

Data File : VV009210.D
Acq On : 09 Jan 2019 13:44
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00 G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VHBLK01

Quant Time: Jan 10 05:45:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010819S.M
Quant Title : VOC Analysis
QLast Update : Thu Jan 10 05:42:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	242685	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	228709	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	117486	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	58378	26.27	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.08%
7) Chloroethane-d5	1.58	69	41442	21.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.96%
10) 1,1-Dichloroethene-d2	2.13	63	161055	26.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	106.12%
20) 2-Butanone-d5	3.96	46	44949	46.68	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.36%
24) Chloroform-d	4.40	84	151075	26.75	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	107.00%
26) 1,2-Dichloroethane-d4	5.08	65	81871	26.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.60%
29) Benzene-d6	5.10	84	297591	25.95	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.80%
33) 1,2-Dichloropropane-d6	6.12	67	85000	25.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.56%
37) Toluene-d8	7.36	98	277750	25.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.40%
38) trans-1,3-Dichloropropene-	7.67	79	42279	26.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.80%
39) 2-Hexanone-d5	8.14	63	29686	49.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.00%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	85152	26.66	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.64%
61) 1,2-Dichlorobenzene-d4	11.67	152	108990	24.68	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	97669	24.843	ug/L 100
3) Chloromethane	1.25	50	68567	26.517	ug/L 100
5) Vinyl chloride	1.32	62	70357	26.371	ug/L 97
6) Bromomethane	1.54	94	46319	23.712	ug/L 97
8) Chloroethane	1.60	64	37925	22.181	ug/L 100
9) Trichlorofluoromethane	1.77	101	123877	24.789	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	80352	25.122	ug/L 98
12) 1,1-Dichloroethene	2.14	96	72208	25.845	ug/L 88
13) Acetone	2.22	43	56535	39.341	ug/L 90
14) Carbon disulfide	2.32	76	237562	25.229	ug/L 99
15) Methyl Acetate	2.47	43	43886	25.232	ug/L 95
16) Methylene chloride	2.53	84	86103	24.545	ug/L 87
17) Methyl tert-butyl Ether	2.81	73	200235	27.129	ug/L 100
18) trans-1,2-Dichloroethene	2.79	96	80633	25.380	ug/L 95
19) 1,1-Dichloroethane	3.23	63	135641	26.526	ug/L 97
21) 2-Butanone	4.04	43	64613	46.151	ug/L 100
22) cis-1,2-Dichloroethene	3.96	96	88832	26.520	ug/L 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	44422	27.866	ug/L	97
25) Chloroform	4.43	83	145098	26.472	ug/L	99
27) 1,2-Dichloroethane	5.18	62	101359	27.227	ug/L	98
30) Cyclohexane	4.73	56	124458	25.186	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	128663	24.604	ug/L	98
32) Carbon tetrachloride	4.88	117	118912	24.826	ug/L	100
34) Benzene	5.15	78	311332	25.855	ug/L	100
35) Trichloroethene	5.96	95	86702	25.226	ug/L	99
36) Methylcyclohexane	6.18	83	141974	24.465	ug/L	99
40) 1,2-Dichloropropane	6.22	63	76400	26.052	ug/L	99
41) Bromodichloromethane	6.56	83	107813	26.733	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	123282	26.757	ug/L	98
43) 4-Methyl-2-pentanone	7.28	43	120541	52.289	ug/L	98
44) Toluene	7.43	91	334612	25.877	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	109124	26.900	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	67996	26.597	ug/L	98
47) Tetrachloroethene	8.02	164	73151	24.677	ug/L	99
49) 2-Hexanone	8.19	43	93145	51.025	ug/L	95
50) Dibromochloromethane	8.29	129	83527	26.790	ug/L	98
51) 1,2-Dibromoethane	8.40	107	68359	26.195	ug/L	96
52) Chlorobenzene	8.93	112	226318	25.456	ug/L	100
53) Ethylbenzene	9.06	91	372965	25.529	ug/L	99
54) m,p-Xylene	9.18	106	143676	25.456	ug/L	100
55) o-xylene	9.59	106	138834	25.859	ug/L	99
56) Styrene	9.60	104	238597	26.714	ug/L	100
57) Isopropylbenzene	9.98	105	366926	25.158	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	84425	26.449	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	64480	25.623	ug/L	99
62) Bromoform	9.78	173	51241	25.757	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	182207	24.799	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	185899	24.829	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	175892	25.356	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.48	75	15371	24.712	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	142490	24.359	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	119035	25.123	ug/L	100
69) Naphthalene	13.55	128	227875	24.980	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	109180	25.239	ug/L	99

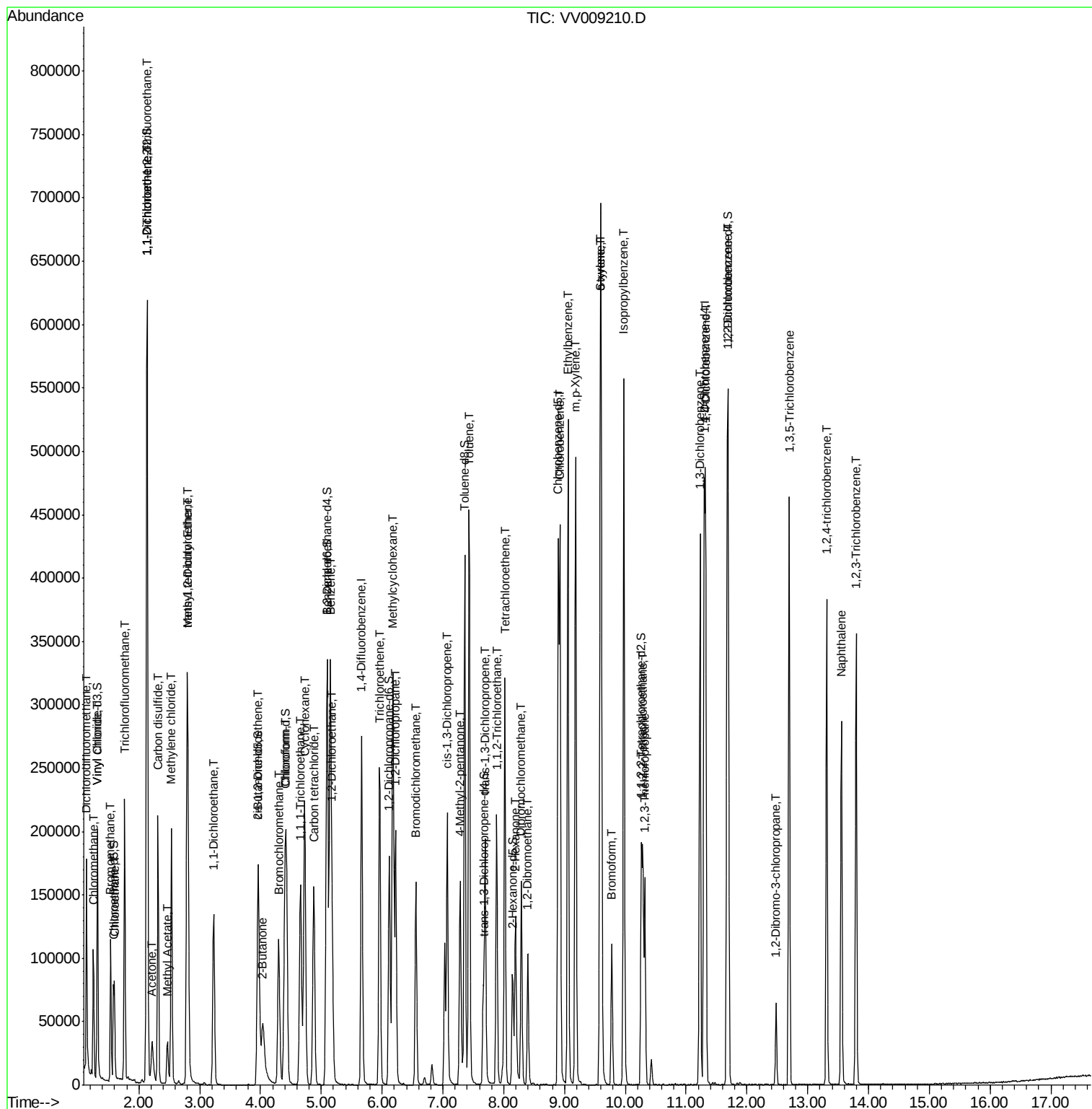
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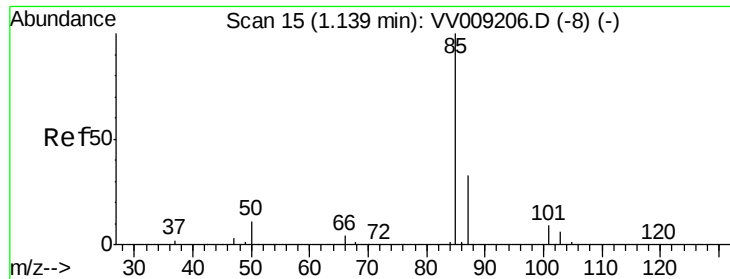
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#2

Dichlorodifluoromethane

Concen: 24.843 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

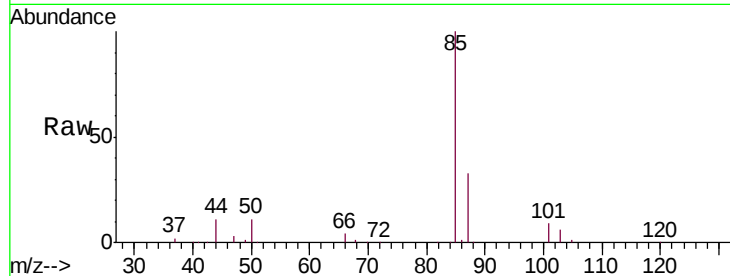
VHBLK01

Tgt Ion: 85 Resp: 97669

Ion Ratio Lower Upper

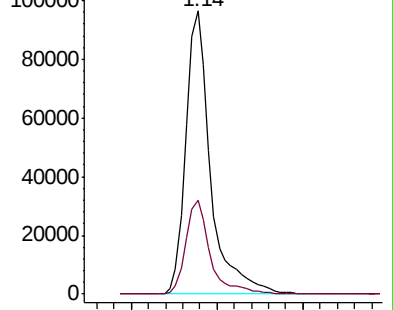
85 100

87 32.7 23.0 42.6

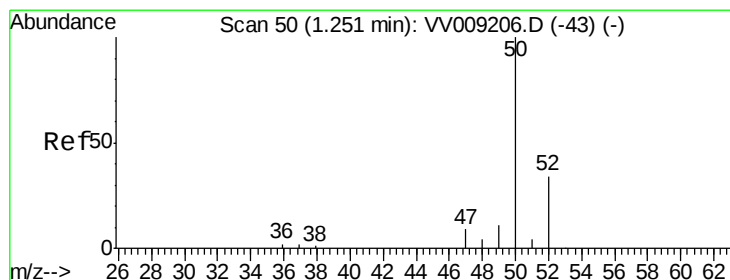
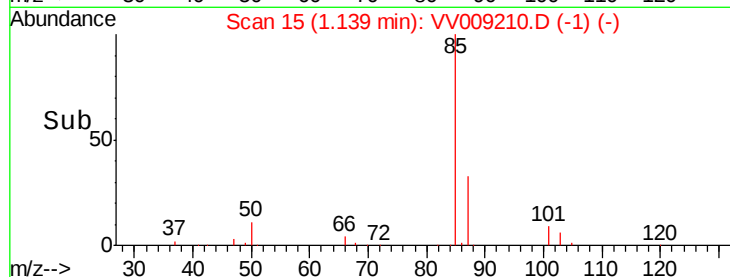


Abundance Ion 85.00 (84.70 to 85.70): VV009210.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV009210.D (-1) (-)



Time-->



#3

Chloromethane

Concen: 26.517 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009210.D

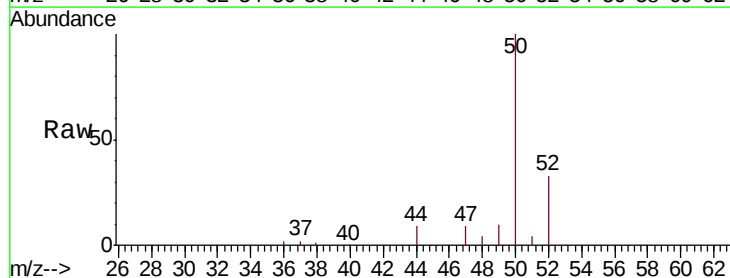
Acq: 09 Jan 2019 13:44

Tgt Ion: 50 Resp: 68567

Ion Ratio Lower Upper

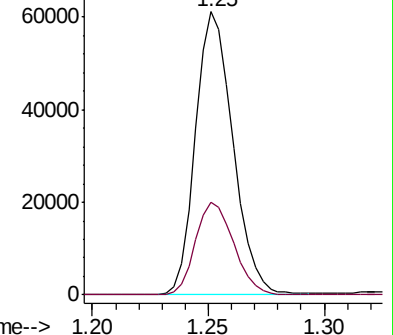
50 100

52 32.7 22.7 42.3

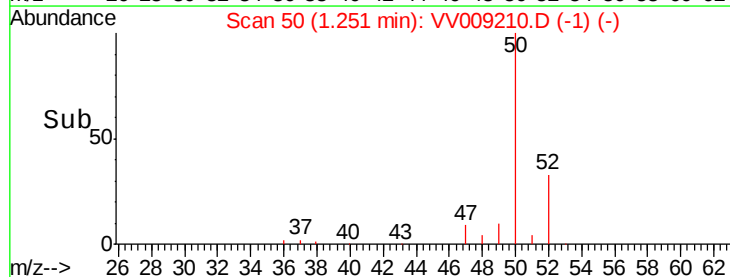


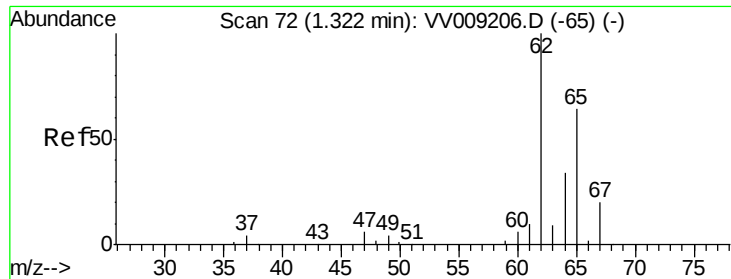
Abundance Ion 50.00 (49.70 to 50.70): VV009210.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV009210.D (-1) (-)



Time-->





#5

Vinyl chloride

Concen: 26.371 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

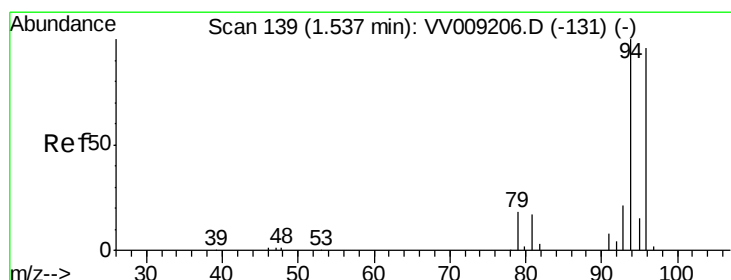
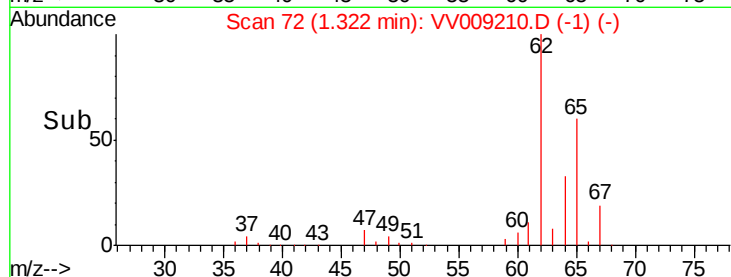
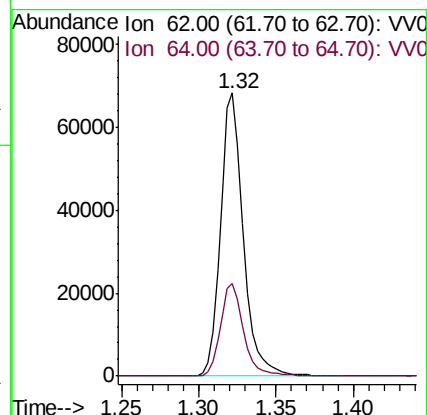
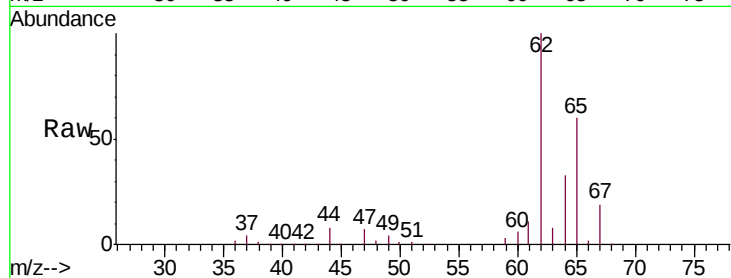
VHBLK01

Tgt Ion: 62 Resp: 70357

Ion Ratio Lower Upper

62 100

64 32.8 24.1 44.7



#6

Bromomethane

Concen: 23.712 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV009210.D

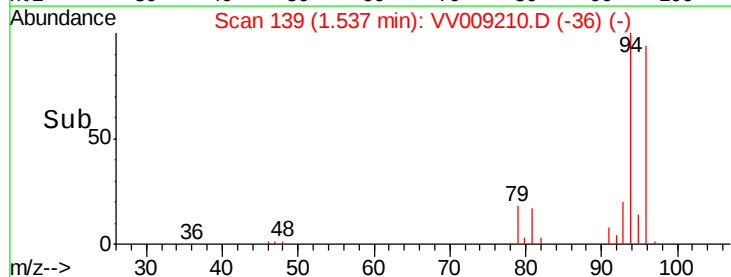
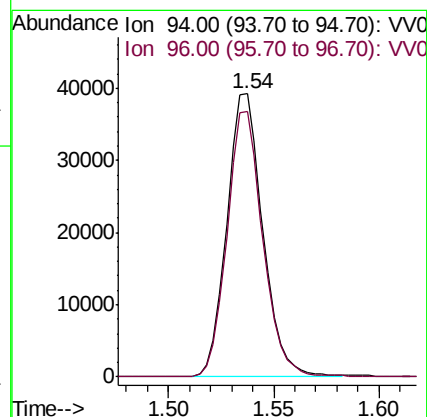
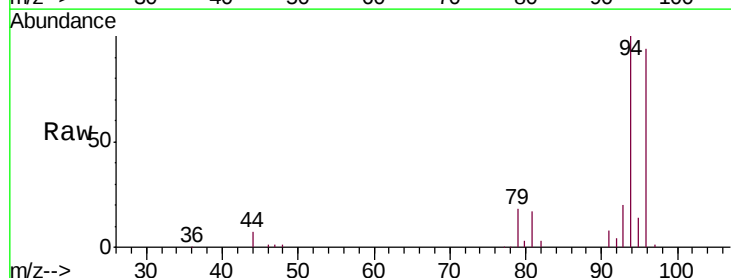
Acq: 09 Jan 2019 13:44

