

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102820\
 Data File : VV019136.D
 Acq On : 28 Oct 2020 12:35
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Quant Time: Oct 29 03:16:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 03:08:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	228701	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	225635	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	113347	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	76417	36.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	73.56%
7) Chloroethane-d5	1.58	69	66322	39.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.32%
11) 1,1-Dichloroethene-d2	2.12	63	128810	33.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.20%
21) 2-Butanone-d5	3.91	46	113130	80.96	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	80.96%
24) Chloroform-d	4.38	84	163652	45.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.08%
26) 1,2-Dichloroethane-d4	5.06	65	116555	47.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.42%
32) Benzene-d6	5.07	84	305583	44.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.56%
36) 1,2-Dichloropropane-d6	6.09	67	94795	42.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.80%
41) Toluene-d8	7.34	98	281046	45.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.08%
43) trans-1,3-Dichloropropene-	7.64	79	50852	44.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.78%
47) 2-Hexanone-d5	8.11	63	81762	84.11	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.11%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	123929	41.65	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	83.30%
64) 1,2-Dichlorobenzene-d4	11.65	152	119921	50.44	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.88%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4198	2.357 ug/L	99
3) Chloromethane	1.25	50	4725	2.133 ug/L	99
5) Vinyl chloride	1.32	62	4978	2.281 ug/L #	62
6) Bromomethane	1.53	94	3098	2.481 ug/L	97
8) Chloroethane	1.60	64	3023	2.209 ug/L	84
9) Trichlorofluoromethane	1.77	101	7734	2.694 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	4946	3.240 ug/L #	84
12) 1,1-Dichloroethene	2.13	96	4571	2.992 ug/L #	1
13) Acetone	2.19	43	6102	6.443 ug/L	84
14) Carbon disulfide	2.31	76	11386	2.261 ug/L	98
15) Methyl Acetate	2.45	43	3973	1.996 ug/L	92
16) Methylene chloride	2.52	84	4385	2.463 ug/L	96
17) trans-1,2-Dichloroethene	2.78	96	3884	2.406 ug/L	93
18) Methyl tert-butyl Ether	2.79	73	12524	2.393 ug/L	98
19) 1,1-Dichloroethane	3.22	63	7679	2.356 ug/L	93
20) cis-1,2-Dichloroethene	3.94	96	4071	2.359 ug/L	99
23) Bromochloromethane	4.28	128	1492	1.698 ug/L #	74

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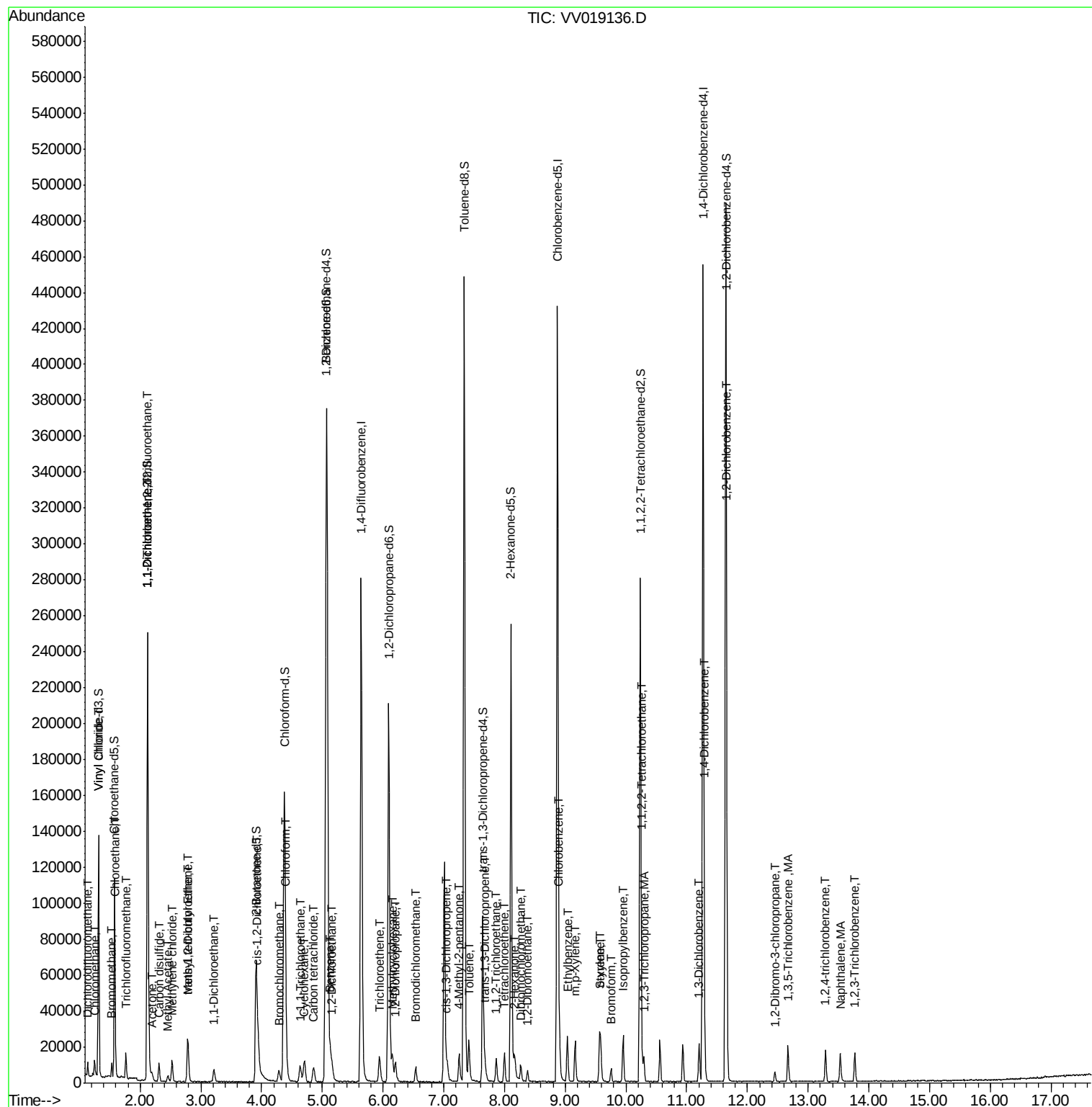
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.41	83	9822	3.059	ug/L	89
27) 1,2-Dichloroethane	5.16	62	6670	2.503	ug/L	96
29) Cyclohexane	4.70	56	5661	2.096	ug/L #	73
30) 1,1,1-Trichloroethane	4.64	97	7452	2.653	ug/L #	86
31) Carbon tetrachloride	4.86	117	6197	2.530	ug/L	93
33) Benzene	5.13	78	15772	2.283	ug/L	100
34) Trichloroethene	5.95	95	4240	2.429	ug/L	96
35) Methylcyclohexane	6.16	83	5789	2.424	ug/L	92
37) 1,2-Dichloropropane	6.20	63	4355	2.290	ug/L #	87
38) Bromodichloromethane	6.54	83	5892	2.449	ug/L	97
39) cis-1,3-Dichloropropene	7.05	75	6027	2.145	ug/L	93
40) 4-Methyl-2-pentanone	7.25	43	10334	4.028	ug/L	98
42) Toluene	7.41	91	17220	2.429	ug/L	91
44) trans-1,3-Dichloropropene	7.68	75	6771	2.429	ug/L	94
45) 1,1,2-Trichloroethane	7.87	97	3948	2.351	ug/L	93
46) Tetrachloroethene	8.00	164	3848	2.873	ug/L	92
48) 2-Hexanone	8.17	43	8826	4.458	ug/L #	90
49) Dibromochloromethane	8.27	129	4833	2.633	ug/L	90
50) 1,2-Dibromoethane	8.38	107	4173	2.394	ug/L #	92
51) Chlorobenzene	8.90	112	11403	2.508	ug/L	96
52) Ethylbenzene	9.04	91	17403	2.270	ug/L	95
53) m,p-Xylene	9.16	106	6756	2.407	ug/L	94
54) o-xylene	9.57	106	6409	2.372	ug/L	100
55) Styrene	9.59	104	10098	2.107	ug/L	99
56) Isopropylbenzene	9.95	105	16000	2.252	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.26	83	6650	2.406	ug/L #	93
59) 1,2,3-Trichloropropane	10.29	75	5244	2.358	ug/L	97
61) Bromoform	9.76	173	3521	2.758	ug/L #	41
62) 1,3-Dichlorobenzene	11.21	146	9427	2.771	ug/L	96
63) 1,4-Dichlorobenzene	11.30	146	9928	2.793	ug/L	97
65) 1,2-Dichlorobenzene	11.67	146	9499	2.770	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.45	75	1479	2.441	ug/L	87
67) 1,3,5-Trichlorobenzene	12.67	180	6532	2.812	ug/L	97
68) 1,2,4-trichlorobenzene	13.29	180	5819	2.657	ug/L	94
69) Naphthalene	13.53	128	13643	2.022	ug/L	98
70) 1,2,3-Trichlorobenzene	13.77	180	5120	2.307	ug/L	95

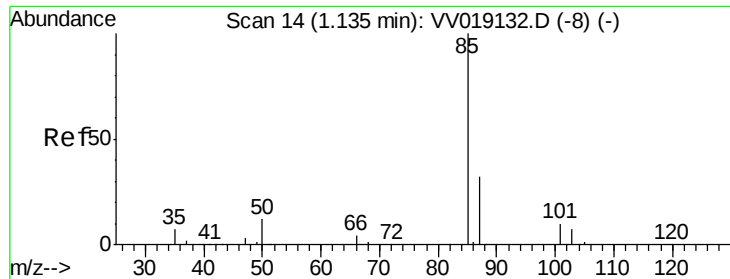
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.357 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

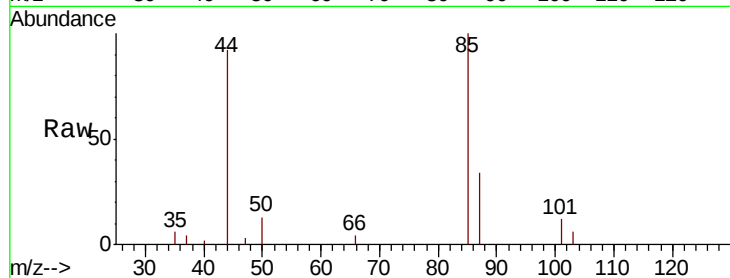
MDL02

Tot Ion: 85 Resp: 4198

Ion Ratio Lower Upper

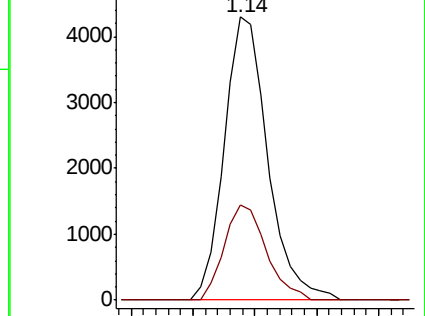
85 100

87 32.6 25.5 38.3

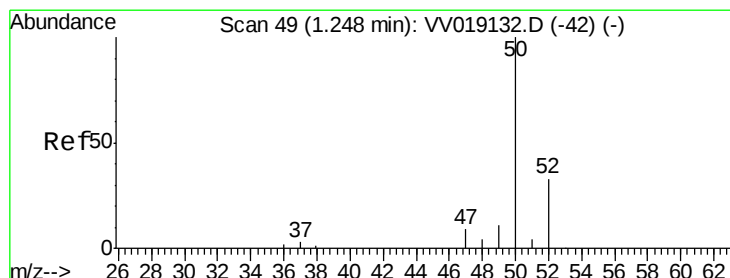
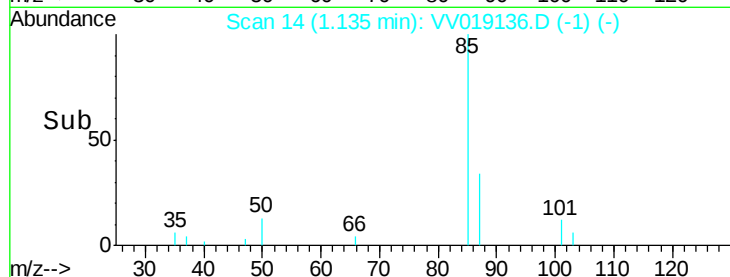


Abundance Ion 85.00 (84.70 to 85.70): VV019132.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV019136.D (-1) (-)



Time-->



#3

Chloromethane

Concen: 2.133 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019136.D

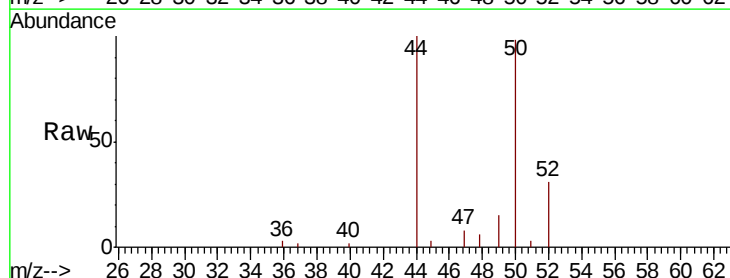
Acq: 28 Oct 2020 12:35

Tgt Ion: 50 Resp: 4725

Ion Ratio Lower Upper

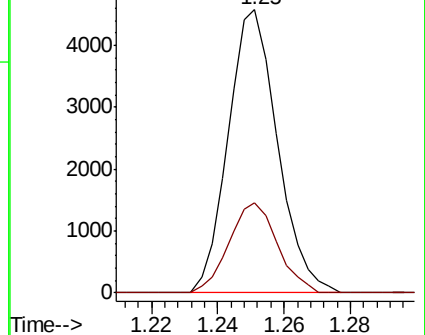
50 100

52 31.8 22.7 42.1

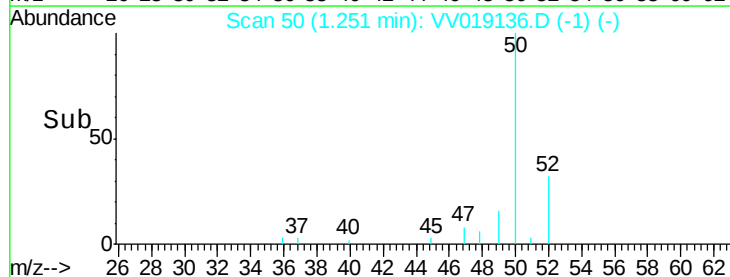


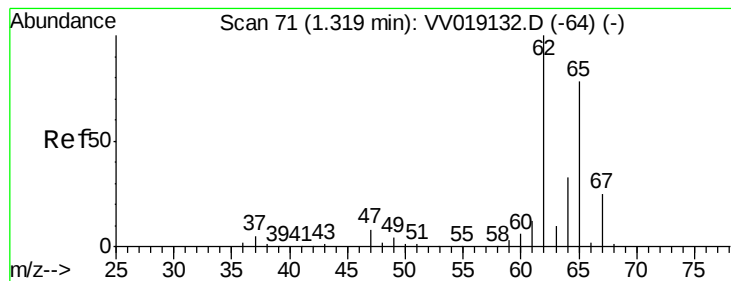
Abundance Ion 50.00 (49.70 to 50.70): VV019132.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019136.D (-1) (-)



Time-->





#5

Vinyl chloride

Concen: 2.281 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleID :

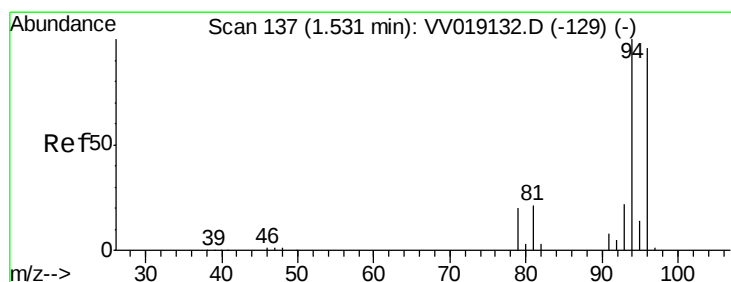
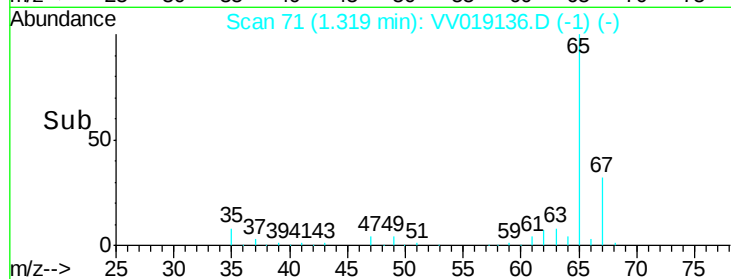
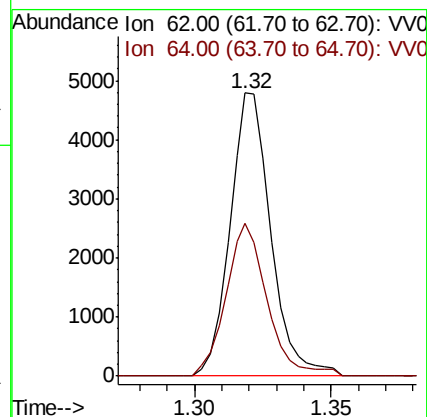
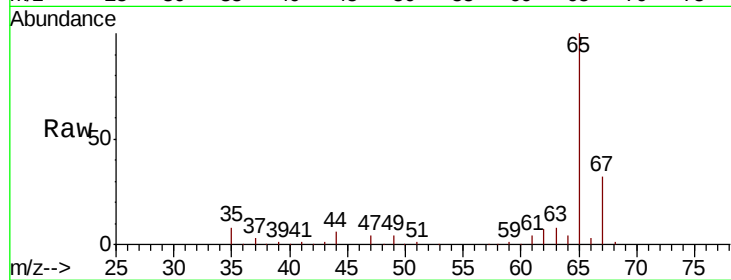
MDL02

Tot Ion: 62 Resp: 4978

Ion Ratio Lower Upper

62 100

64 54.0 22.9 42.5#



#6

Bromomethane

Concen: 2.481 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV019136.D

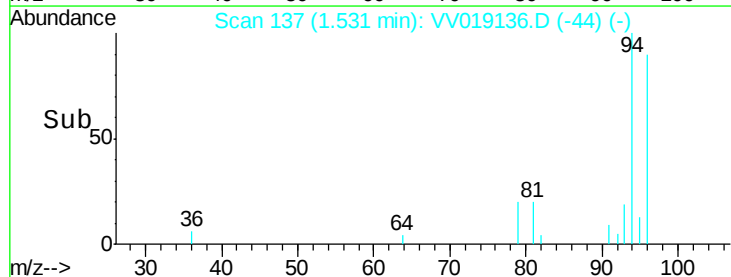
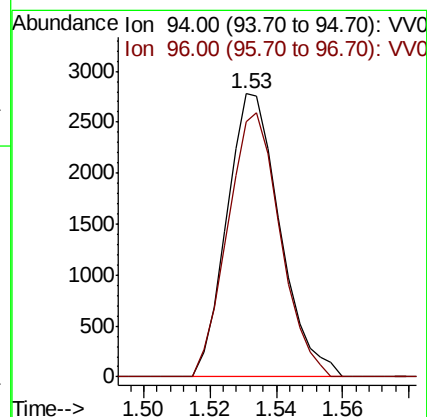
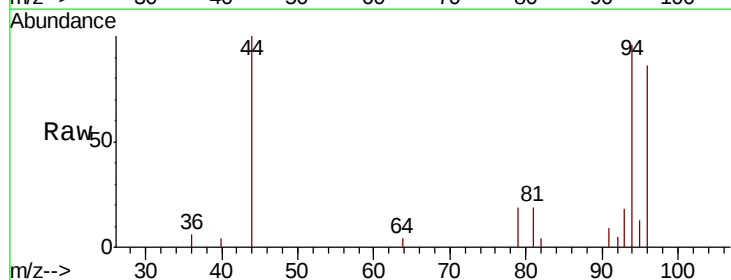
Acq: 28 Oct 2020 12:35

