

74 22.9 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VV014109.D (-330) (-)

Ion 74.00 (73.70 to 74.70): VV014109.D (-330) (-)

200000

150000

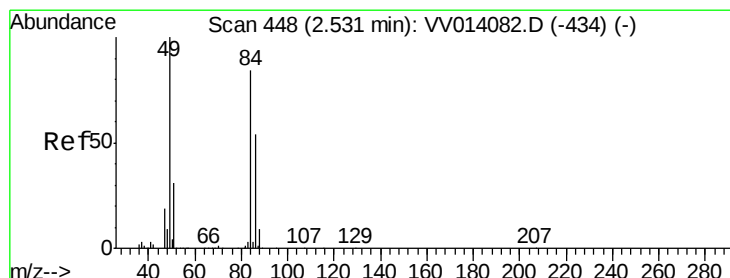
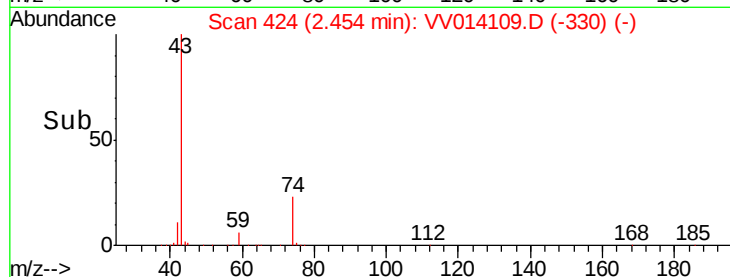
100000

50000

0

2.40 2.45 2.50 2.55

Time-->



#16

Methylene chloride

Concen: 47.616 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

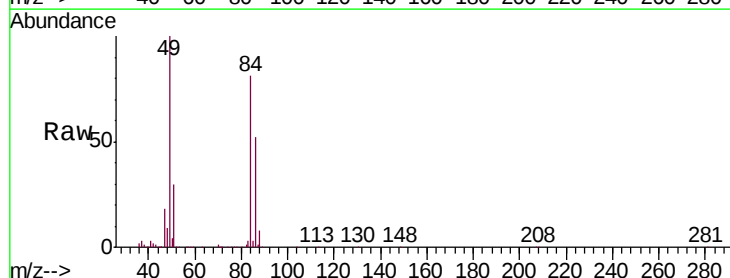
Tgt Ion: 84 Resp: 279667

Ion Ratio Lower Upper

84 100

86 64.2 43.9 81.5

49 123.7 79.7 147.9



Abundance Ion 84.00 (83.70 to 84.70): VV014109.D (-355) (-)

Ion 86.00 (85.70 to 86.70): VV014109.D (-355) (-)

Ion 49.00 (48.70 to 49.70): VV014109.D (-355) (-)

300000

250000

200000

150000

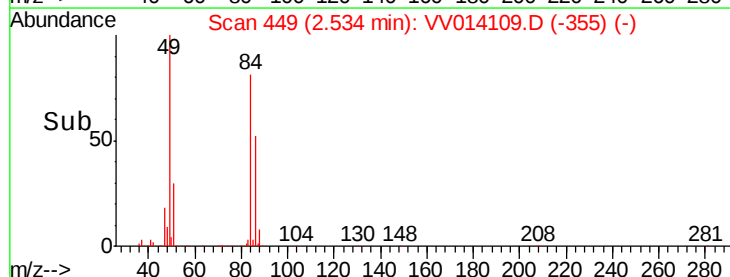
100000

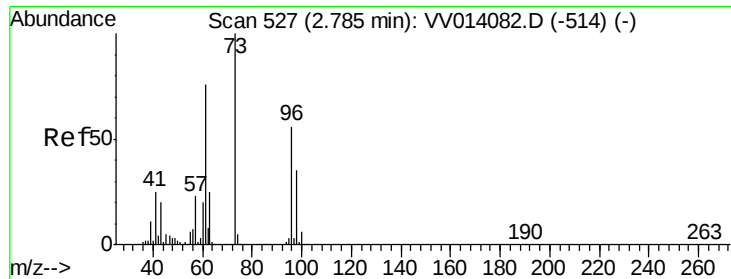
50000

0

2.45 2.50 2.55 2.60

Time-->





#17

trans-1,2-Dichloroethene

Concen: 45.332 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

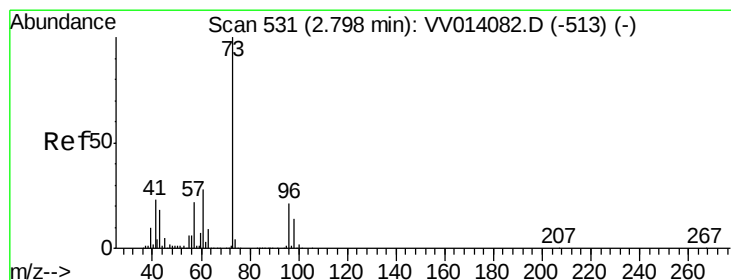
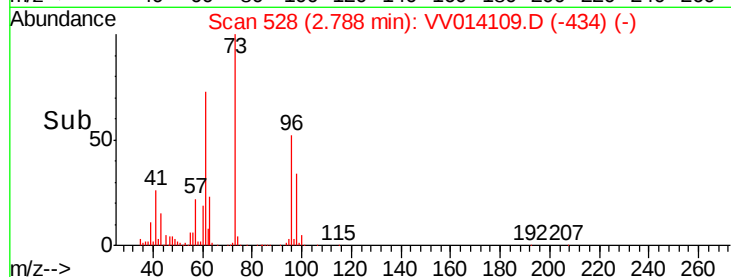
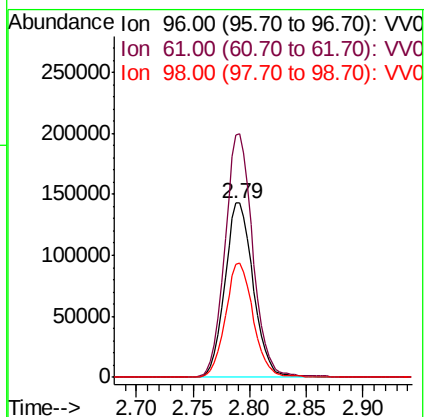
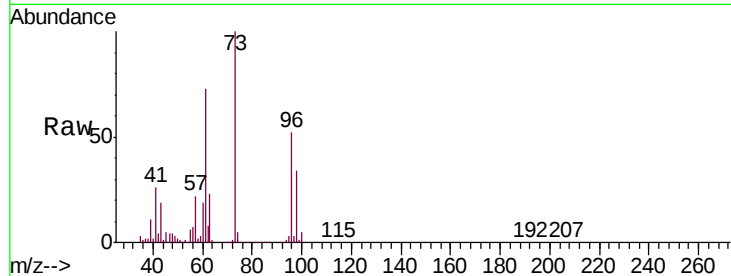
Tgt Ion: 96 Resp: 250088

Ion Ratio Lower Upper

96 100

61 138.9 92.2 171.2

98 64.7 42.6 79.2



#18

Methyl tert-butyl Ether

Concen: 47.010 ug/L

RT: 2.80 min Scan# 531

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

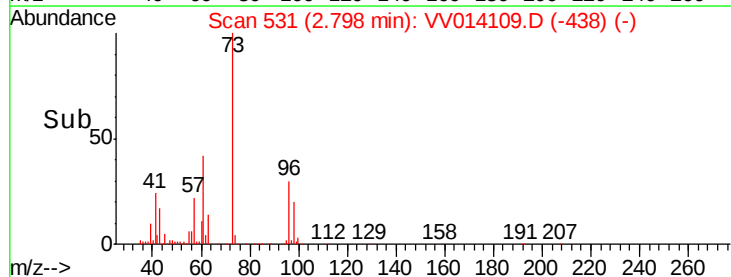
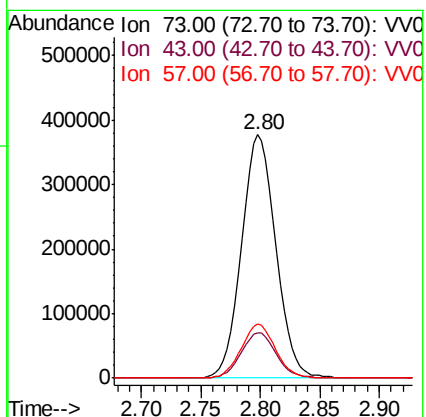
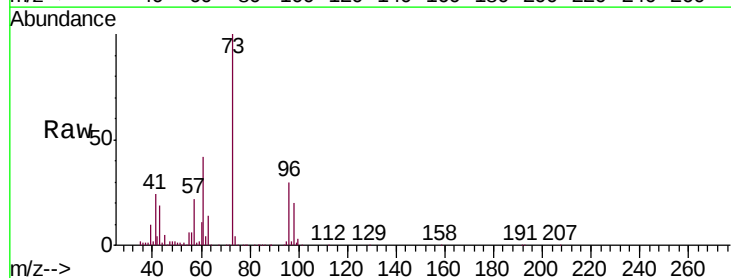
Tgt Ion: 73 Resp: 752613

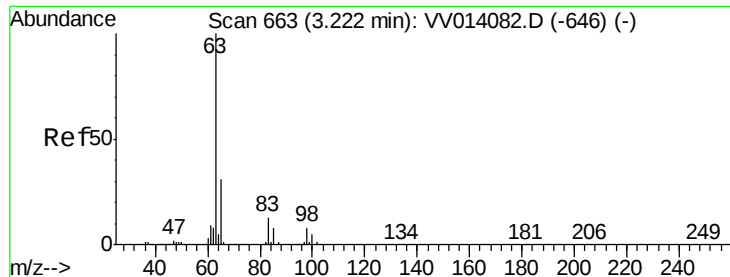
Ion Ratio Lower Upper

73 100

43 18.7 15.0 22.6

57 22.2 17.4 26.2

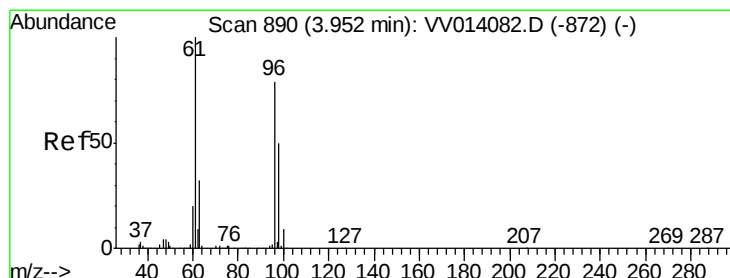
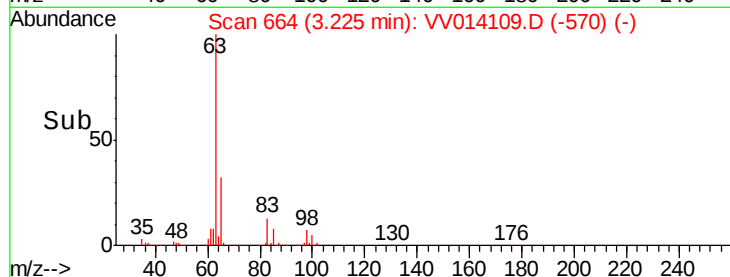
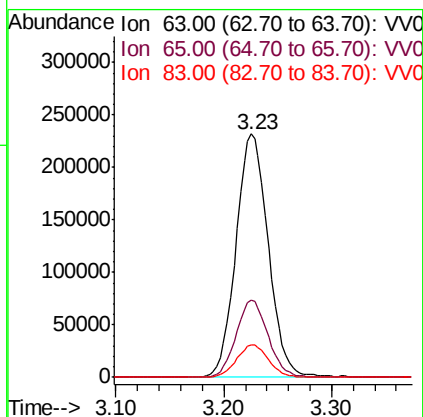
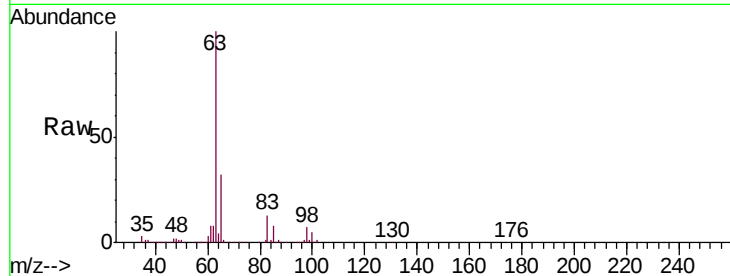




#19
 1,1-Dichloroethane
 Concen: 48.604 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV014109.D
 Acq: 18 Dec 2019 09:33

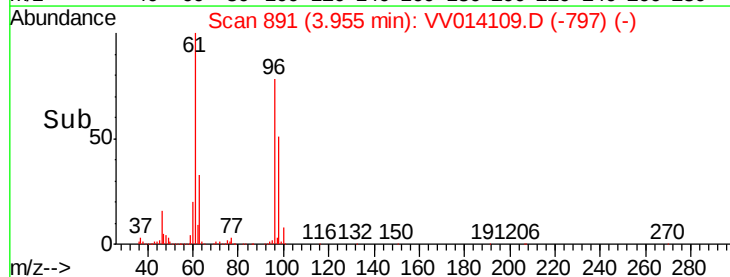
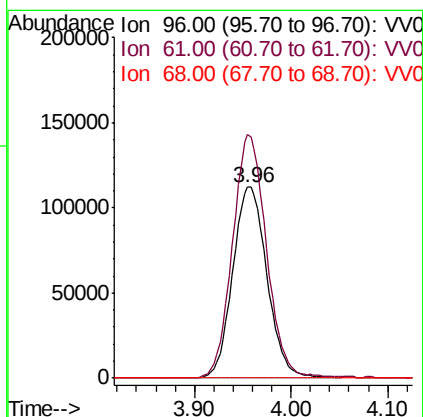
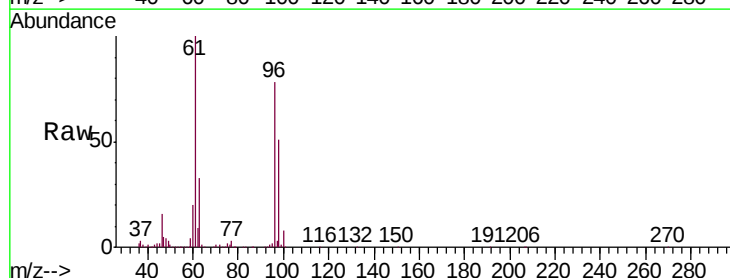
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05086