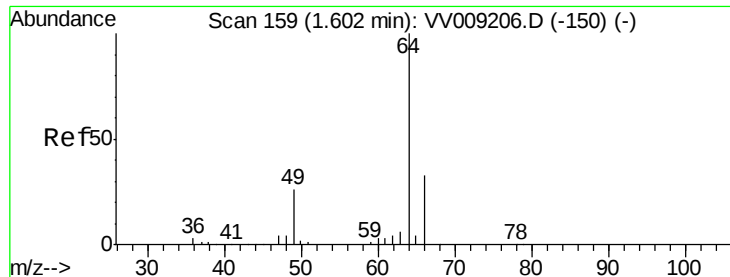
Tgt Ion: 94 Resp: 46319

Ion Ratio Lower Upper

94 100

96 93.3 9.6 183.3





#8

Chloroethane

Concen: 22.181 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

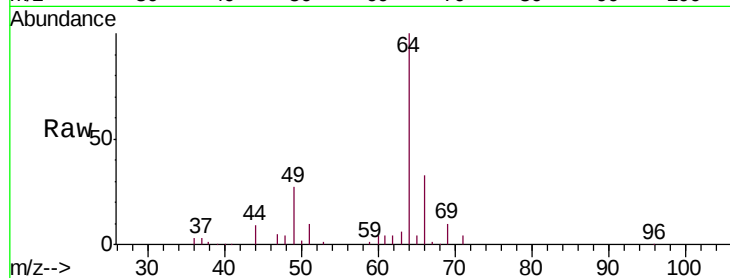
VHBLK01

Tgt Ion: 64 Resp: 37925

Ion Ratio Lower Upper

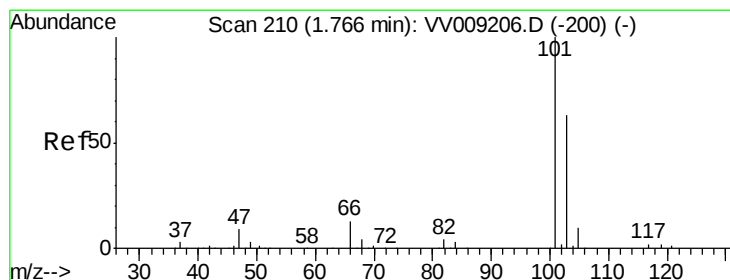
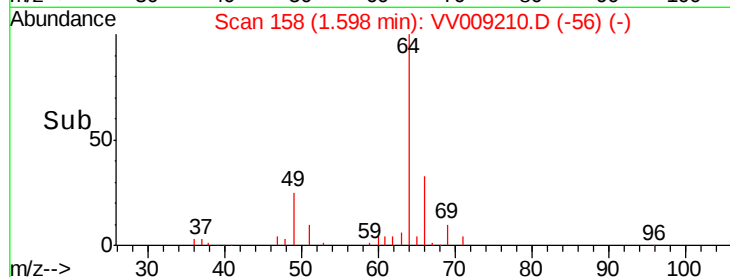
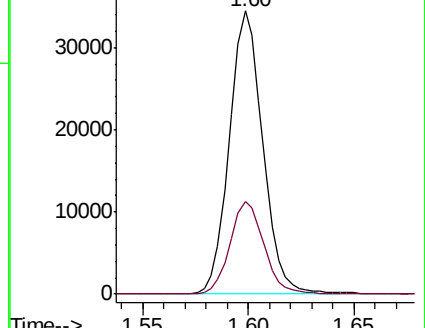
64 100

66 32.6 22.7 42.3



Abundance Ion 64.00 (63.70 to 64.70): VV009210.D (-150) (-)

Ion 66.00 (65.70 to 66.70): VV009210.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 24.789 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV009210.D

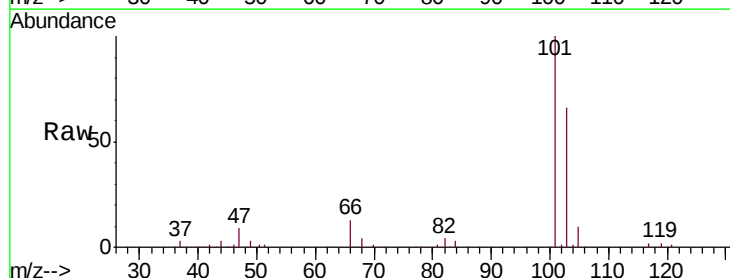
Acq: 09 Jan 2019 13:44

Tgt Ion: 101 Resp: 123877

Ion Ratio Lower Upper

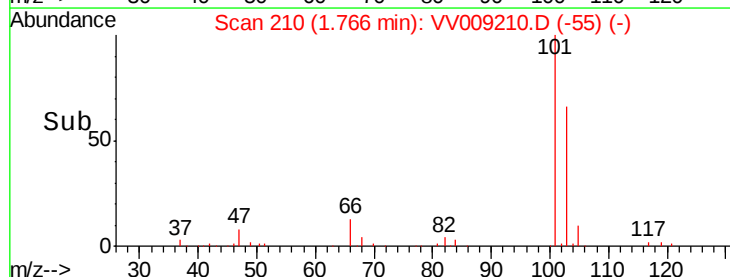
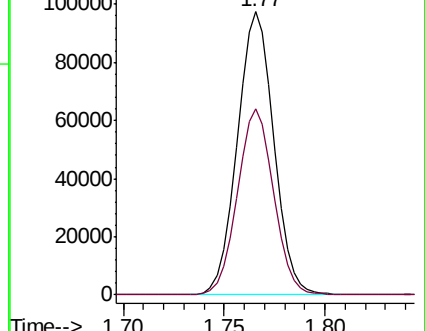
101 100

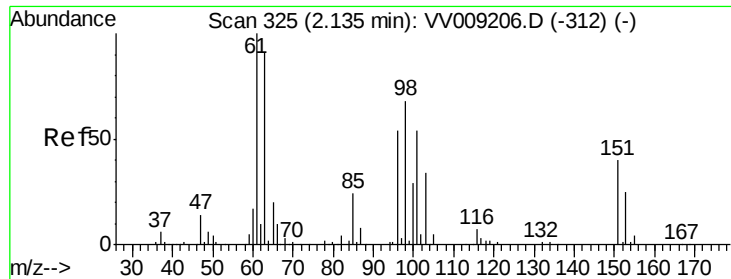
103 65.1 45.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): VV009210.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV009210.D (-200) (-)





#11

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

Concen: 25.122 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

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ClientSampleId :

VHBLK01

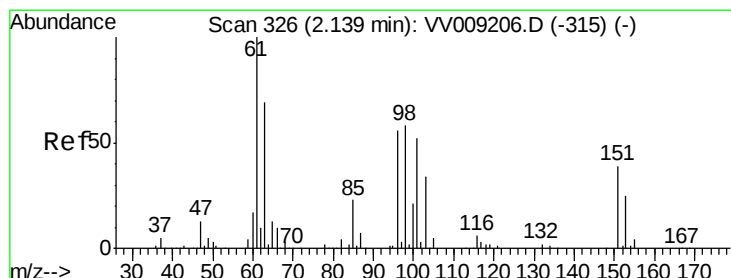
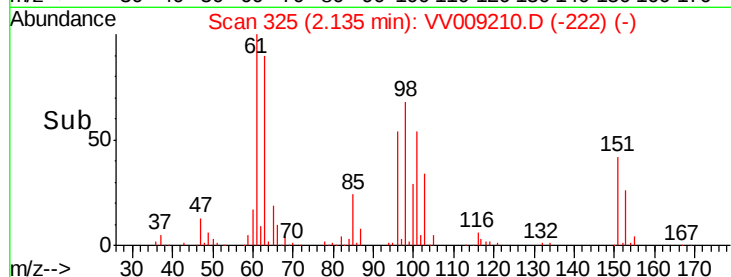
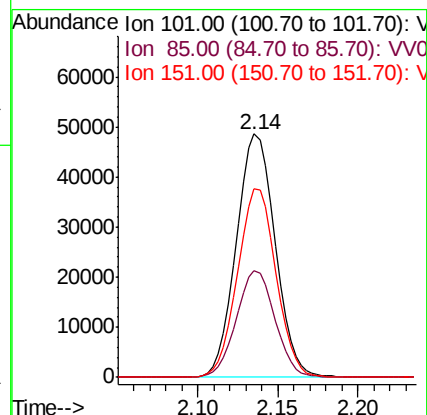
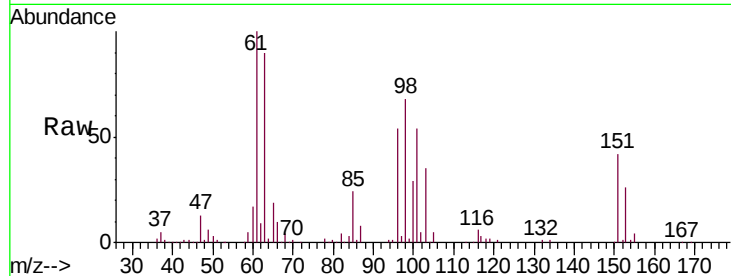
Tgt Ion:101 Resp: 80352

Ion Ratio Lower Upper

101 100

85 43.6 35.2 52.8

151 77.0 59.4 89.2



#12

1,1-Dichloroethene

Concen: 25.845 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

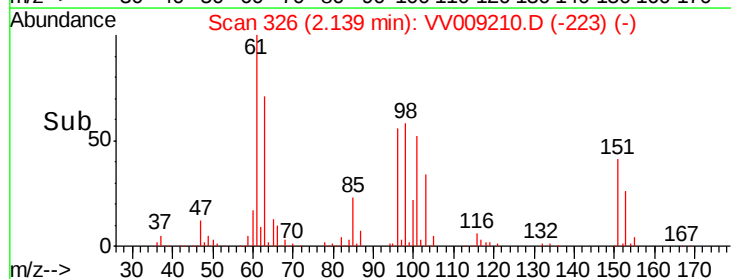
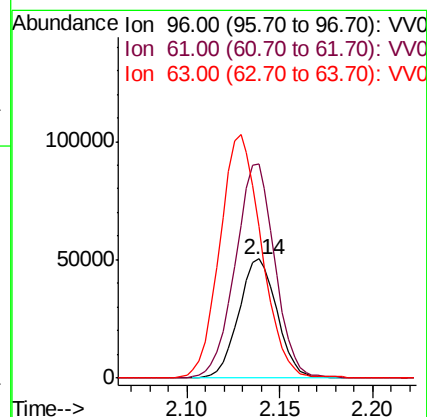
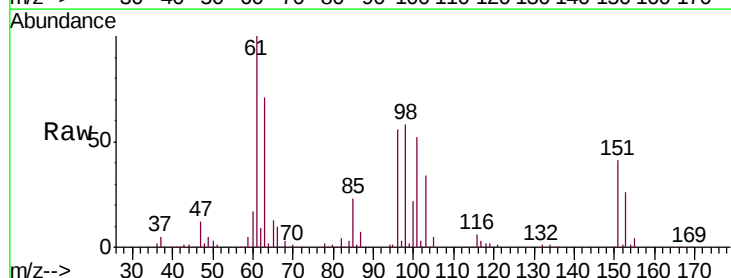
Tgt Ion: 96 Resp: 72208

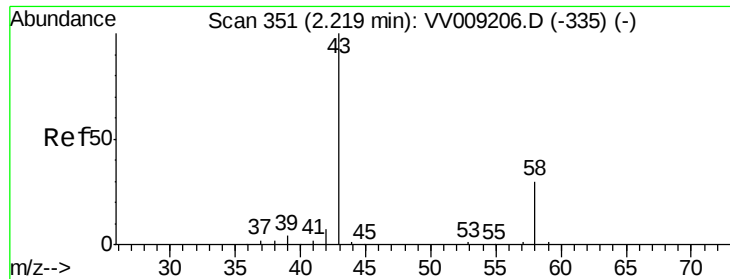
Ion Ratio Lower Upper

96 100

61 179.5 130.3 241.9

63 127.3 107.8 200.2





#13

Acetone

Concen: 39.341 ug/L

RT: 2.22 min Scan# 351

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

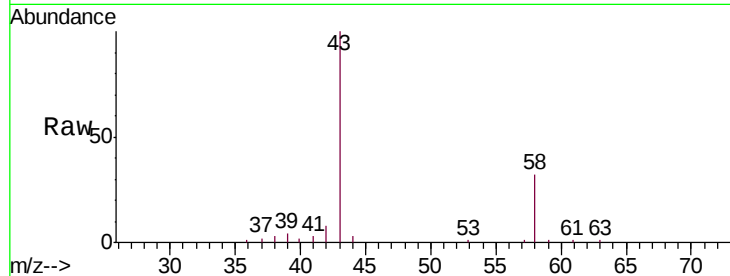
VHBLK01

Tgt Ion: 43 Resp: 56535

Ion Ratio Lower Upper

43 100

58 34.3 0.0 57.8



Abundance Ion 43.00 (42.70 to 43.70): VV009210.D (-248) (-)

Ion 58.00 (57.70 to 58.70): VV009210.D (-248) (-)

2.22

25000

20000

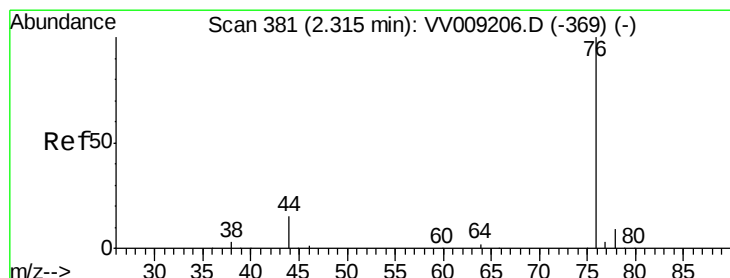
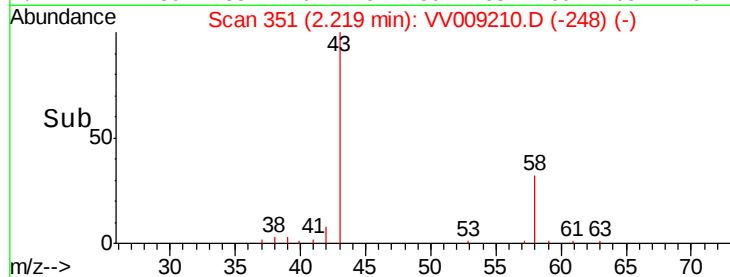
15000

10000

5000

0

Time--> 2.10 2.20 2.30



#14

Carbon disulfide

Concen: 25.229 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009210.D

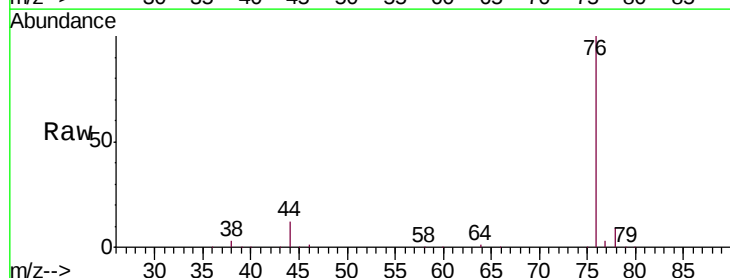
Acq: 09 Jan 2019 13:44

Tgt Ion: 76 Resp: 237562

Ion Ratio Lower Upper

76 100

78 9.0 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009210.D (-226) (-)

Ion 78.00 (77.70 to 78.70): VV009210.D (-226) (-)

2.32

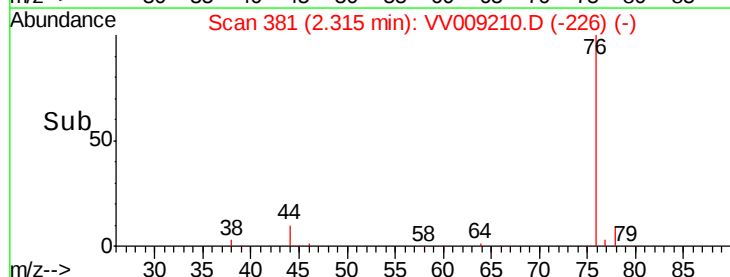
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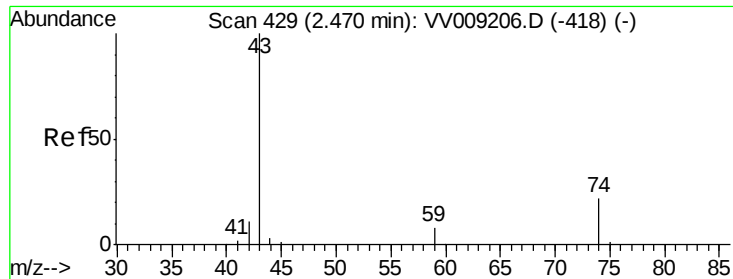
100000

50000

0

Time--> 2.25 2.30 2.35 2.40

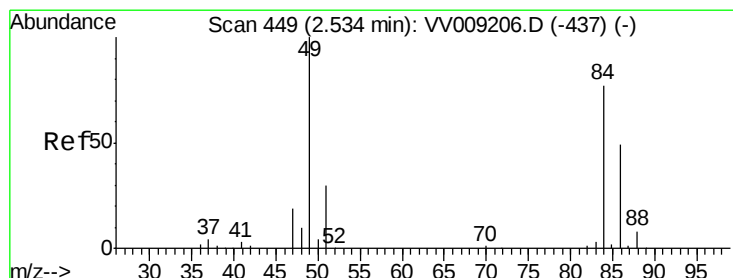
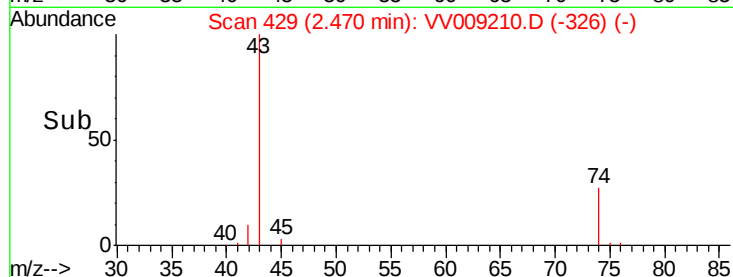
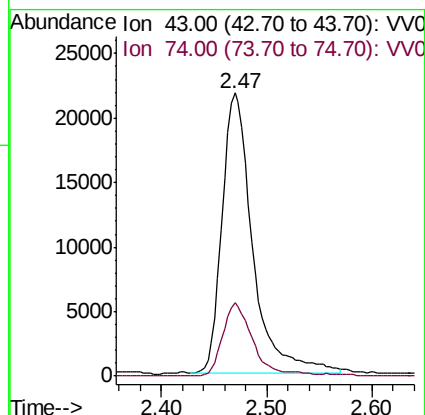
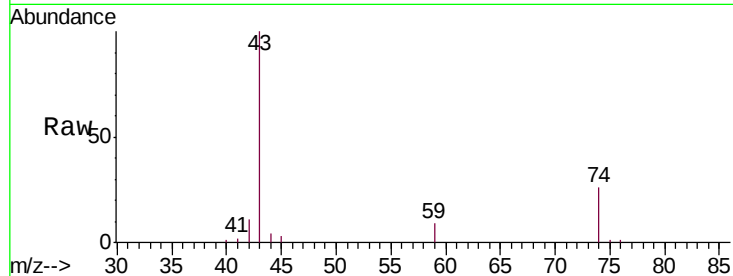