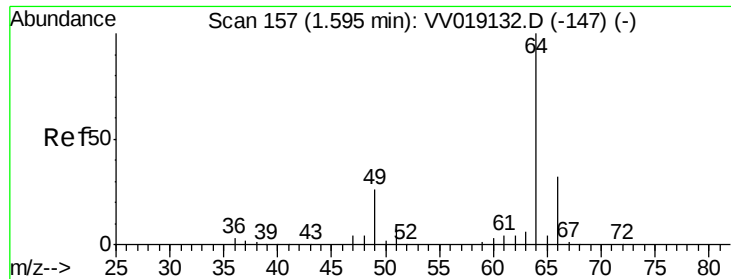
Tgt Ion: 94 Resp: 3098

Ion Ratio Lower Upper

94 100

96 90.2 65.3 121.3





#8

Chloroethane

Concen: 2.209 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

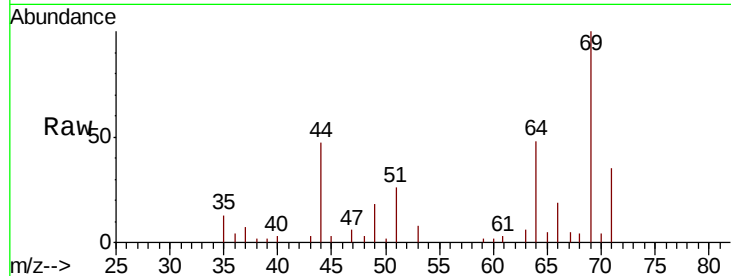
MDL02

Tot Ion: 64 Resp: 3023

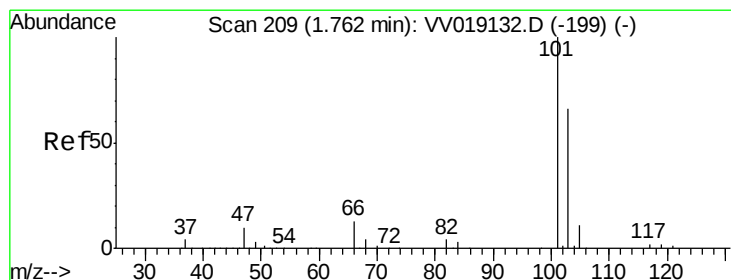
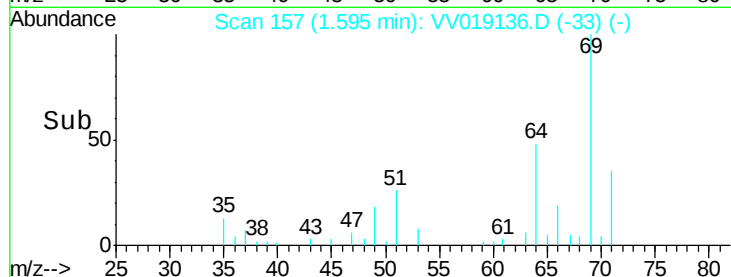
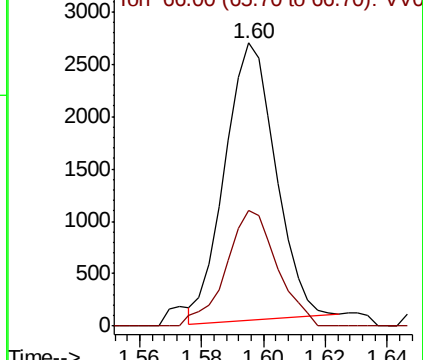
Ion Ratio Lower Upper

64 100

66 41.0 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV019136.D (-147) (-)



#9

Trichlorofluoromethane

Concen: 2.694 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019136.D

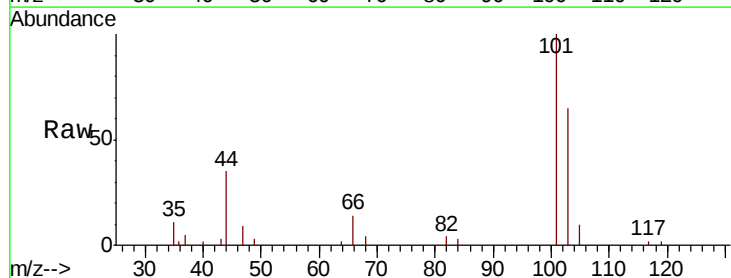
Acq: 28 Oct 2020 12:35

Tgt Ion: 101 Resp: 7734

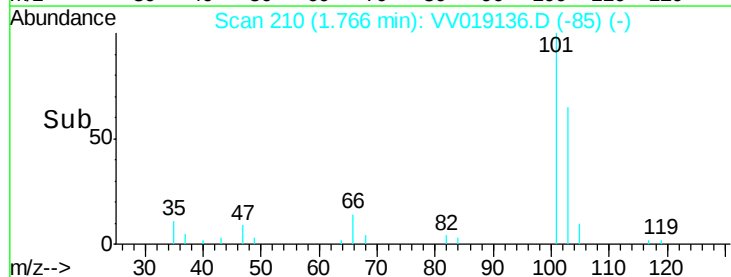
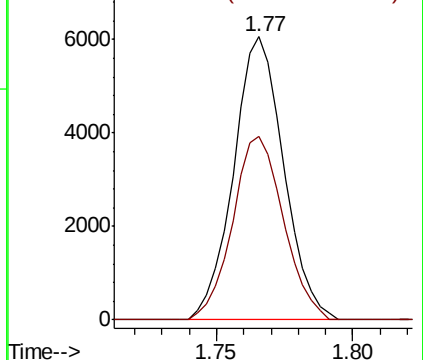
Ion Ratio Lower Upper

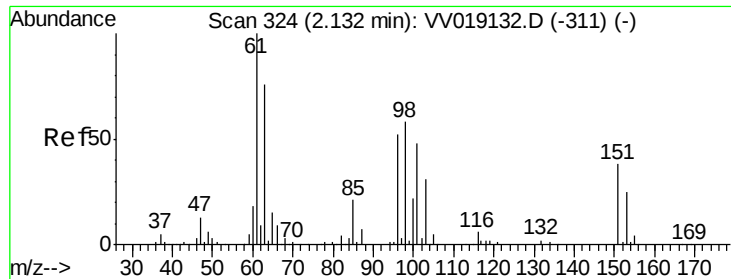
101 100

103 65.6 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VV019136.D (-199) (-)





#10

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

Concen: 3.240 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

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MSVOA_V

ClientSampleId :

MDL02

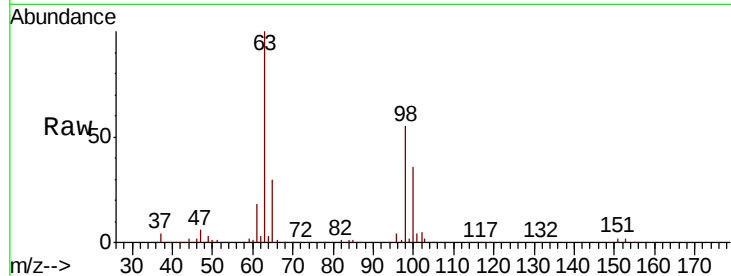
Tot Ion:101 Resp: 4946

Ion Ratio Lower Upper

101 100

85 36.4 36.9 55.3#

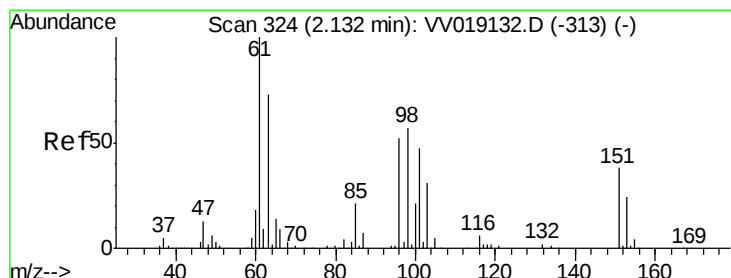
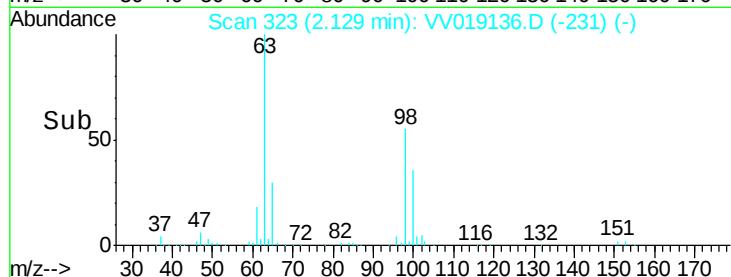
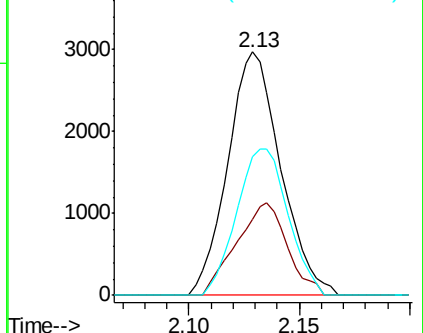
151 58.3 58.2 87.2



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: 2.992 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

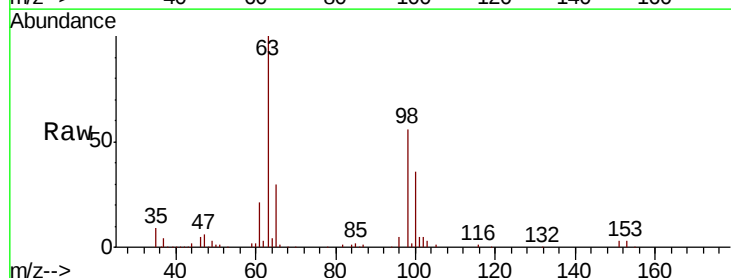
Tgt Ion: 96 Resp: 4571

Ion Ratio Lower Upper

96 100

61 380.7 138.7 257.7#

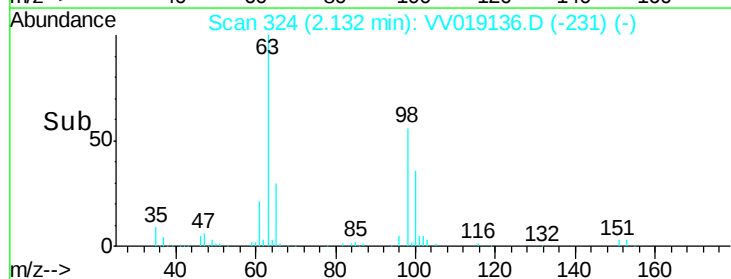
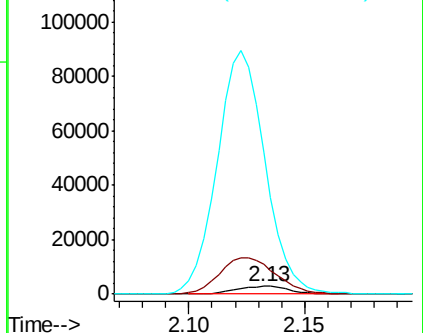
63 1827.2 126.3 234.6#

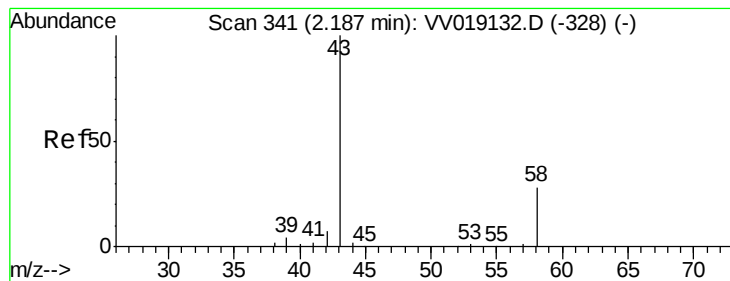


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.443 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampled :

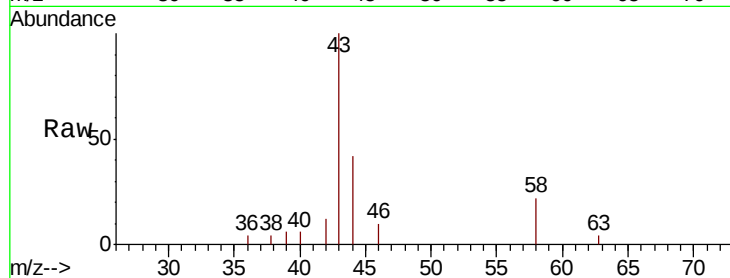
MDL02

Tot Ion: 43 Resp: 6102

Ion Ratio Lower Upper

43 100

58 21.4 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VV019136.D (-248) (-)

Ion 58.00 (57.70 to 58.70): VV019136.D (-248) (-)

2.19

3000

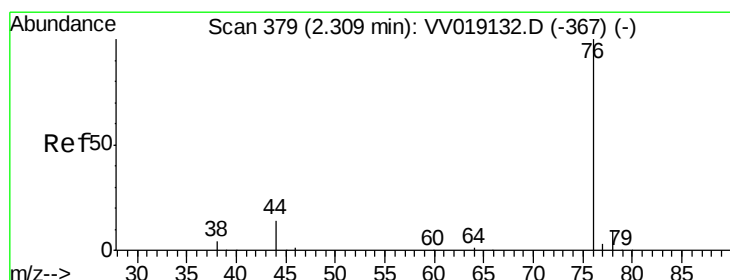
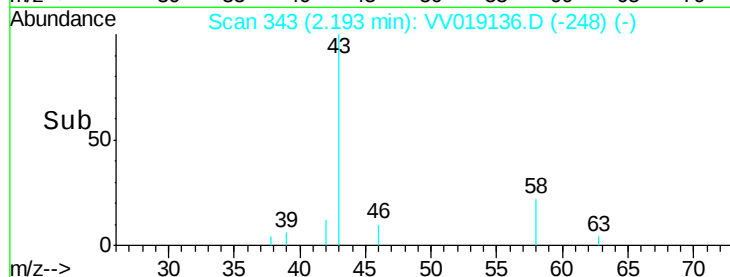
2000

1000

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 2.261 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019136.D

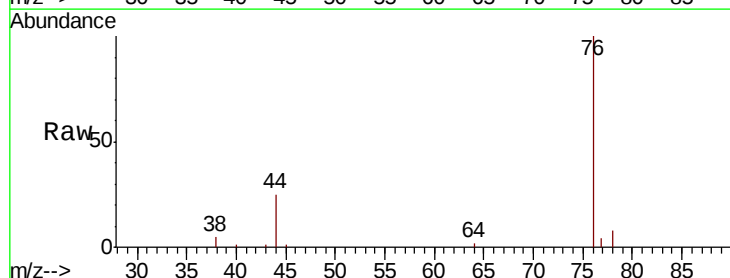
Acq: 28 Oct 2020 12:35

Tgt Ion: 76 Resp: 11386

Ion Ratio Lower Upper

76 100

78 8.4 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019136.D (-286) (-)

Ion 78.00 (77.70 to 78.70): VV019136.D (-286) (-)

2.31

8000

6000

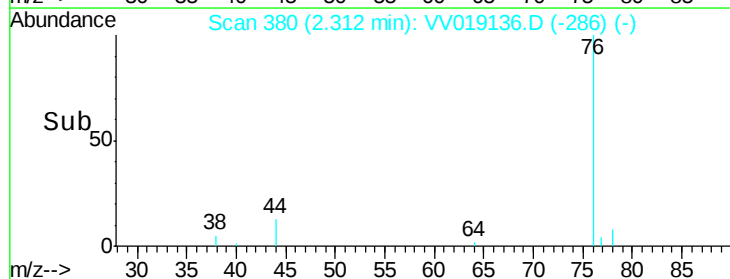
4000

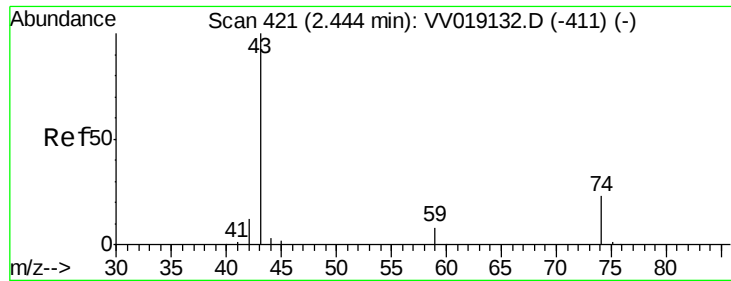
2000

0

Time-->

2.25 2.30 2.35

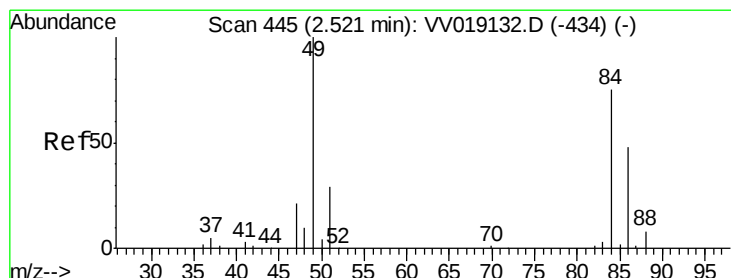
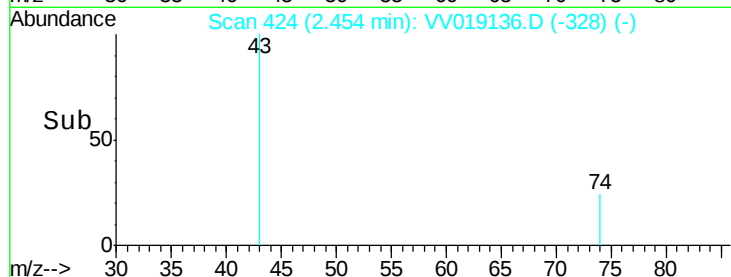
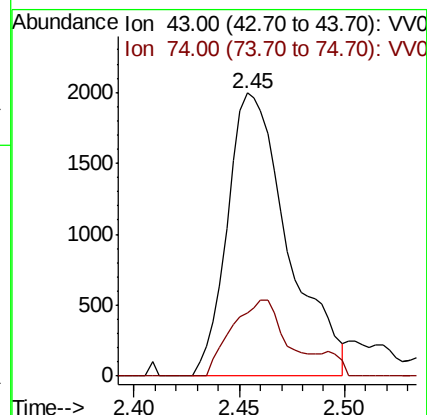
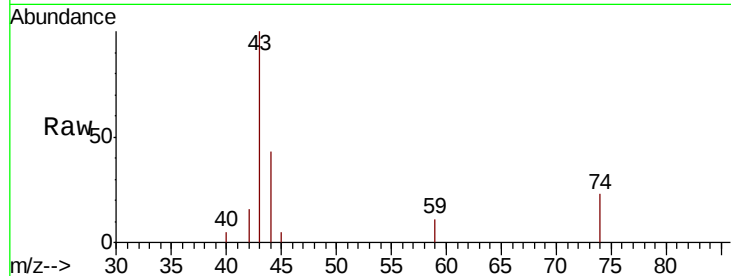




