

Data File : VV008896.D
Acq On : 11 Dec 2018 13:29
Operator : SY/MD
Sample : MDL04
Misc : 5.00g/10.0 mL/MSVOA_V/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Quant Time: Dec 12 04:37:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 12 04:31:38 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	214475	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	186858	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	77994	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	54861	24.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.88%
7) Chloroethane-d5	1.58	69	52372	31.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	127.76%
10) 1,1-Dichloroethene-d2	2.13	63	106565	19.20	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	76.80%
20) 2-Butanone-d5	3.94	46	42552	52.66	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.32%
24) Chloroform-d	4.40	84	124959	24.24	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.96%
26) 1,2-Dichloroethane-d4	5.08	65	72460	25.75	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.00%
29) Benzene-d6	5.10	84	254751	24.41	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.64%
33) 1,2-Dichloropropane-d6	6.12	67	73802	25.26	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.04%
37) Toluene-d8	7.36	98	231279	23.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.80%
38) trans-1,3-Dichloropropene-	7.67	79	31623	24.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.52%
39) 2-Hexanone-d5	8.13	63	27227	50.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.74%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	56590	23.09	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.36%
61) 1,2-Dichlorobenzene-d4	11.67	152	71424	24.40	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	4341	1.235 ug/L	87
3) Chloromethane	1.25	50	2891	1.197 ug/L	98
5) Vinyl chloride	1.32	62	3071	1.139 ug/L #	60
6) Bromomethane	1.53	94	1769	1.364 ug/L	96
8) Chloroethane	1.60	64	2399	1.588 ug/L #	81
9) Trichlorofluoromethane	1.77	101	6403	1.386 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4415	1.394 ug/L	87
12) 1,1-Dichloroethene	2.14	96	3996	1.445 ug/L #	1
13) Acetone	2.20	43	3248	2.728 ug/L	90
14) Carbon disulfide	2.32	76	9339	1.052 ug/L	100
15) Methyl Acetate	2.46	43	1764	1.168 ug/L #	83
16) Methylene chloride	2.54	84	9610	2.661 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	6720	1.070 ug/L	94
18) trans-1,2-Dichloroethene	2.79	96	3335	1.116 ug/L	97