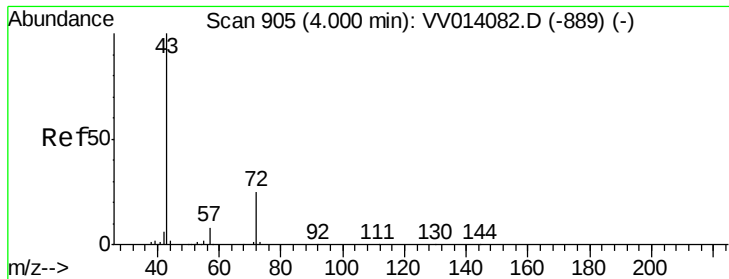
Tgt Ion: 63 Resp: 483093
 Ion Ratio Lower Upper
 63 100
 65 31.8 21.5 39.9
 83 13.2 9.7 18.1



#20
 cis-1,2-Dichloroethene
 Concen: 46.311 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VV014109.D
 Acq: 18 Dec 2019 09:33

Tgt Ion: 96 Resp: 276678
 Ion Ratio Lower Upper
 96 100
 61 127.6 85.3 158.5
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 104.995 ug/L

RT: 4.00 min Scan# 905

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

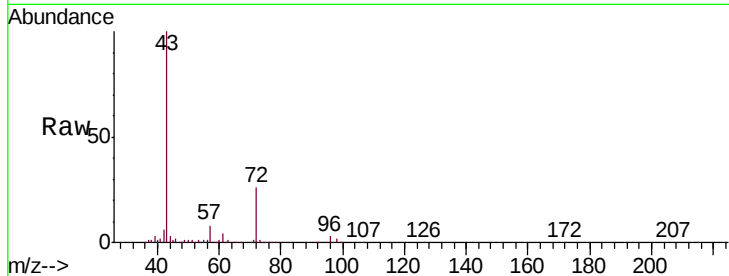
VSTD05086

Tgt Ion: 43 Resp: 466743

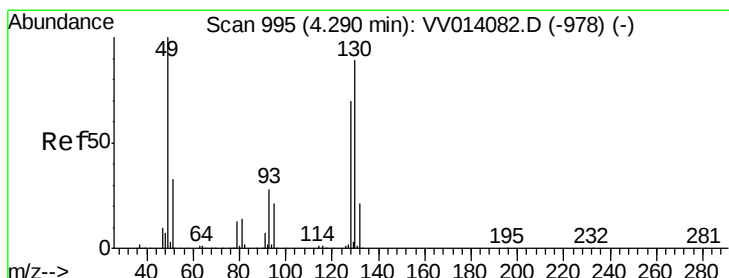
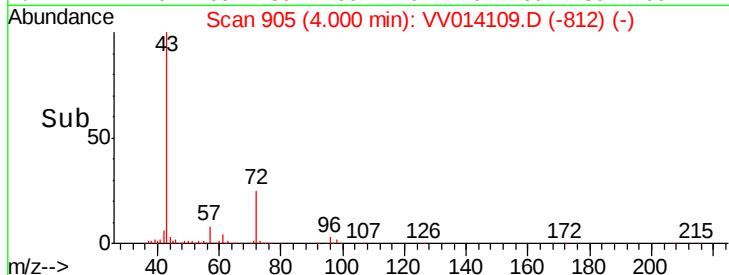
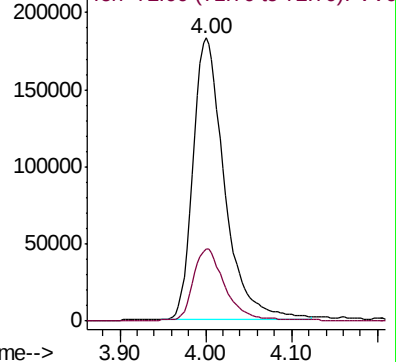
Ion Ratio Lower Upper

43 100

72 25.1 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV014109.D (-812) (-)



#23

Bromochloromethane

Concen: 45.205 ug/L

RT: 4.29 min Scan# 996

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Tgt Ion: 128 Resp: 149208

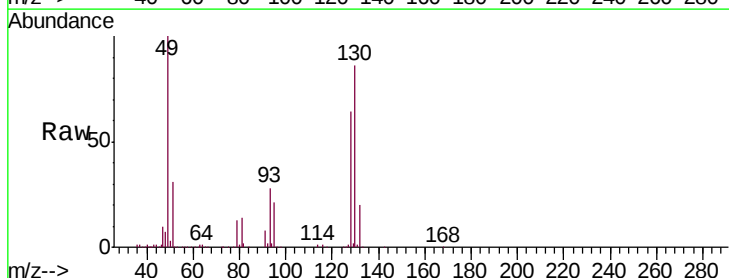
Ion Ratio Lower Upper

128 100

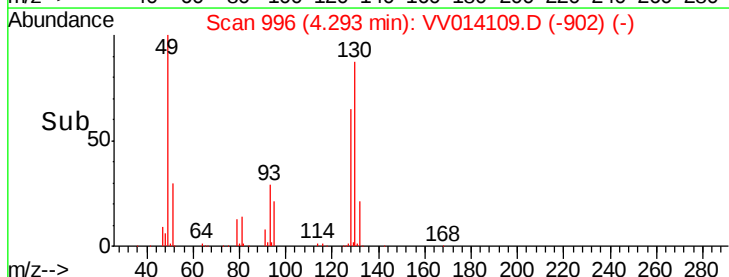
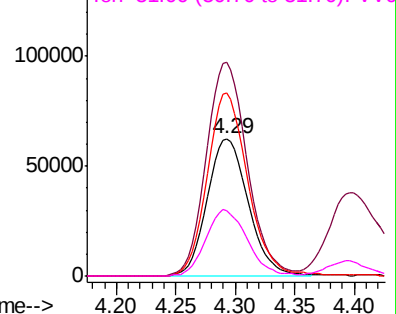
49 155.8 100.4 186.4

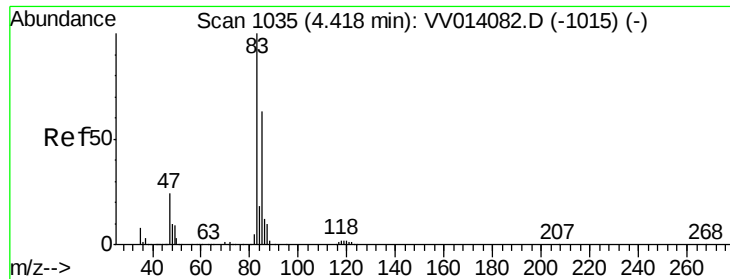
130 133.8 88.3 163.9

51 47.9 35.8 53.8



Abundance Ion 128.00 (127.70 to 128.70): VV014109.D (-902) (-)

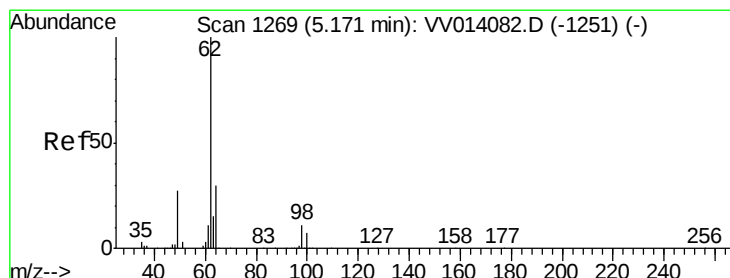
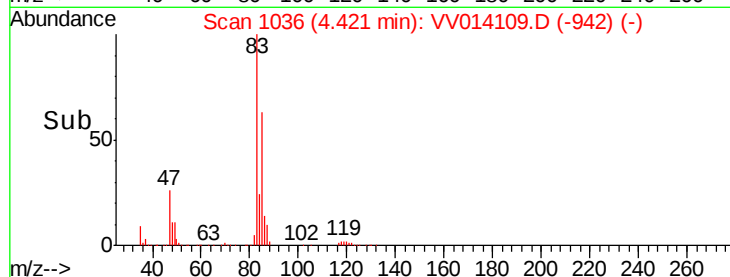
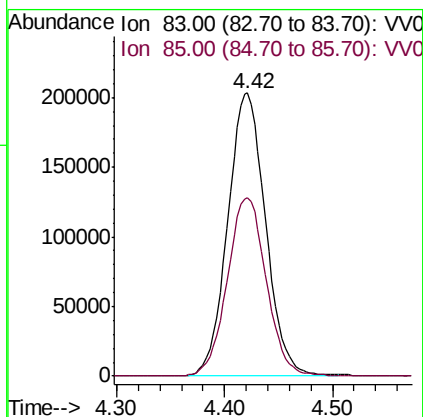
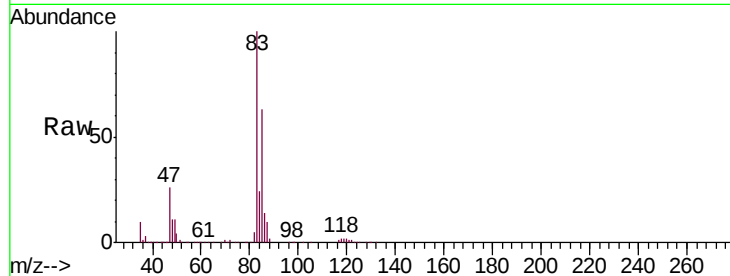




#25
Chloroform
Concen: 46.743 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

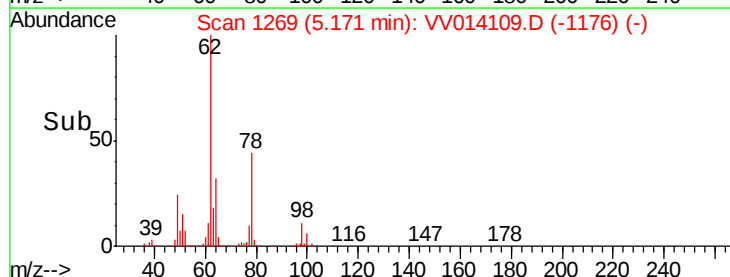
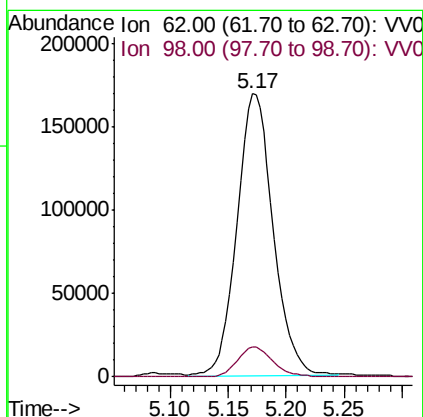
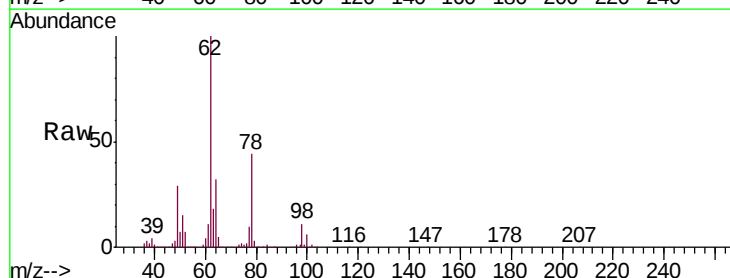
Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

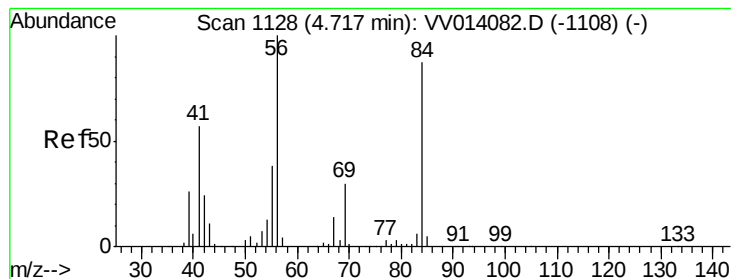
Tgt Ion: 83 Resp: 496675
Ion Ratio Lower Upper
83 100
85 63.2 45.7 84.9



#27
1,2-Dichloroethane
Concen: 47.790 ug/L
RT: 5.17 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

Tgt Ion: 62 Resp: 365908
Ion Ratio Lower Upper
62 100
98 10.6 8.5 12.7





#29

Cyclohexane

Concen: 47.796 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

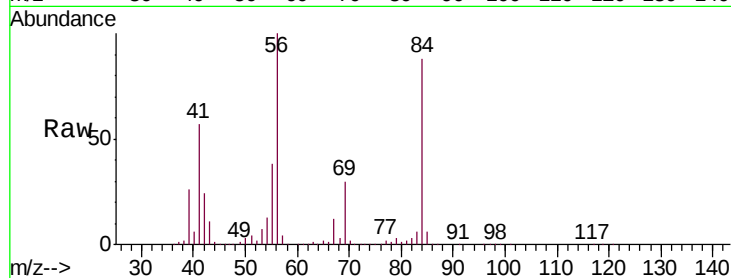
Tgt Ion: 56 Resp: 397754

Ion Ratio Lower Upper

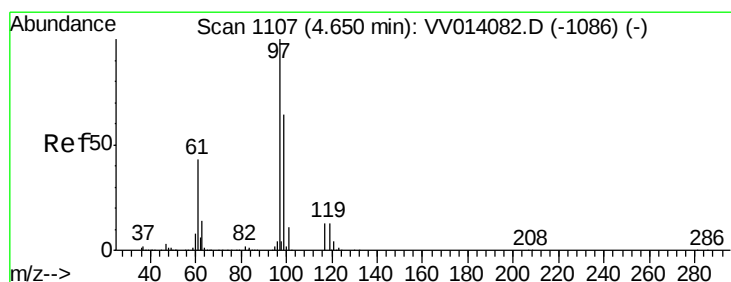
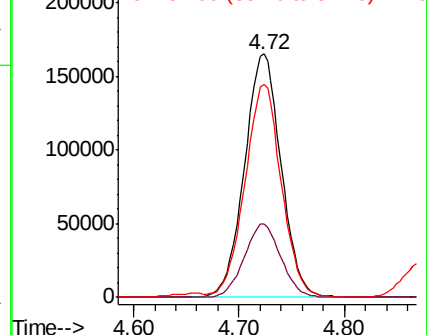
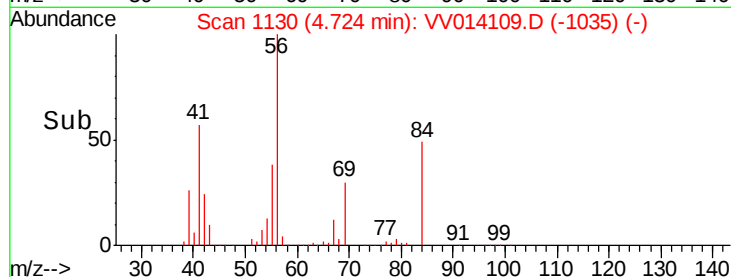
56 100

69 30.3 24.9 37.3

84 86.4 71.0 106.4



Abundance Ion 56.00 (55.70 to 56.70): VV014109.D (-1035) (-)