#15
Methvl Acetate
Concen: 1.996 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.01 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

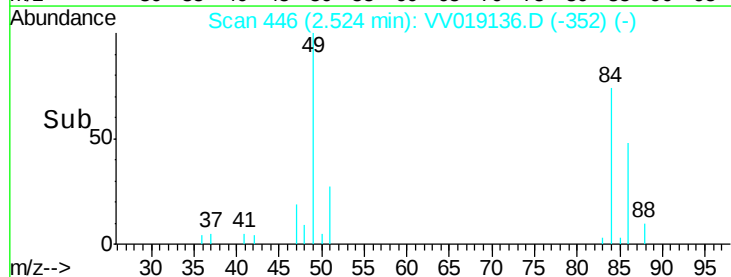
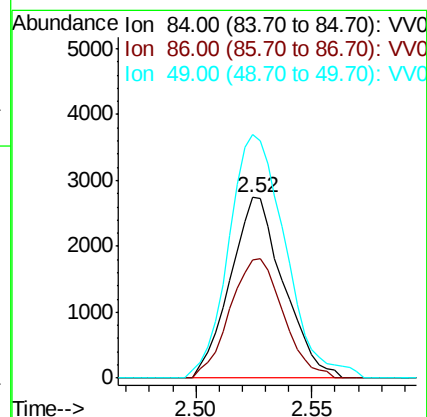
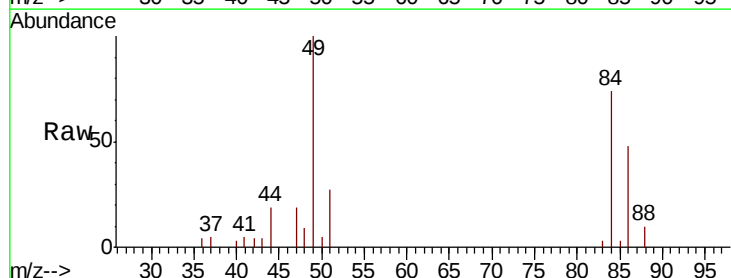
Instrument :
MSVOA_V
ClientSampled :
MDL02

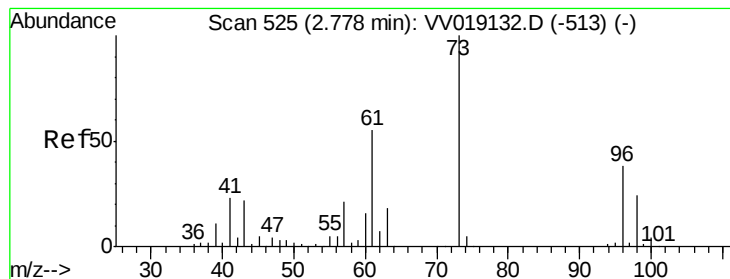
Tot Ion: 43 Resp: 3973
Ion Ratio Lower Upper
43 100
74 24.4 16.4 24.6



#16
Methylene chloride
Concen: 2.463 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

Tgt Ion: 84 Resp: 4385
Ion Ratio Lower Upper
84 100
86 65.5 44.2 82.2
49 135.0 98.0 182.0





#17

trans-1,2-Dichloroethene

Concen: 2.406 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

MDL02

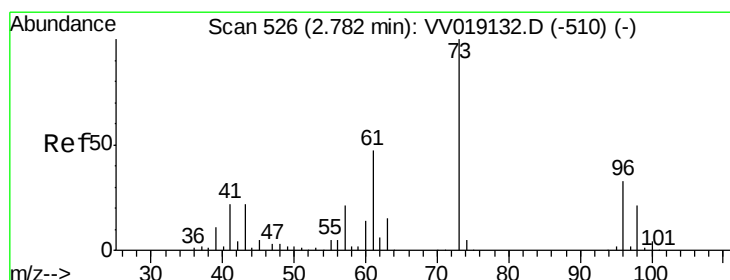
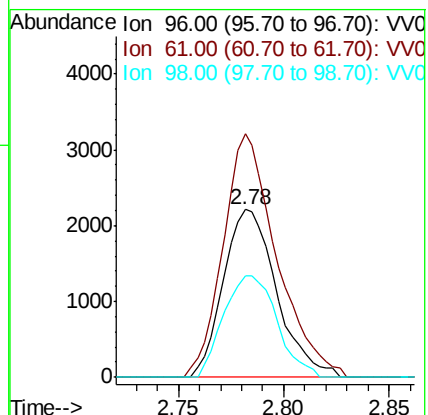
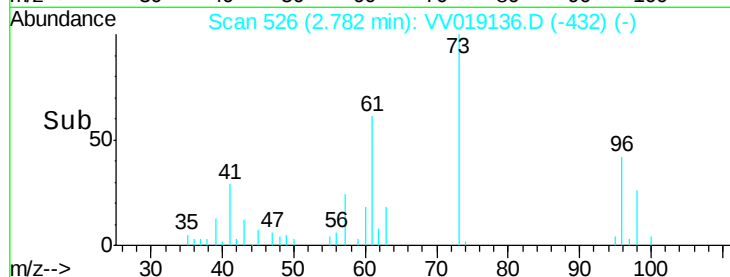
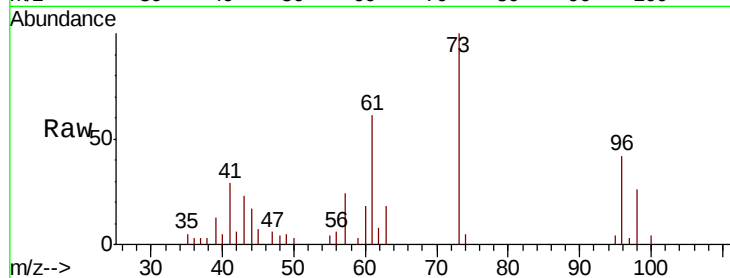
Tot Ion: 96 Resp: 3884

Ion Ratio Lower Upper

96 100

61 145.4 108.6 201.8

98 60.5 45.7 84.9



#18

Methyl tert-butyl Ether

Concen: 2.393 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

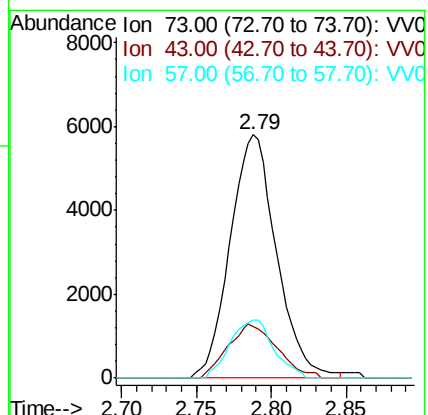
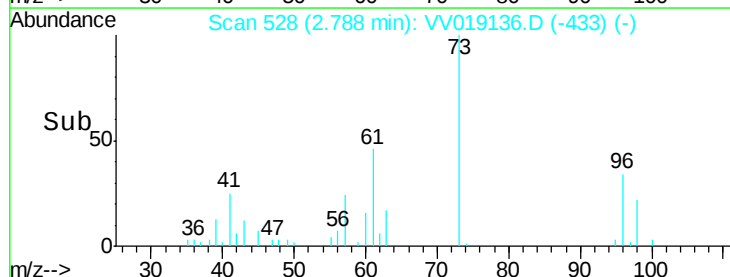
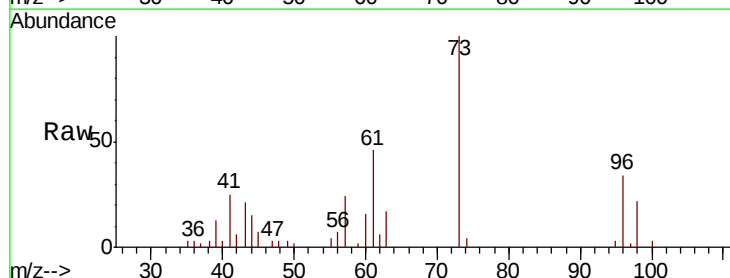
Tgt Ion: 73 Resp: 12524

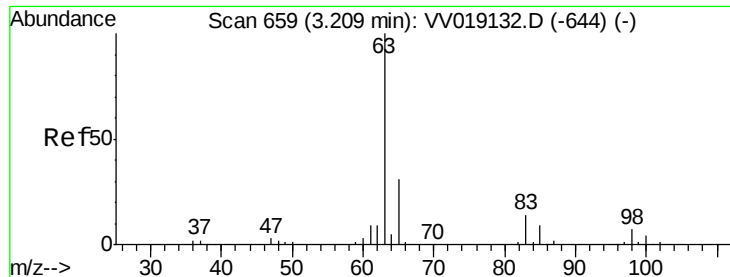
Ion Ratio Lower Upper

73 100

43 23.2 17.2 25.8

57 22.4 18.5 27.7

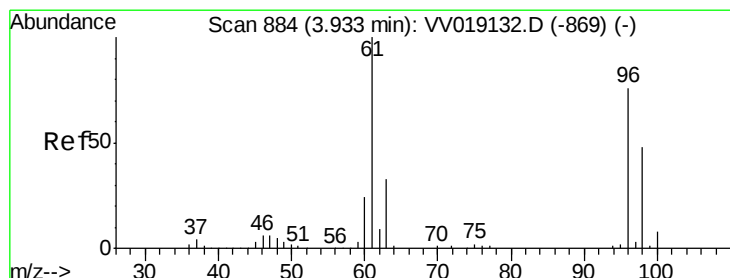
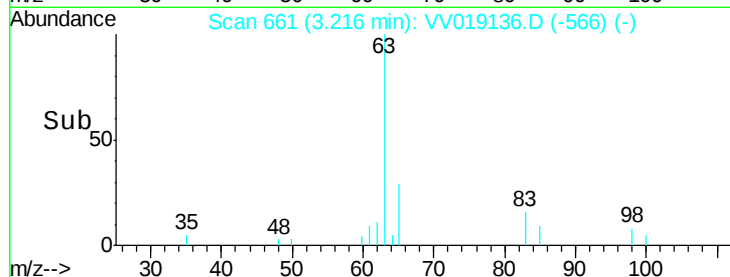
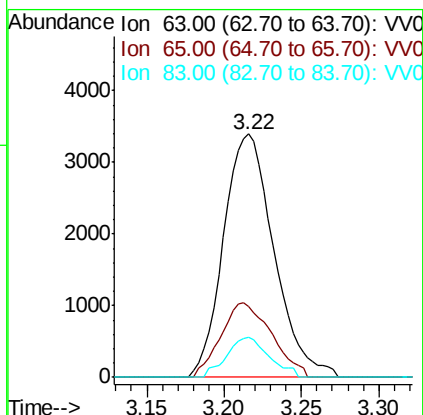
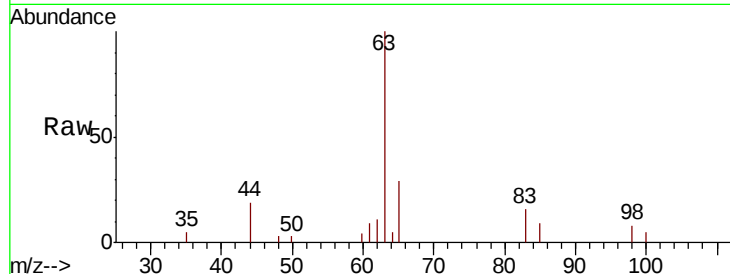




#19
 1,1-Dichloroethane
 Concen: 2.356 ug/L
 RT: 3.22 min Scan# 661
 Delta R.T. 0.01 min
 Lab File: VV019136.D
 Acq: 28 Oct 2020 12:35

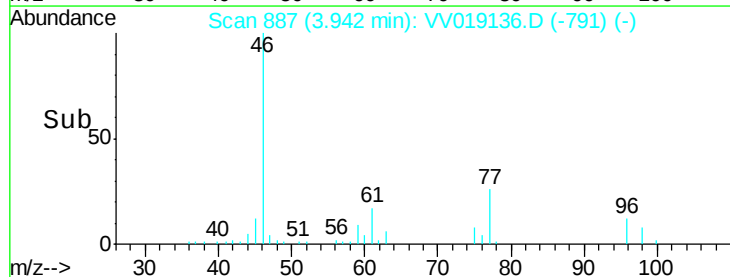
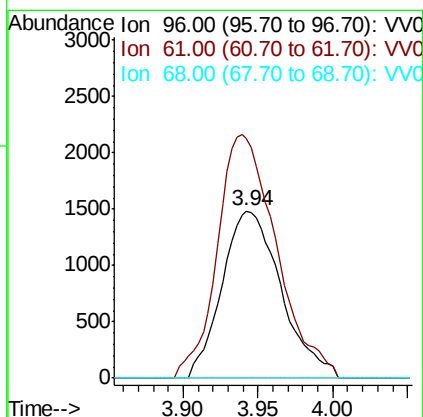
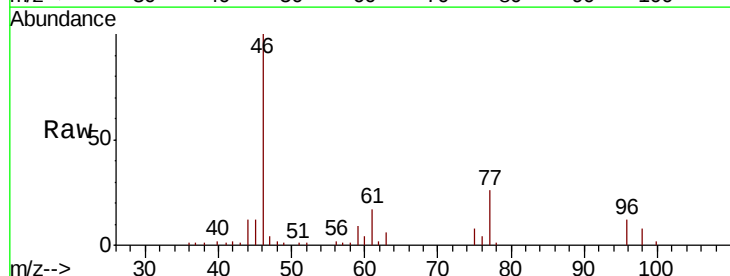
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

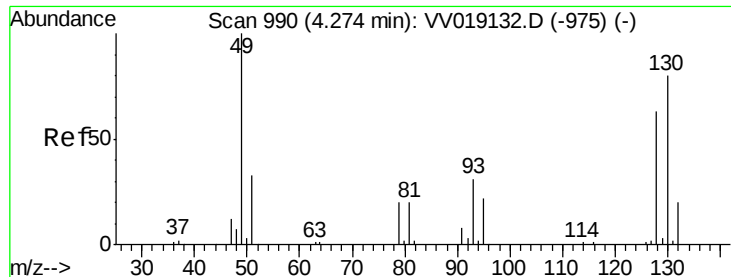
Tot Ion: 63 Resp: 7679
 Ion Ratio Lower Upper
 63 100
 65 29.0 22.7 42.1
 83 16.5 9.0 16.8



#20
 cis-1,2-Dichloroethene
 Concen: 2.359 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.01 min
 Lab File: VV019136.D
 Acq: 28 Oct 2020 12:35

Tgt Ion: 96 Resp: 4071
 Ion Ratio Lower Upper
 96 100
 61 143.6 99.4 184.6
 68 0.0 0.0 0.0





#23

Bromochloromethane

Concen: 1.698 ug/L

RT: 4.28 min Scan# 993

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion:128 Resp: 1492

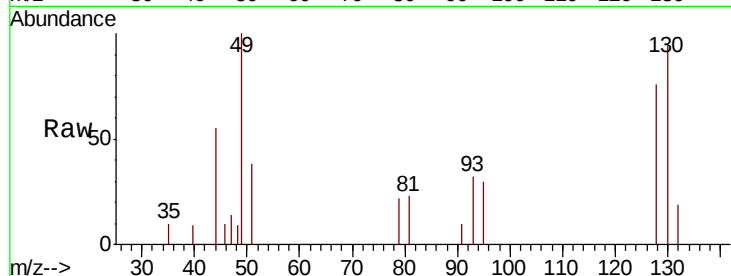
Ion Ratio Lower Upper

128 100

49 132.1 137.1 254.5#

130 123.9 92.0 170.9

51 50.6 49.0 73.4

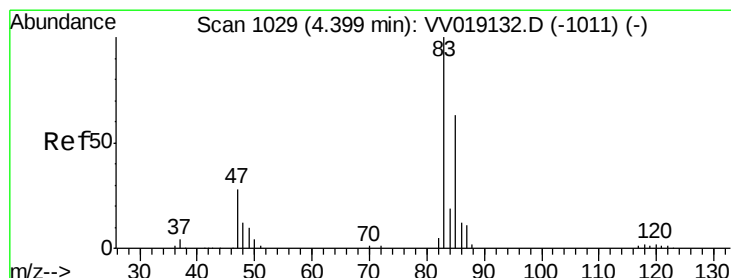
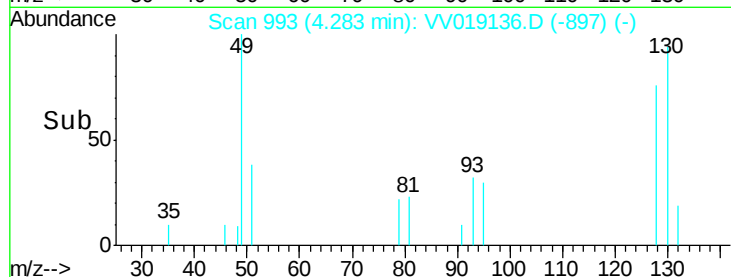
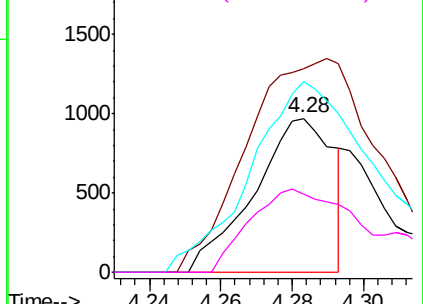


Abundance Ion 128.00 (127.70 to 128.70): V

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: 3.059 ug/L

RT: 4.41 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VV019136.D

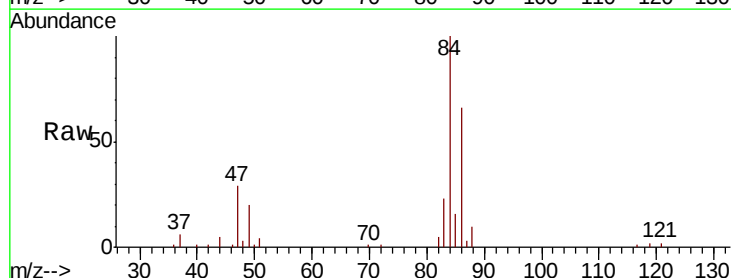
Acq: 28 Oct 2020 12:35

Tgt Ion: 83 Resp: 9822

Ion Ratio Lower Upper

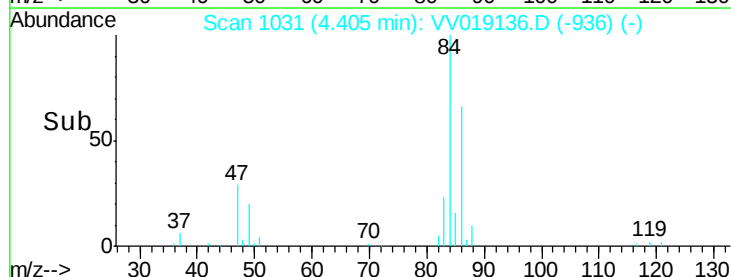
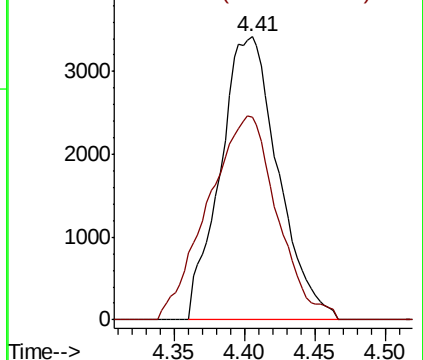
83 100