#15
Methyl Acetate
Concen: 25.232 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

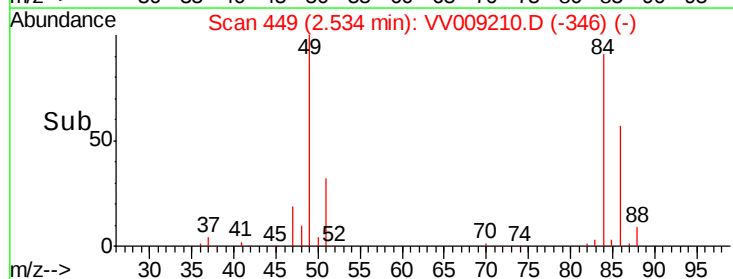
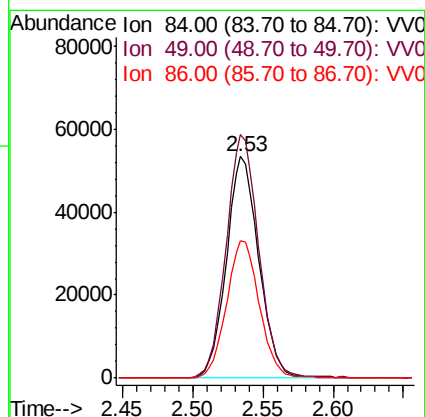
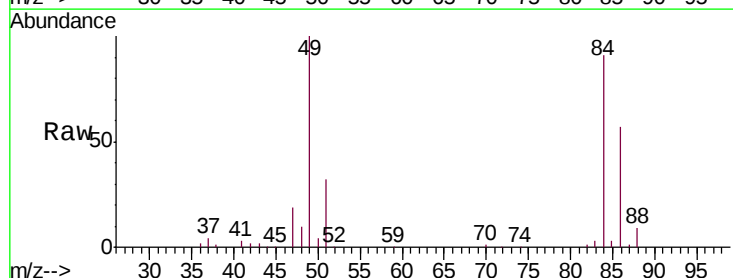
Instrument :
MSVOA_V
ClientSampleId :
VHBLK01

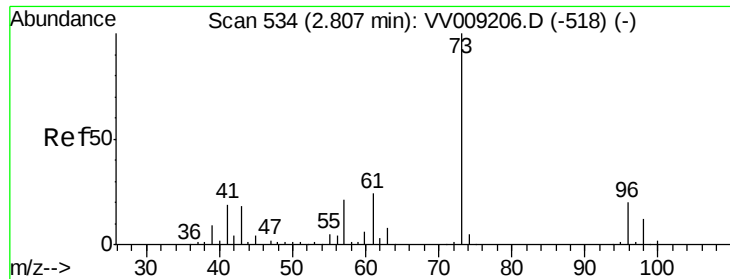
Tgt Ion: 43 Resp: 43886
Ion Ratio Lower Upper
43 100
74 24.7 17.8 26.8



#16
Methylene chloride
Concen: 24.545 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Tgt Ion: 84 Resp: 86103
Ion Ratio Lower Upper
84 100
49 109.9 92.0 170.9
86 62.1 44.9 83.3

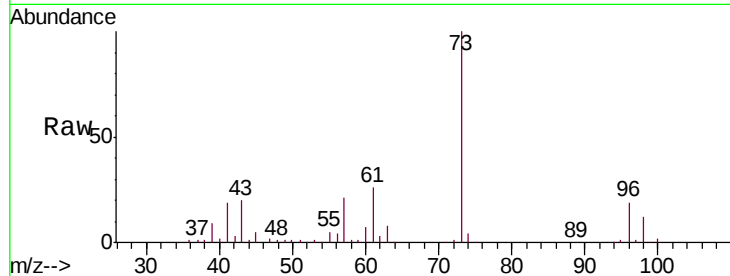




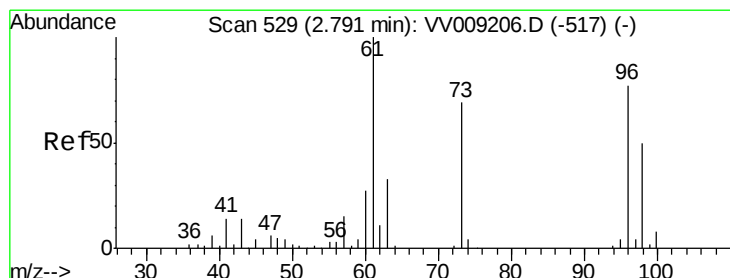
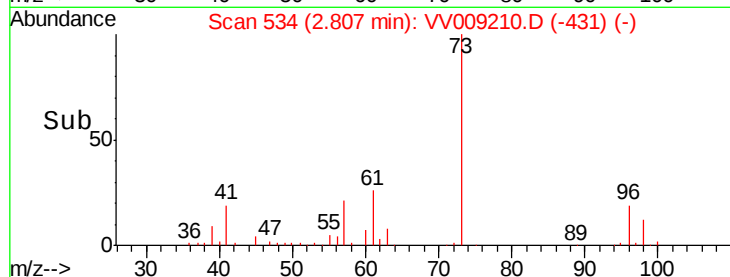
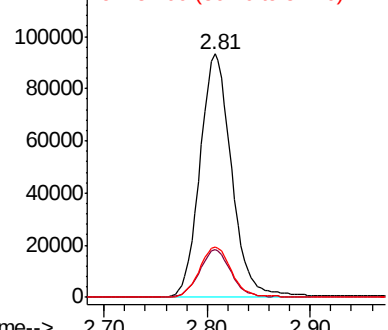
#17
Methyl tert-butyl Ether
Concen: 27.129 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Instrument :
MSVOA_V
ClientSampleId :
VHBLK01

Tgt Ion: 73 Resp: 200235
Ion Ratio Lower Upper
73 100
43 19.0 15.4 23.0
57 20.7 16.4 24.6

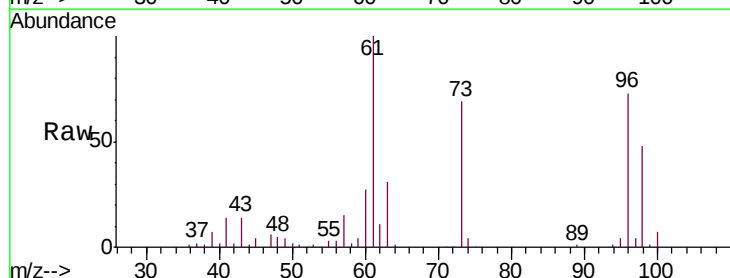


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

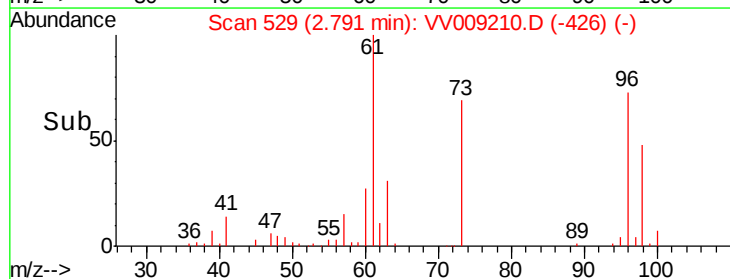
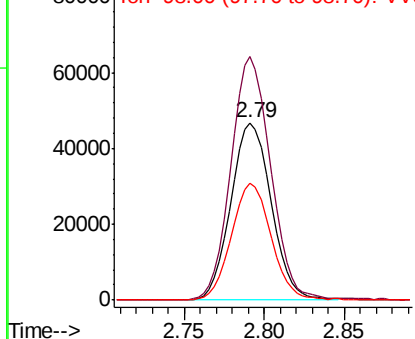


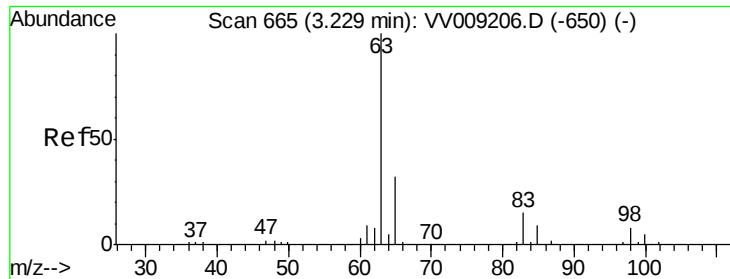
#18
trans-1,2-Dichloroethene
Concen: 25.380 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Tgt Ion: 96 Resp: 80633
Ion Ratio Lower Upper
96 100
61 137.5 91.3 169.5
98 66.1 44.6 82.8



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

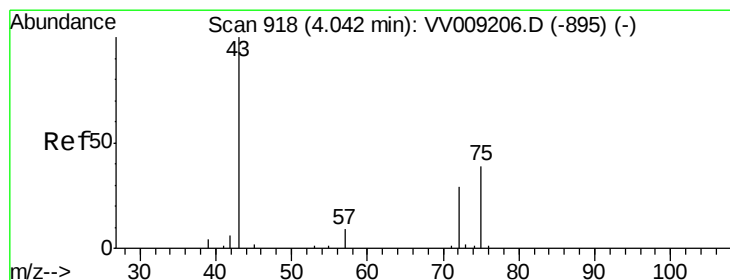
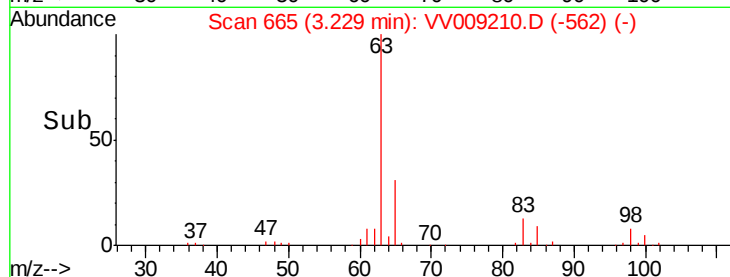
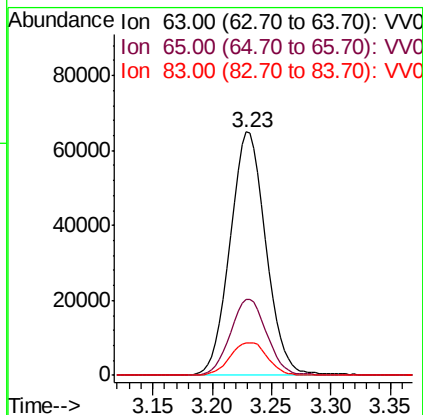
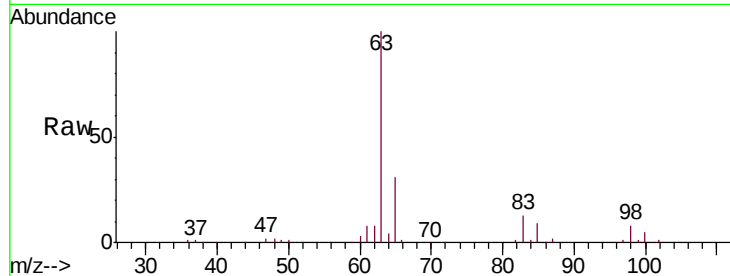




#19
 1,1-Dichloroethane
 Concen: 26.526 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

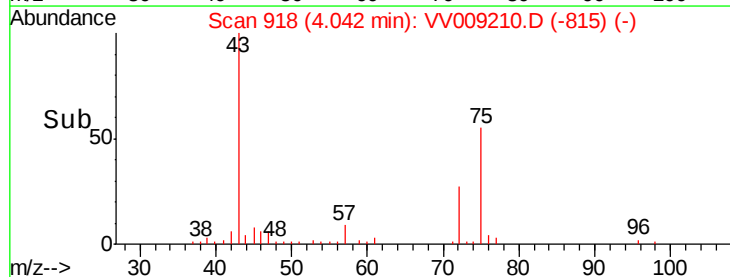
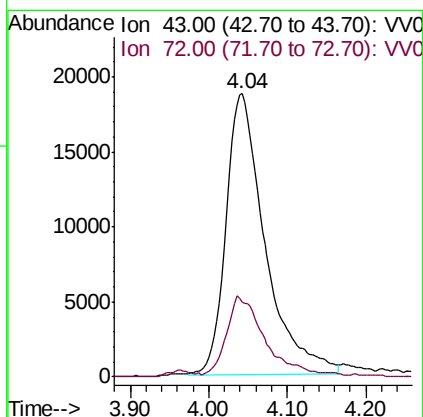
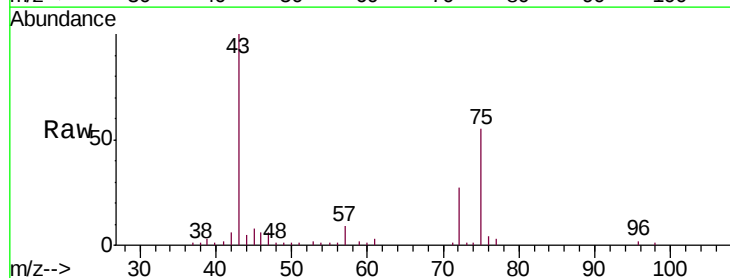
Instrument :
 MSVOA_V
 ClientSampleId :
 VHBLK01

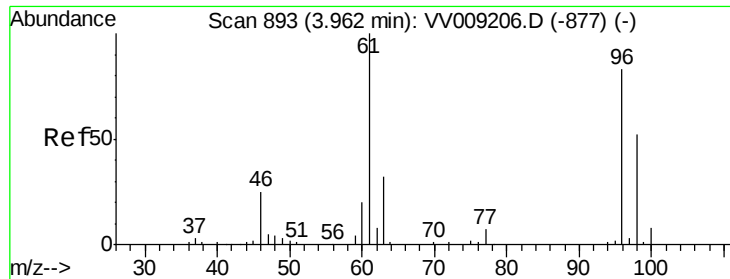
Tgt Ion: 63 Resp: 135641
 Ion Ratio Lower Upper
 63 100
 65 31.0 23.0 42.6
 83 13.4 10.1 18.9



#21
 2-Butanone
 Concen: 46.151 ug/L
 RT: 4.04 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

Tgt Ion: 43 Resp: 64613
 Ion Ratio Lower Upper
 43 100
 72 25.4 12.9 38.6



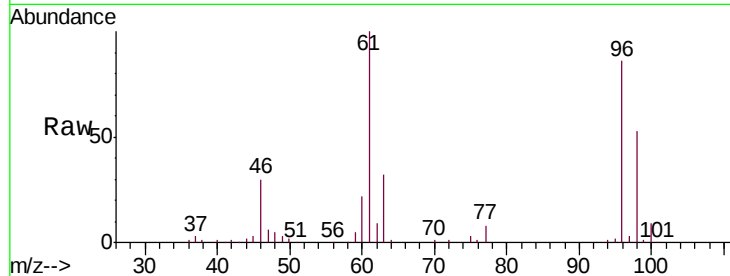


#22

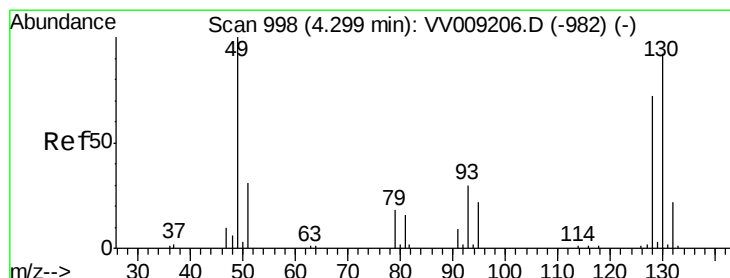
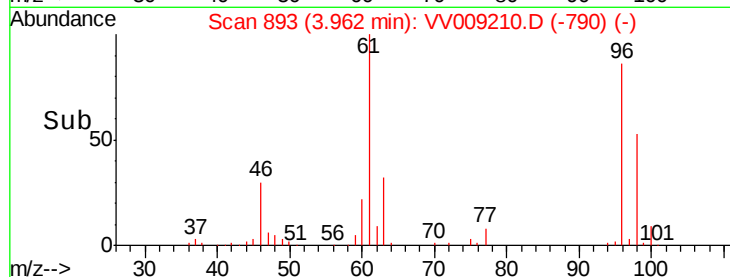
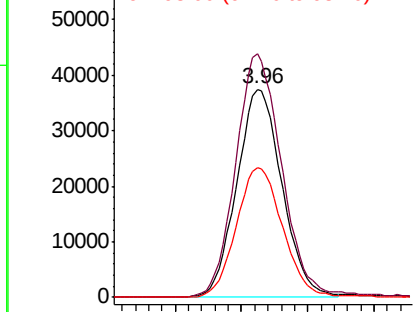
cis-1,2-Dichloroethene
Concen: 26.520 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Instrument :
MSVOA_V
ClientSampleId :
VHBLK01

Tgt Ion: 96 Resp: 88832
Ion Ratio Lower Upper
96 100
61 116.8 82.2 152.6
98 62.2 45.1 83.9



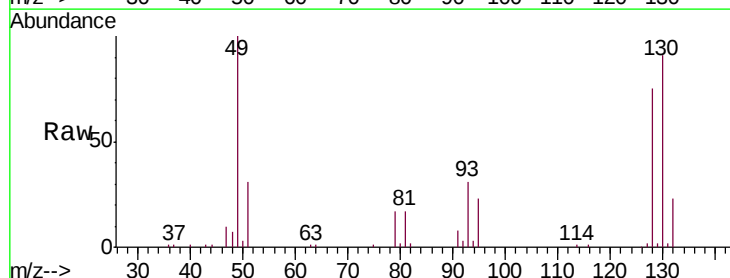
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



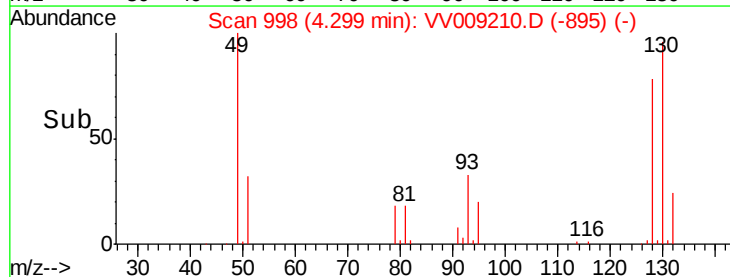
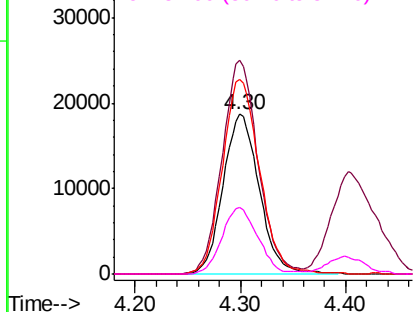
#23