19) 1,1-Dichloroethane	3.23	63	5273	1.089 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	3175	1.019 ug/L	94
23) Bromochloromethane	4.31	128	1529	1.041 ug/L	89

Data File : VV008896.D
Acq On : 11 Dec 2018 13:29
Operator : SY/MD
Sample : MDL04
Misc : 5.00g/10.0 mL/MSVOA_V/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Quant Time: Dec 12 04:37:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 12 04:31:38 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.43	83	7454	1.434	ug/L #	68
27) 1,2-Dichloroethane	5.18	62	3829	1.081	ug/L #	94
30) Cyclohexane	4.73	56	4973	1.057	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	5209	1.081	ug/L #	76
32) Carbon tetrachloride	4.88	117	4850	1.103	ug/L	98
34) Benzene	5.15	78	12546	1.121	ug/L	100
35) Trichloroethene	5.96	95	3889	1.152	ug/L	95
36) Methylcyclohexane	6.18	83	6034	1.121	ug/L	97
40) 1,2-Dichloropropane	6.22	63	3129	1.165	ug/L #	85
41) Bromodichloromethane	6.56	83	3830	1.082	ug/L #	92
42) cis-1,3-Dichloropropene	7.07	75	4424	1.125	ug/L	98
43) 4-Methyl-2-pentanone	7.28	43	5017	2.763	ug/L	97
44) Toluene	7.43	91	13342	1.136	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	3642	1.062	ug/L	99
46) 1,1,2-Trichloroethane	7.89	97	2361	1.055	ug/L	87
47) Tetrachloroethene	8.02	164	3007	1.096	ug/L	96