#30

1,1,1-Trichloroethane

Concen: 48.112 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

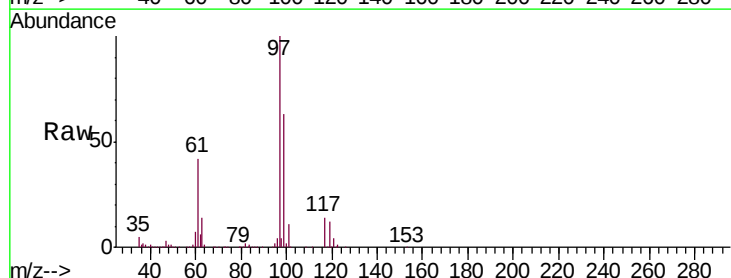
Tgt Ion: 97 Resp: 413706

Ion Ratio Lower Upper

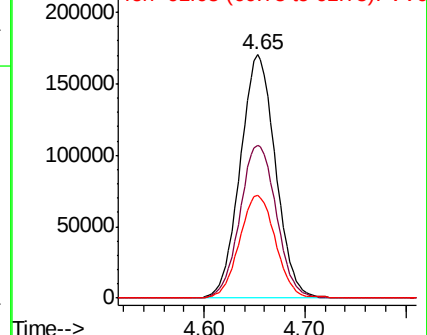
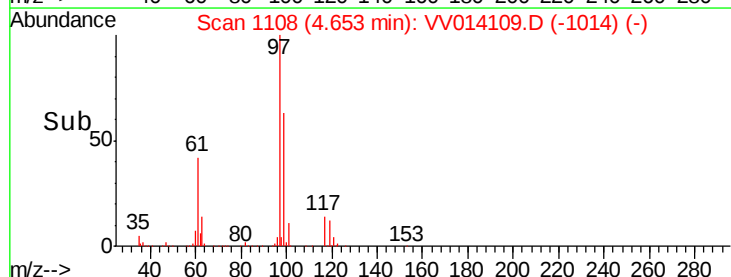
97 100

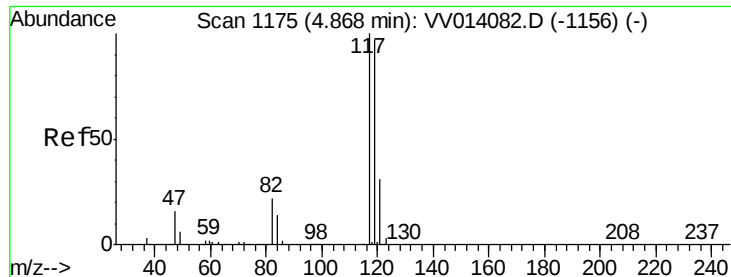
99 64.8 51.4 77.2

61 43.0 33.2 49.8



Abundance Ion 97.00 (96.70 to 97.70): VV014109.D (-1014) (-)

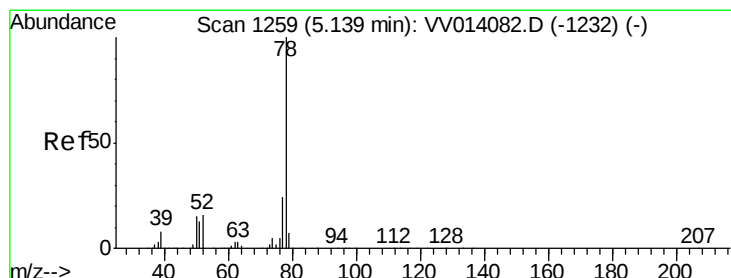
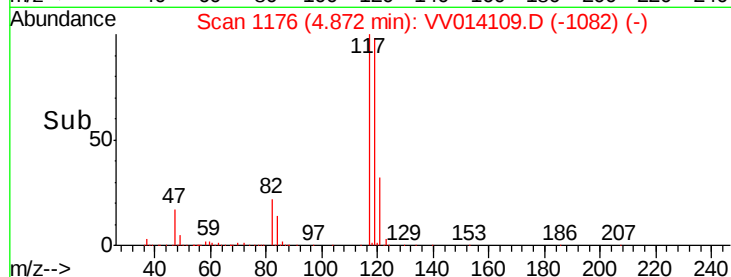
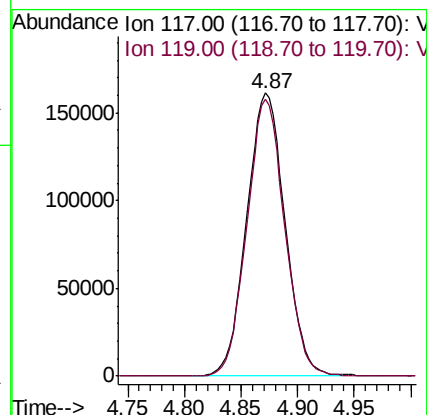
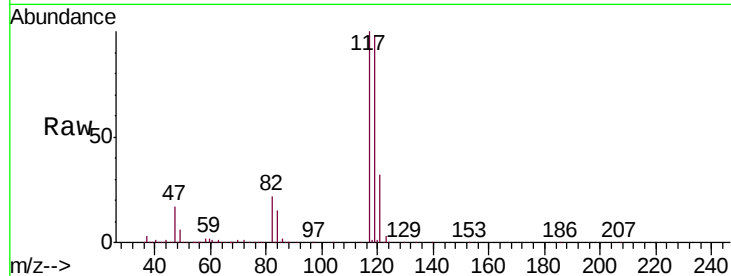




#31
Carbon tetrachloride
Concen: 49.560 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

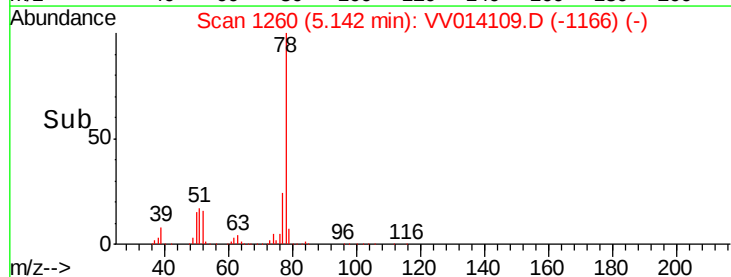
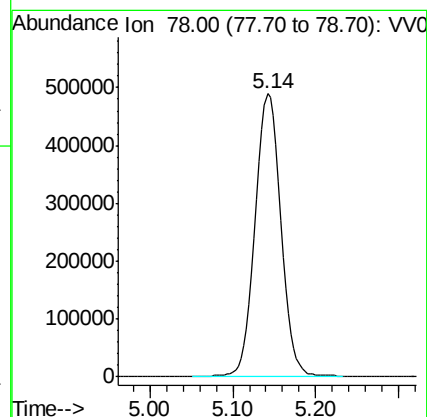
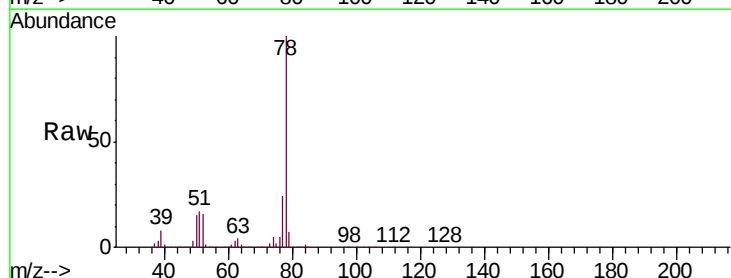
Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

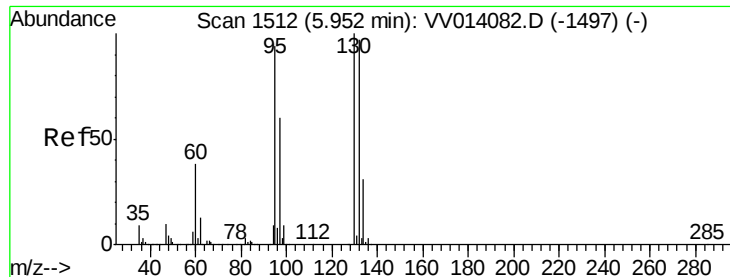
Tgt Ion:117 Resp: 380683
Ion Ratio Lower Upper
117 100
119 96.3 77.9 116.9



#33
Benzene
Concen: 49.982 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

Tgt Ion: 78 Resp: 1060224





#34

Trichloroethene

Concen: 46.994 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

Tgt Ion: 95 Resp: 267358

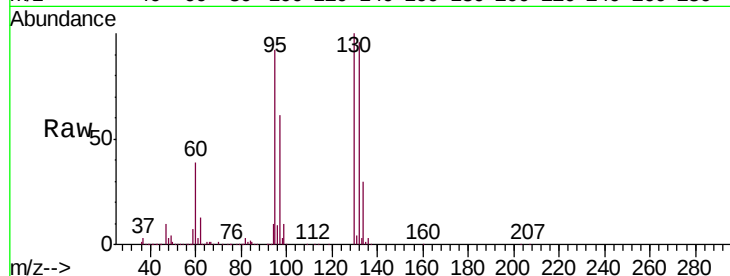
Ion Ratio Lower Upper

95 100

97 65.8 45.4 84.4

132 104.4 73.7 136.9

130 108.7 77.1 143.1

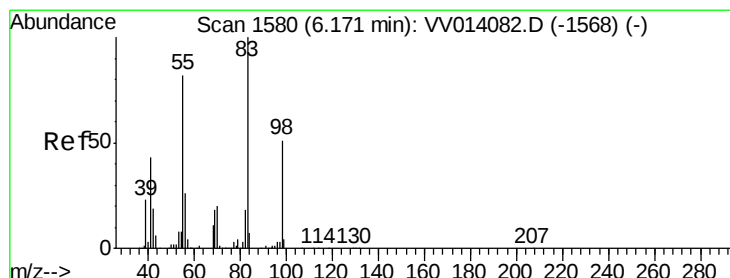
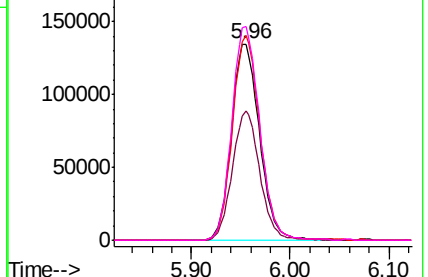
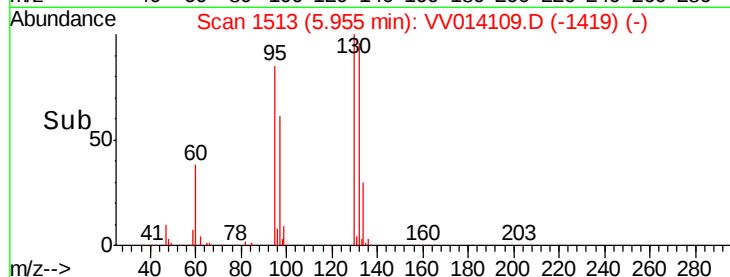


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 49.140 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

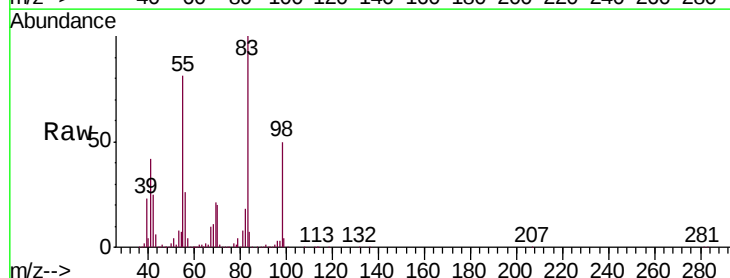
Tgt Ion: 83 Resp: 419470

Ion Ratio Lower Upper

83 100

55 80.2 61.0 91.4

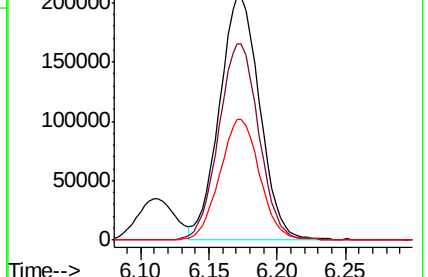
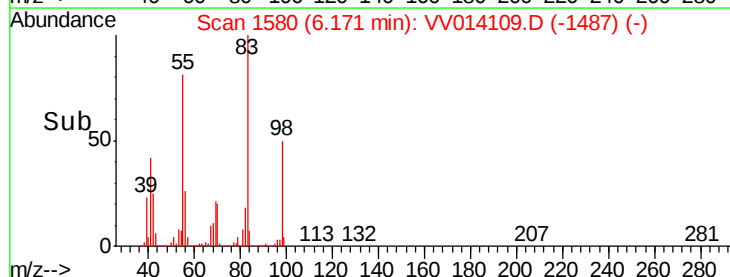
98 49.1 39.6 59.4

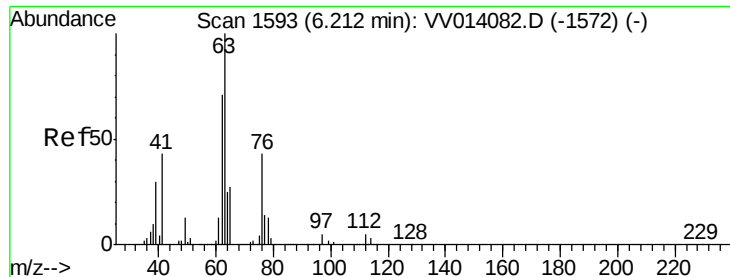


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 53.174 ug/L

RT: 6.21 min Scan# 1593

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

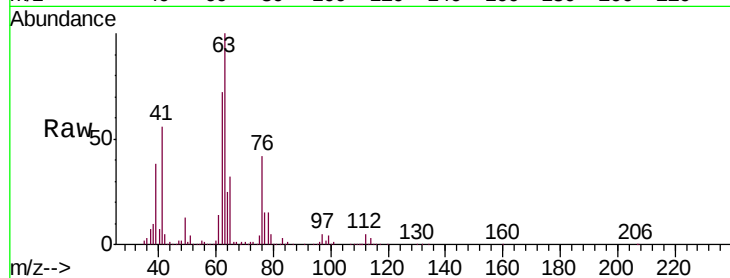
VSTD05086

Tgt Ion: 63 Resp: 272988

Ion Ratio Lower Upper

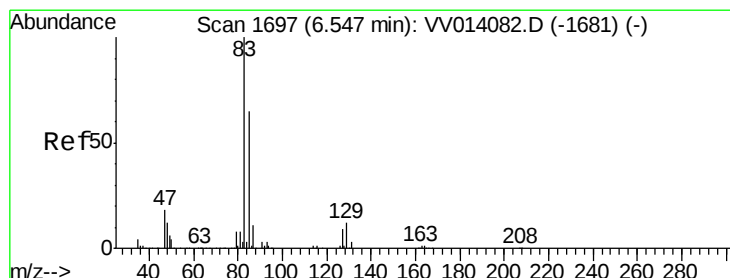
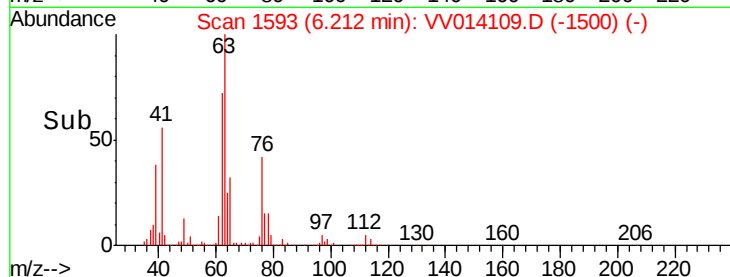
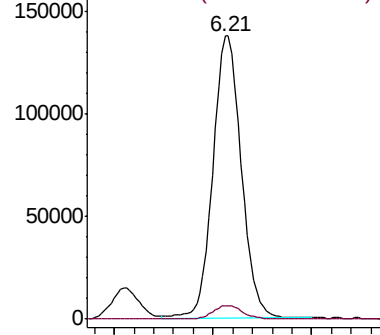
63 100