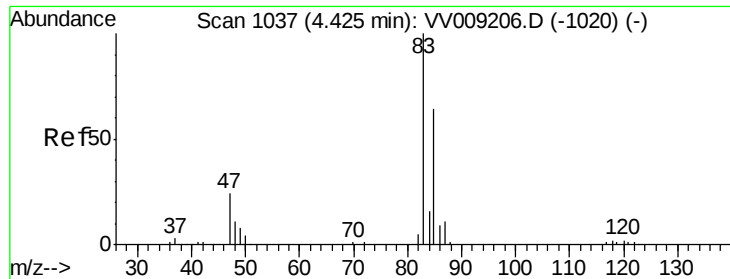
Bromochloromethane
Concen: 27.866 ug/L
RT: 4.30 min Scan# 998
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Tgt Ion: 128 Resp: 44422
Ion Ratio Lower Upper
128 100
49 133.9 89.2 165.6
130 122.2 85.9 159.5
51 41.6 32.6 48.8



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

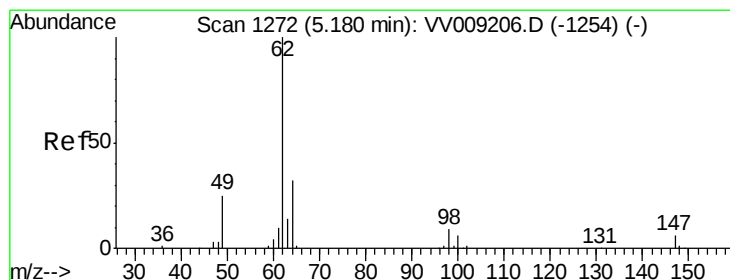
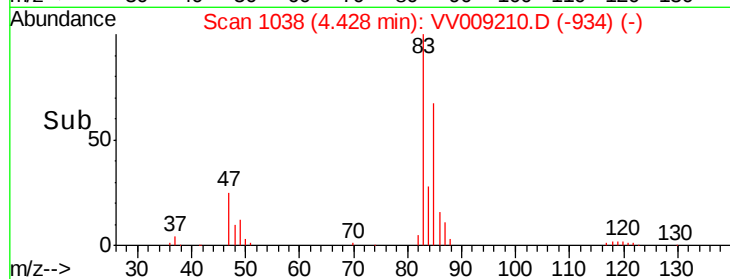
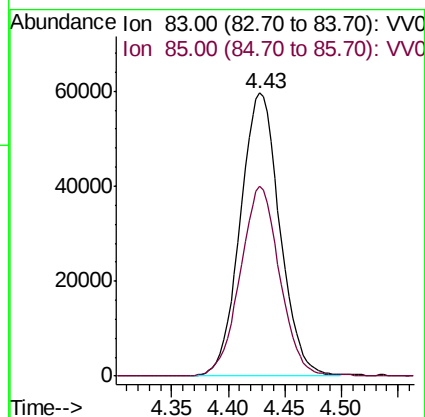
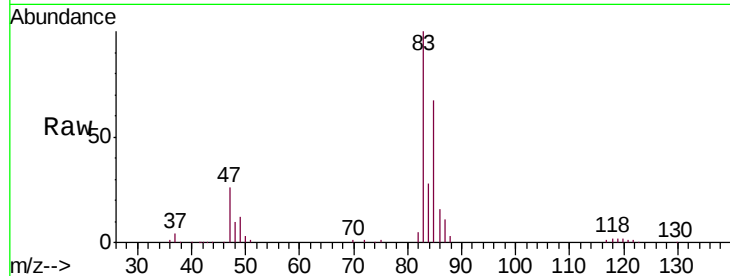




#25
Chloroform
Concen: 26.472 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

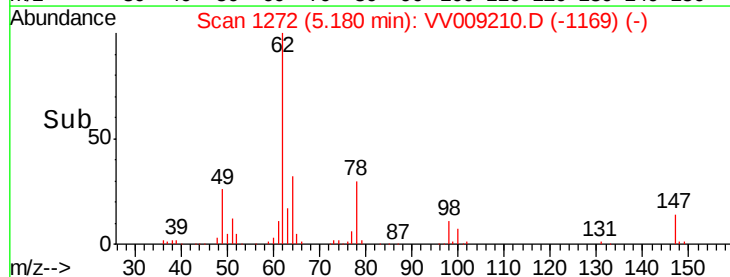
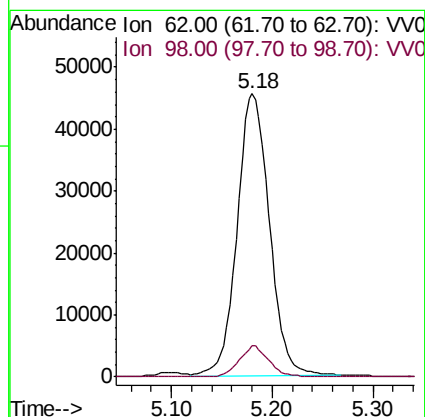
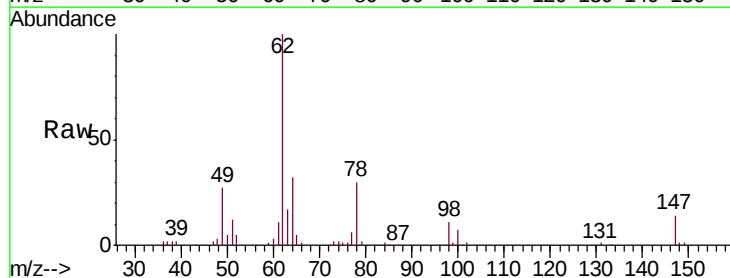
Instrument :
MSVOA_V
ClientSampleId :
VHBLK01

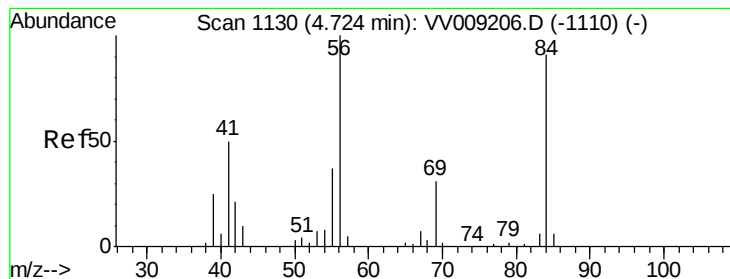
Tgt Ion: 83 Resp: 145098
Ion Ratio Lower Upper
83 100
85 66.9 46.2 85.8



#27
1,2-Dichloroethane
Concen: 27.227 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Tgt Ion: 62 Resp: 101359
Ion Ratio Lower Upper
62 100
98 10.9 8.2 12.2





#30

Cyclohexane

Concen: 25.186 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

VHBLK01

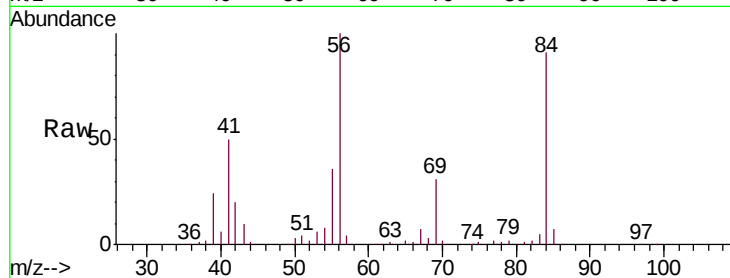
Tgt Ion: 56 Resp: 124458

Ion Ratio Lower Upper

56 100

69 31.4 25.9 38.9

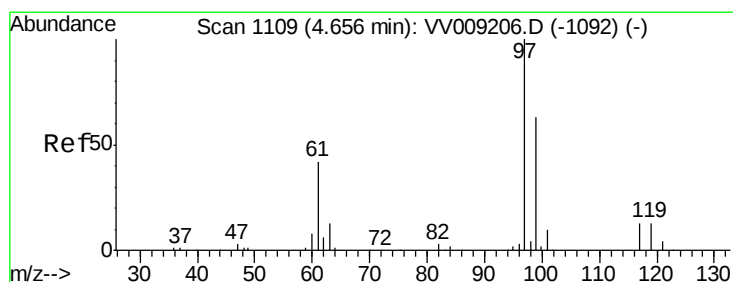
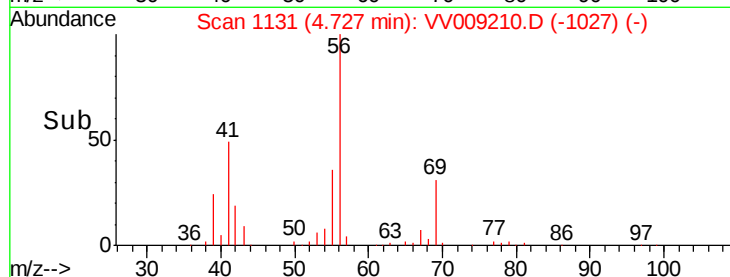
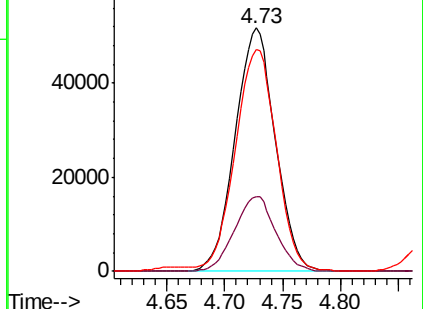
84 94.0 75.6 113.4



Abundance Ion 56.00 (55.70 to 56.70): VV009210.D (-1027) (-)

Ion 69.00 (68.70 to 69.70): VV009210.D (-1027) (-)

Ion 84.00 (83.70 to 84.70): VV009210.D (-1027) (-)



#31

1,1,1-Trichloroethane

Concen: 24.604 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

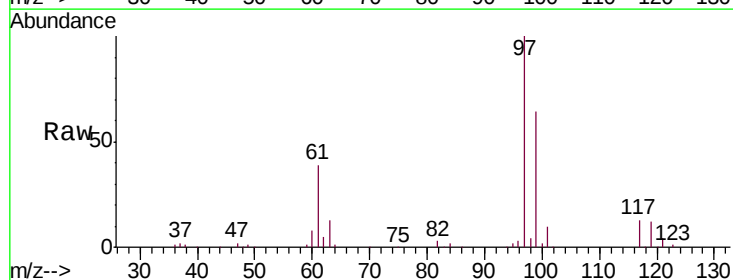
Tgt Ion: 97 Resp: 128663

Ion Ratio Lower Upper

97 100

99 66.3 51.3 76.9

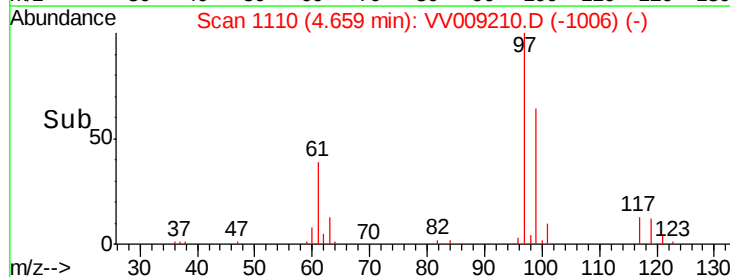
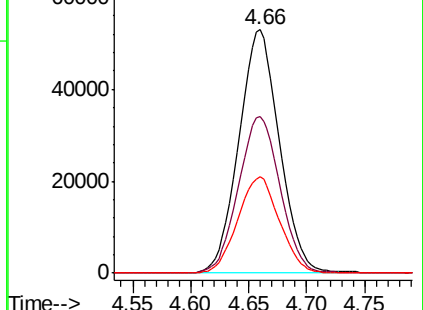
61 40.8 32.1 48.1

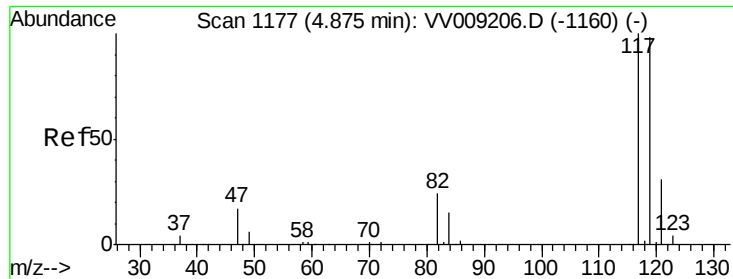


Abundance Ion 97.00 (96.70 to 97.70): VV009210.D (-1006) (-)

Ion 99.00 (98.70 to 99.70): VV009210.D (-1006) (-)

Ion 61.00 (60.70 to 61.70): VV009210.D (-1006) (-)





#32

Carbon tetrachloride

Concen: 24.826 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

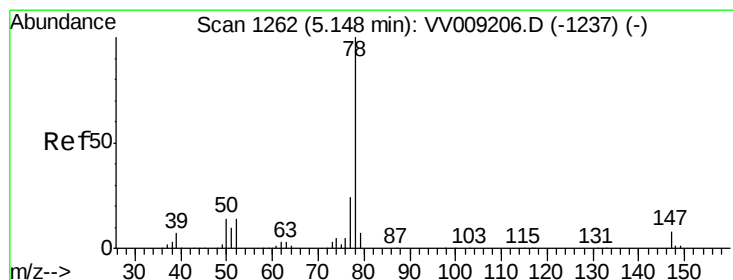
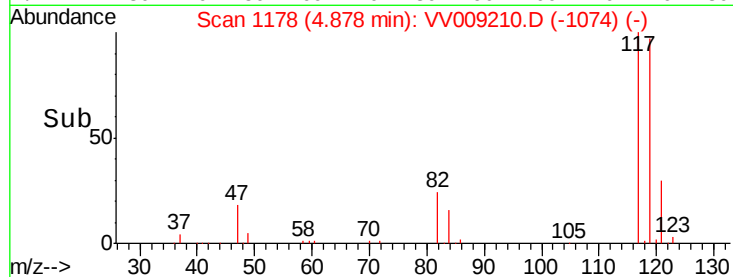
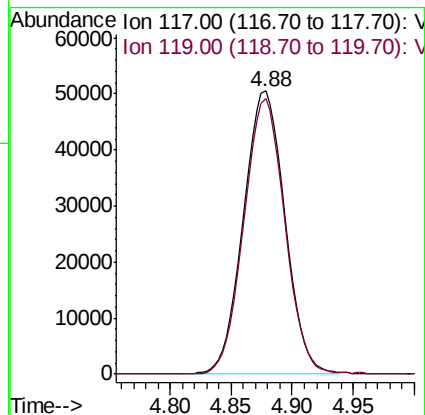
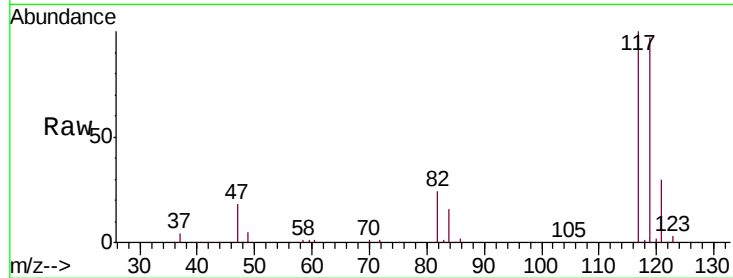
VHBLK01

Tgt Ion:117 Resp: 118912

Ion Ratio Lower Upper

117 100

119 95.8 76.3 114.5



#34

Benzene

Concen: 25.855 ug/L

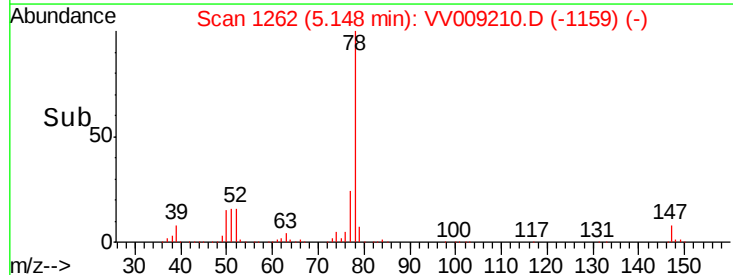
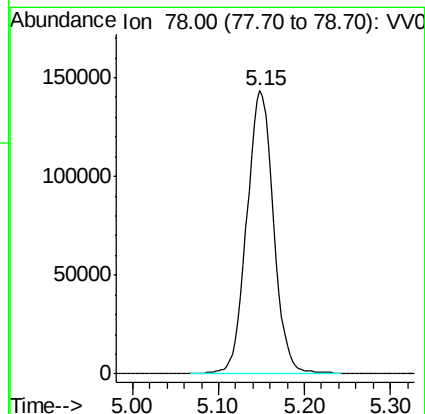
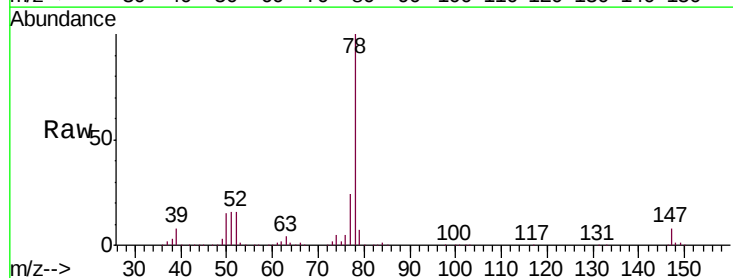
RT: 5.15 min Scan# 1262

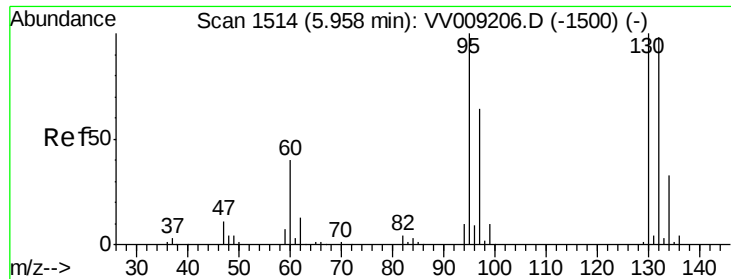
Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Tgt Ion: 78 Resp: 311332





#35

Trichloroethene

Concen: 25.226 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

VHBLK01

Tgt Ion: 95 Resp: 86702

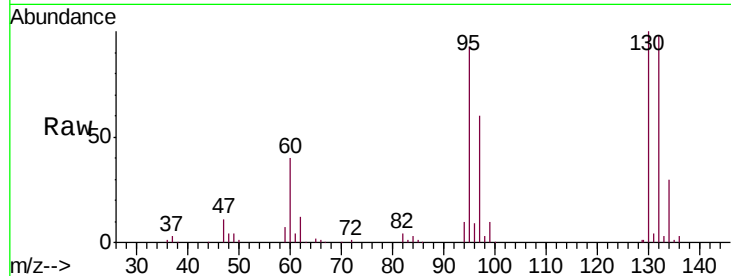
Ion Ratio Lower Upper

95 100

97 65.2 44.7 82.9

132 104.0 71.2 132.2

130 106.4 74.4 138.2

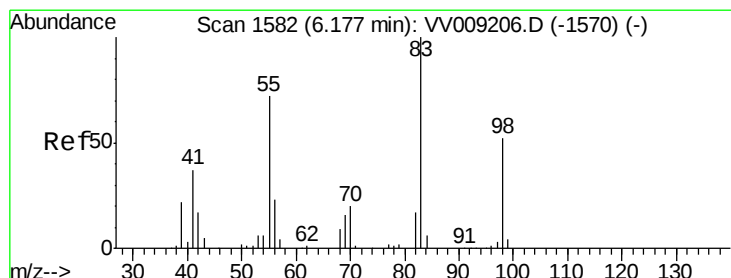
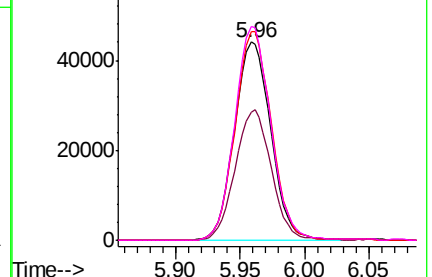
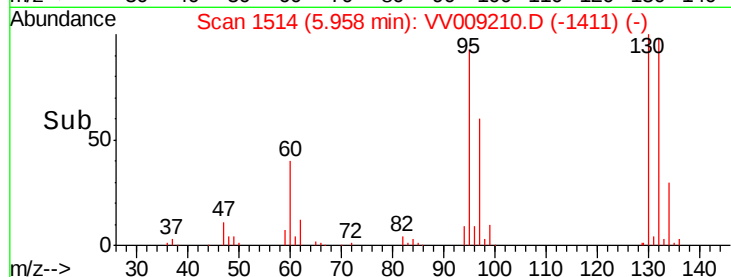