49) 2-Hexanone	8.19	43	5697	3.792	ug/L #	87
50) Dibromochloromethane	8.29	129	2924	1.139	ug/L	99
51) 1,2-Dibromoethane	8.40	107	2258	1.004	ug/L #	99
52) Chlorobenzene	8.93	112	8657	1.132	ug/L	93
53) Ethylbenzene	9.06	91	13201	1.036	ug/L	99
54) m,p-Xylene	9.19	106	4883	1.013	ug/L	96
55) o-xylene	9.59	106	4420	0.986	ug/L	93
56) Styrene	9.61	104	6611	0.915	ug/L	97
57) Isopropylbenzene	9.98	105	11838	0.972	ug/L	96
58) 1,1,2,2-Tetrachloroethane	10.29	83	2869	1.185	ug/L #	95
59) 1,2,3-Trichloropropane	10.32	75	2471	1.180	ug/L	98
62) Bromoform	9.78	173	1387	0.985	ug/L #	94
63) 1,3-Dichlorobenzene	11.23	146	5521	1.099	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	5918	1.144	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	5488	1.185	ug/L	93
67) 1,3,5-Trichlorobenzene	12.70	180	3339	0.920	ug/L #	92
68) 1,2,4-trichlorobenzene	13.31	180	2335	0.918	ug/L #	83
69) Naphthalene	13.56	128	2799	0.639	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.80	180	1685	0.717	ug/L #	83

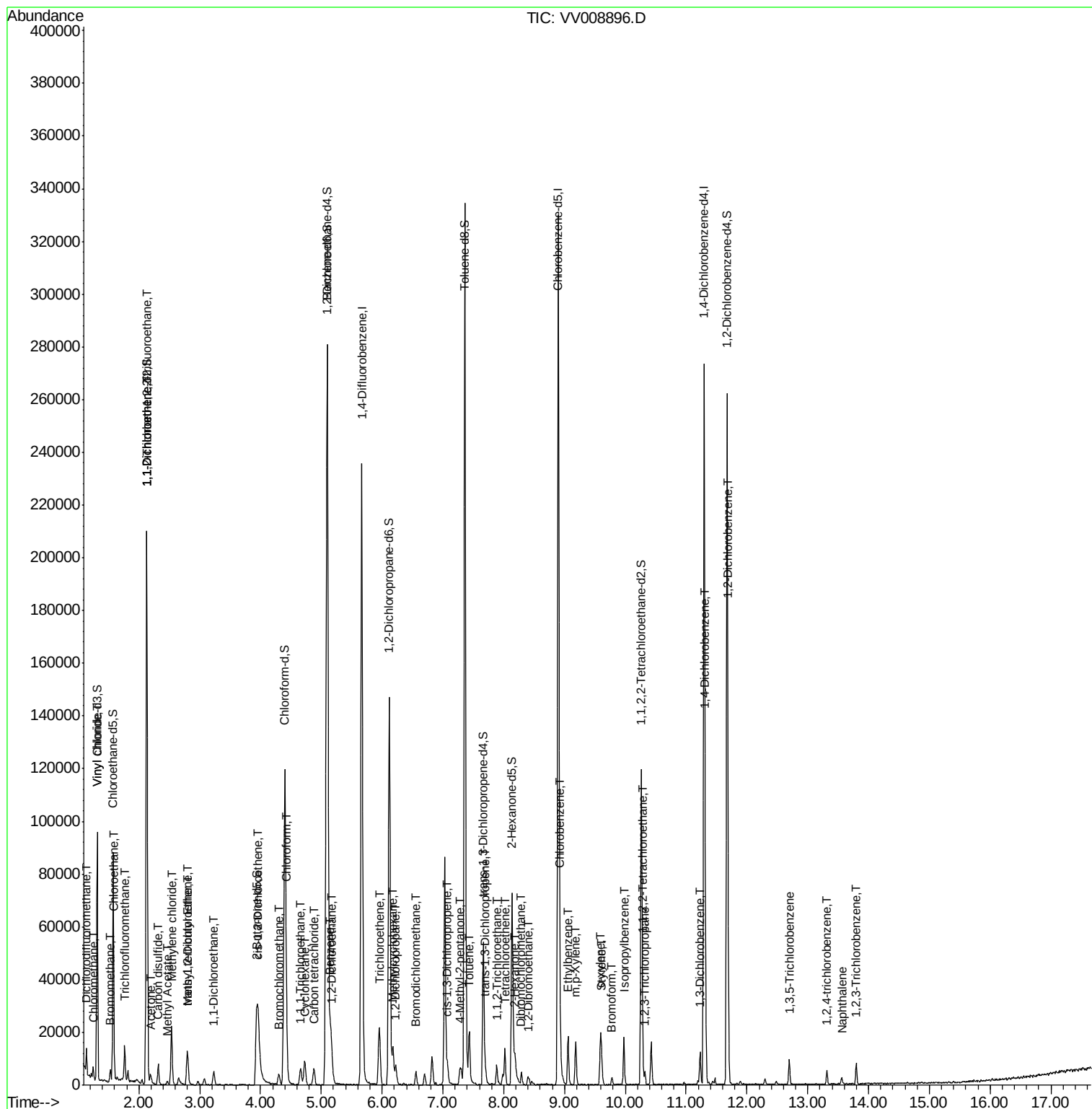
(#) = qualifier out of range (m) = manual integration (+) = signals summed

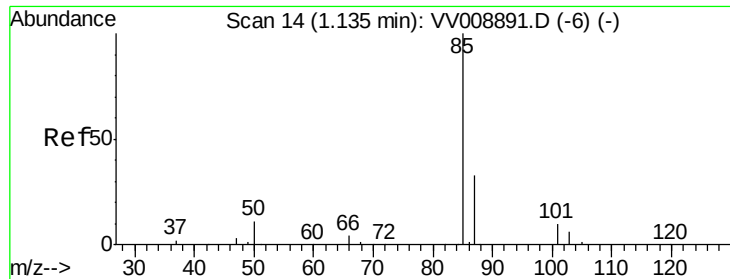
Data File : VV008896.D

```
Acq On       : 11 Dec 2018   13:29
Operator    : SY/MD
Sample      : MDL04