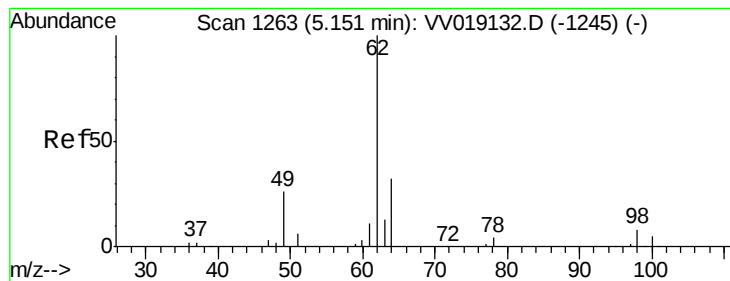
85 71.8 44.5 82.7



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 2.503 ug/L

RT: 5.16 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

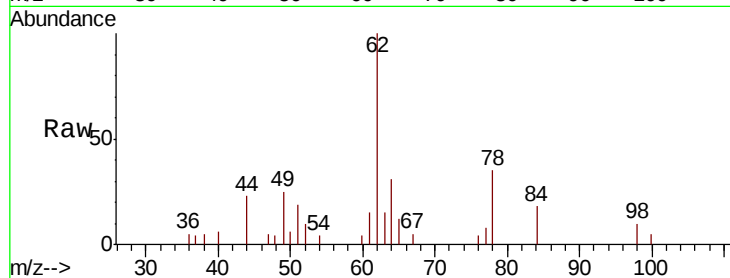
MDL02

Tot Ion: 62 Resp: 6670

Ion Ratio Lower Upper

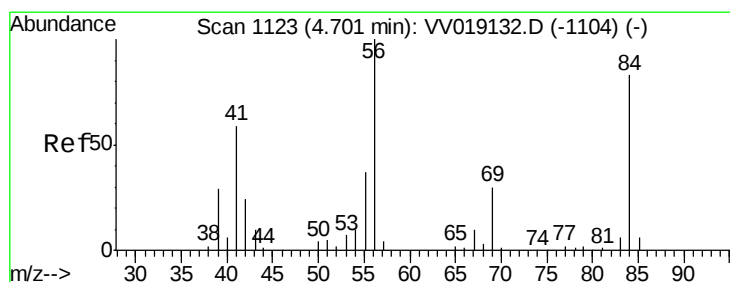
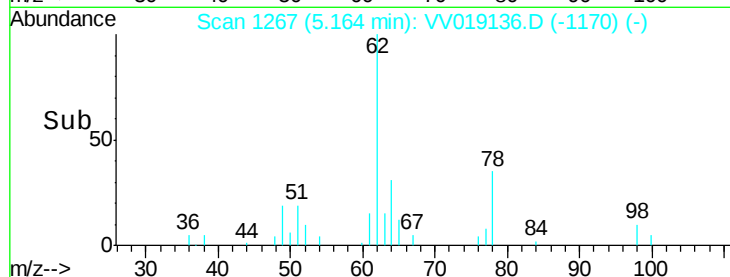
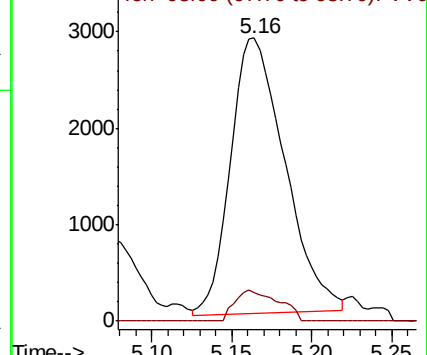
62 100

98 10.1 6.9 10.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#29

Cyclohexane

Concen: 2.096 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

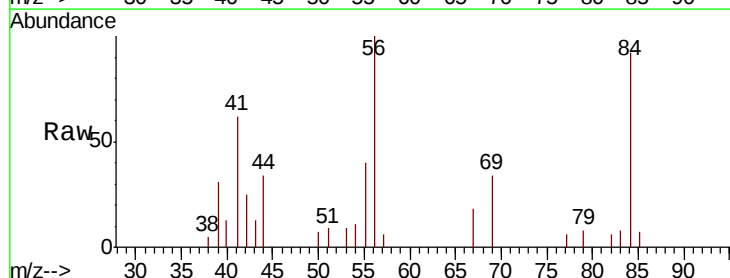
Tgt Ion: 56 Resp: 5661

Ion Ratio Lower Upper

56 100

69 31.0 22.7 34.1

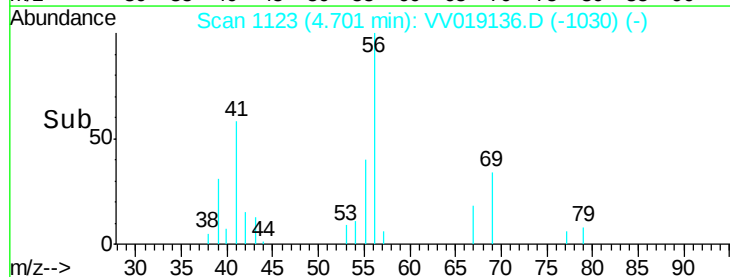
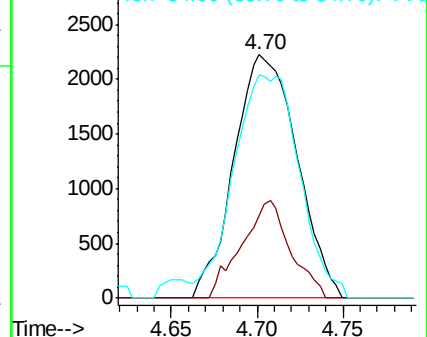
84 48.8 63.5 95.3#

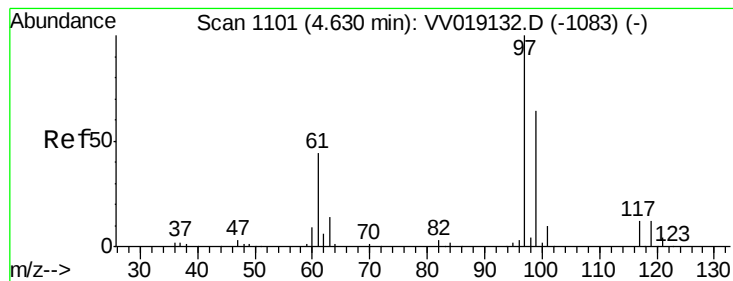


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0





#30

1,1,1-Trichloroethane

Concen: 2.653 ug/L

RT: 4.64 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

MDL02

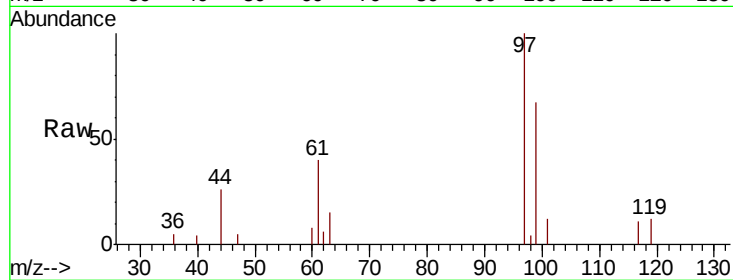
Tot Ion: 97 Resp: 7452

Ion Ratio Lower Upper

97 100

99 63.1 50.5 75.7

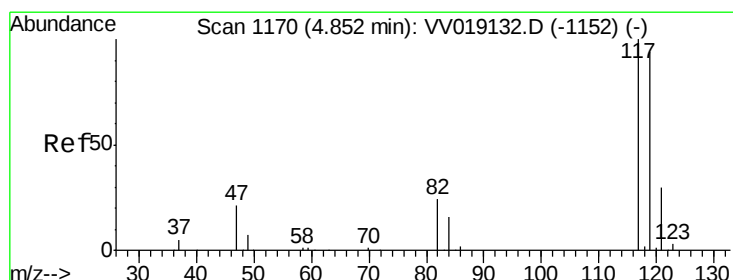
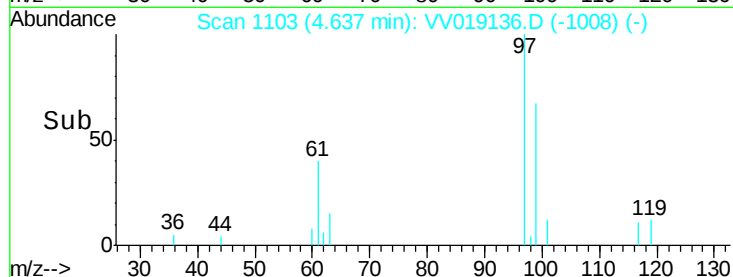
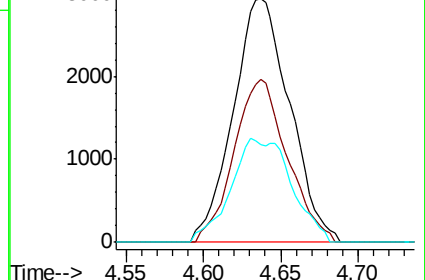
61 26.3 38.1 57.1#



Abundance Ion 97.00 (96.70 to 97.70): VV019136.D (-1083) (-)

Ion 99.00 (98.70 to 99.70): VV019136.D (-1083) (-)

Ion 61.05 (60.75 to 61.75): VV019136.D (-1083) (-)



#31

Carbon tetrachloride

Concen: 2.530 ug/L

RT: 4.86 min Scan# 1172

Delta R.T. 0.01 min

Lab File: VV019136.D

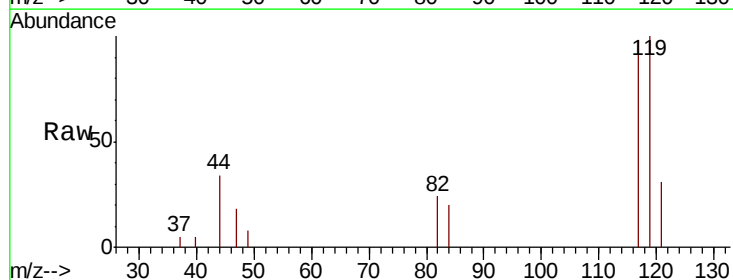
Acq: 28 Oct 2020 12:35

Tgt Ion: 117 Resp: 6197

Ion Ratio Lower Upper

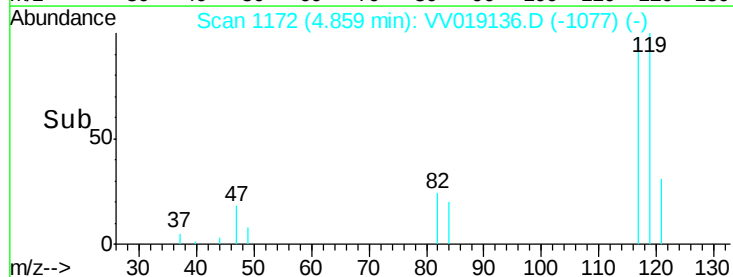
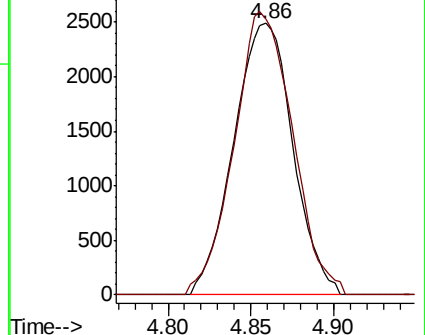
117 100

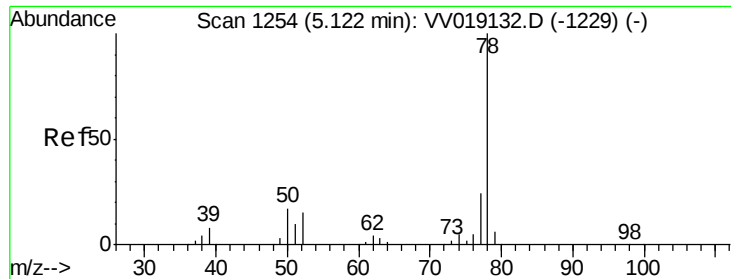
119 103.0 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): VV019136.D (-1077) (-)

Ion 119.00 (118.70 to 119.70): VV019136.D (-1077) (-)

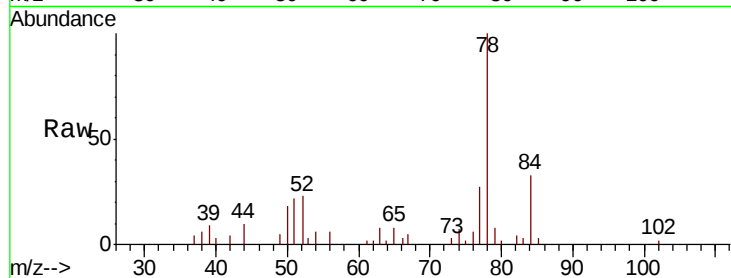




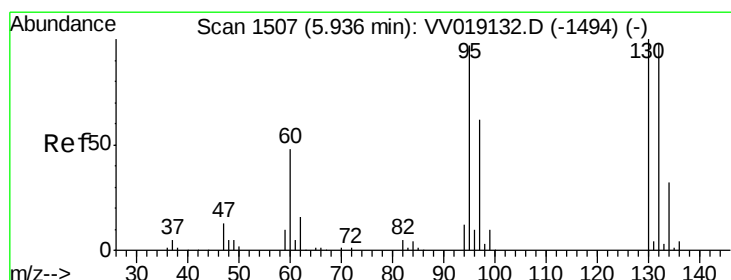
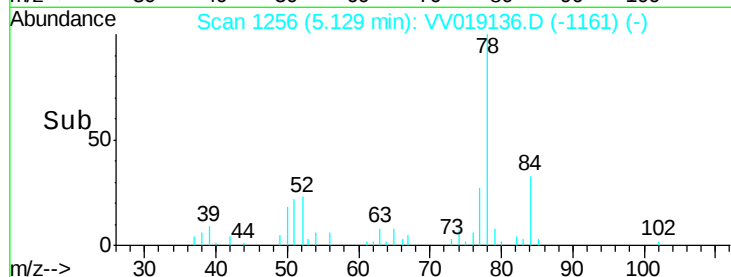
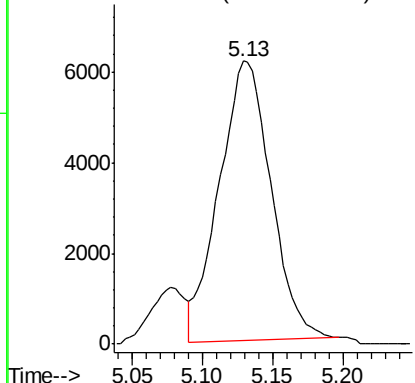
#33
Benzene
Concen: 2.283 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.01 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

Instrument :
MSVOA_V
ClientSampled :
MDL02

Tgt Ion: 78 Resp: 15772



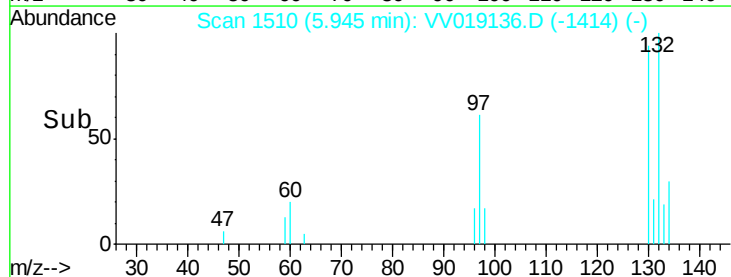
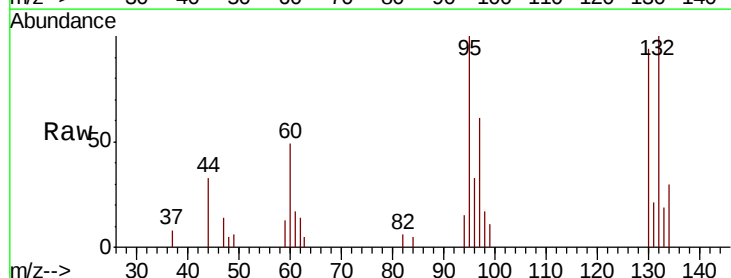
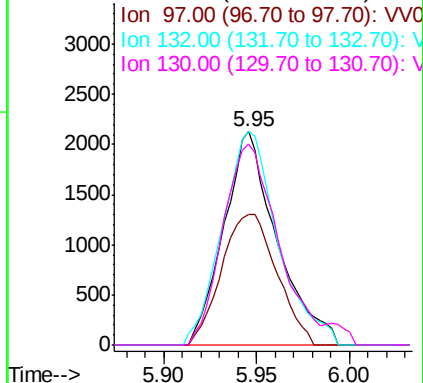
Abundance Ion 78.00 (77.70 to 78.70): VV0

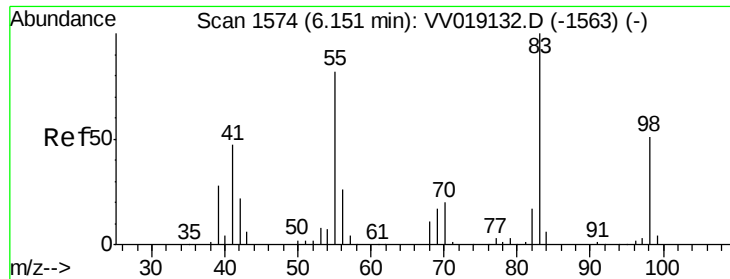


#34
Trichloroethene
Concen: 2.429 ug/L
RT: 5.95 min Scan# 1510
Delta R.T. 0.01 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

Tgt Ion: 95 Resp: 4240
Ion Ratio Lower Upper
95 100
97 61.3 44.6 82.8
132 100.1 66.0 122.6
130 94.4 67.6 125.6