112 5.2 4.2 6.2



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 112.00 (111.70 to 112.70): V



#38

Bromodichloromethane

Concen: 50.499 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

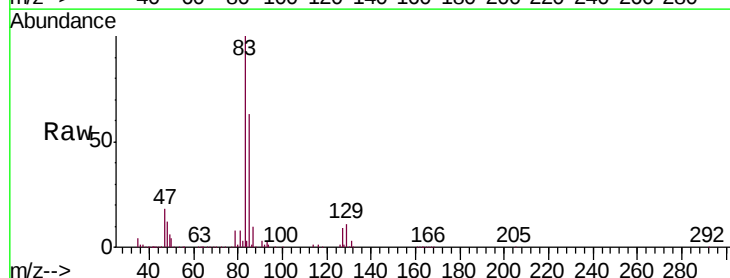
Tgt Ion: 83 Resp: 367666

Ion Ratio Lower Upper

83 100

85 62.8 44.8 83.2

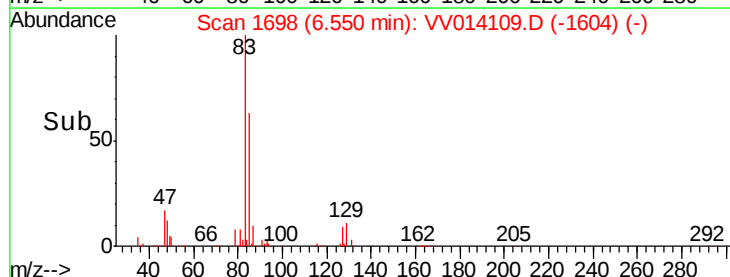
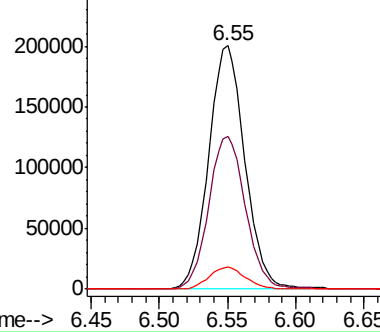
127 9.0 7.7 11.5

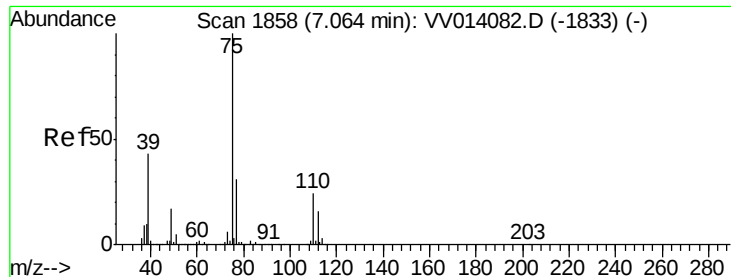


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 127.00 (126.70 to 127.70): V



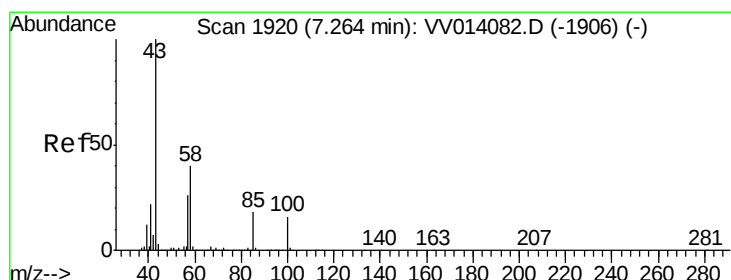
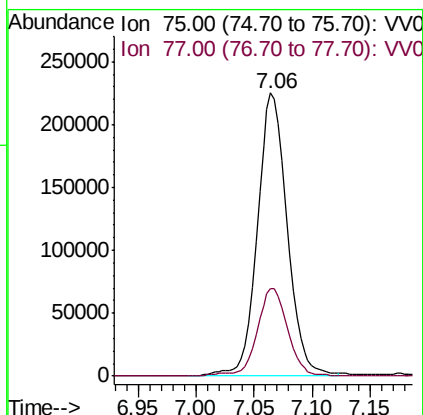
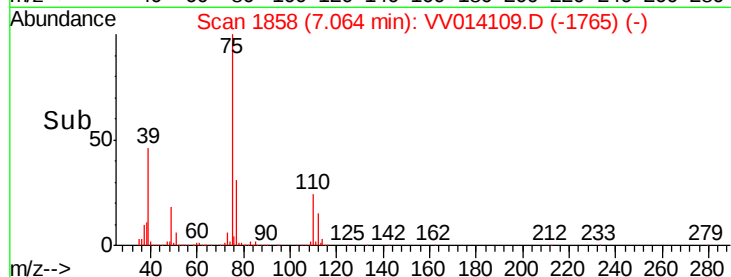
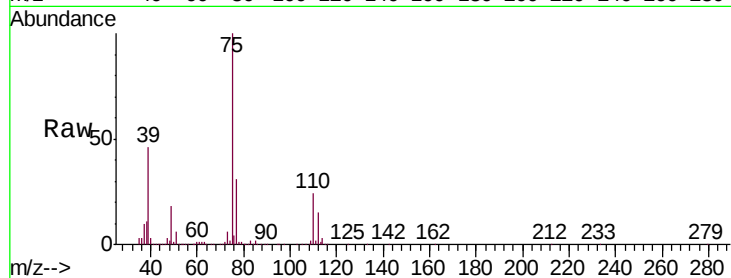


#39

cis-1,3-Dichloropropene
Concen: 49.913 ug/L
RT: 7.06 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

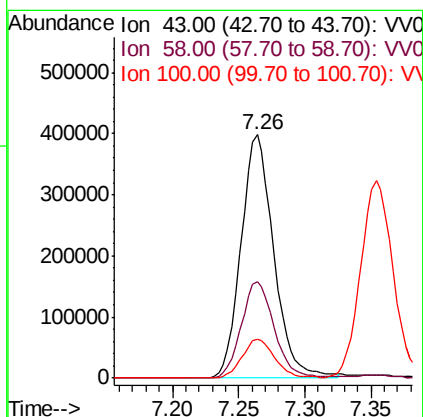
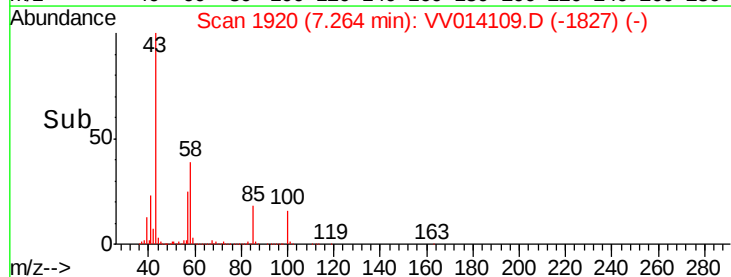
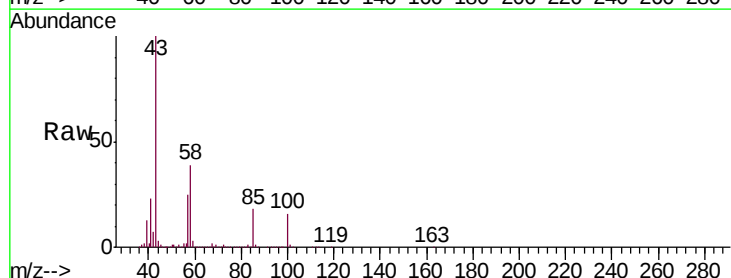
Tgt Ion: 75 Resp: 403401
Ion Ratio Lower Upper
75 100
77 31.0 21.6 40.2

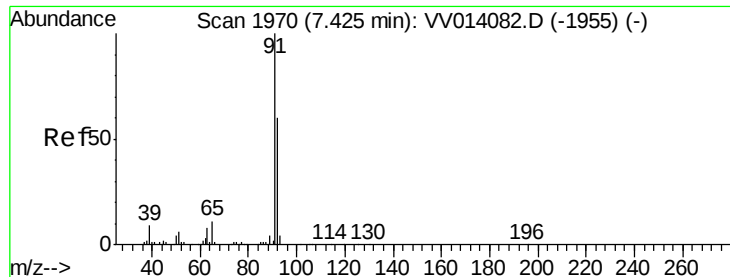


#40

4-Methyl-2-pentanone
Concen: 102.619 ug/L
RT: 7.26 min Scan# 1920
Delta R.T. -0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

Tgt Ion: 43 Resp: 685066
Ion Ratio Lower Upper
43 100
58 39.9 31.9 47.9
100 16.0 13.7 20.5





#42

Toluene

Concen: 49.085 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

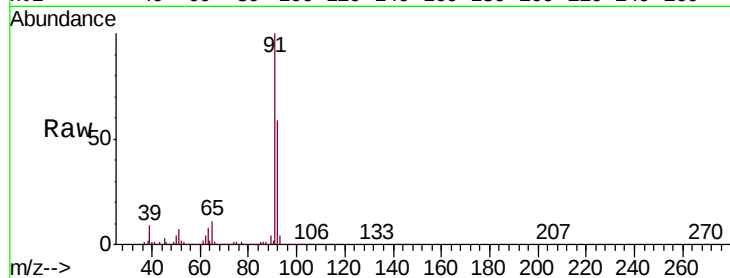
VSTD05086

Tgt Ion: 91 Resp: 1074271

Ion Ratio Lower Upper

91 100

92 59.1 41.4 77.0



Abundance Ion 91.00 (90.70 to 91.70): VV014109.D (-1877) (-)

Ion 92.00 (91.70 to 92.70): VV014109.D (-1877) (-)

7.42

600000

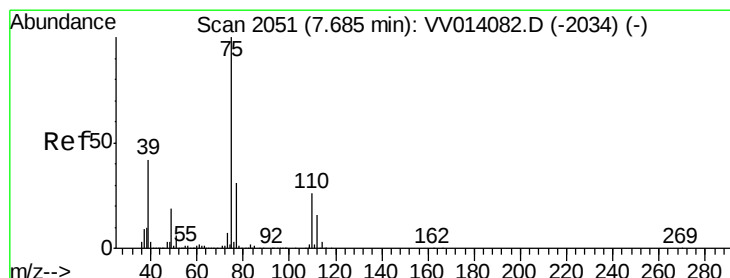
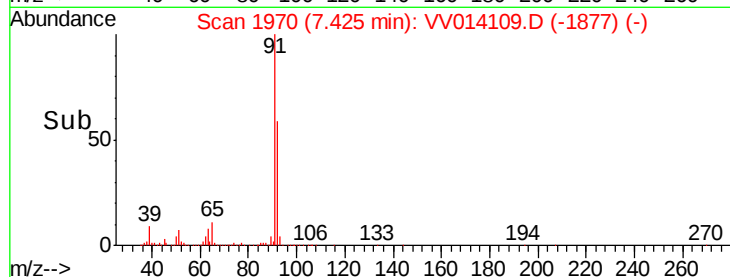
400000

200000

0

7.35 7.40 7.45 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.762 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014109.D

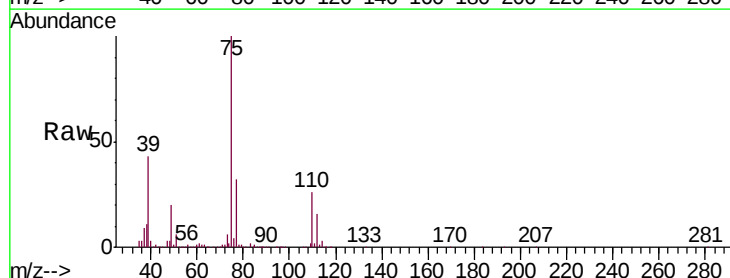
Acq: 18 Dec 2019 09:33

Tgt Ion: 75 Resp: 356876

Ion Ratio Lower Upper

75 100

77 31.7 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VV014109.D (-1958) (-)

Ion 77.00 (76.70 to 77.70): VV014109.D (-1958) (-)