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#36

Methylcyclohexane

Concen: 24.465 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

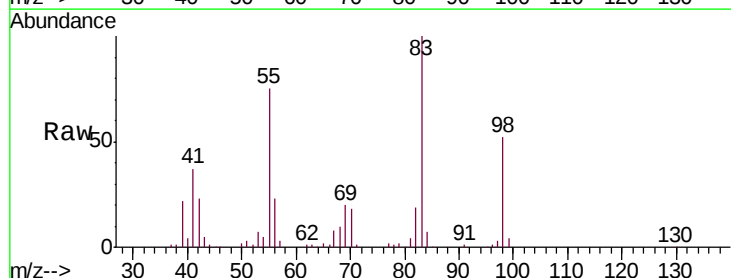
Tgt Ion: 83 Resp: 141974

Ion Ratio Lower Upper

83 100

55 72.9 57.6 86.4

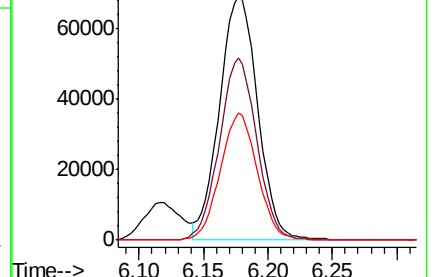
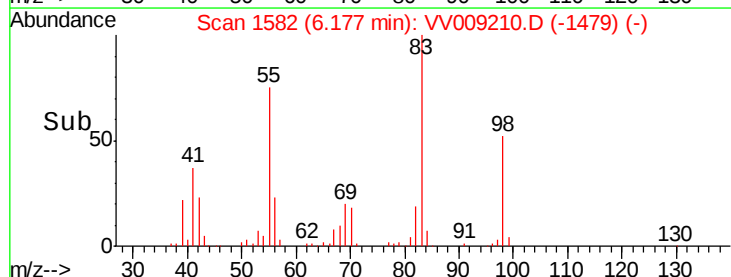
98 50.1 41.0 61.6

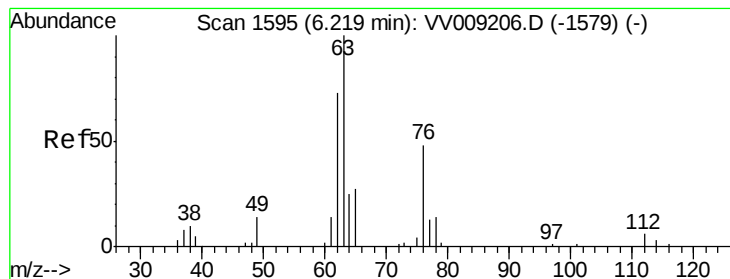


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 26.052 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

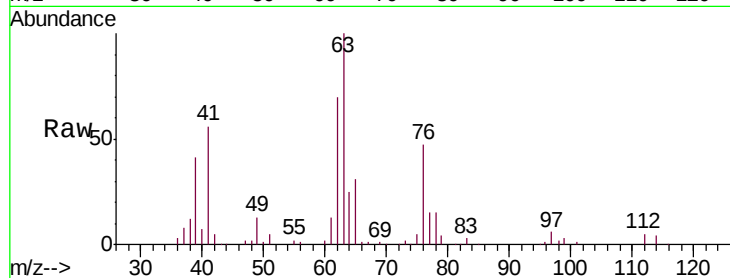
VHBLK01

Tgt Ion: 63 Resp: 76400

Ion Ratio Lower Upper

63 100

112 5.3 4.1 6.1



Abundance Ion 63.00 (62.70 to 63.70): VV009210.D (-1596) (-)

Ion 112.00 (111.70 to 112.70): VV009210.D (-1596) (-)

6.22

40000

30000

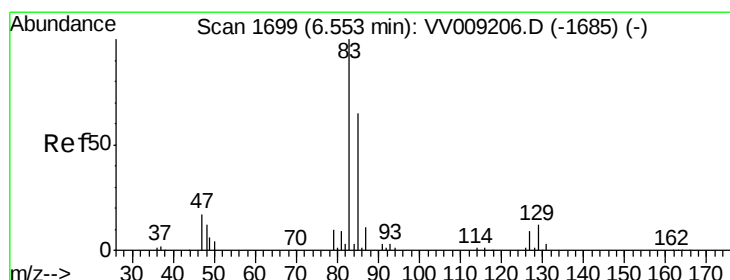
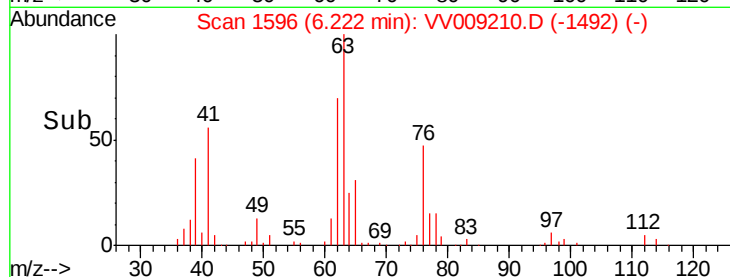
20000

10000

0

6.10 6.15 6.20 6.25 6.30

Time-->



#41

Bromodichloromethane

Concen: 26.733 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

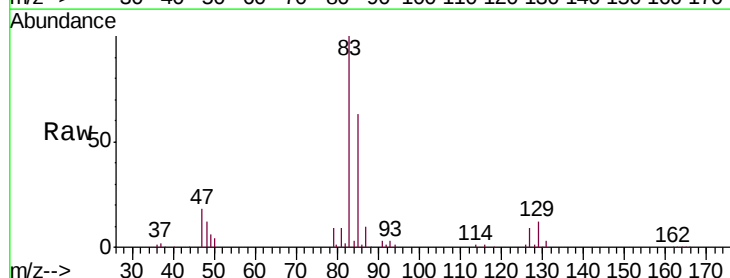
Tgt Ion: 83 Resp: 107813

Ion Ratio Lower Upper

83 100

85 63.0 45.4 84.4

127 8.5 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VV009210.D (-1699) (-)

Ion 85.00 (84.70 to 85.70): VV009210.D (-1699) (-)

Ion 127.00 (126.70 to 127.70): VV009210.D (-1699) (-)

6.56

80000

60000

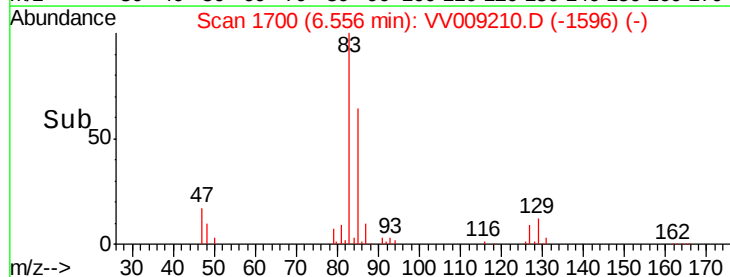
40000

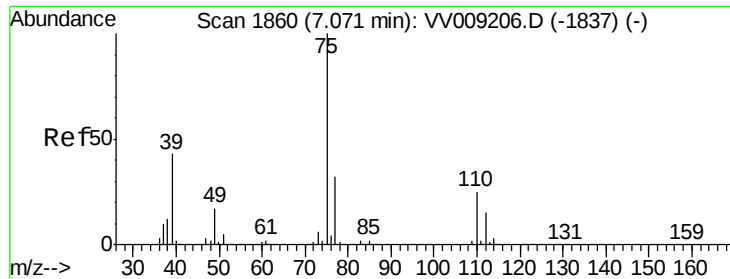
20000

0

6.50 6.55 6.60 6.65

Time-->



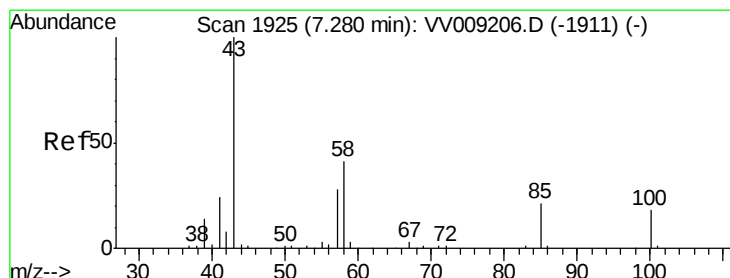
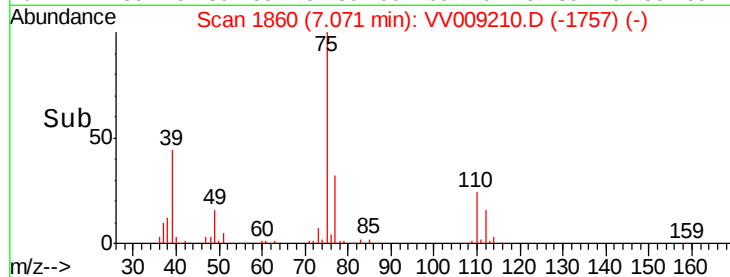
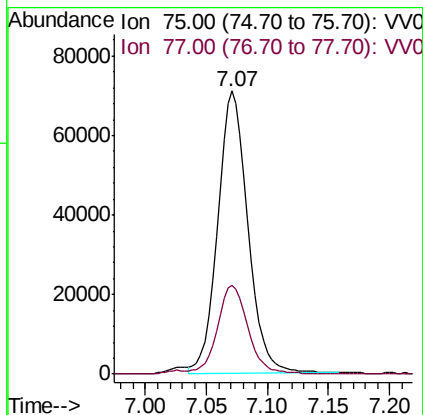
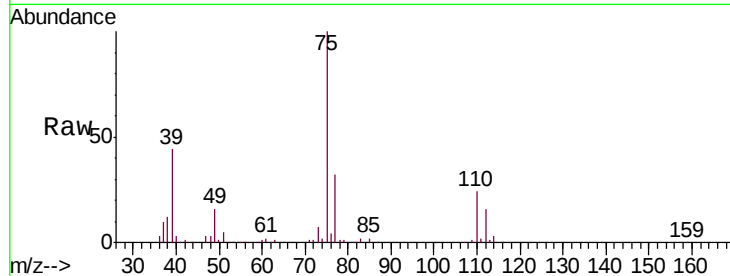


#42

cis-1,3-Dichloropropene
Concen: 26.757 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Instrument :
MSVOA_V
ClientSampleId :
VHBLK01

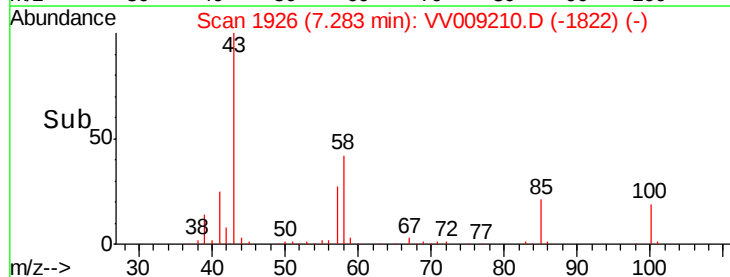
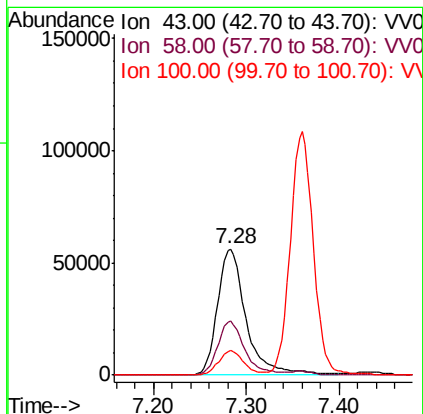
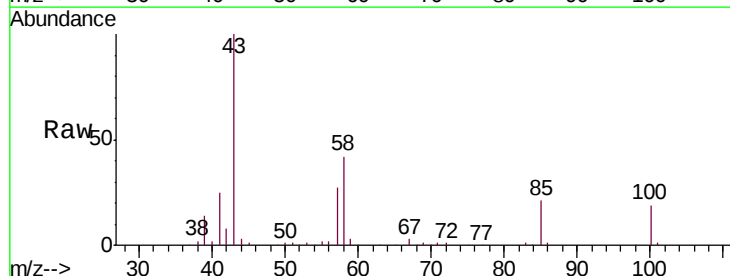
Tgt Ion: 75 Resp: 123282
Ion Ratio Lower Upper
75 100
77 31.5 22.7 42.3

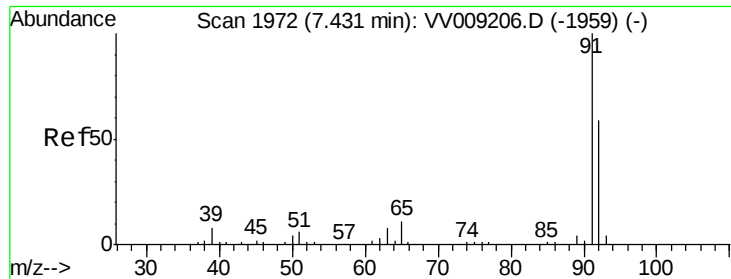


#43

4-Methyl-2-pentanone
Concen: 52.289 ug/L
RT: 7.28 min Scan# 1926
Delta R.T. 0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Tgt Ion: 43 Resp: 120541
Ion Ratio Lower Upper
43 100
58 40.1 32.8 49.2
100 17.0 15.0 22.4





#44

Toluene

Concen: 25.877 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

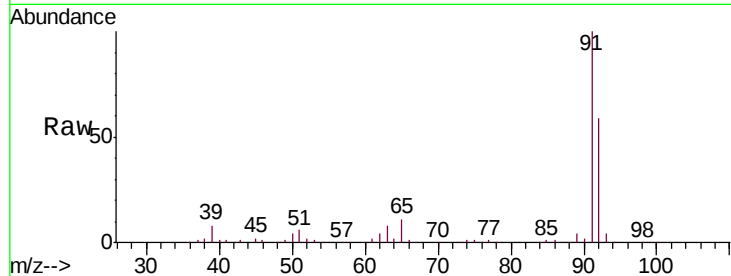
VHBLK01

Tgt Ion: 91 Resp: 334612

Ion Ratio Lower Upper

91 100

92 58.9 41.8 77.6



Abundance Ion 91.00 (90.70 to 91.70): VV009210.D (-1869) (-)

Ion 92.00 (91.70 to 92.70): VV009210.D (-1869) (-)

7.43

200000

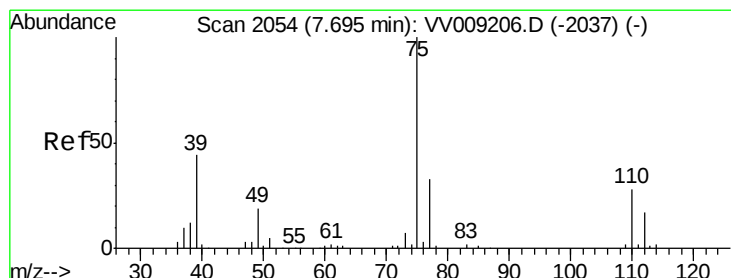
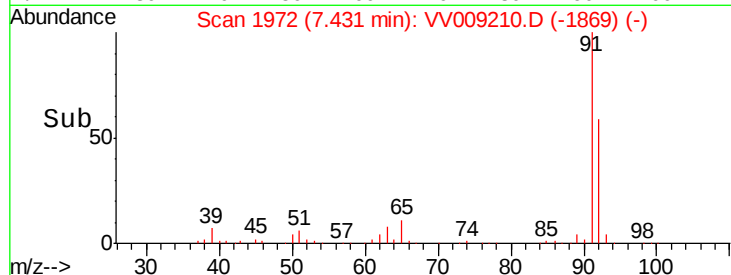
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 26.900 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009210.D

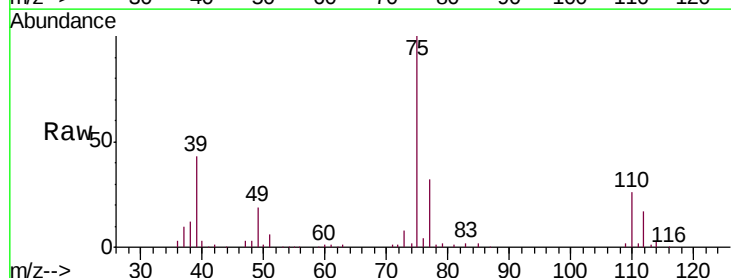
Acq: 09 Jan 2019 13:44

Tgt Ion: 75 Resp: 109124

Ion Ratio Lower Upper

75 100

77 31.9 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV009210.D (-1951) (-)

Ion 77.00 (76.70 to 77.70): VV009210.D (-1951) (-)