Abundance Ion 95.00 (94.70 to 95.70): VV0

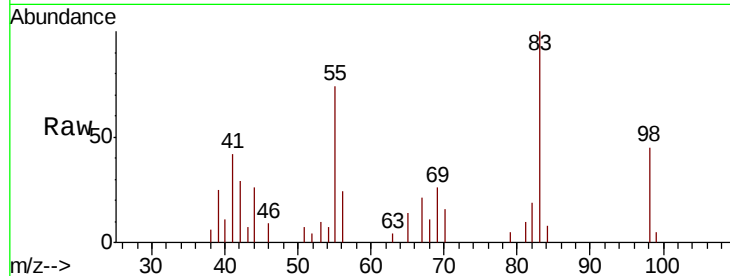




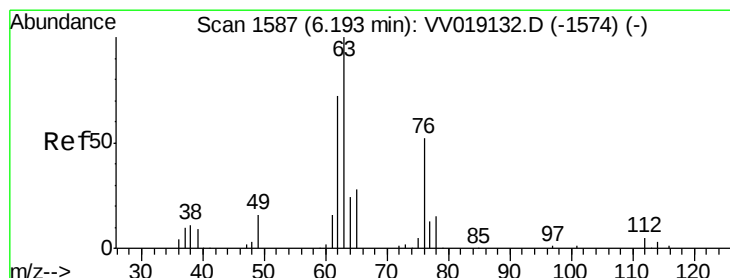
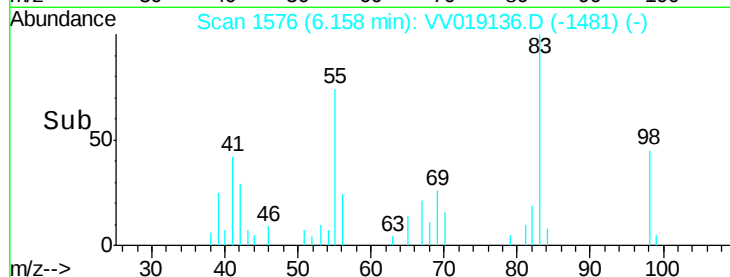
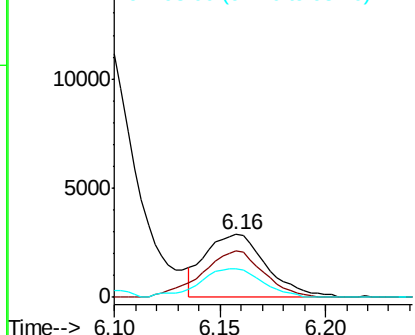
#35
Methvlcvclohexane
Concen: 2.424 ug/L
RT: 6.16 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

Instrument :
MSVOA_V
ClientSampled :
MDL02

Tot Ion: 83 Resp: 5789
Ion Ratio Lower Upper
83 100
55 74.1 68.1 102.1
98 46.9 37.9 56.9

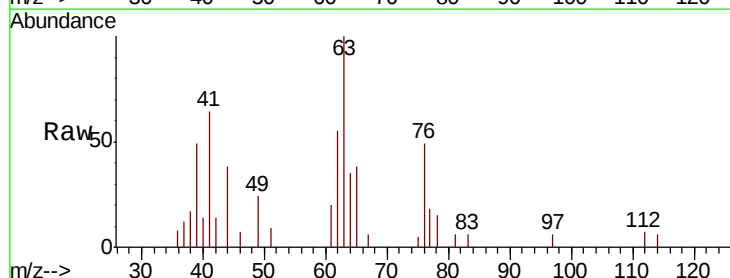


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

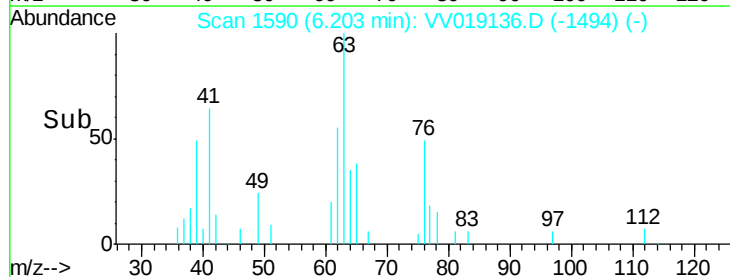
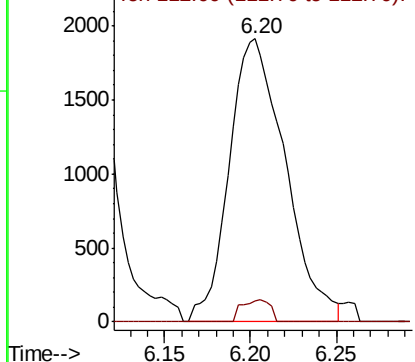


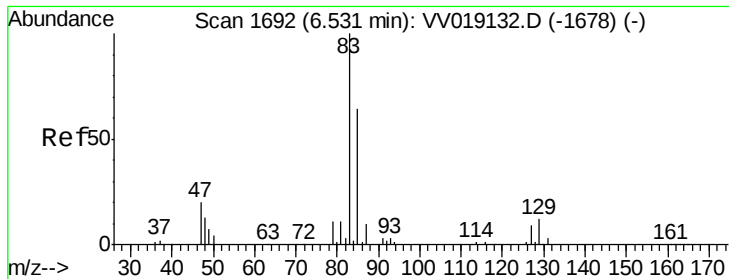
#37
1,2-Dichloropropane
Concen: 2.290 ug/L
RT: 6.20 min Scan# 1590
Delta R.T. 0.01 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

Tgt Ion: 63 Resp: 4355
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V





#38

Bromodichloromethane

Concen: 2.449 ug/L

RT: 6.54 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

MDL02

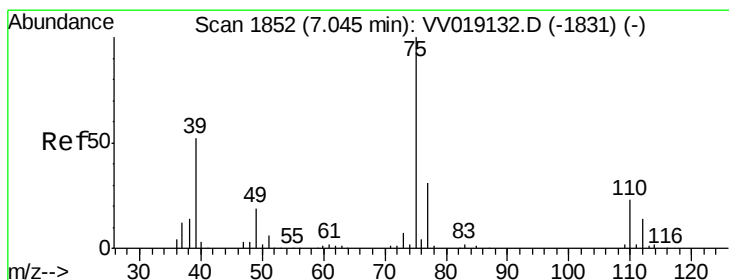
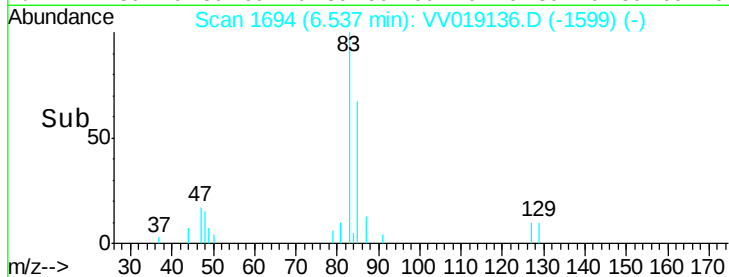
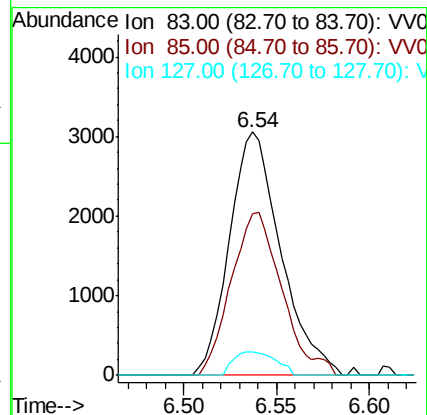
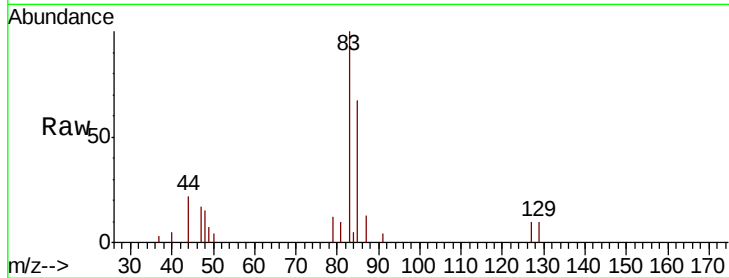
Tot Ion: 83 Resp: 5892

Ion Ratio Lower Upper

83 100

85 66.5 44.9 83.3

127 9.7 7.0 10.4



#39

cis-1,3-Dichloropropene

Concen: 2.145 ug/L

RT: 7.05 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VV019136.D

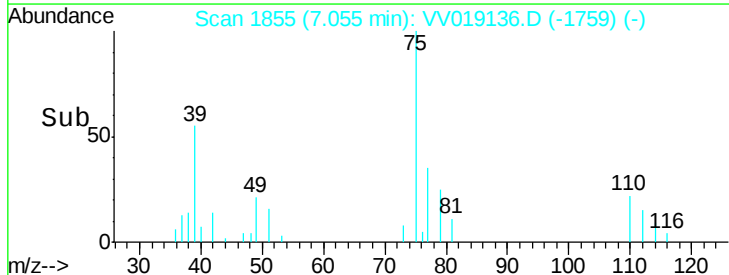
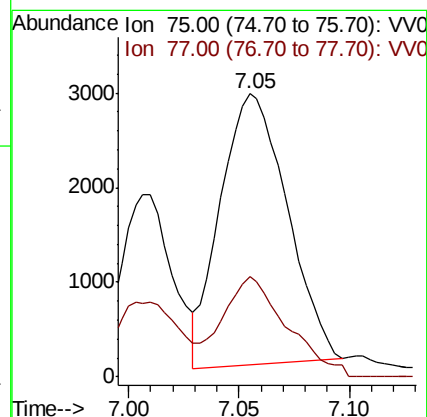
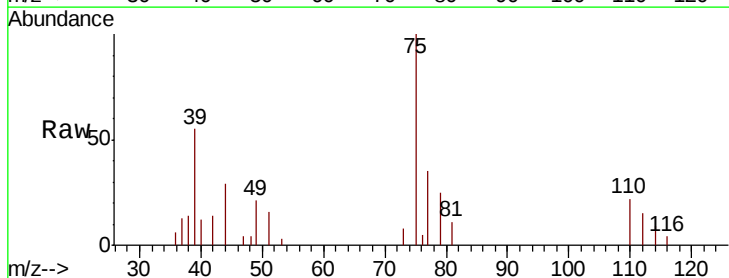
Acq: 28 Oct 2020 12:35

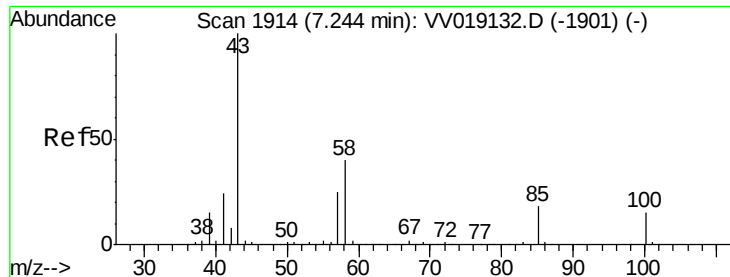
Tgt Ion: 75 Resp: 6027

Ion Ratio Lower Upper

75 100

77 35.2 22.1 41.1

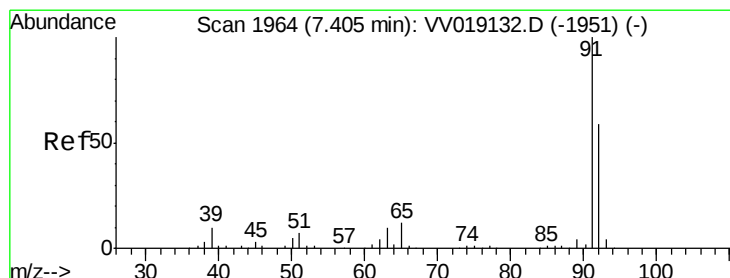
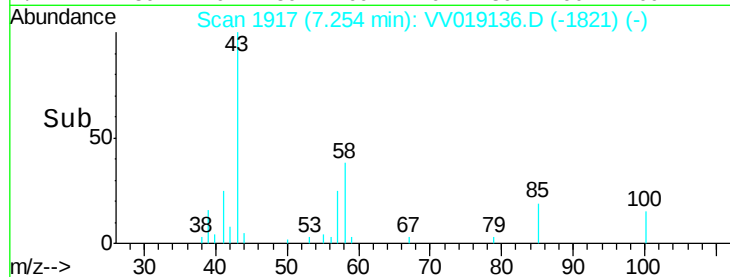
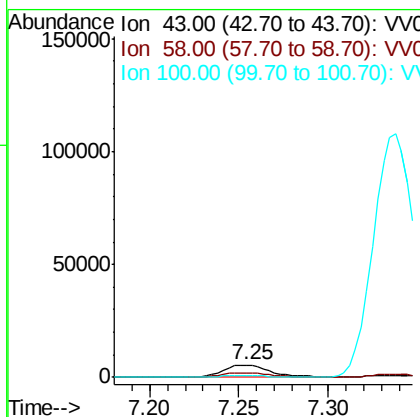
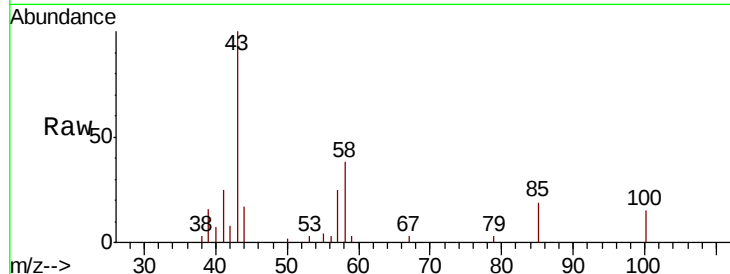




#40
4-Methyl-2-pentanone
Concen: 4.028 ug/L
RT: 7.25 min Scan# 1917
Delta R.T. 0.01 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

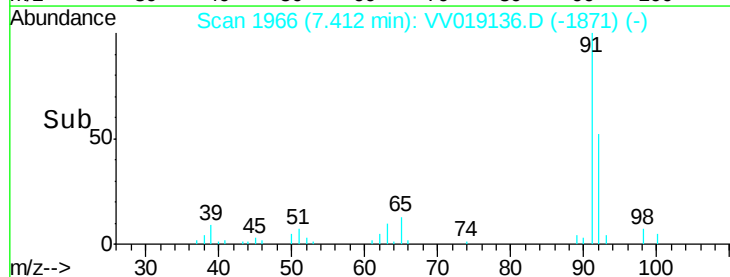
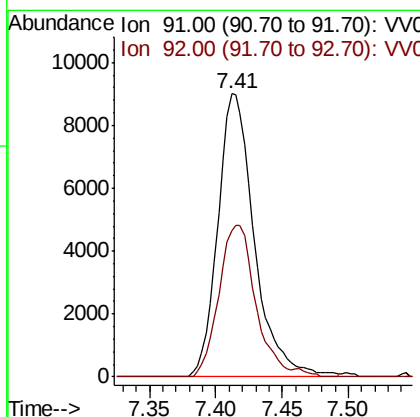
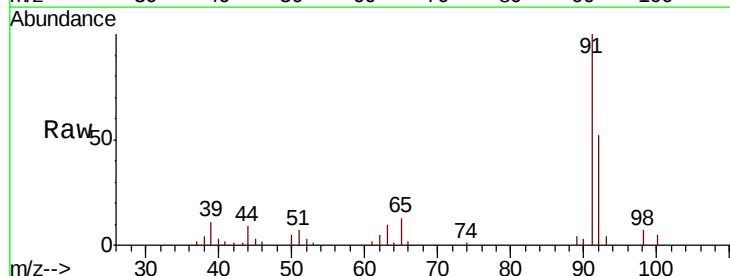
Instrument :
MSVOA_V
ClientSampleId :
MDL02

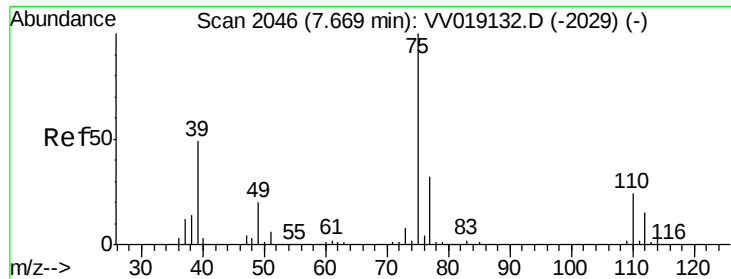
Tot Ion: 43 Resp: 10334
Ion Ratio Lower Upper
43 100
58 38.0 29.6 44.4
100 15.0 10.9 16.3



#42
Toluene
Concen: 2.429 ug/L
RT: 7.41 min Scan# 1966
Delta R.T. 0.01 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

Tgt Ion: 91 Resp: 17220
Ion Ratio Lower Upper
91 100
92 51.9 40.9 76.0





#44

trans-1,3-Dichloropropene

Concen: 2.429 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

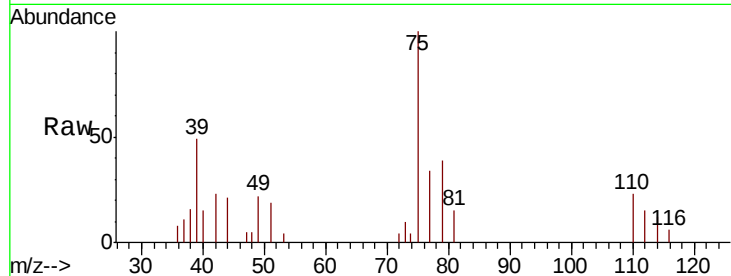
MDL02

Tot Ion: 75 Resp: 6771

Ion Ratio Lower Upper

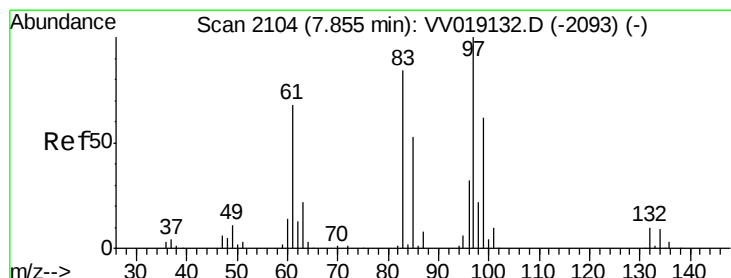
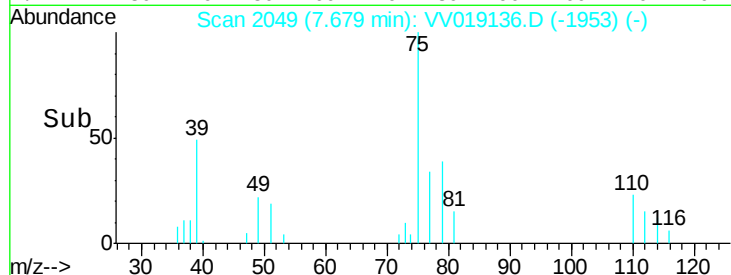
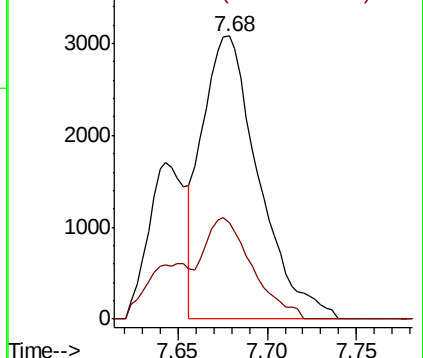
75 100