7.69

250000

200000

150000

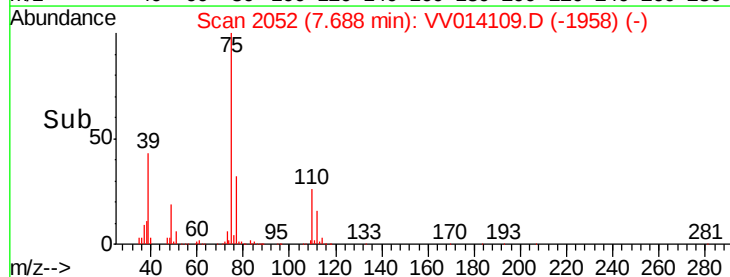
100000

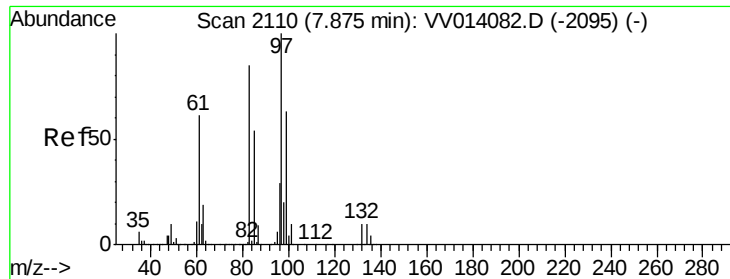
50000

0

7.60 7.70 7.80

Time-->

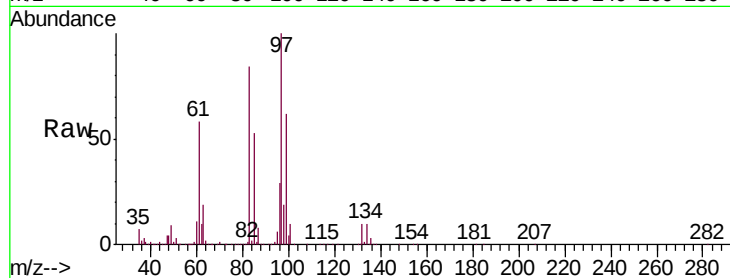




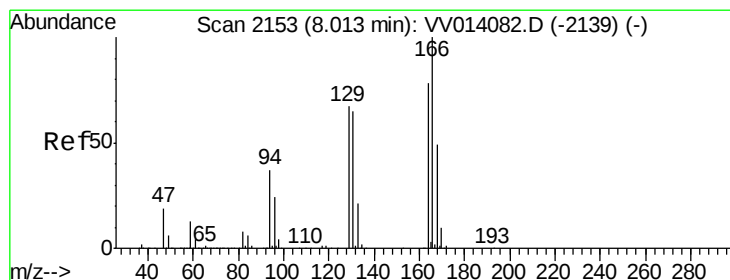
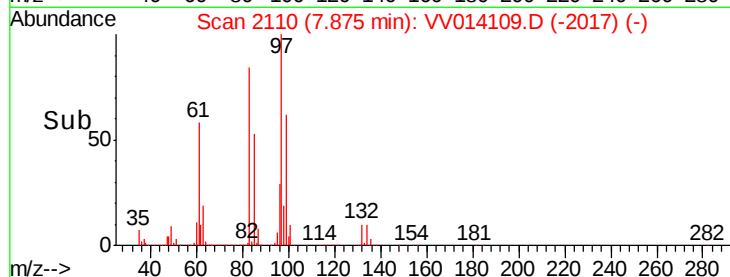
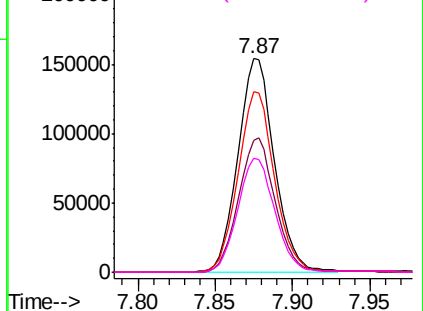
#45
 1,1,2-Trichloroethane
 Concen: 49.589 ug/L
 RT: 7.87 min Scan# 2110
 Delta R.T. -0.00 min
 Lab File: VV014109.D
 Acq: 18 Dec 2019 09:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05086

Tgt Ion:	97	Resp:	252701
Ion	Ratio	Lower	Upper
97	100		
99	61.8	43.0	80.0
83	84.2	57.5	106.9
85	53.4	35.6	66.2

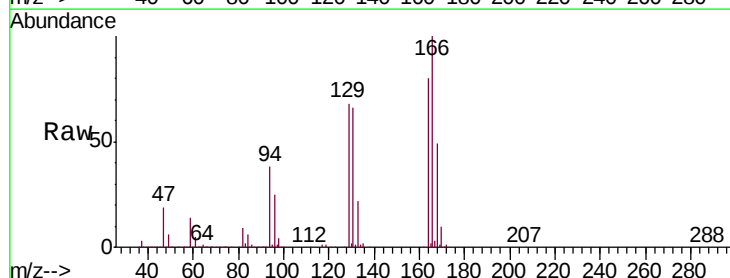


Abundance Ion 97.00 (96.70 to 97.70): VV014109.D (-2017) (-)
 Ion 99.00 (98.70 to 99.70): VV014109.D (-2017) (-)
 Ion 83.00 (82.70 to 83.70): VV014109.D (-2017) (-)
 Ion 85.00 (84.70 to 85.70): VV014109.D (-2017) (-)

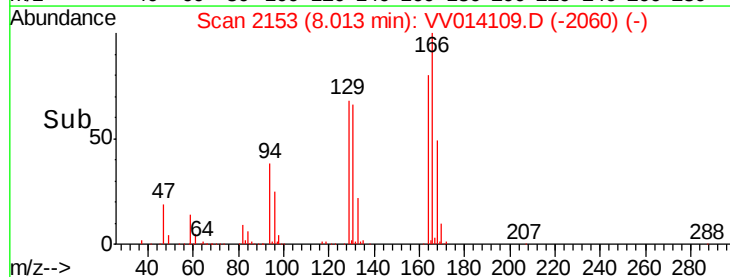
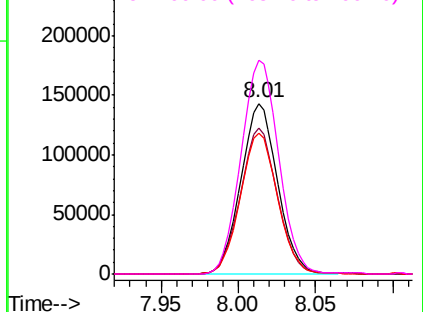


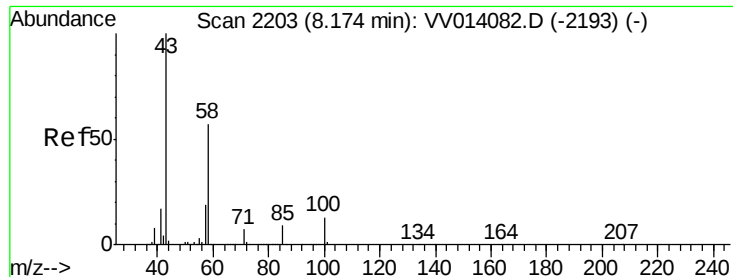
#46
 Tetrachloroethene
 Concen: 46.029 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VV014109.D
 Acq: 18 Dec 2019 09:33

Tgt Ion:	164	Resp:	236302
Ion	Ratio	Lower	Upper
164	100		
129	85.6	61.7	114.7
131	82.5	58.4	108.6
166	125.0	93.4	173.6



Abundance Ion 164.00 (163.70 to 164.70): VV014109.D (-2060) (-)
 Ion 129.00 (128.70 to 129.70): VV014109.D (-2060) (-)
 Ion 131.00 (130.70 to 131.70): VV014109.D (-2060) (-)
 Ion 166.00 (165.70 to 166.70): VV014109.D (-2060) (-)

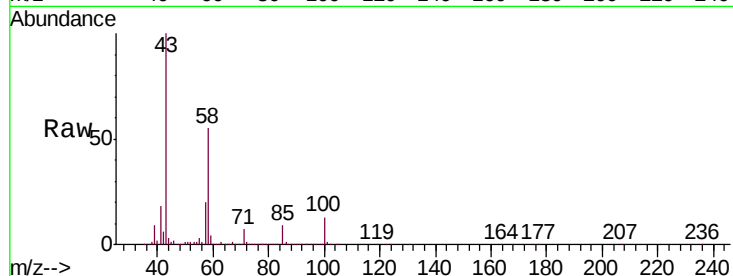




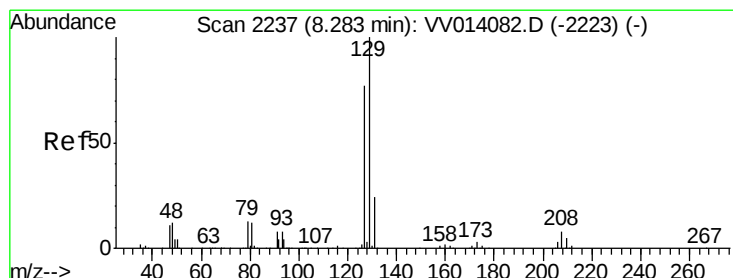
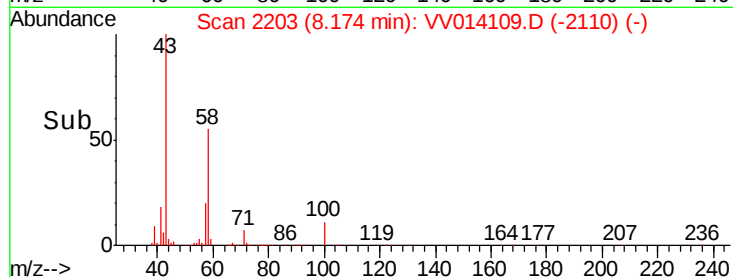
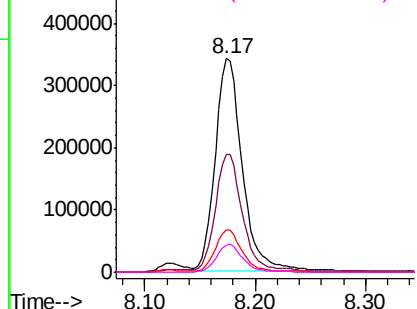
#48
2-Hexanone
Concen: 108.521 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. -0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

Tgt Ion: 43 Resp: 579536
Ion Ratio Lower Upper
43 100
58 54.8 48.4 72.6
57 18.7 16.6 24.8
100 13.2 11.9 17.9

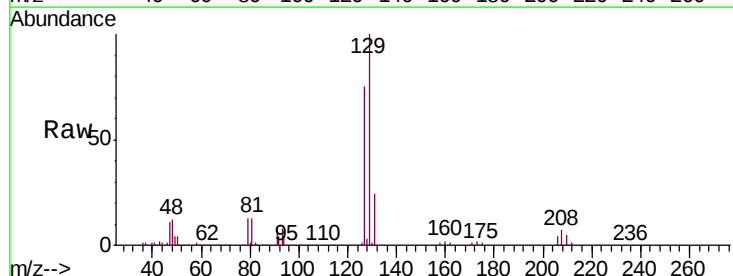


Abundance Ion 43.00 (42.70 to 43.70): VV014109.D (-2110) (-)
Ion 58.00 (57.70 to 58.70): VV014109.D (-2110) (-)
Ion 57.00 (56.70 to 57.70): VV014109.D (-2110) (-)
Ion 100.00 (99.70 to 100.70): VV014109.D (-2110) (-)

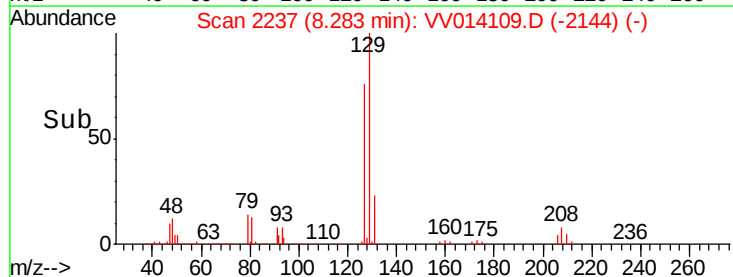
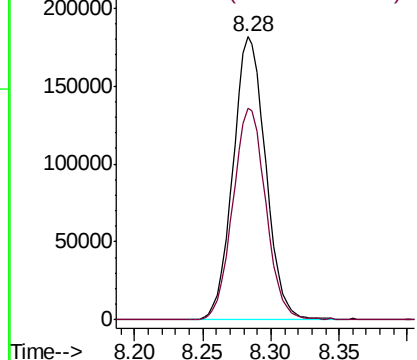


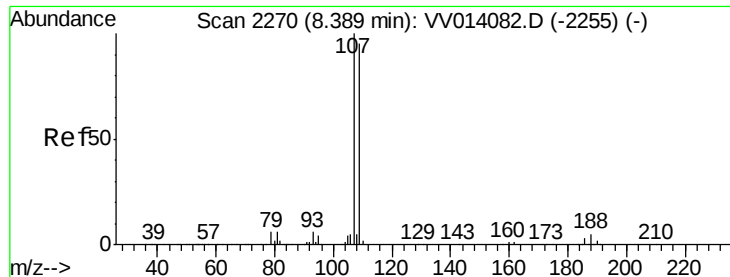
#49
Dibromochloromethane
Concen: 48.453 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

Tgt Ion: 129 Resp: 301828
Ion Ratio Lower Upper
129 100
127 74.7 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): VV014109.D (-2144) (-)
Ion 127.00 (126.70 to 127.70): VV014109.D (-2144) (-)





#50

1,2-Dibromoethane

Concen: 46.884 ug/L

RT: 8.39 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

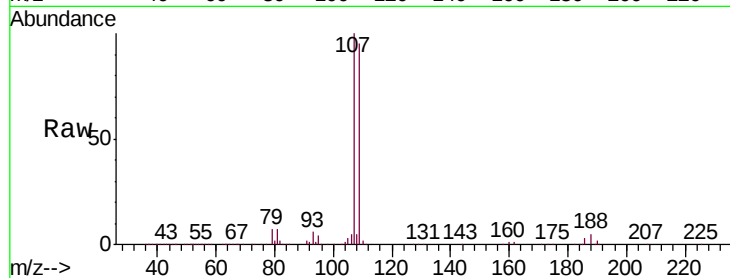
Tgt Ion:107 Resp: 263190

Ion Ratio Lower Upper

107 100

109 95.4 65.9 122.5

188 4.9 3.6 5.4

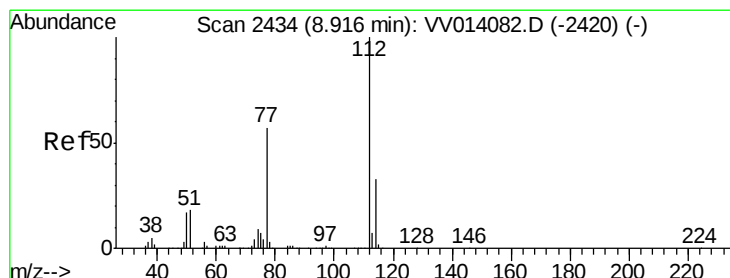
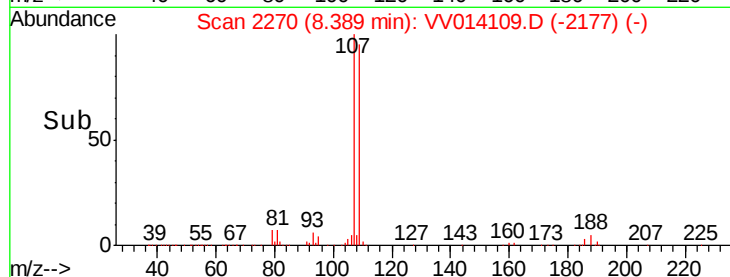
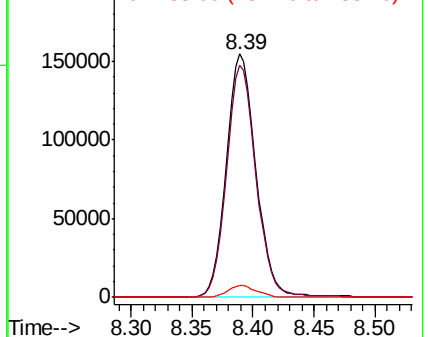