7.69

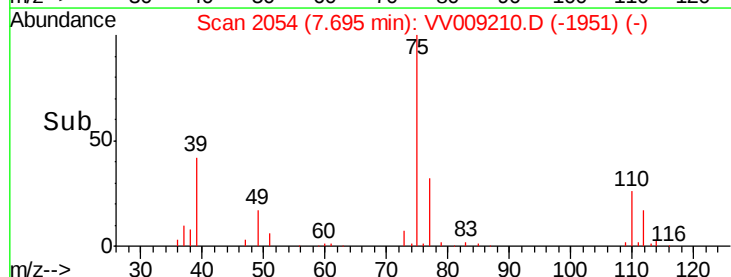
60000

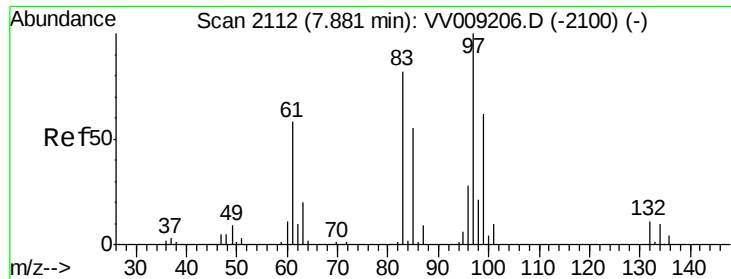
40000

20000

0

Time-->

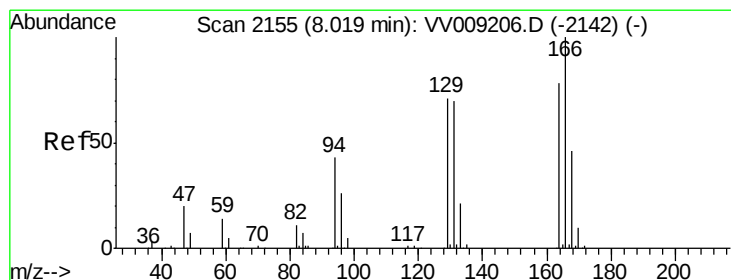
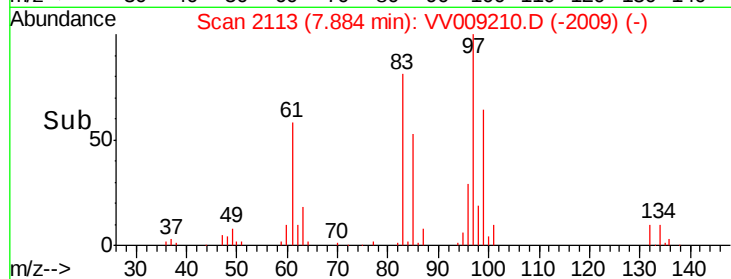
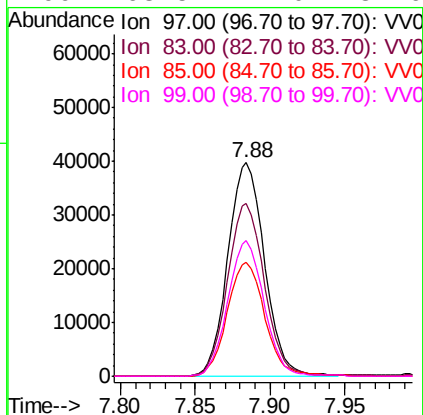
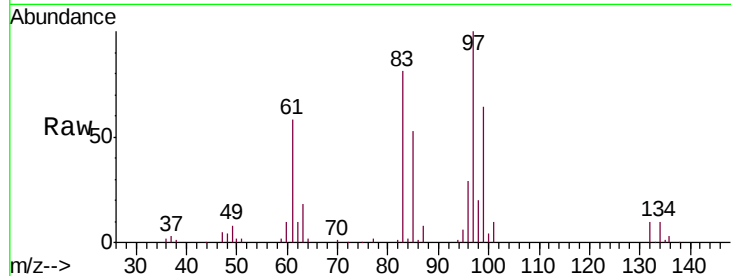




#46
 1,1,2-Trichloroethane
 Concen: 26.597 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

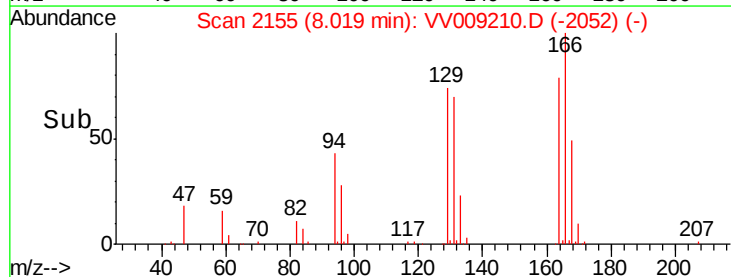
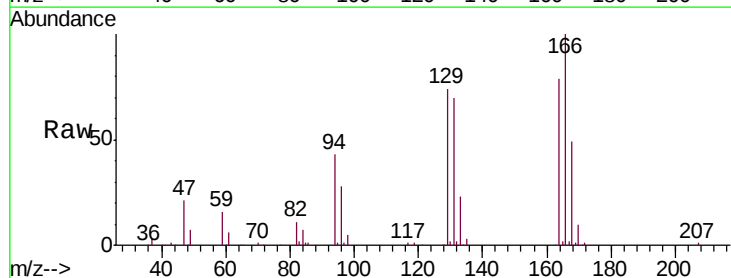
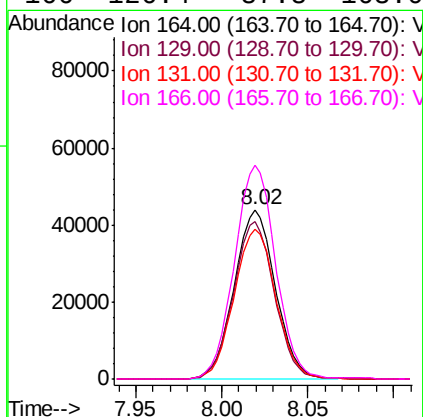
Instrument :
 MSVOA_V
 ClientSampleId :
 VHBLK01

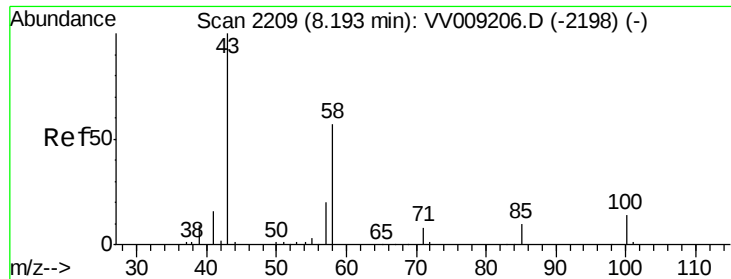
Tgt Ion:	97	Resp:	67996
Ion	Ratio	Lower	Upper
97	100		
83	81.1	58.0	107.6
85	53.4	38.4	71.4
99	63.5	44.0	81.6



#47
 Tetrachloroethene
 Concen: 24.677 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

Tgt Ion:	164	Resp:	73151
Ion	Ratio	Lower	Upper
164	100		
129	93.5	65.3	121.3
131	88.7	61.8	114.8
166	126.4	87.8	163.0

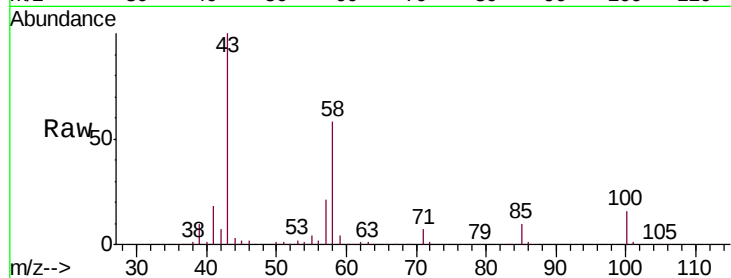




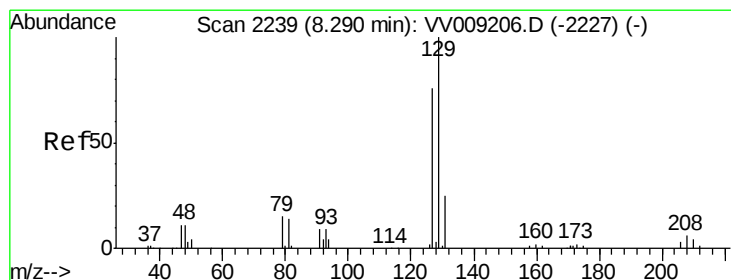
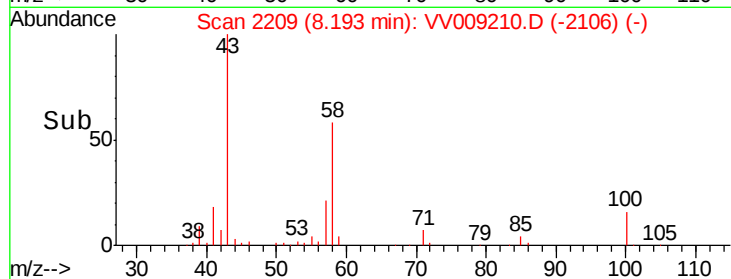
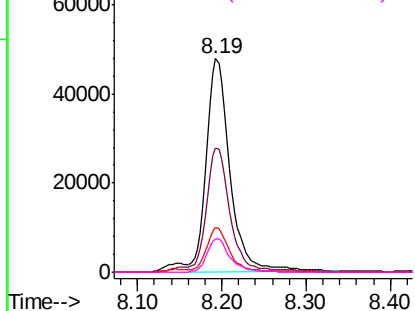
#49
2-Hexanone
Concen: 51.025 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Instrument :
MSVOA_V
ClientSampleId :
VHBLK01

Tgt Ion: 43 Resp: 93145
Ion Ratio Lower Upper
43 100
58 55.2 48.4 72.6
57 20.8 15.6 23.4
100 15.2 12.4 18.6

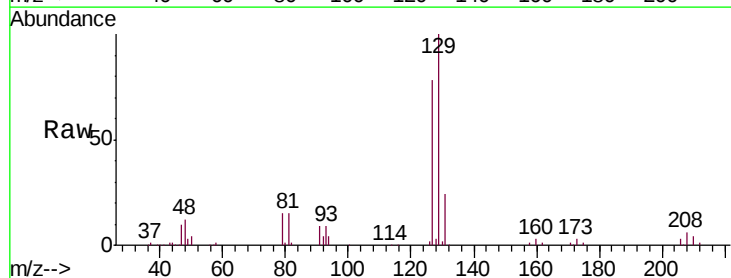


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

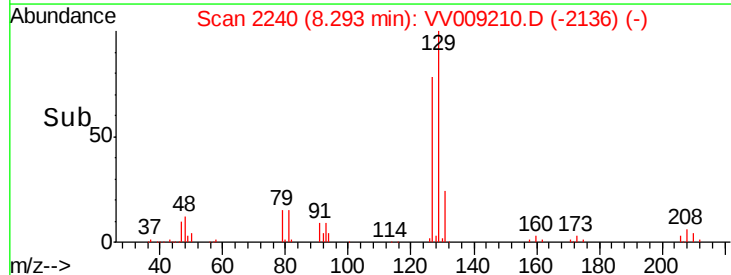
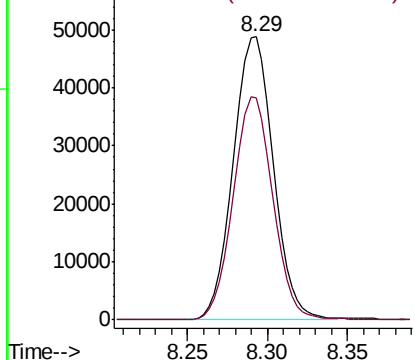


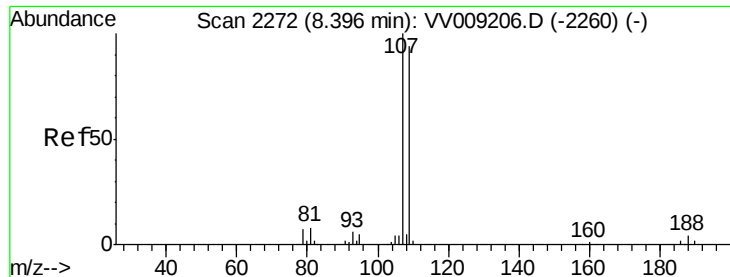
#50
Dibromochloromethane
Concen: 26.790 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009210.D
Acq: 09 Jan 2019 13:44

Tgt Ion: 129 Resp: 83527
Ion Ratio Lower Upper
129 100
127 78.5 55.9 103.9



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

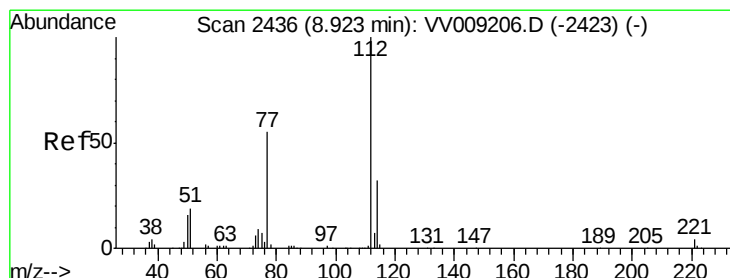
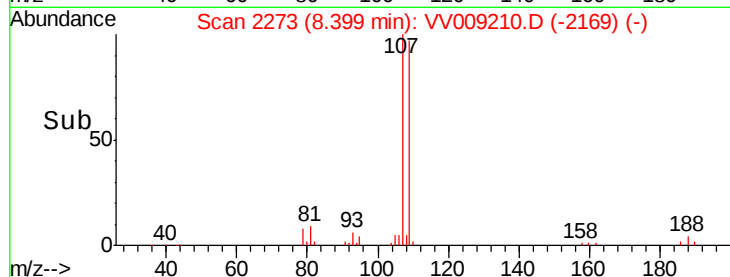
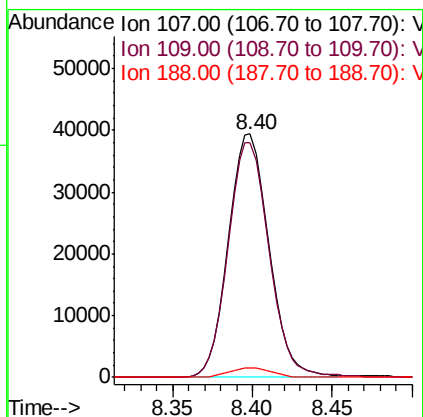
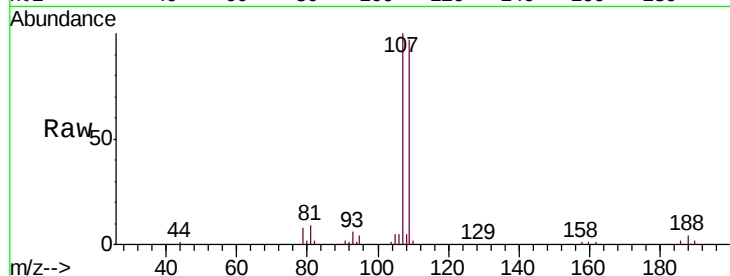




#51
 1,2-Dibromoethane
 Concen: 26.195 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

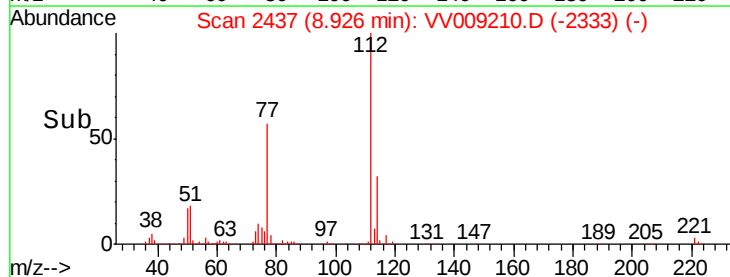
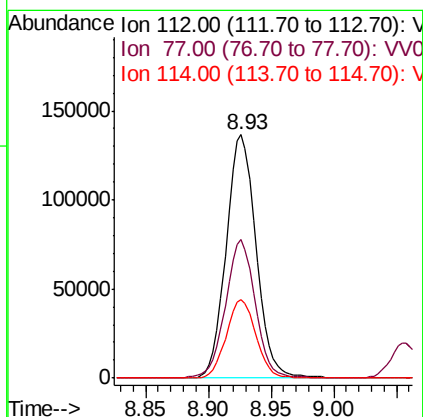
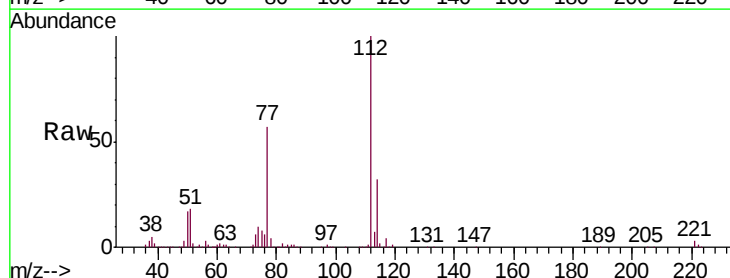
Instrument :
 MSVOA_V
 ClientSampleId :
 VHBLK01

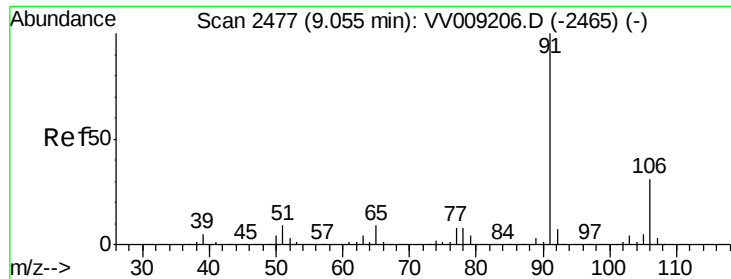
Tgt Ion	Ratio	Lower	Upper
107	100		
109	96.5	65.0	120.6
188	4.0	3.0	4.4



#52
 Chlorobenzene
 Concen: 25.456 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

Tgt Ion	Ratio	Lower	Upper
112	100		
77	56.9	45.4	68.2
114	32.4	22.9	42.5





#53

Ethylbenzene

Concen: 25.529 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

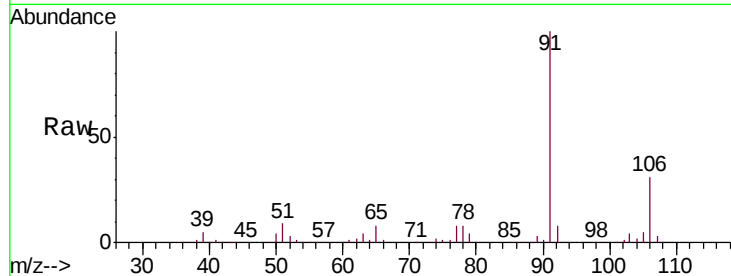
VHBLK01

Tgt Ion: 91 Resp: 372965

Ion Ratio Lower Upper

91 100

106 31.0 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV009210.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV009210.D (-2465) (-)

9.06

250000

200000

150000

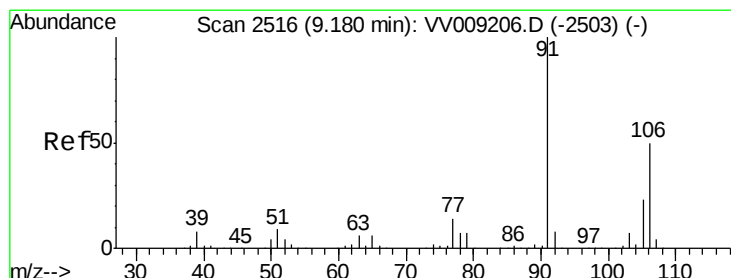
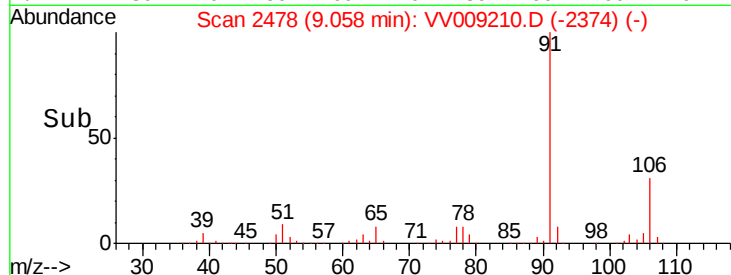
100000