77 34.2 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#45

1,1,2-Trichloroethane

Concen: 2.351 ug/L

RT: 7.87 min Scan# 2107

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Tgt Ion: 97 Resp: 3948

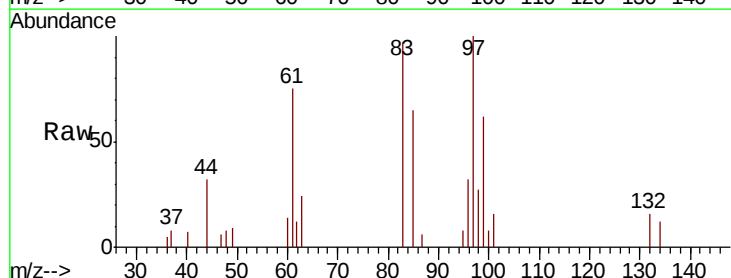
Ion Ratio Lower Upper

97 100

99 61.6 43.5 80.9

83 97.4 62.2 115.4

85 65.4 39.9 74.1

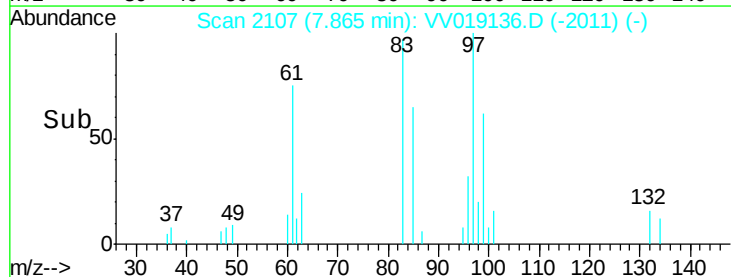
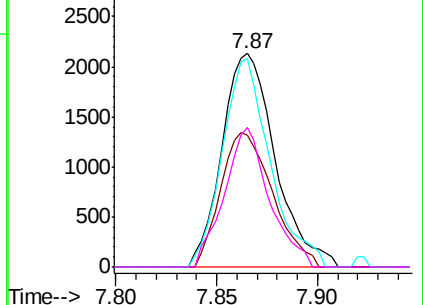


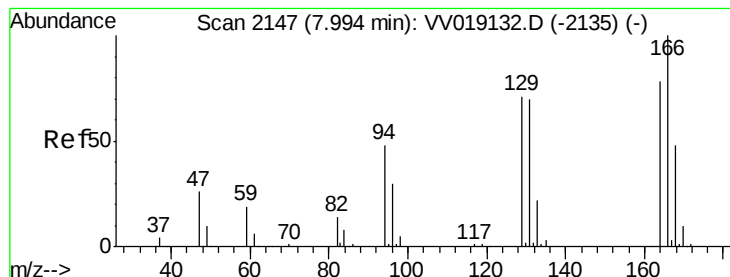
Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0





#46

Tetrachloroethene

Concen: 2.873 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion:164 Resp: 3848

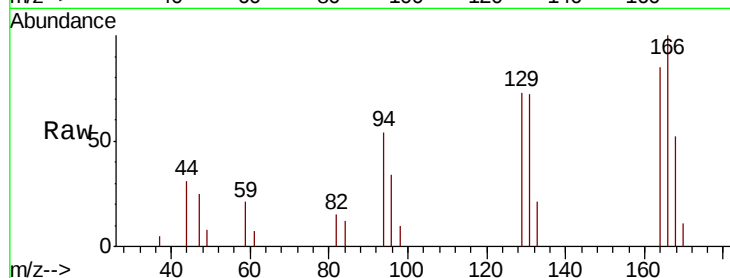
Ion Ratio Lower Upper

164 100

129 85.5 65.5 121.6

131 84.3 62.4 115.8

166 117.0 90.0 167.2

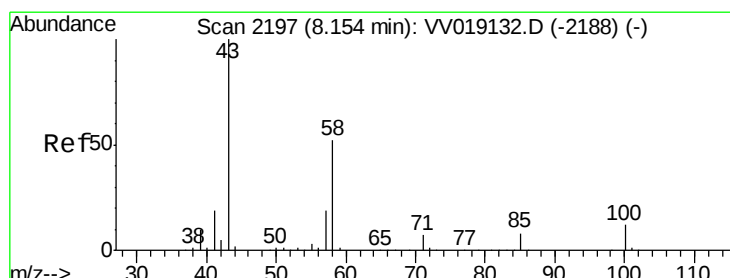
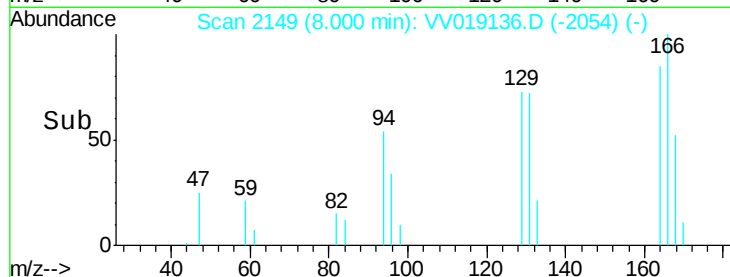
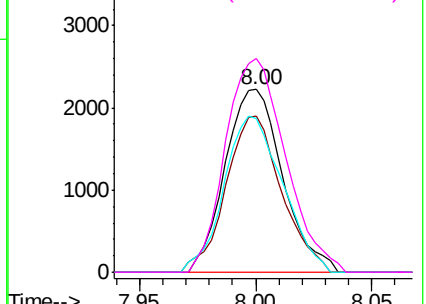


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 4.458 ug/L

RT: 8.17 min Scan# 2201

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Tgt Ion: 43 Resp: 8826

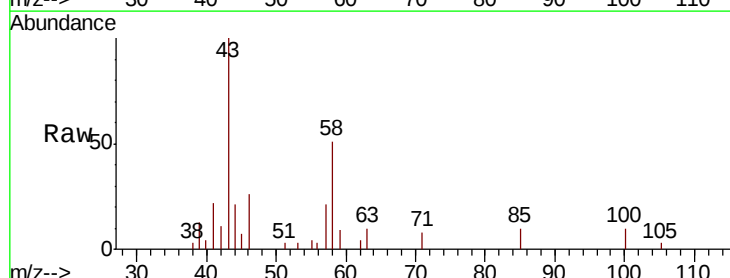
Ion Ratio Lower Upper

43 100

58 56.4 41.1 61.7

57 24.3 14.7 22.1#

100 4.5 8.6 12.8#

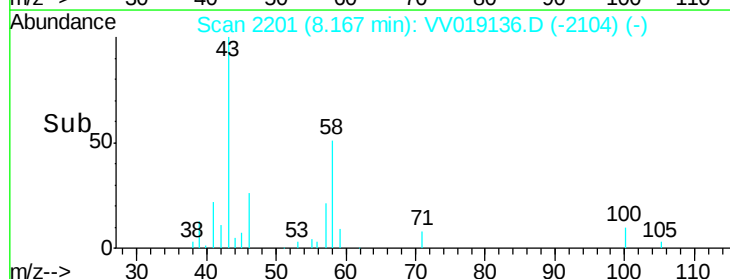
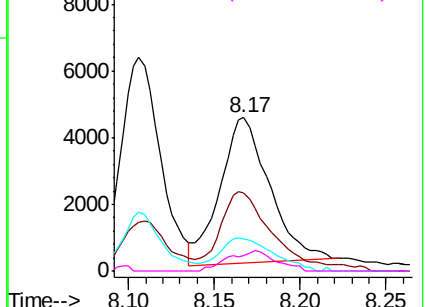


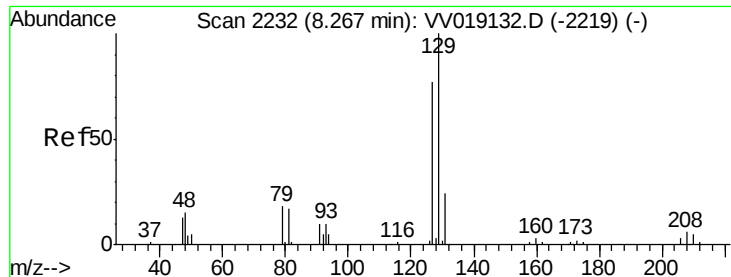
Abundance Ion 43.00 (42.70 to 43.70): VV0

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





#49

Dibromochloromethane

Concen: 2.633 ug/L

RT: 8.27 min Scan# 2233

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

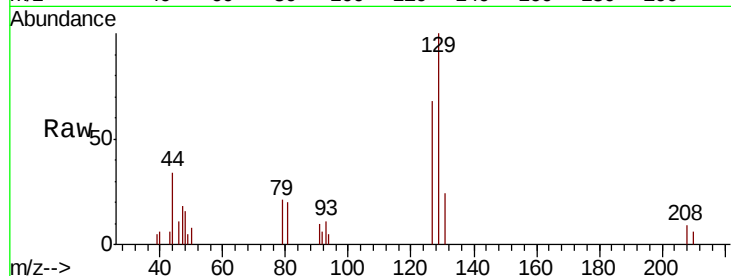
MDL02

Tot Ion:129 Resp: 4833

Ion Ratio Lower Upper

129 100

127 67.7 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.27

2500

2000

1500

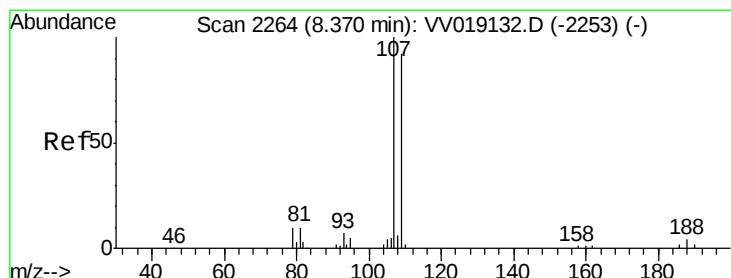
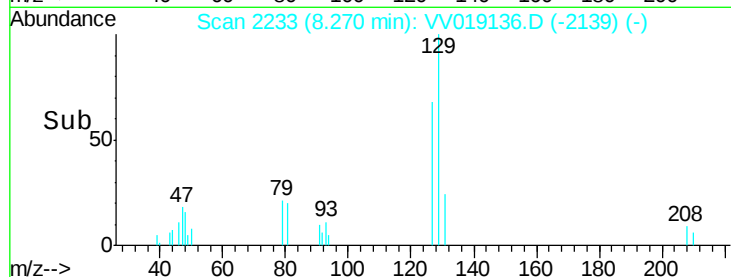
1000

500

0

8.25 8.30

Time-->



#50

1,2-Dibromoethane

Concen: 2.394 ug/L

RT: 8.38 min Scan# 2267

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

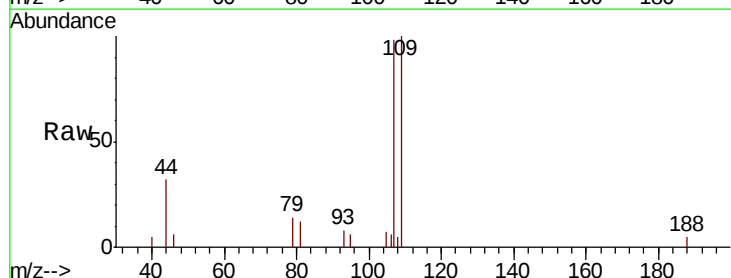
Tgt Ion:107 Resp: 4173

Ion Ratio Lower Upper

107 100

109 102.3 66.1 122.7

188 5.1 3.2 4.8#



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

8.38

3000

2500

2000

1500

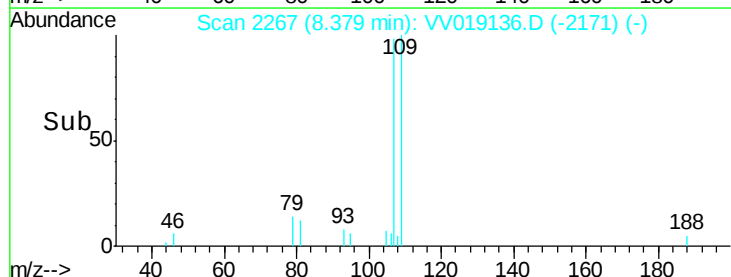
1000

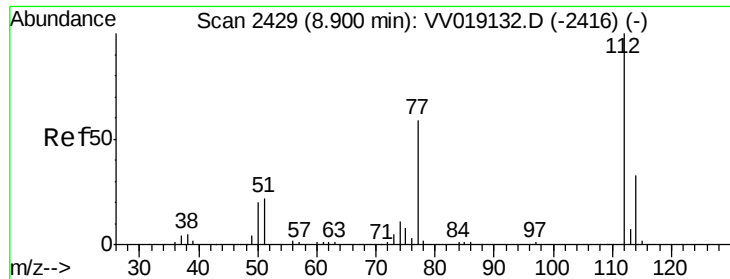
500

0

8.35 8.40

Time-->

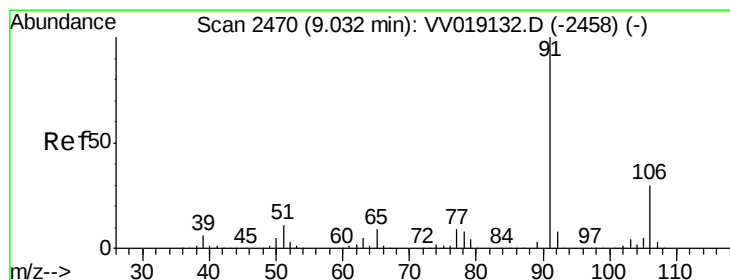
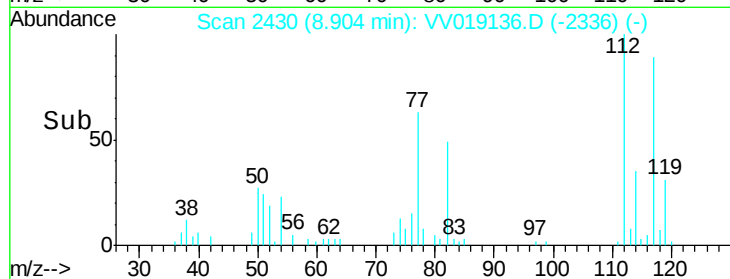
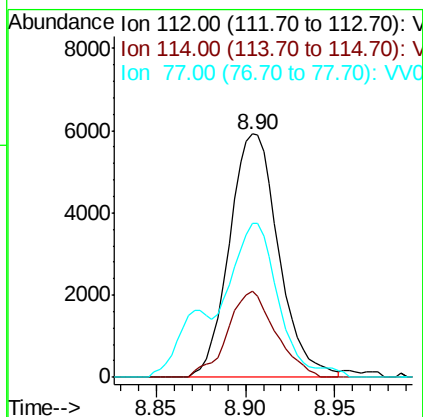
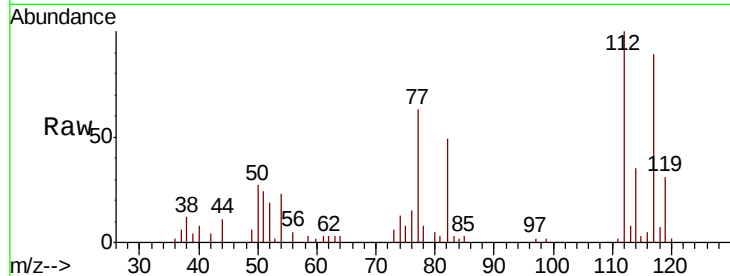




#51
Chlorobenzene
Concen: 2.508 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

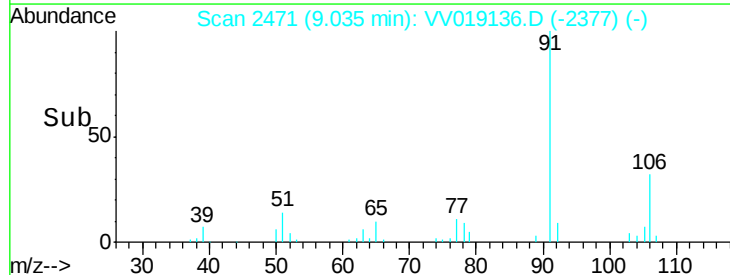
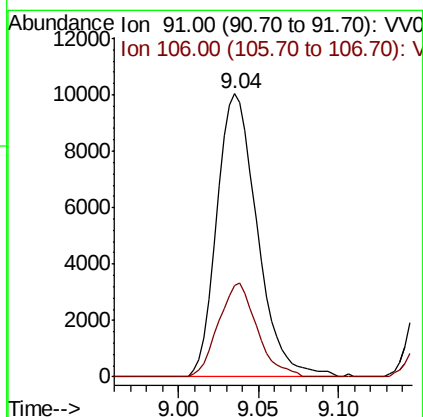
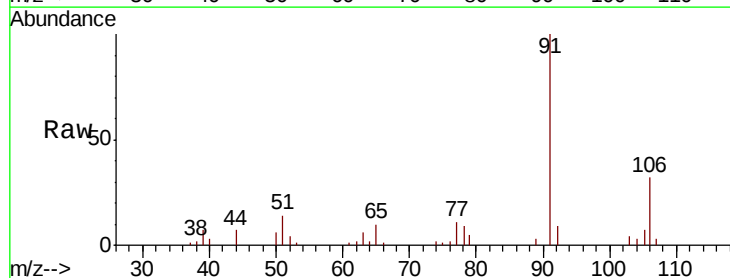
Instrument :
MSVOA_V
ClientSampleId :
MDL02

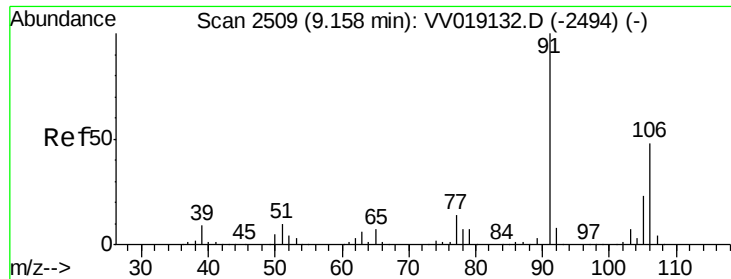
Tot Ion:112 Resp: 11403
Ion Ratio Lower Upper
112 100
114 35.3 22.2 41.2
77 63.2 49.1 73.7



#52
Ethylbenzene
Concen: 2.270 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV019136.D
Acq: 28 Oct 2020 12:35

Tgt Ion: 91 Resp: 17403
Ion Ratio Lower Upper
91 100
106 32.4 20.9 38.7





#53

m,p-Xylene

Concen: 2.407 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampled :

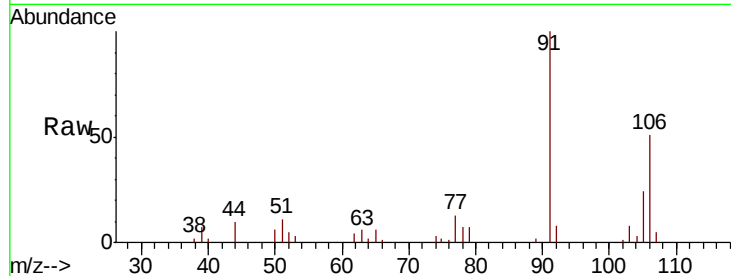
MDL02

Tot Ion:106 Resp: 6756

Ion Ratio Lower Upper

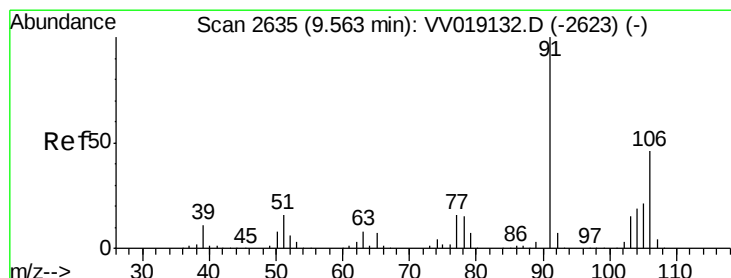
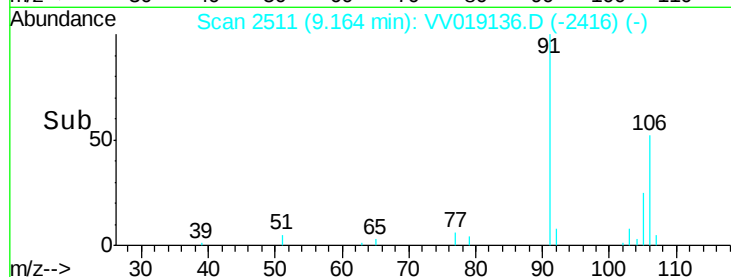
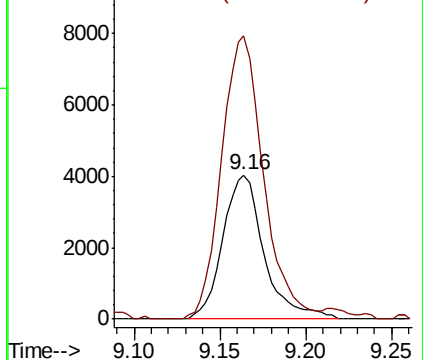
106 100

91 196.0 143.4 266.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 2.372 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019136.D

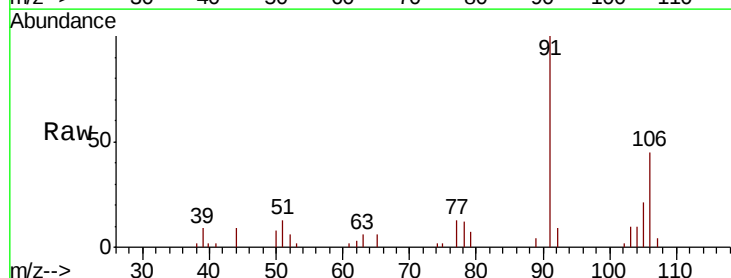
Acq: 28 Oct 2020 12:35

Tgt Ion:106 Resp: 6409

Ion Ratio Lower Upper

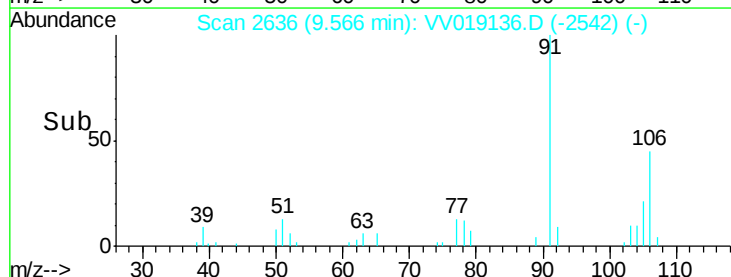
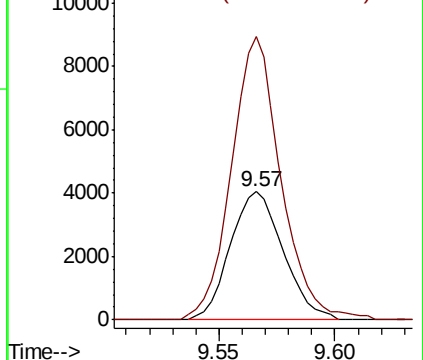
106 100

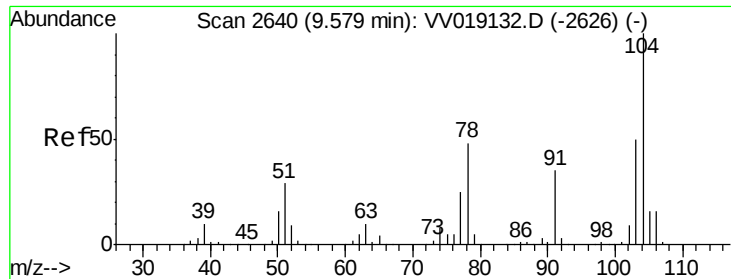
91 220.6 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 2.107 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.01 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampled :

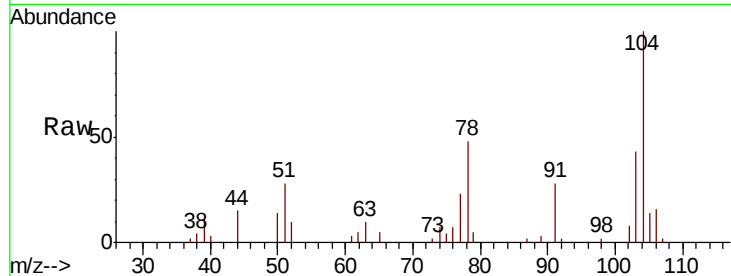
MDL02

Tot Ion:104 Resp: 10098

Ion Ratio Lower Upper

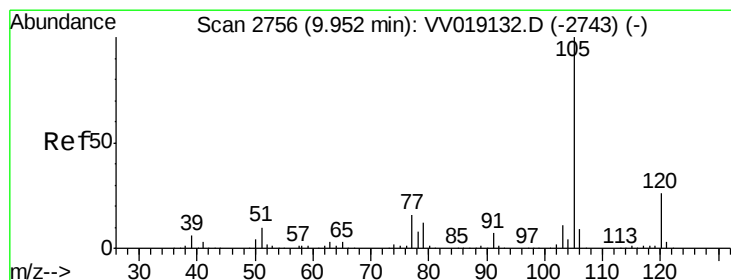
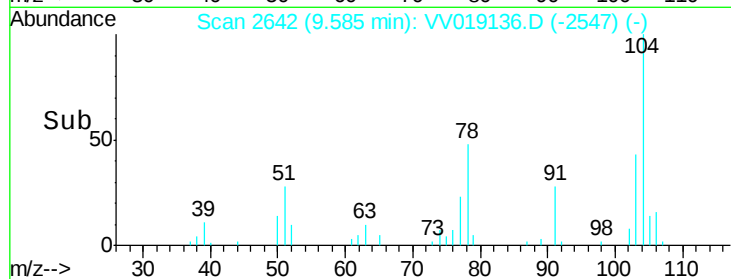
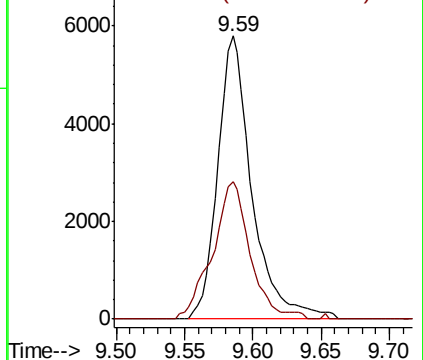
104 100

78 48.4 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 2.252 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

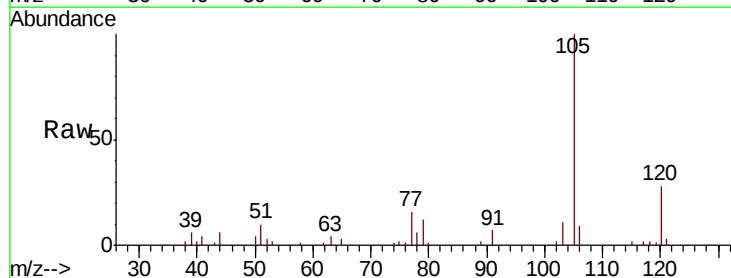
Tgt Ion:105 Resp: 16000

Ion Ratio Lower Upper

105 100

120 27.5 20.6 31.0

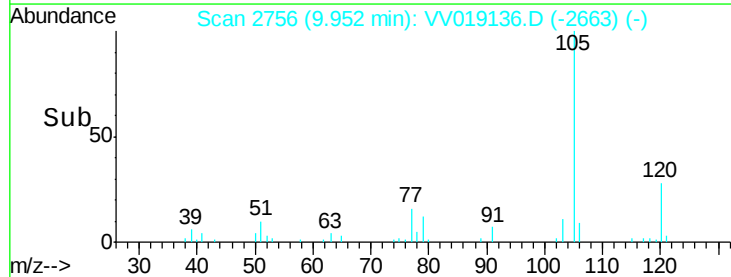
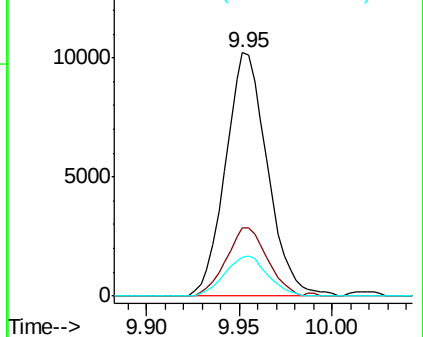
77 16.9 13.4 20.0

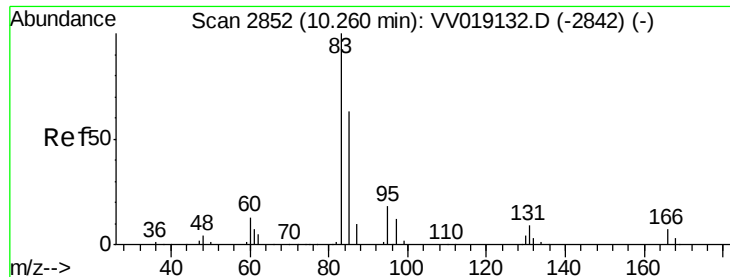


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 2.406 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampled :

MDL02

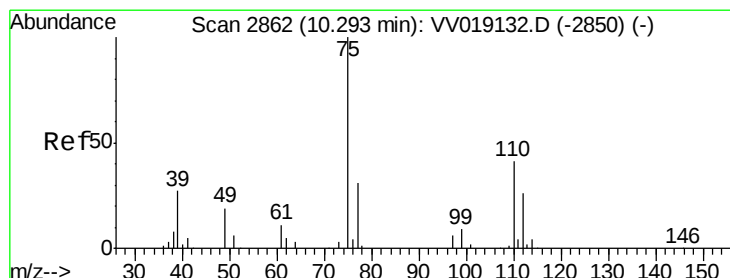
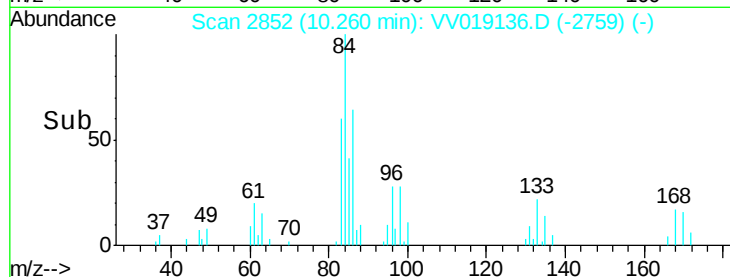
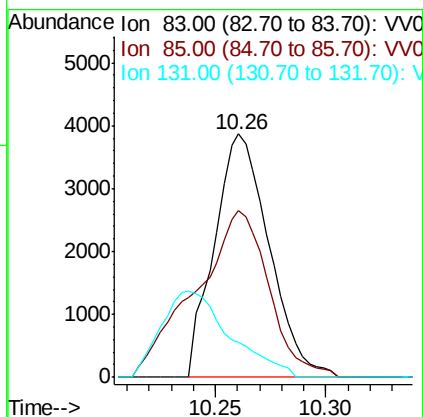
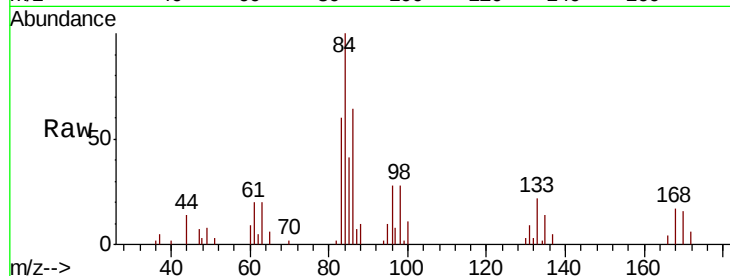
Tot Ion: 83 Resp: 6650

Ion Ratio Lower Upper

83 100

85 68.3 44.2 82.2

131 14.1 7.4 11.2#



#59

1,2,3-Trichloropropane

Concen: 2.358 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019136.D

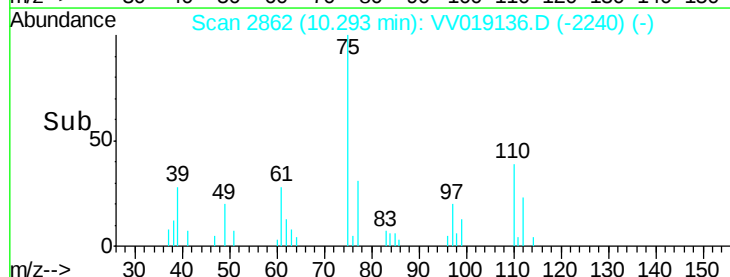
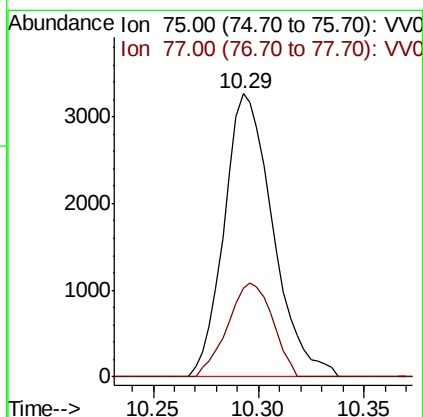
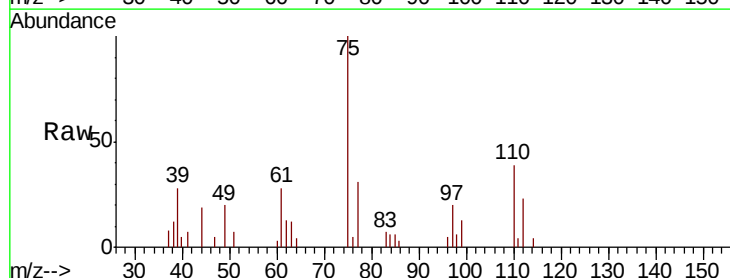
Acq: 28 Oct 2020 12:35

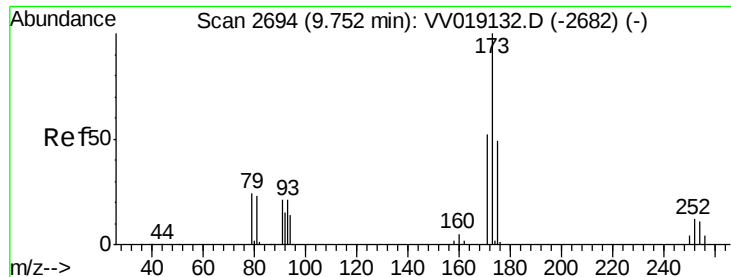
Tgt Ion: 75 Resp: 5244

Ion Ratio Lower Upper

75 100

77 30.7 25.9 38.9





#61

Bromoform

Concen: 2.758 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

MDL02

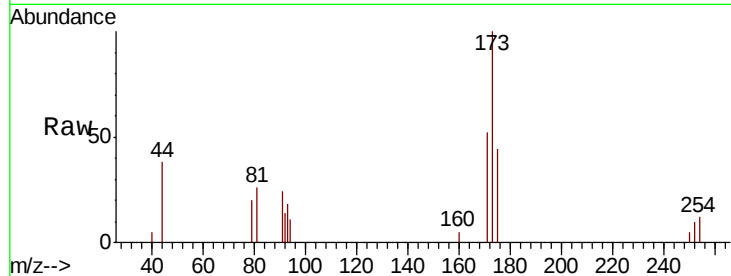
Tot Ion:173 Resp: 3521

Ion Ratio Lower Upper

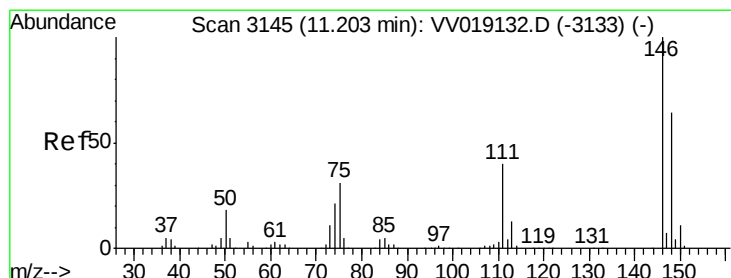
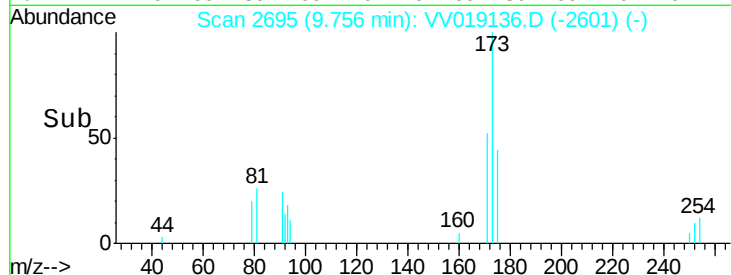
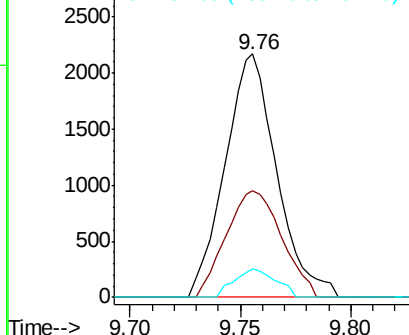
173 100

175 0.0 38.3 57.5#

254 9.3 8.3 12.5



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 2.771 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

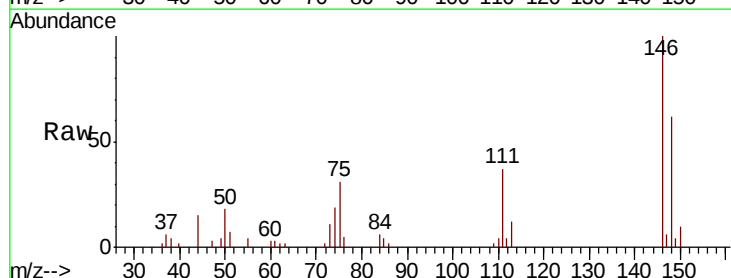
Tgt Ion:146 Resp: 9427

Ion Ratio Lower Upper

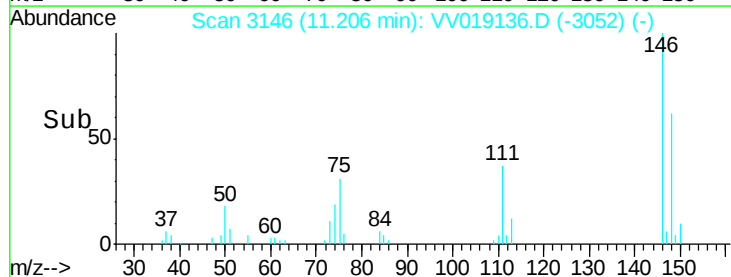
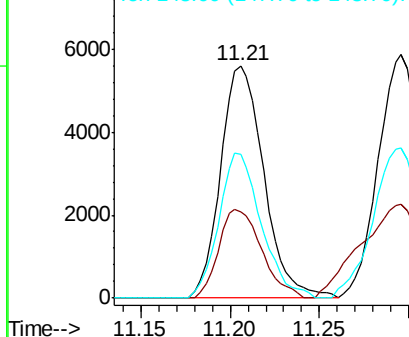
146 100