Abundance

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



#51

Chlorobenzene

Concen: 46.553 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

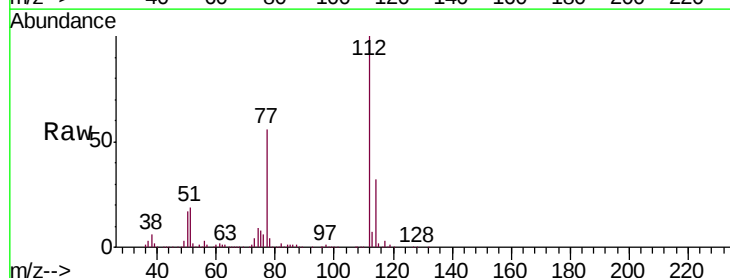
Tgt Ion:112 Resp: 702921

Ion Ratio Lower Upper

112 100

114 32.3 23.2 43.2

77 55.7 45.0 67.4

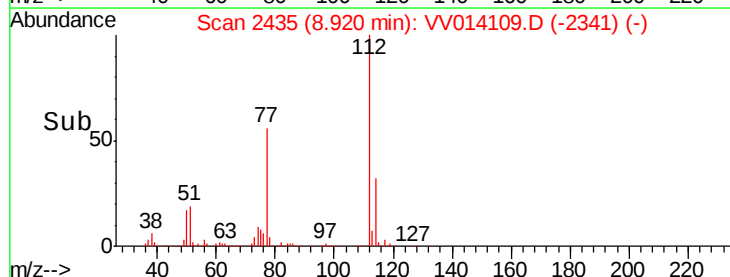
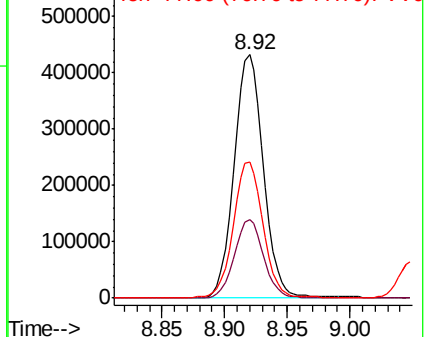


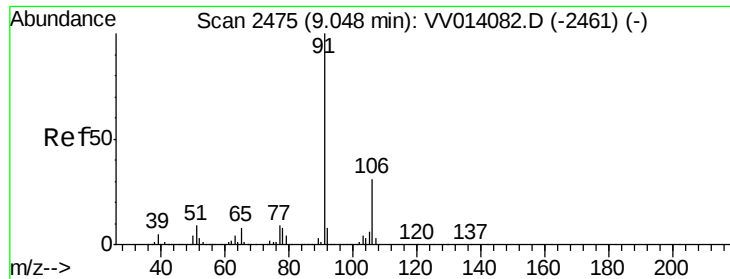
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 47.986 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

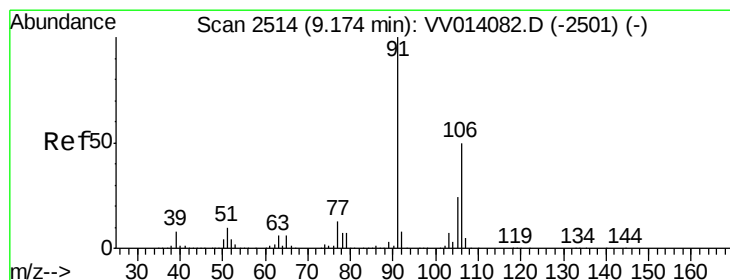
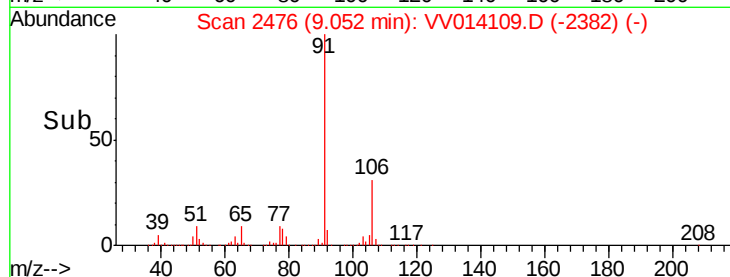
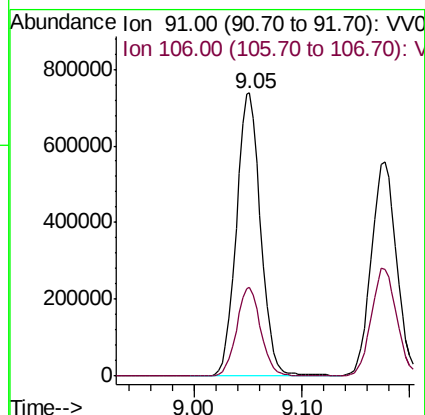
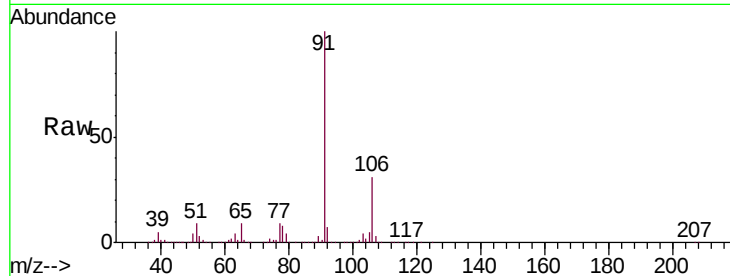
VSTD05086

Tgt Ion: 91 Resp: 1157766

Ion Ratio Lower Upper

91 100

106 31.2 21.8 40.4



#53

m,p-Xylene

Concen: 48.627 ug/L

RT: 9.17 min Scan# 2514

Delta R.T. -0.00 min

Lab File: VV014109.D

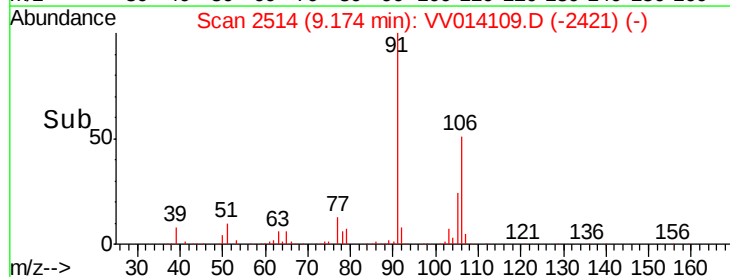
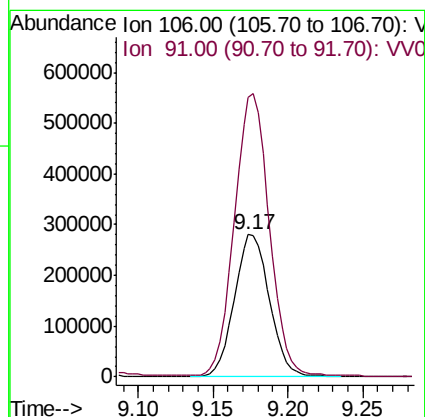
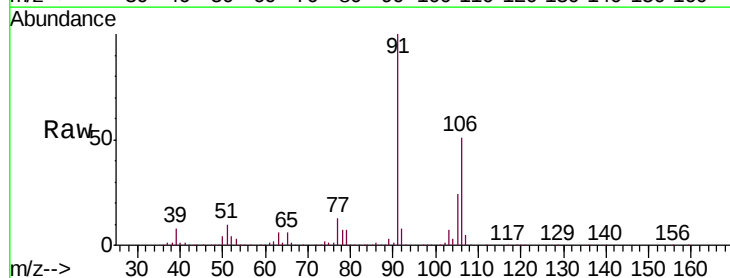
Acq: 18 Dec 2019 09:33

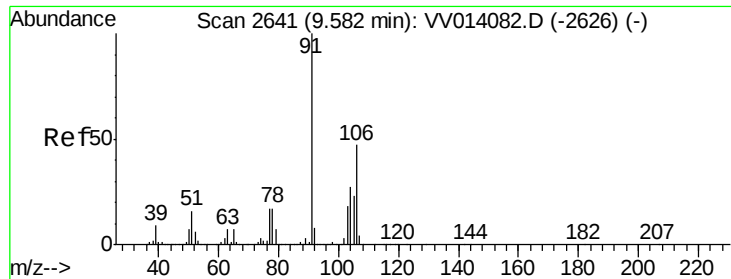
Tgt Ion: 106 Resp: 453693

Ion Ratio Lower Upper

106 100

91 196.6 139.4 259.0





#54

o-xylene

Concen: 47.652 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

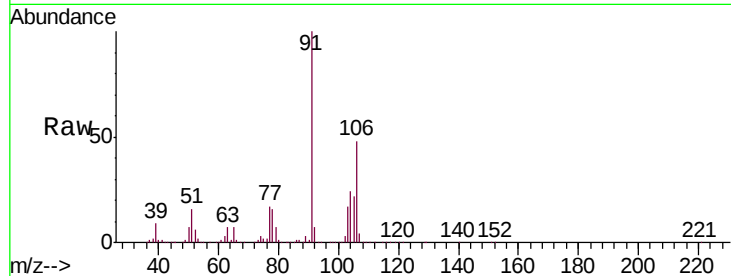
VSTD05086

Tgt Ion:106 Resp: 434707

Ion Ratio Lower Upper

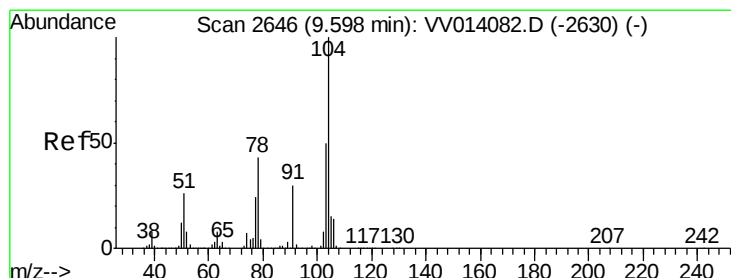
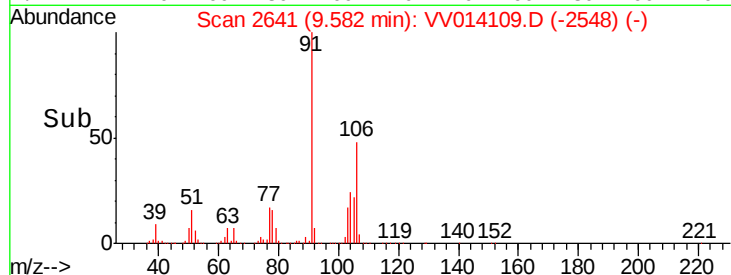
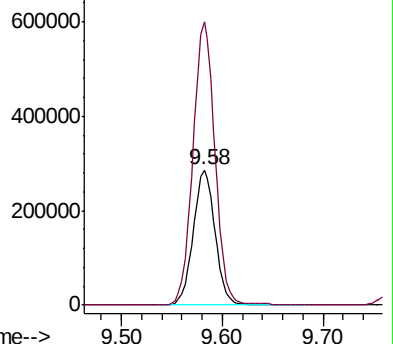
106 100

91 209.4 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 49.079 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV014109.D

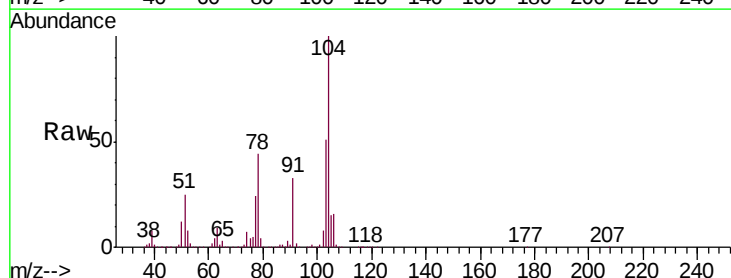
Acq: 18 Dec 2019 09:33

Tgt Ion:104 Resp: 772456

Ion Ratio Lower Upper

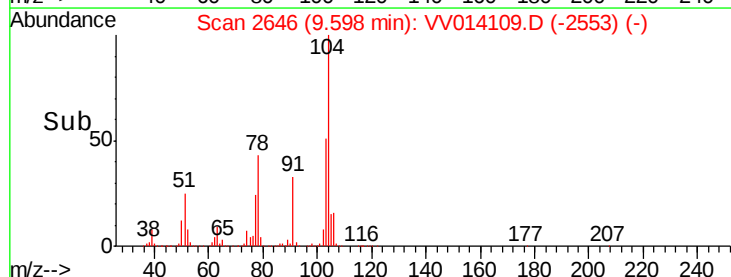
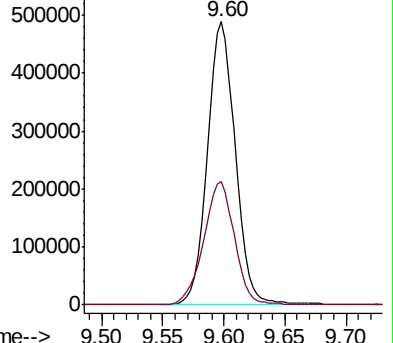
104 100

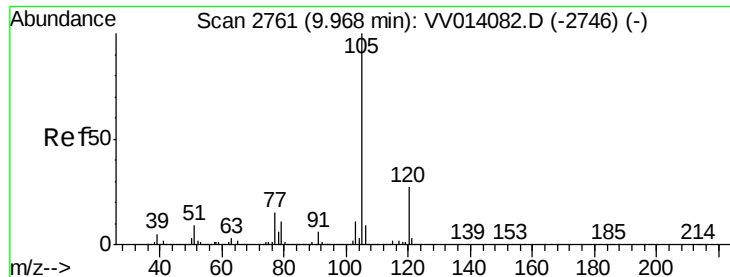
78 43.5 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 46.678 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

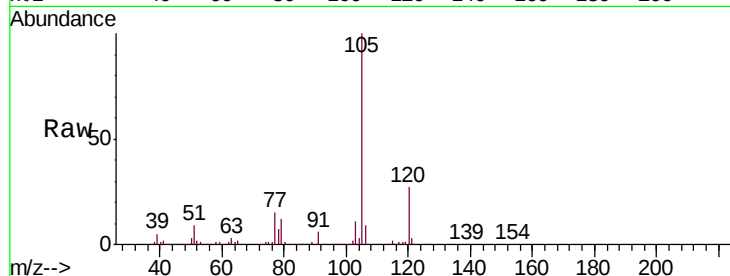
Tgt Ion:105 Resp: 1144580

Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.2

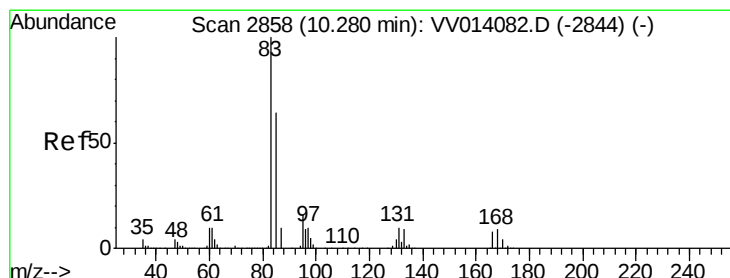
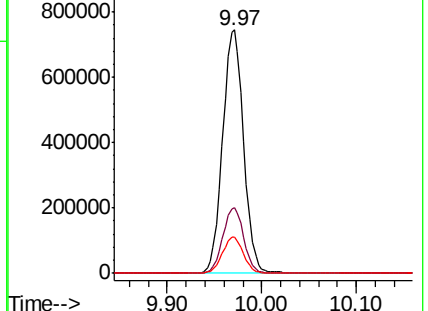
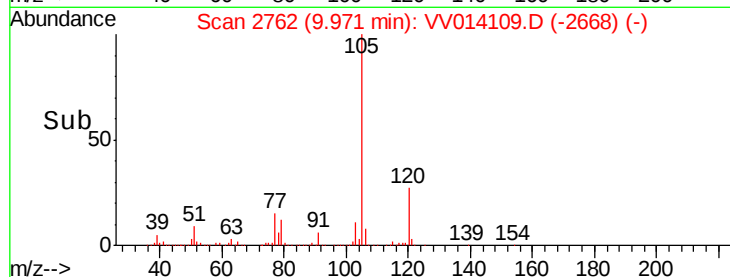
77 14.9 12.0 18.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.849 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