50000

0

9.00 9.05 9.10 9.15

Time-->



#54

m,p-Xylene

Concen: 25.456 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009210.D

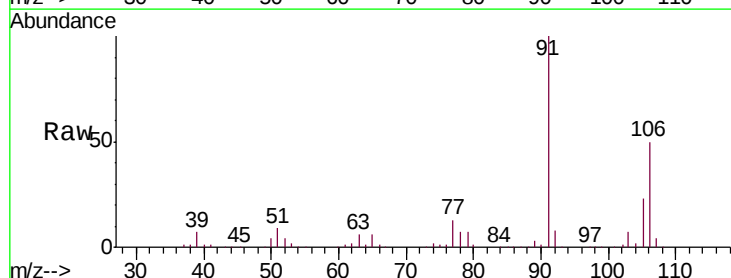
Acq: 09 Jan 2019 13:44

Tgt Ion: 106 Resp: 143676

Ion Ratio Lower Upper

106 100

91 199.4 139.2 258.6



Abundance Ion 106.00 (105.70 to 106.70): VV009210.D (-2503) (-)

Ion 91.00 (90.70 to 91.70): VV009210.D (-2503) (-)

9.18

200000

150000

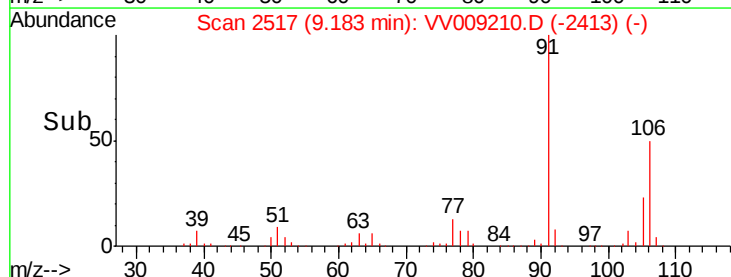
100000

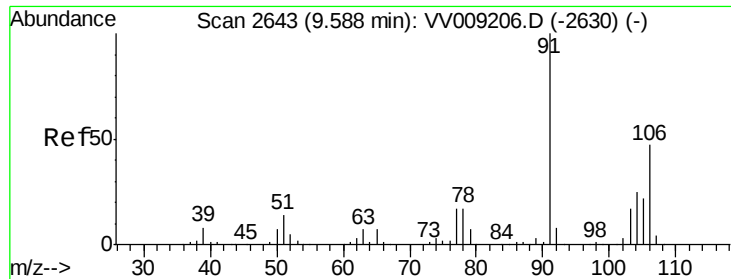
50000

0

9.10 9.15 9.20 9.25 9.30

Time-->





#55

o-xylene

Concen: 25.859 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

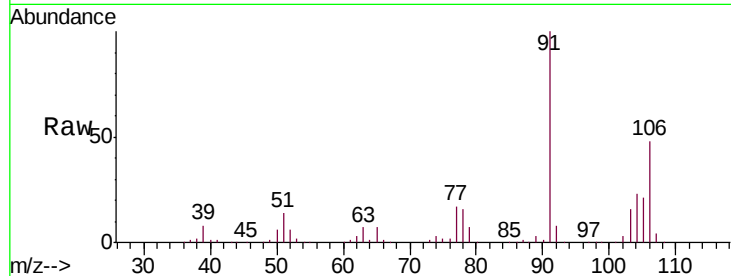
VHBLK01

Tgt Ion:106 Resp: 138834

Ion Ratio Lower Upper

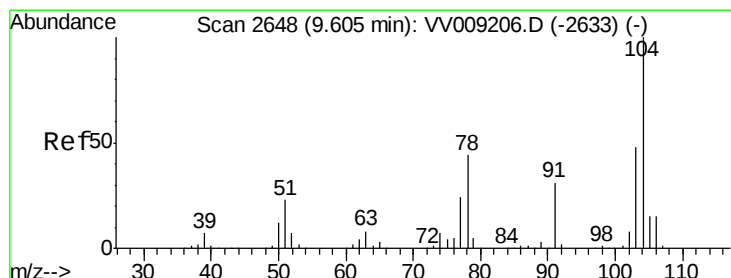
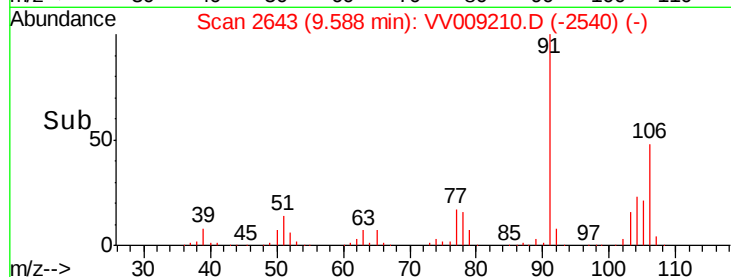
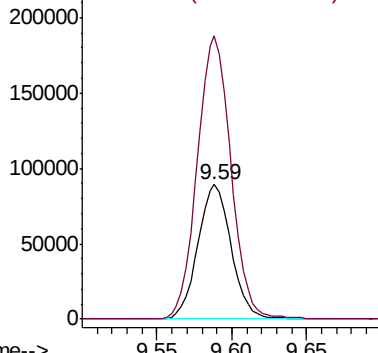
106 100

91 210.3 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 26.714 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009210.D

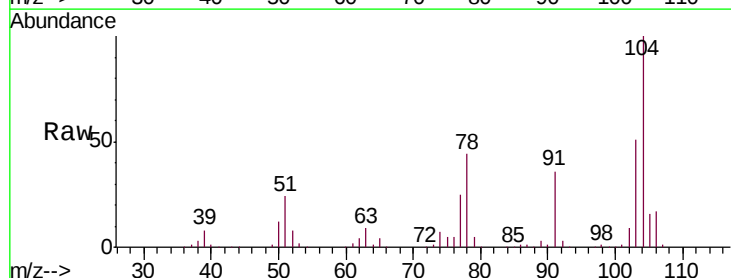
Acq: 09 Jan 2019 13:44

Tgt Ion:104 Resp: 238597

Ion Ratio Lower Upper

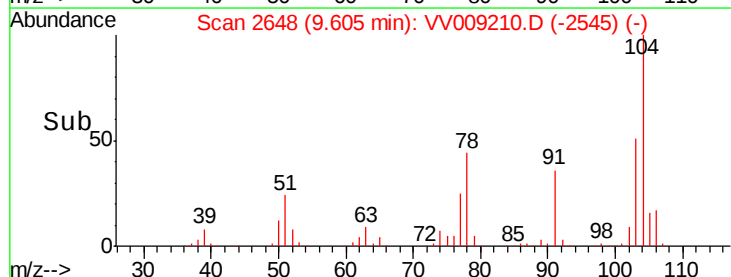
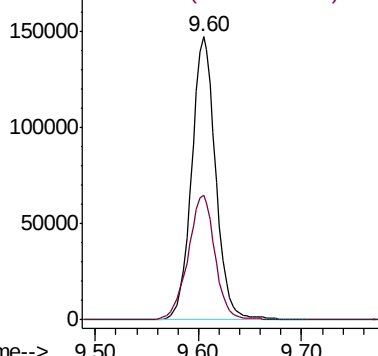
104 100

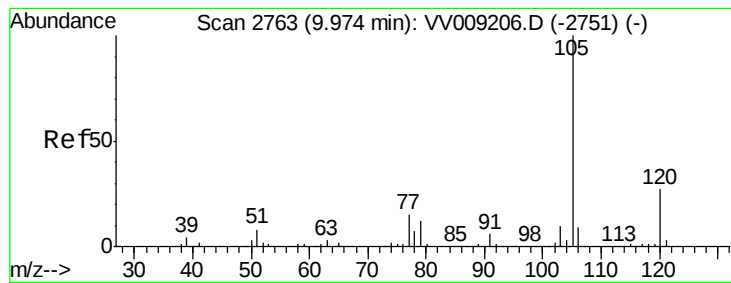
78 44.1 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 25.158 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

VHBLK01

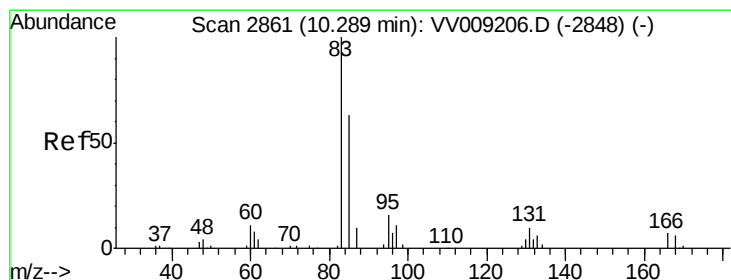
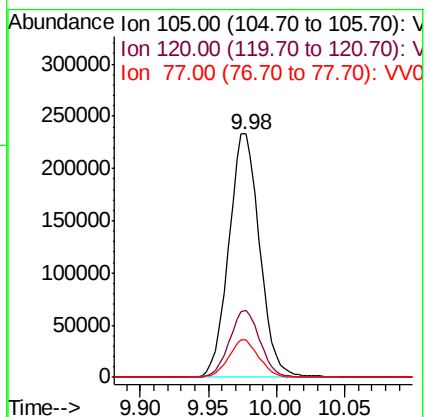
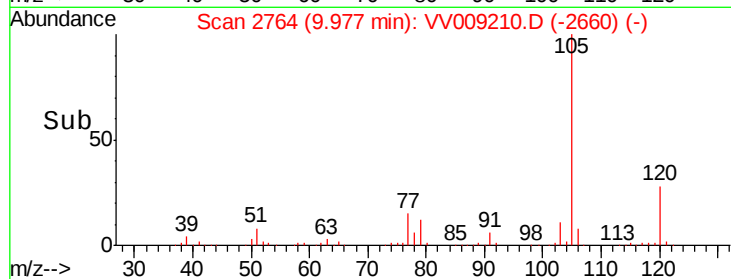
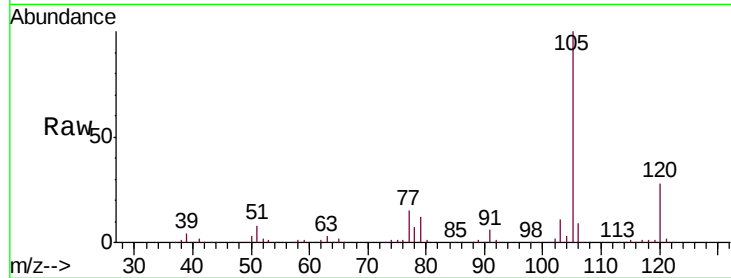
Tgt Ion: 105 Resp: 366926

Ion Ratio Lower Upper

105 100

120 27.4 21.2 31.8

77 15.2 11.9 17.9



#58

1,1,2,2-Tetrachloroethane

Concen: 26.449 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

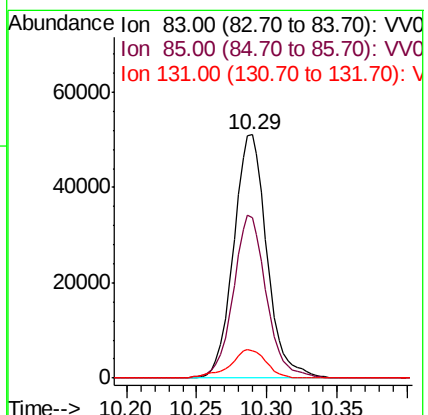
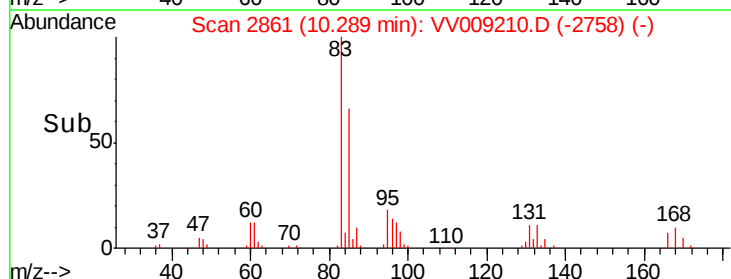
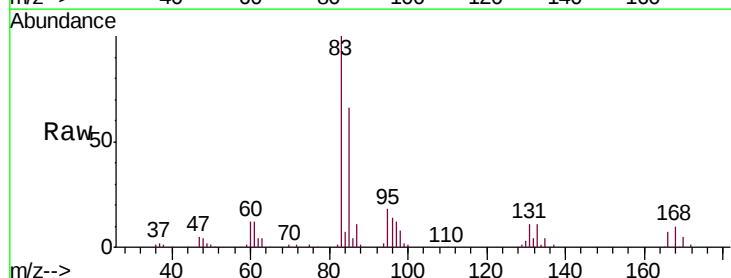
Tgt Ion: 83 Resp: 84425

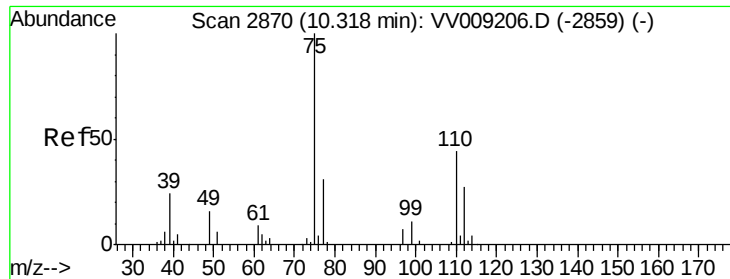
Ion Ratio Lower Upper

83 100

85 65.7 43.7 81.1

131 11.3 8.5 12.7





#59

1,2,3-Trichloropropane

Concen: 25.623 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

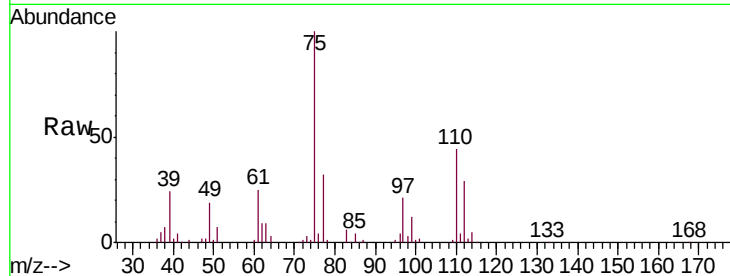
VHBLK01

Tgt Ion: 75 Resp: 64480

Ion Ratio Lower Upper

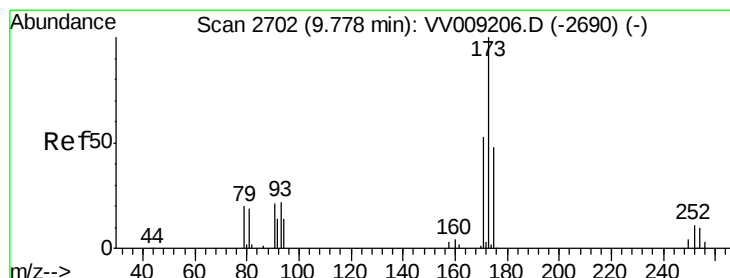
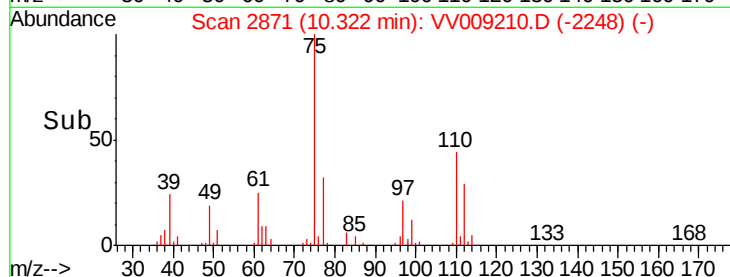
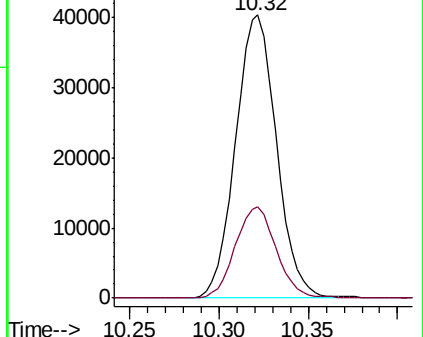
75 100

77 32.3 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VV009210.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009210.D (-2859) (-)



#62

Bromoform

Concen: 25.757 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

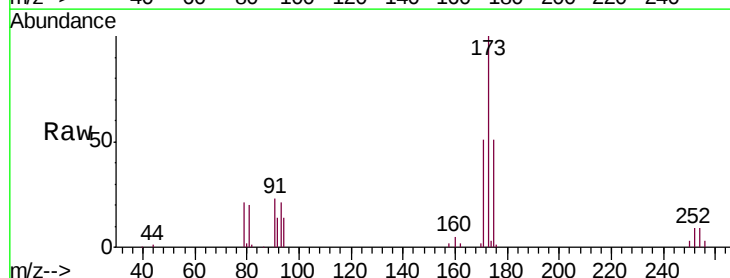
Tgt Ion: 173 Resp: 51241

Ion Ratio Lower Upper

173 100

175 49.4 38.0 57.0

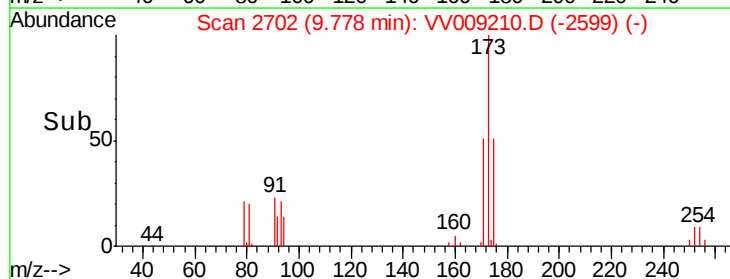
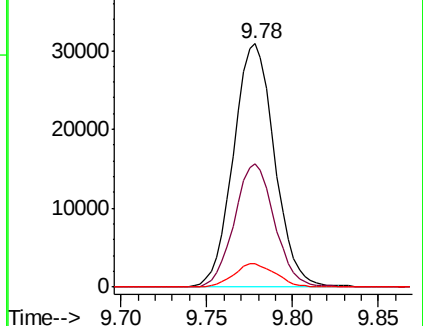
254 9.7 7.7 11.5

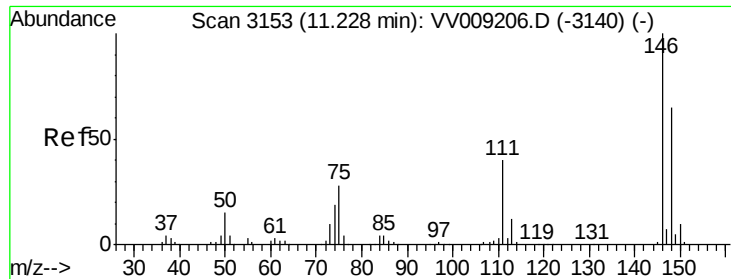


Abundance Ion 173.00 (172.70 to 173.70): VV009210.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009210.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009210.D (-2690) (-)