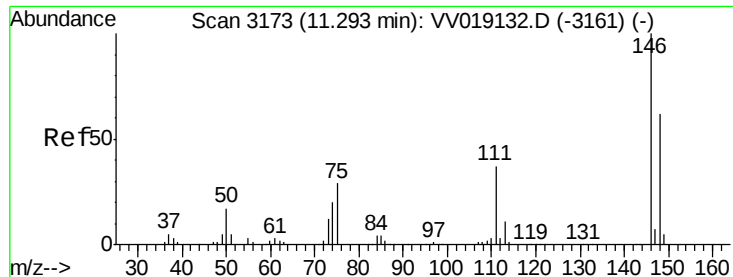
111 37.4 28.8 53.4

148 62.0 44.5 82.7



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





#63

1,4-Dichlorobenzene

Concen: 2.793 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

MDL02

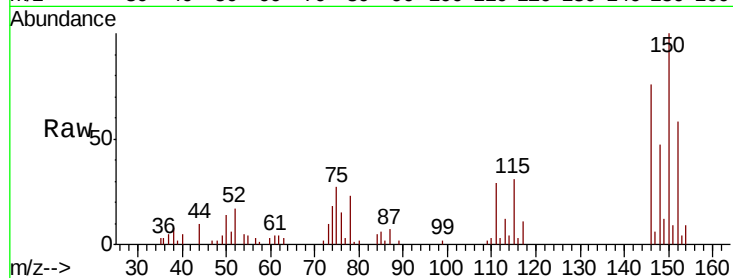
Tot Ion:146 Resp: 9928

Ion Ratio Lower Upper

146 100

111 38.7 27.8 51.6

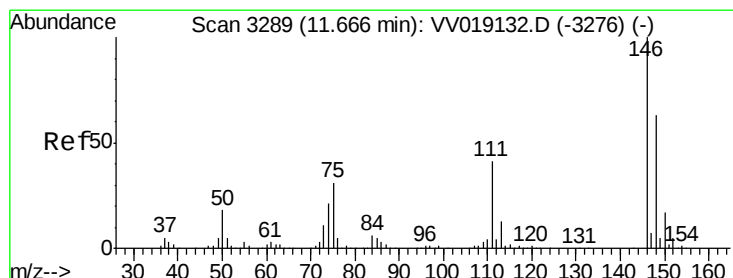
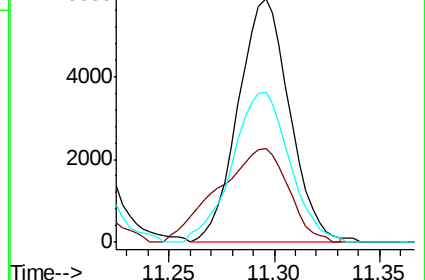
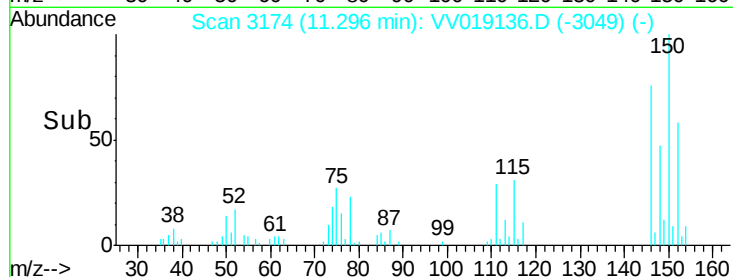
148 61.6 45.1 83.9



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



#65

1,2-Dichlorobenzene

Concen: 2.770 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

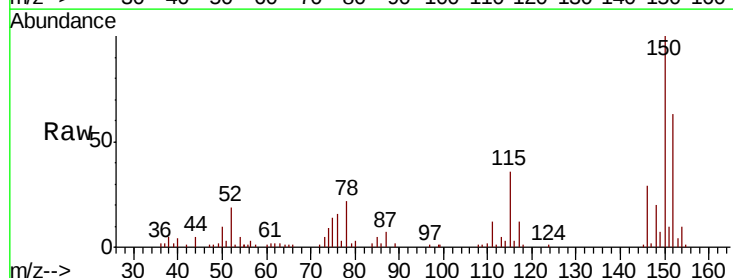
Tgt Ion:146 Resp: 9499

Ion Ratio Lower Upper

146 100

111 42.2 33.3 49.9

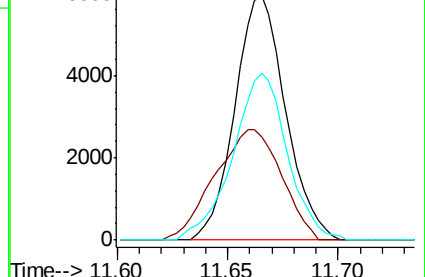
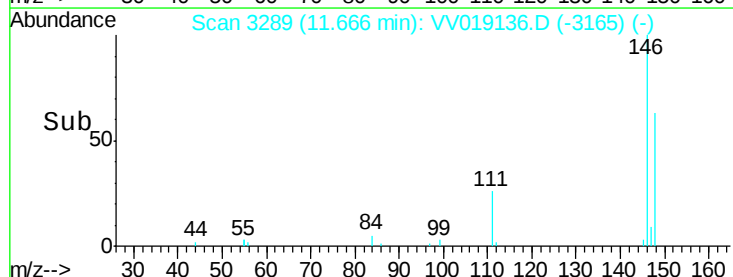
148 68.3 51.1 76.7

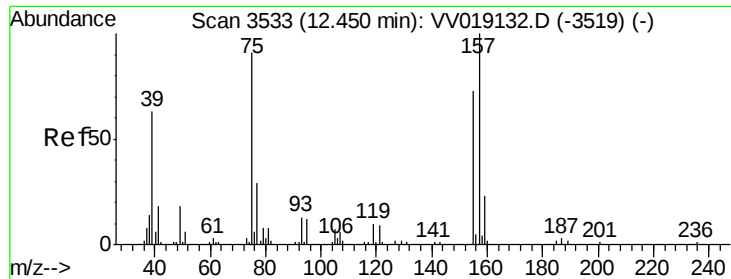


Abundance Ion 146.00 (145.70 to 146.70): V

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: 2.441 ug/L

RT: 12.45 min Scan# 3534

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Instrument :

MSVOA_V

ClientSampleId :

MDL02

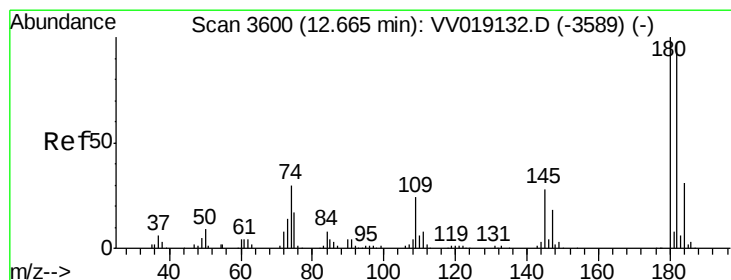
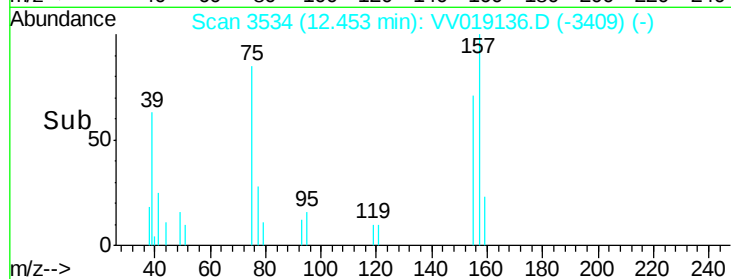
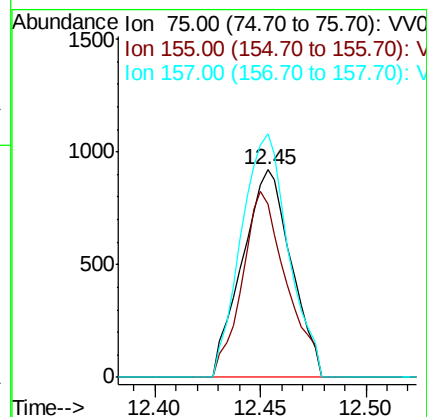
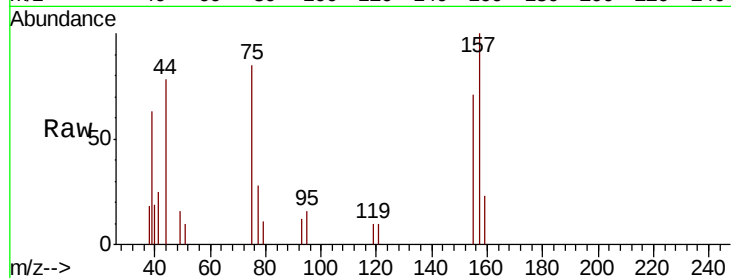
Tot Ion: 75 Resp: 1479

Ion Ratio Lower Upper

75 100

155 83.3 62.2 93.4

157 117.4 79.9 119.9



#67

1,3,5-Trichlorobenzene

Concen: 2.812 ug/L

RT: 12.67 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VV019136.D

Acq: 28 Oct 2020 12:35

Tgt Ion: 180 Resp: 6532

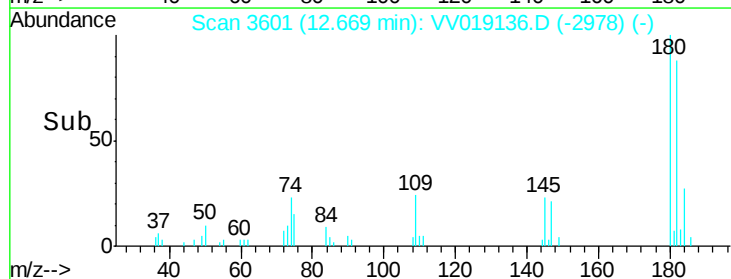
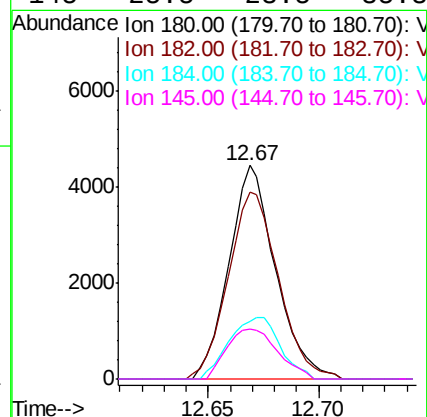
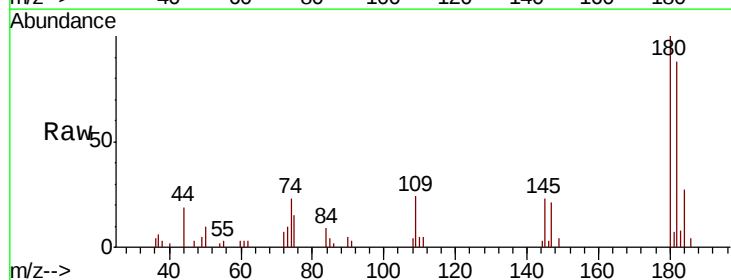
Ion Ratio Lower Upper

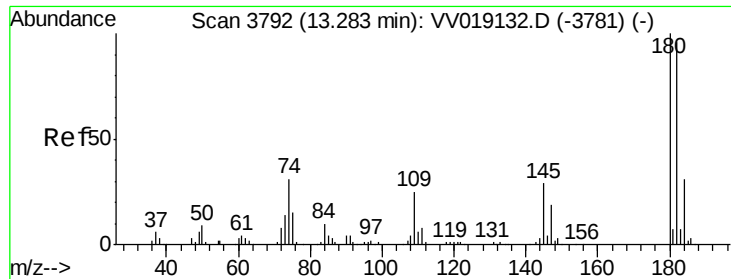
180 100

182 94.3 77.4 116.0

184 31.6 24.7 37.1

145 25.5 23.5 35.3

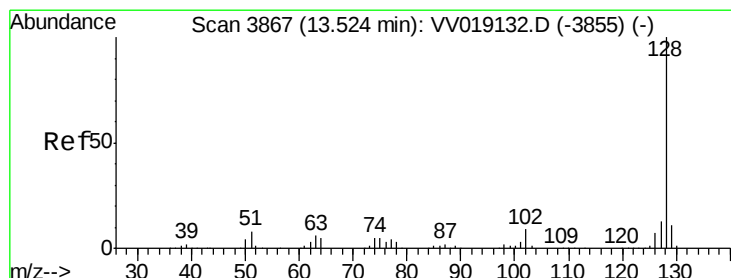
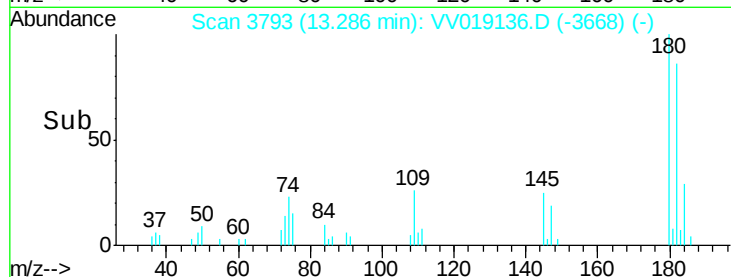
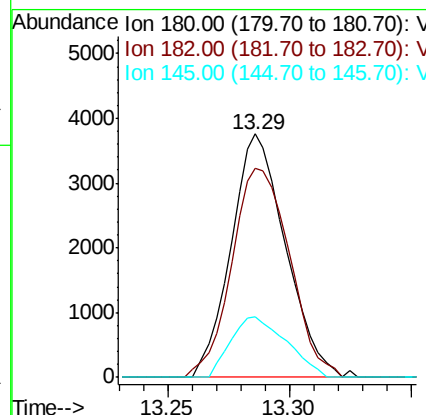
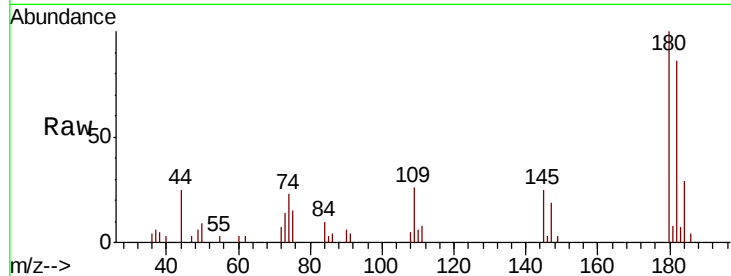




#68
 1,2,4-trichlorobenzene
 Concen: 2.657 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. 0.00 min
 Lab File: VV019136.D
 Acq: 28 Oct 2020 12:35

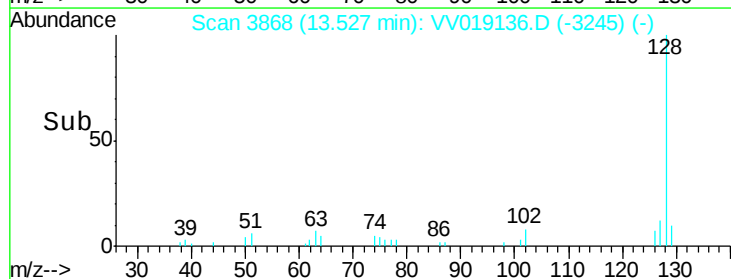
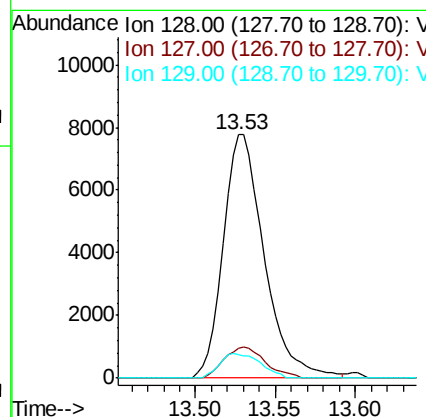
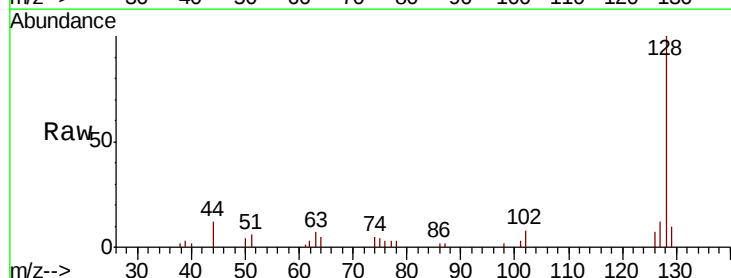
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

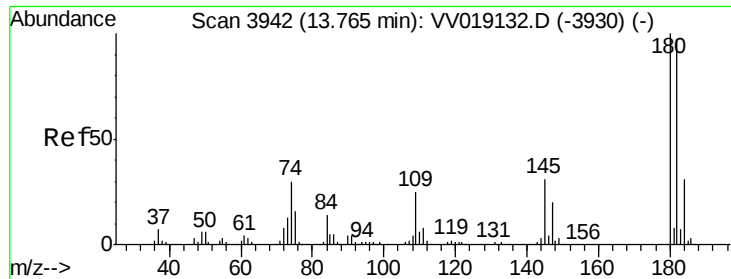
Tot Ion:180 Resp: 5819
 Ion Ratio Lower Upper
 180 100
 182 91.3 77.4 116.2
 145 25.6 23.7 35.5



#69
 Naphthalene
 Concen: 2.022 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.00 min
 Lab File: VV019136.D
 Acq: 28 Oct 2020 12:35

Tgt Ion:128 Resp: 13643
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.6 15.8
 129 10.0 8.7 13.1

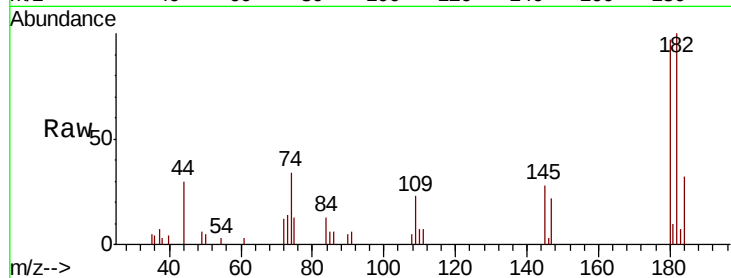




#70
 1,2,3-Trichlorobenzene
 Concen: 2.307 ug/L
 RT: 13.77 min Scan# 3944
 Delta R.T. 0.01 min
 Lab File: VV019136.D
 Acq: 28 Oct 2020 12:35

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion:180 Resp: 5120
 Ion Ratio Lower Upper
 180 100
 182 102.0 76.9 115.3
 145 33.1 25.6 38.4



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