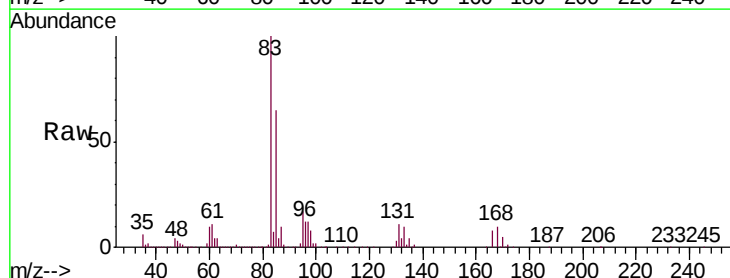
Tgt Ion: 83 Resp: 405247

Ion Ratio Lower Upper

83 100

85 65.1 44.1 81.9

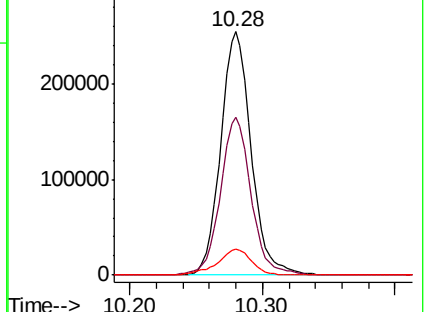
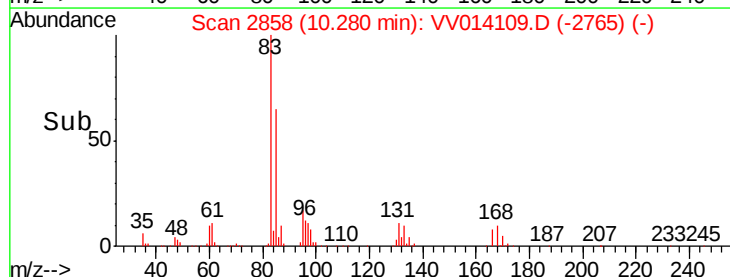
131 10.7 8.8 13.2

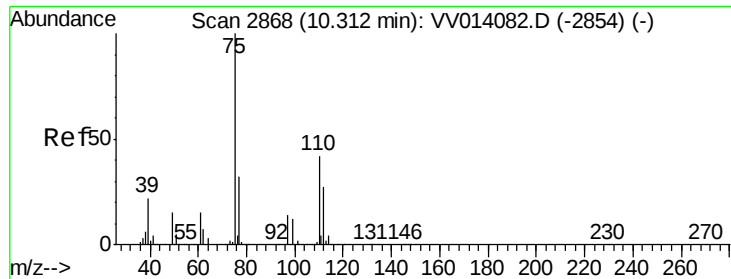


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.536 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

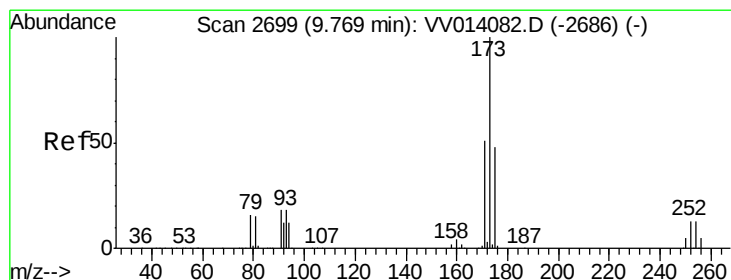
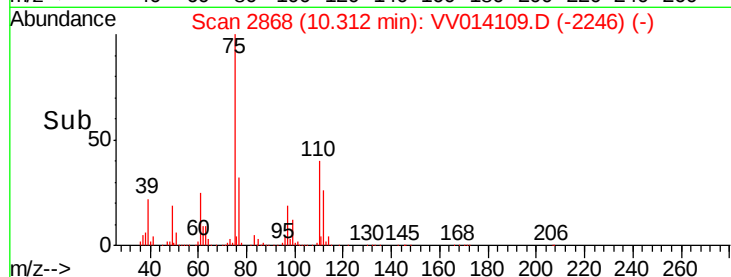
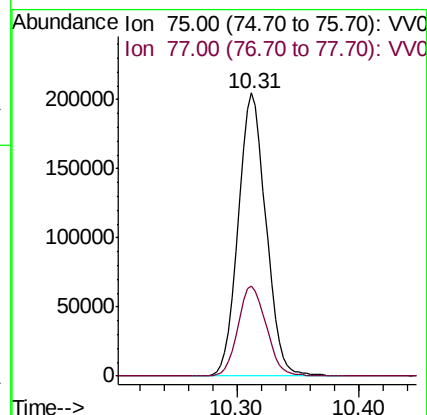
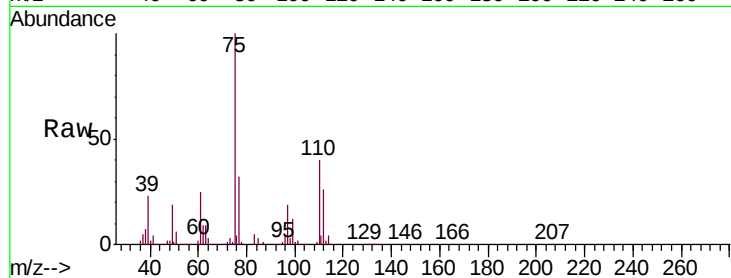
VSTD05086

Tgt Ion: 75 Resp: 323302

Ion Ratio Lower Upper

75 100

77 32.3 25.8 38.8



#61

Bromoform

Concen: 48.280 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

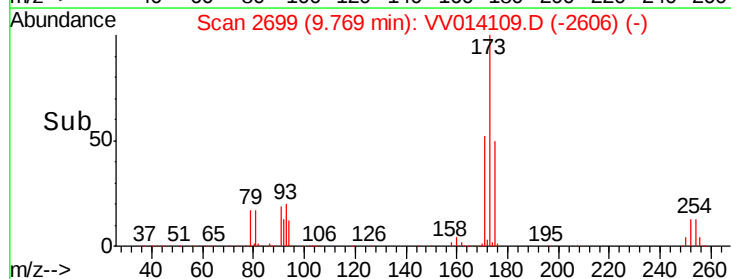
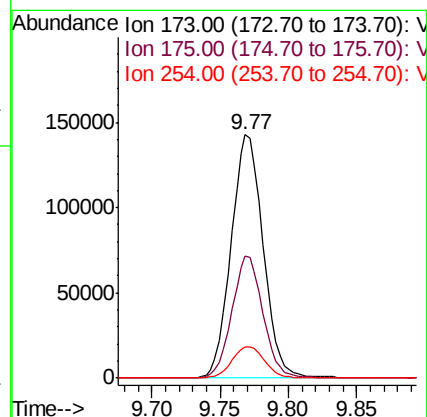
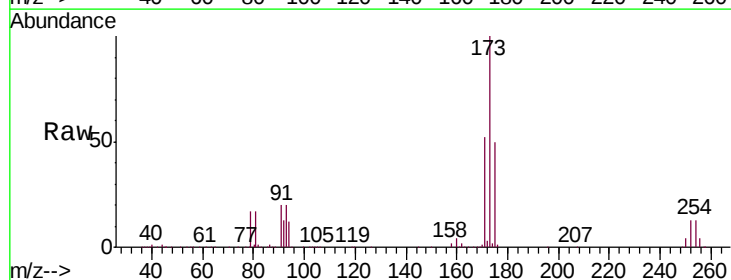
Tgt Ion: 173 Resp: 233032

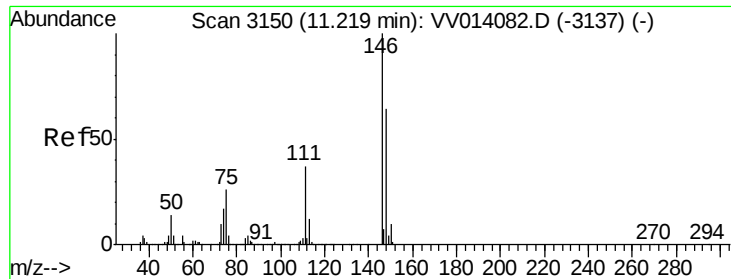
Ion Ratio Lower Upper

173 100

175 48.8 38.4 57.6

254 13.2 10.5 15.7

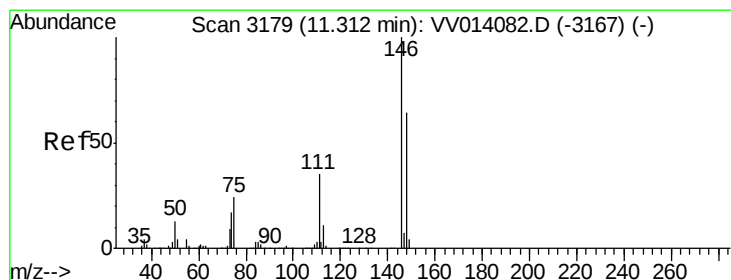
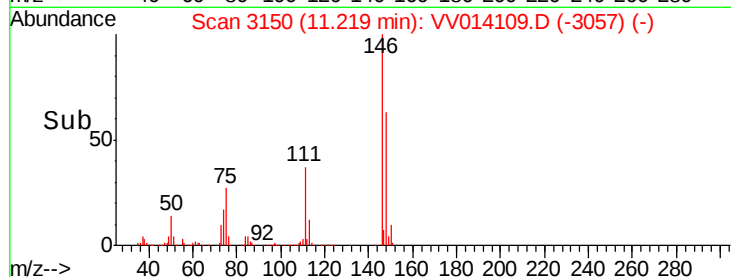
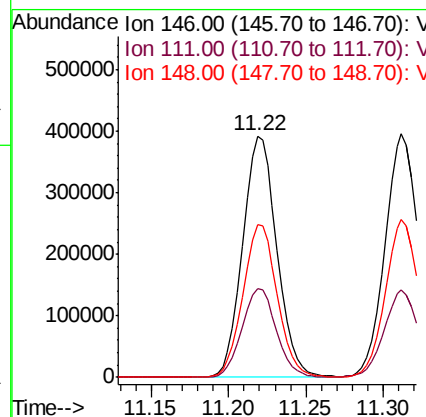
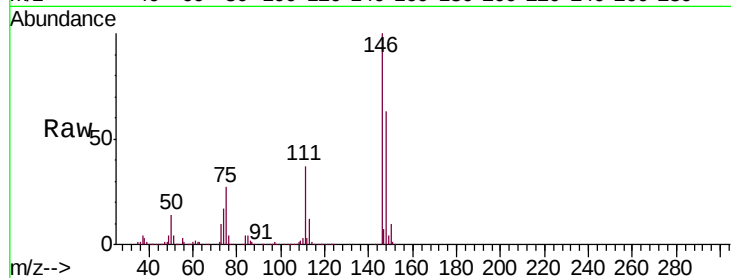




#62
1,3-Dichlorobenzene
Concen: 46.486 ug/L
RT: 11.22 min Scan# 3150
Delta R.T. -0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

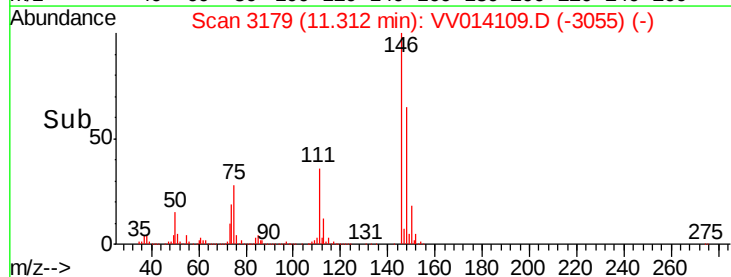
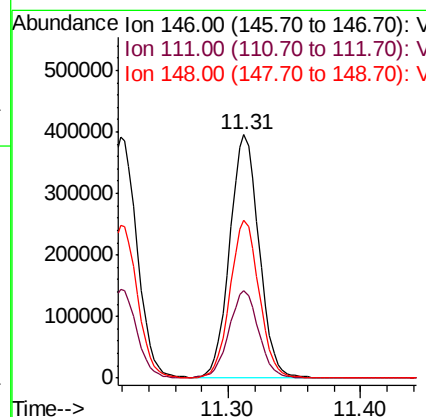
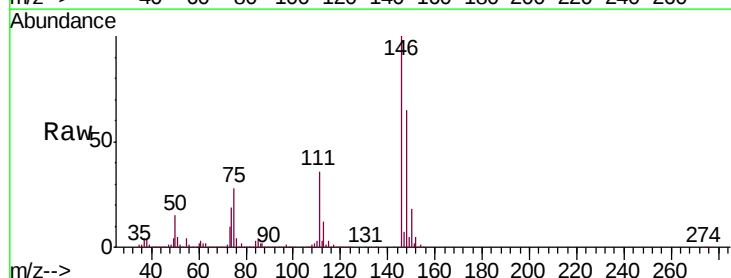
Instrument :
MSVOA_V
ClientSampleId :
VSTD05086

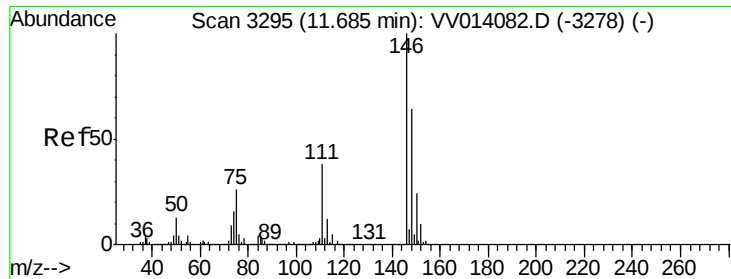
Tgt Ion:146 Resp: 601834
Ion Ratio Lower Upper
146 100
111 36.9 25.8 48.0
148 63.2 45.2 84.0



#63
1,4-Dichlorobenzene
Concen: 45.273 ug/L
RT: 11.31 min Scan# 3179
Delta R.T. -0.00 min
Lab File: VV014109.D
Acq: 18 Dec 2019 09:33