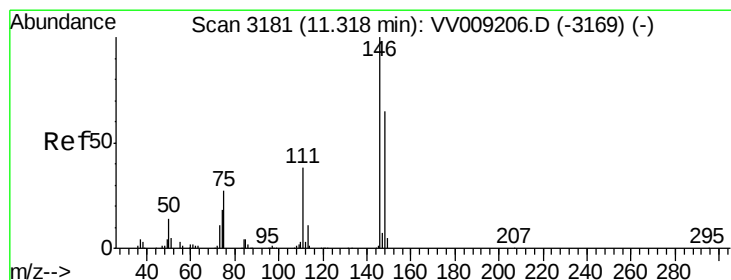
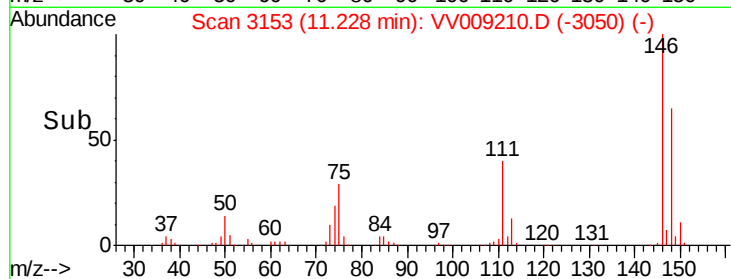
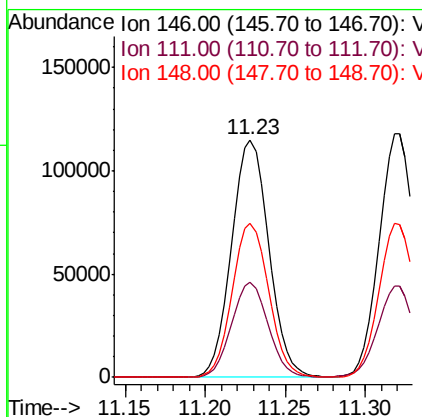
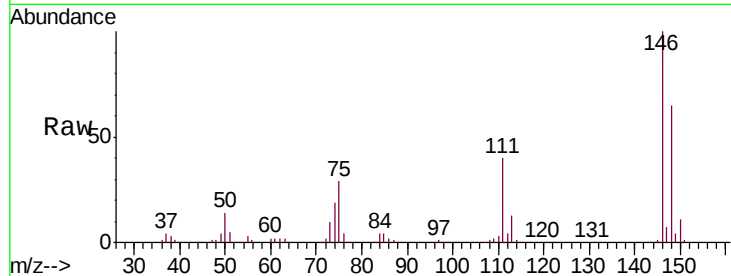




#63
 1,3-Dichlorobenzene
 Concen: 24.799 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

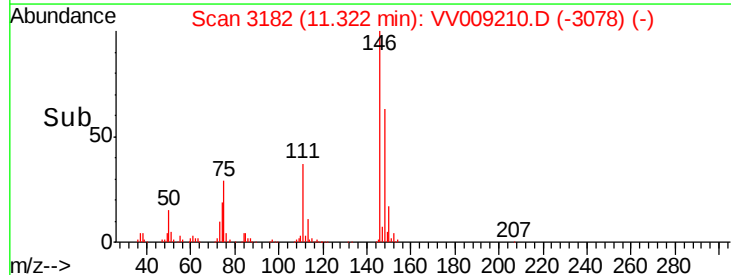
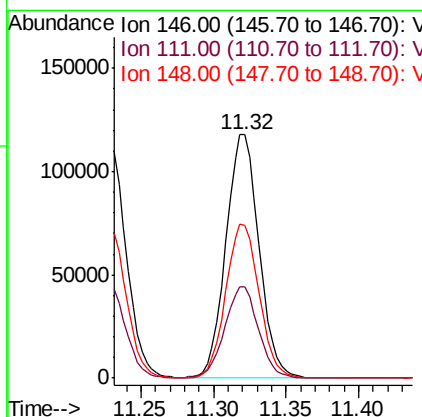
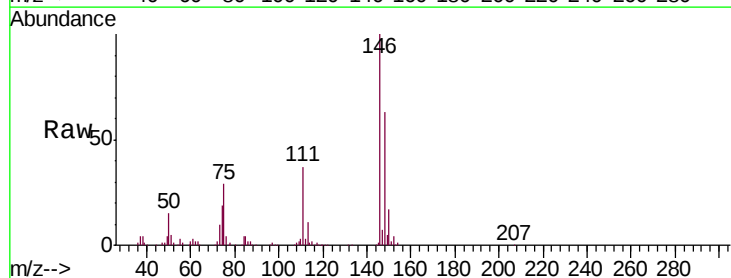
Instrument :
 MSVOA_V
 ClientSampleId :
 VHBLK01

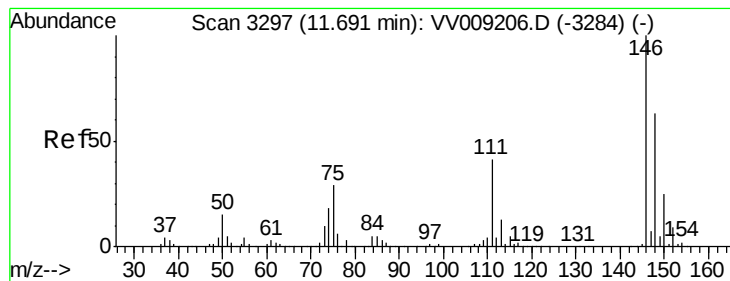
Tgt Ion:146 Resp: 182207
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.2 50.6
 148 64.7 43.8 81.4



#64
 1,4-Dichlorobenzene
 Concen: 24.829 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

Tgt Ion:146 Resp: 185899
 Ion Ratio Lower Upper
 146 100
 111 37.3 26.4 49.0
 148 63.0 44.9 83.3





#65

1,2-Dichlorobenzene

Concen: 25.356 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampled :

VHBLK01

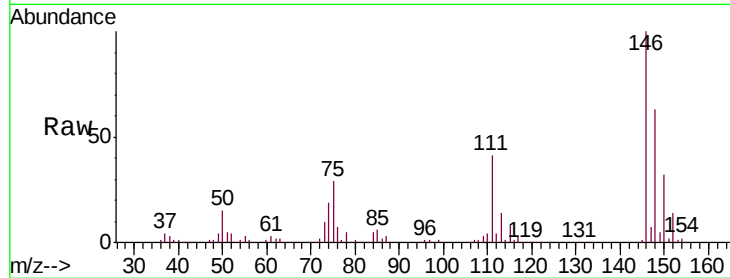
Tgt Ion:146 Resp: 175892

Ion Ratio Lower Upper

146 100

111 40.8 33.0 49.4

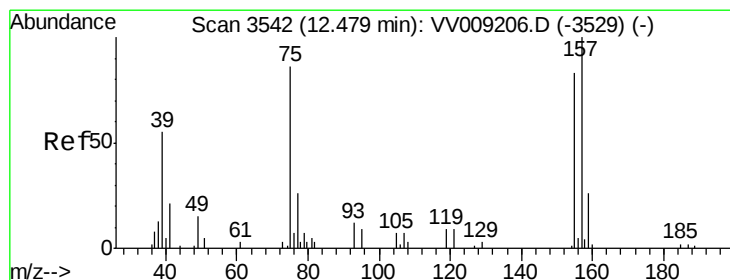
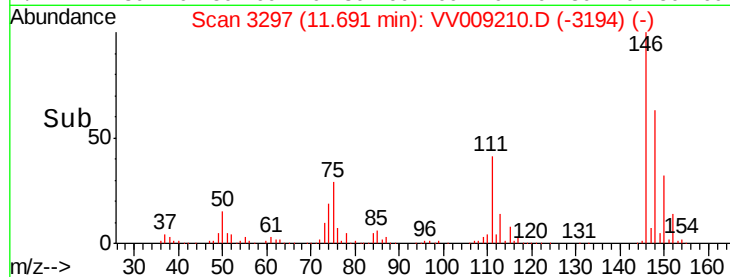
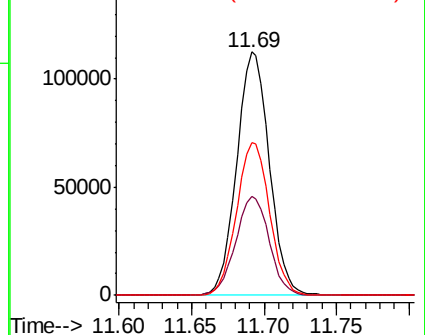
148 62.8 50.1 75.1



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: 24.712 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

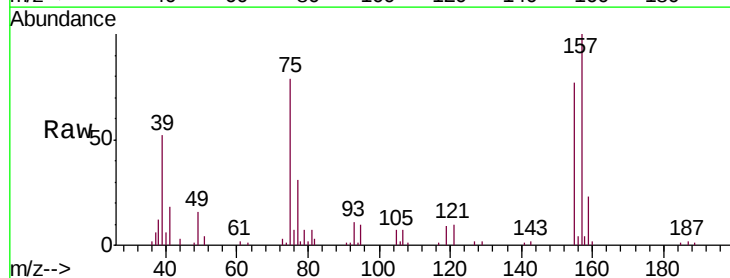
Tgt Ion: 75 Resp: 15371

Ion Ratio Lower Upper

75 100

157 126.9 104.6 156.8

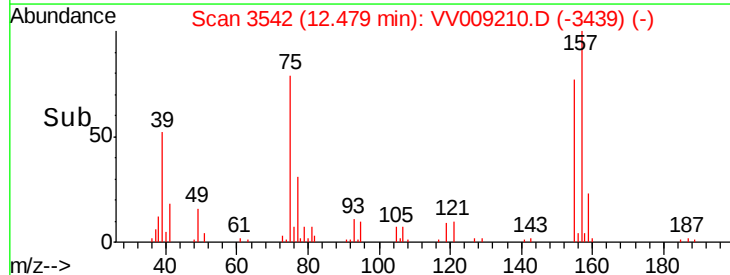
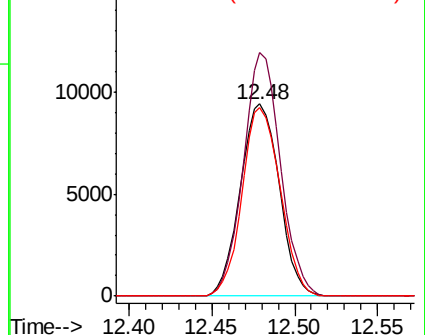
155 98.0 80.1 120.1

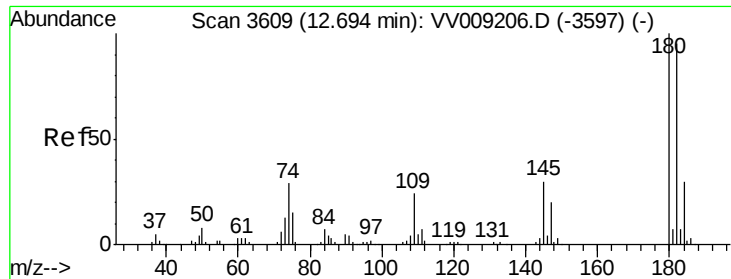


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

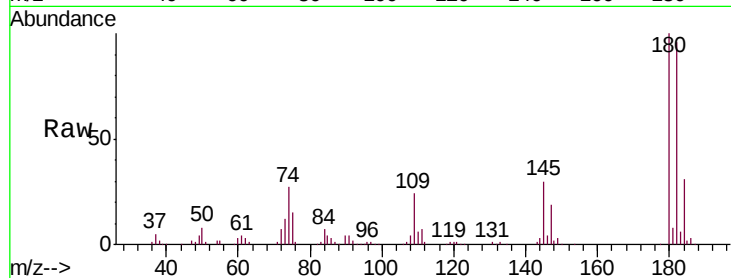




#67
 1,3,5-Trichlorobenzene
 Concen: 24.359 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

Instrument :
 MSVOA_V
 ClientSampleId :
 VHBLK01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.4	114.6
184	30.2	24.5	36.7
145	29.5	24.2	36.2



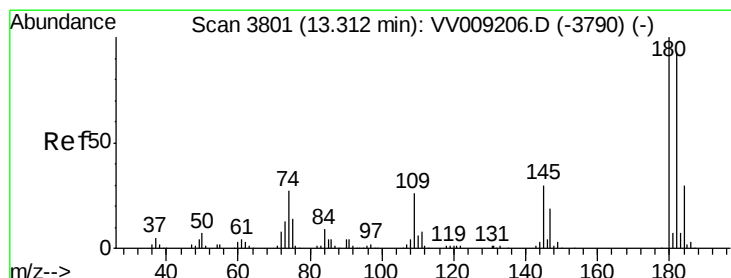
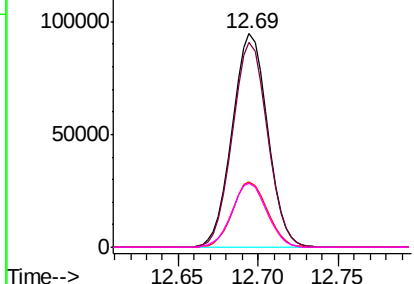
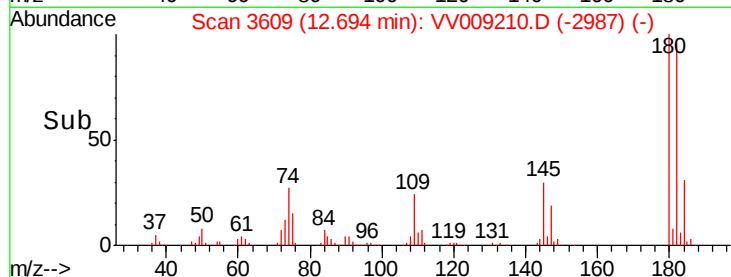
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

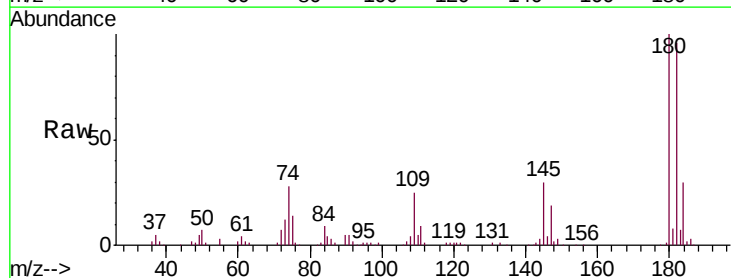
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.123 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009210.D
 Acq: 09 Jan 2019 13:44

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.7	113.5
145	29.7	24.5	36.7

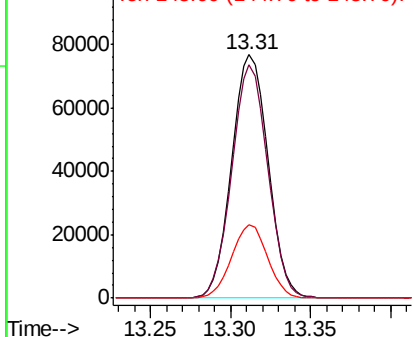
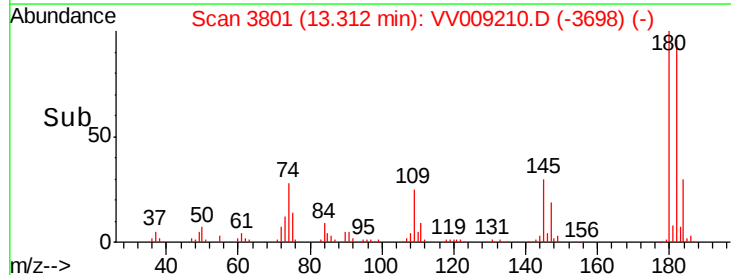


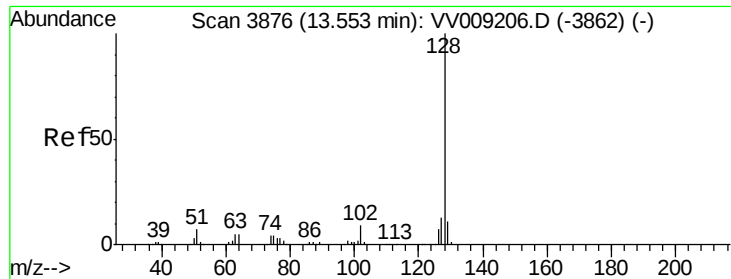
Abundance

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: 24.980 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

Instrument :

MSVOA_V

ClientSampleId :

VHBLK01

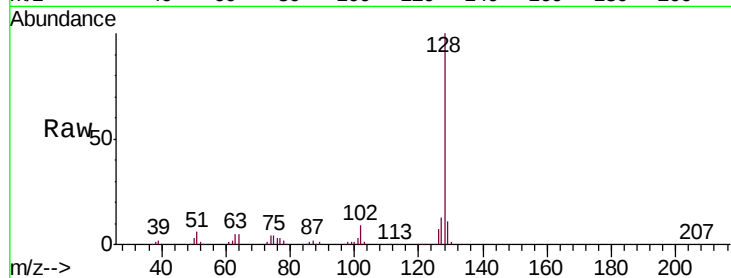
Tgt Ion:128 Resp: 227875

Ion Ratio Lower Upper

128 100

129 11.1 8.7 13.1

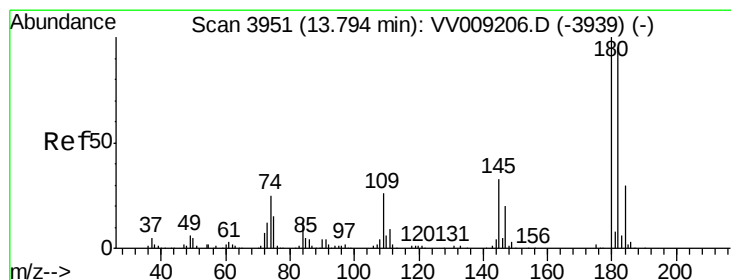
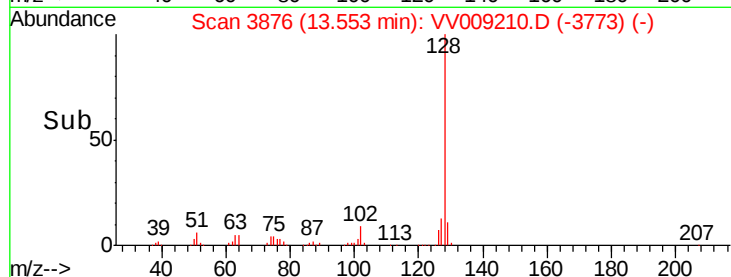
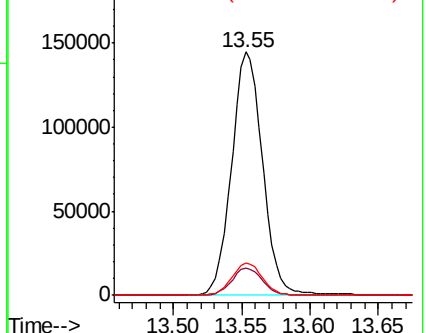
127 13.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 25.239 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV009210.D

Acq: 09 Jan 2019 13:44

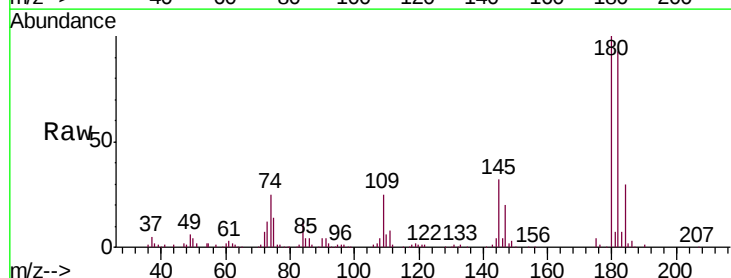
Tgt Ion:180 Resp: 109180

Ion Ratio Lower Upper

180 100

182 95.2 76.8 115.2

145 31.8 25.7 38.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