Tgt Ion:146 Resp: 605956
Ion Ratio Lower Upper
146 100
111 36.1 25.4 47.2
148 65.0 44.9 83.5

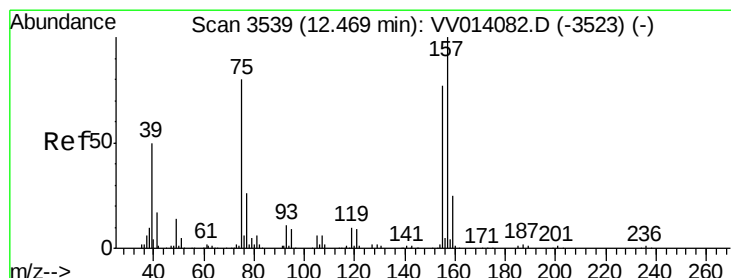
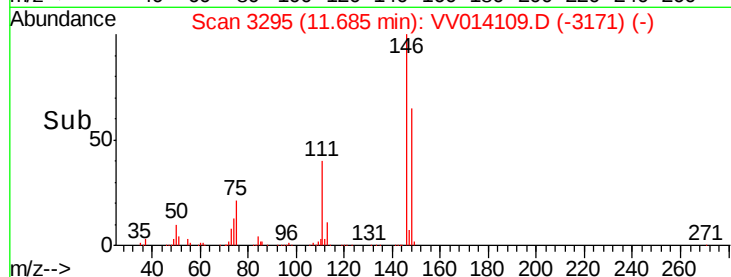
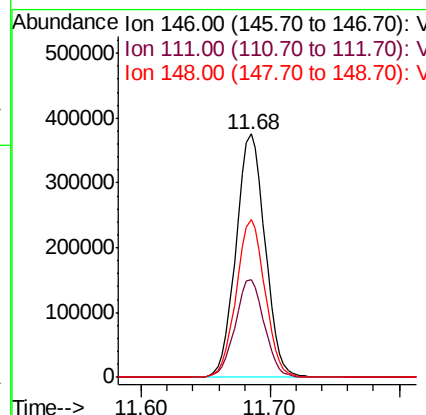
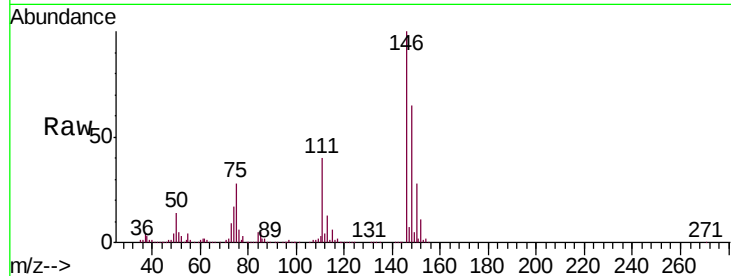




#65
 1,2-Dichlorobenzene
 Concen: 45.265 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV014109.D
 Acq: 18 Dec 2019 09:33

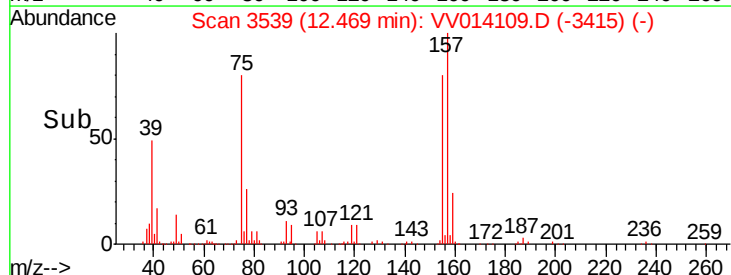
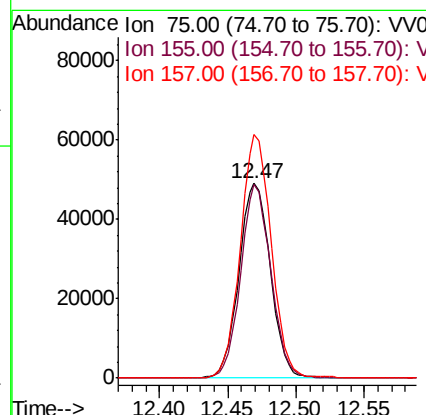
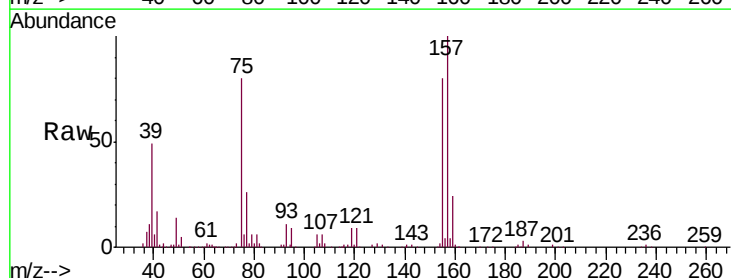
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05086

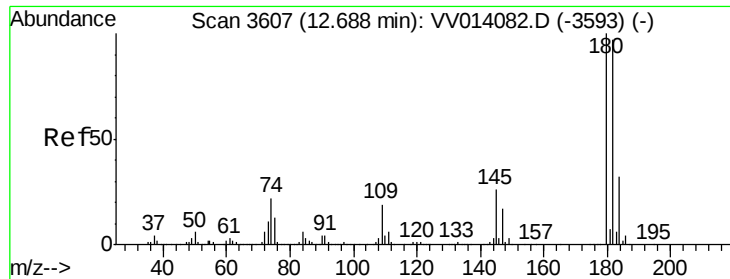
Tgt Ion: 146 Resp: 586201
 Ion Ratio Lower Upper
 146 100
 111 40.2 31.4 47.0
 148 64.7 51.5 77.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 43.807 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. -0.00 min
 Lab File: VV014109.D
 Acq: 18 Dec 2019 09:33

Tgt Ion: 75 Resp: 78844
 Ion Ratio Lower Upper
 75 100
 155 99.8 78.6 117.8
 157 125.2 102.6 153.8

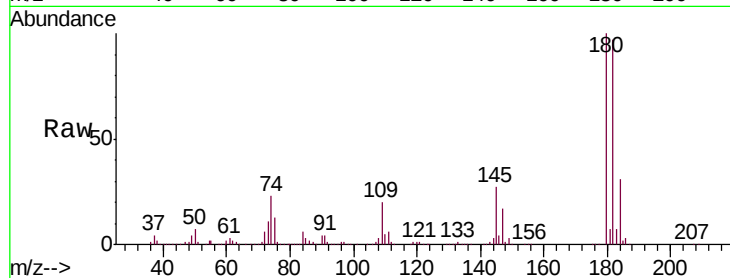




#67
 1,3,5-Trichlorobenzene
 Concen: 45.065 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV014109.D
 Acq: 18 Dec 2019 09:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05086

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.2	114.4
184	31.0	24.2	36.4
145	26.7	21.1	31.7



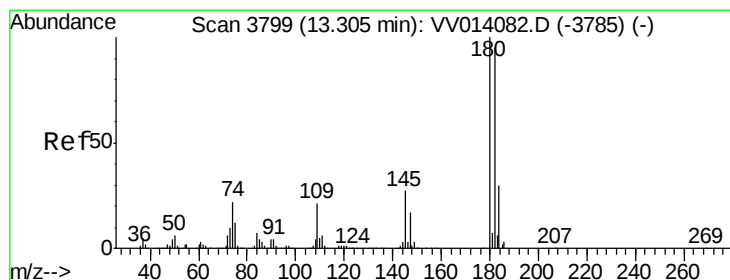
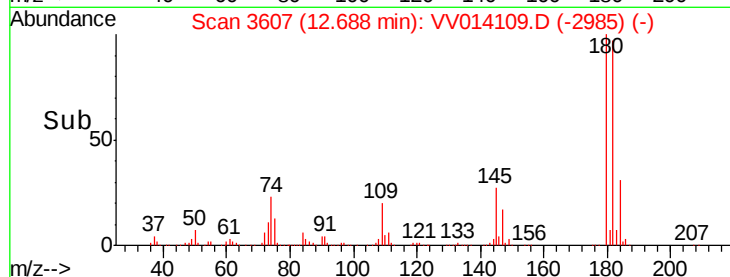
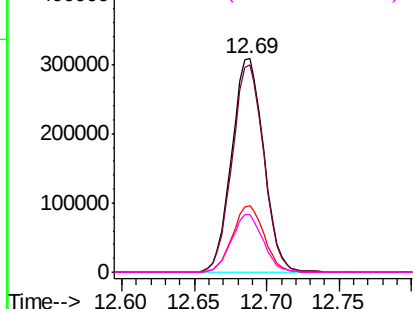
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

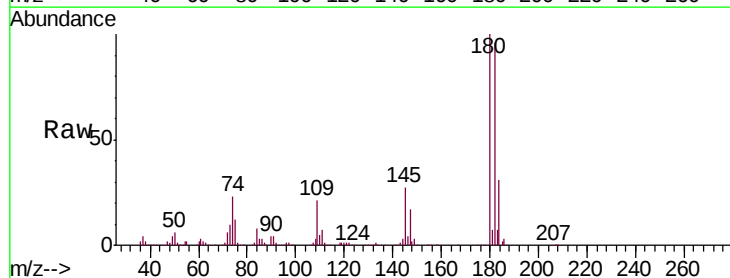
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 42.234 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV014109.D
 Acq: 18 Dec 2019 09:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.4
145	27.1	21.9	32.9

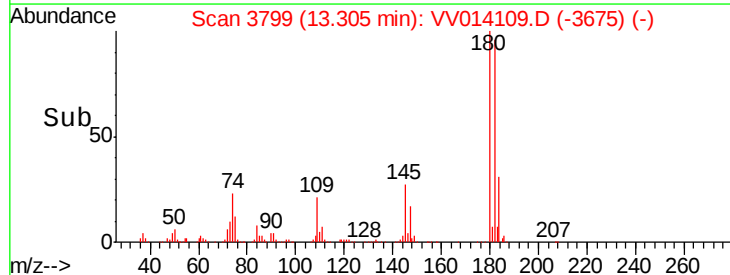
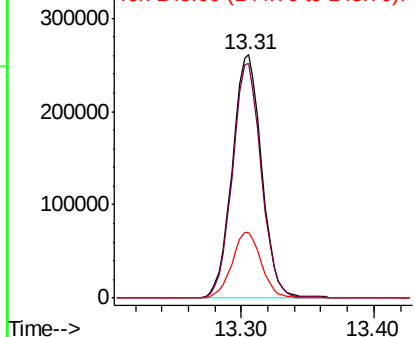


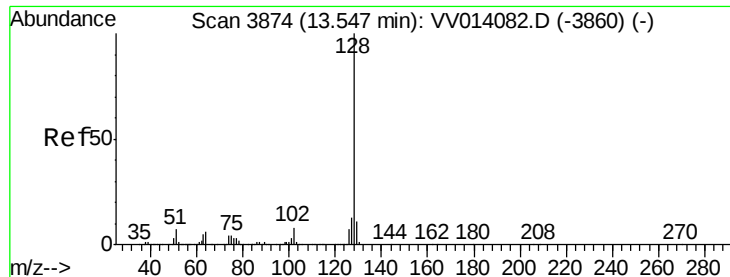
Abundance

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: 40.347 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD05086

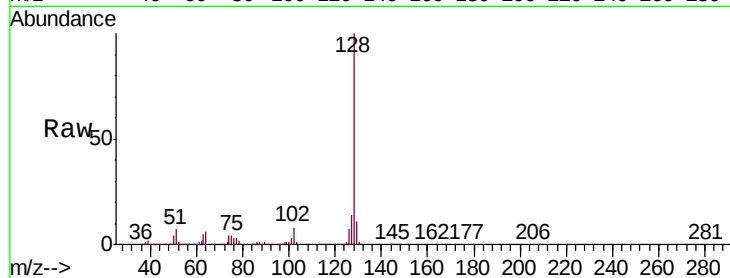
Tgt Ion:128 Resp: 1004999

Ion Ratio Lower Upper

128 100

127 13.6 10.5 15.7

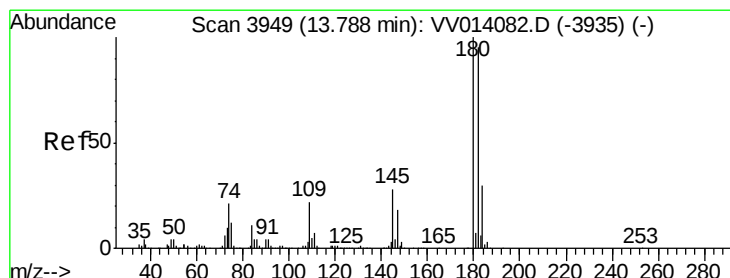
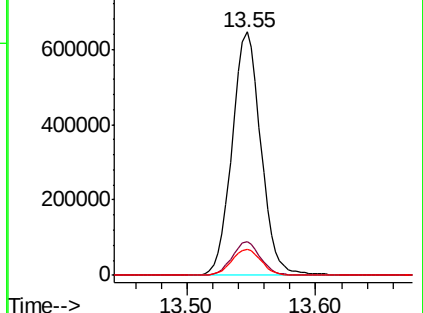
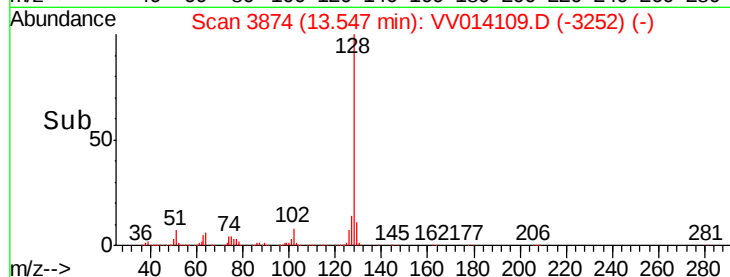
129 11.0 8.6 12.8



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: 45.584 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV014109.D

Acq: 18 Dec 2019 09:33

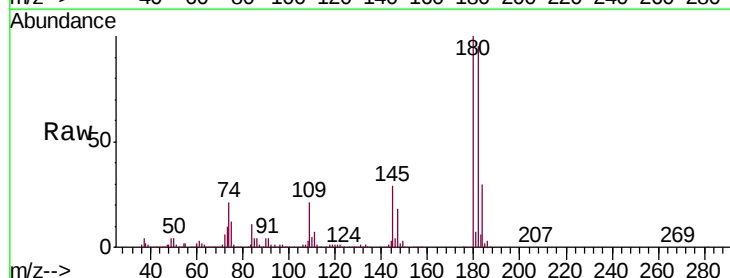
Tgt Ion:180 Resp: 452229

Ion Ratio Lower Upper

180 100

182 95.1 77.0 115.4

145 29.0 22.6 34.0



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