Misc        : 5.00g/10.0 mL/MSVOA_V/SOIL
ALS Vial    : 7      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Quant Time: Dec 12 04:37:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 12 04:31:38 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.235 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

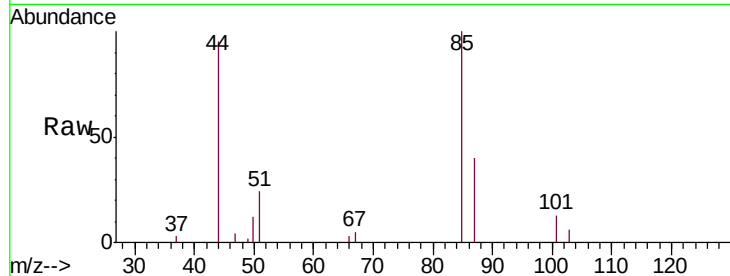
MDL04

Tgt Ion: 85 Resp: 4341

Ion Ratio Lower Upper

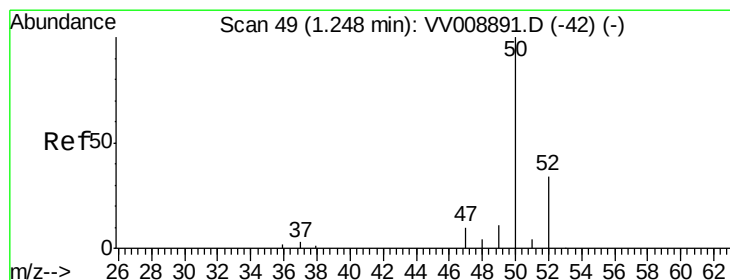
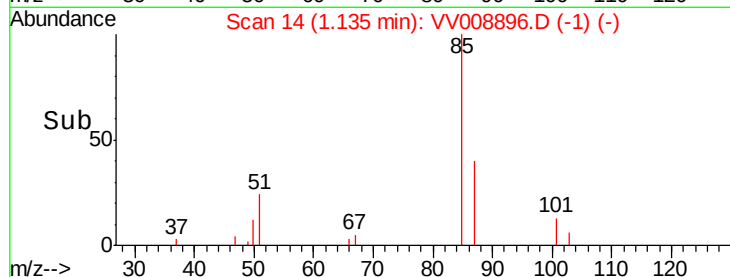
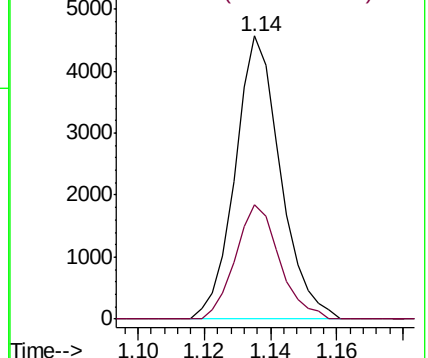
85 100

87 39.2 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV008891.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV008891.D (-6) (-)



#3

Chloromethane

Concen: 1.197 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV008896.D

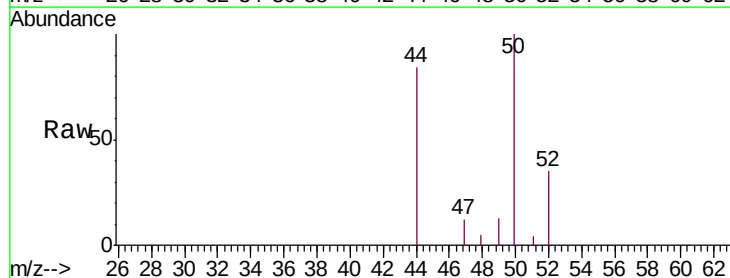
Acq: 11 Dec 2018 13:29

Tgt Ion: 50 Resp: 2891

Ion Ratio Lower Upper

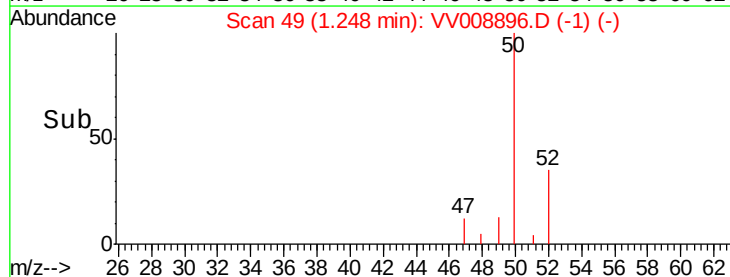
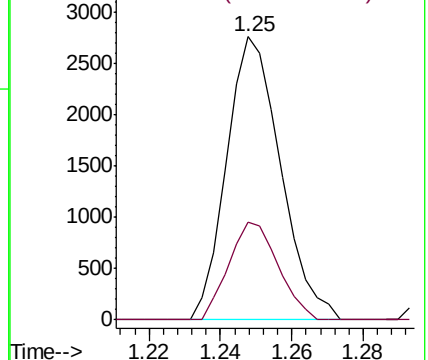
50 100

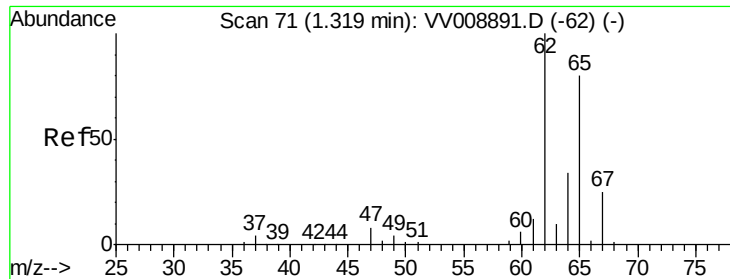
52 34.6 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV008891.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV008891.D (-42) (-)





#5

Vinyl chloride

Concen: 1.139 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampled :

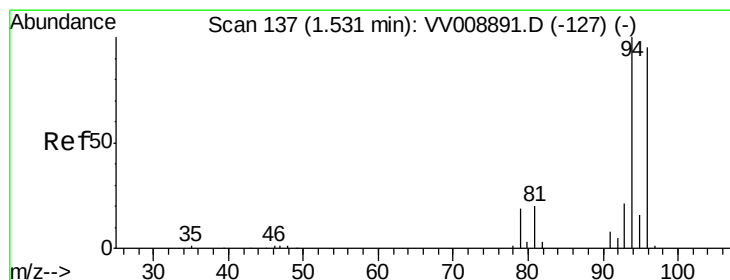
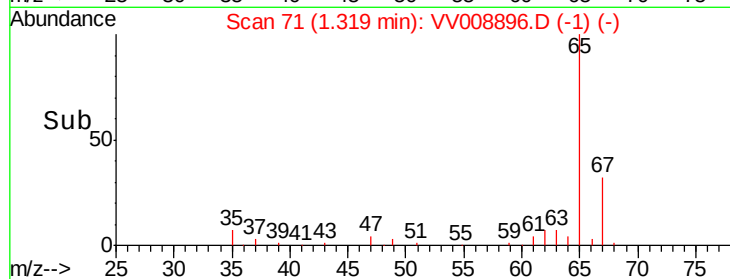
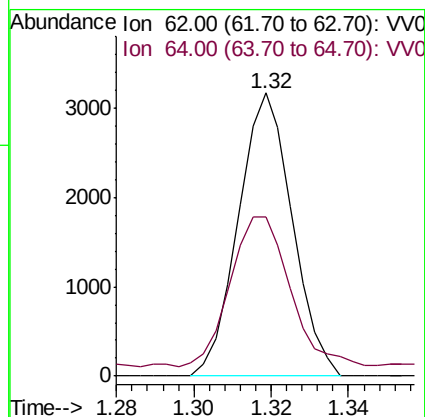
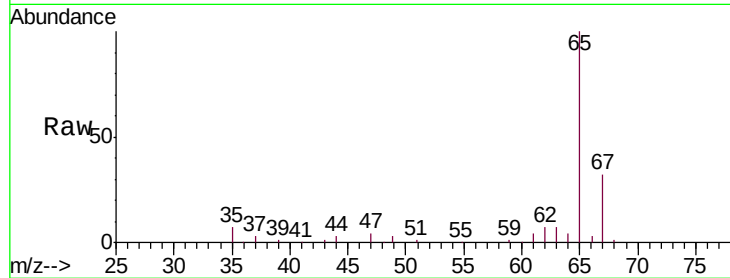
MDL04

Tgt Ion: 62 Resp: 3071

Ion Ratio Lower Upper

62 100

64 56.1 23.3 43.3#



#6

Bromomethane

Concen: 1.364 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV008896.D

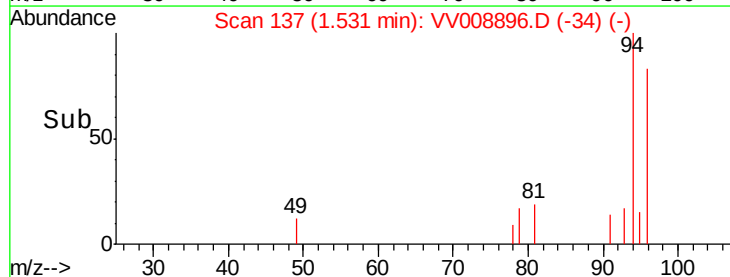
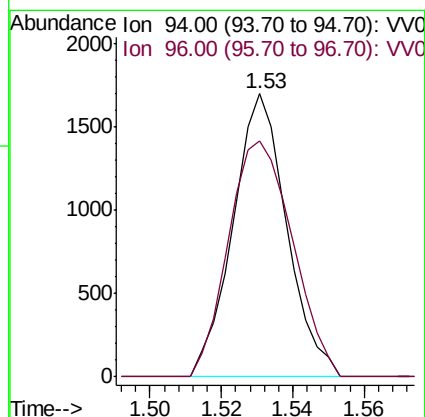
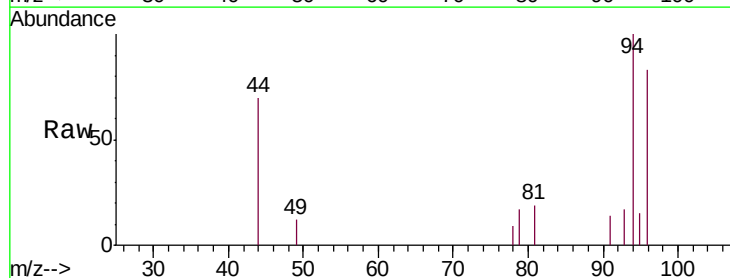
Acq: 11 Dec 2018 13:29

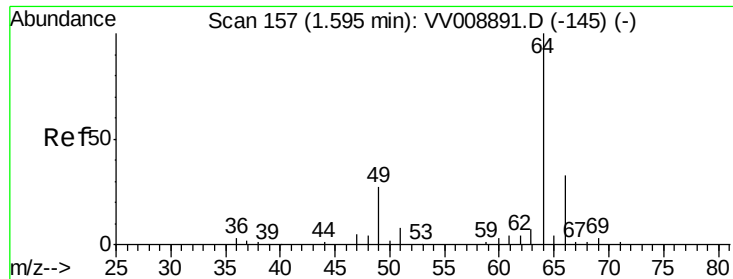
Tgt Ion: 94 Resp: 1769

Ion Ratio Lower Upper

94 100

96 99.2 9.5 180.9





#8

Chloroethane

Concen: 1.588 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

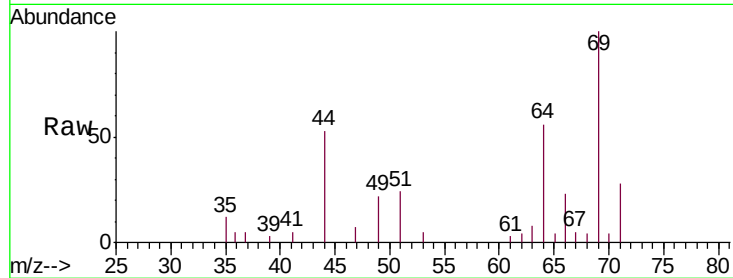
MDL04

Tgt Ion: 64 Resp: 2399

Ion Ratio Lower Upper

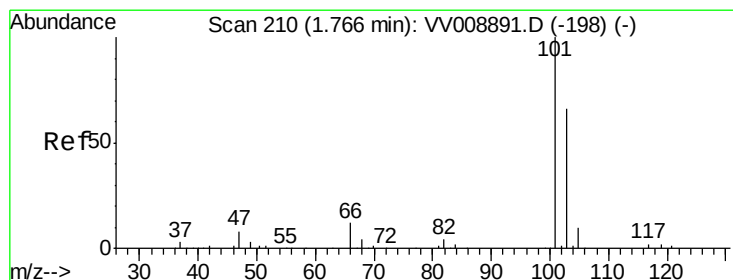
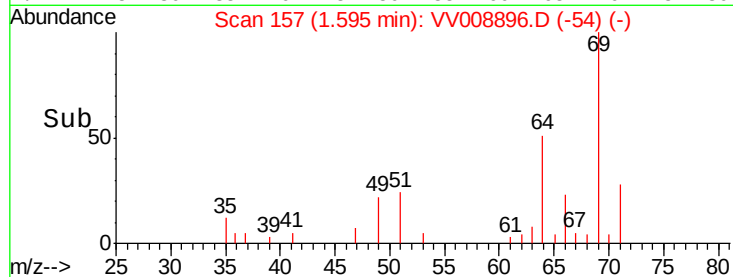
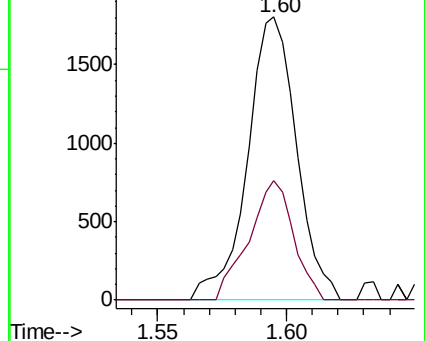
64 100

66 42.2 22.2 41.2#



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0



#9

Trichlorofluoromethane

Concen: 1.386 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV008896.D

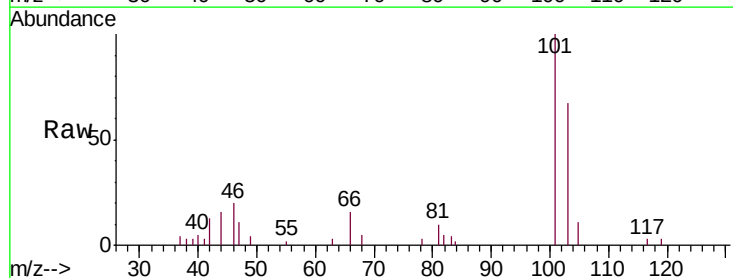
Acq: 11 Dec 2018 13:29

Tgt Ion: 101 Resp: 6403

Ion Ratio Lower Upper

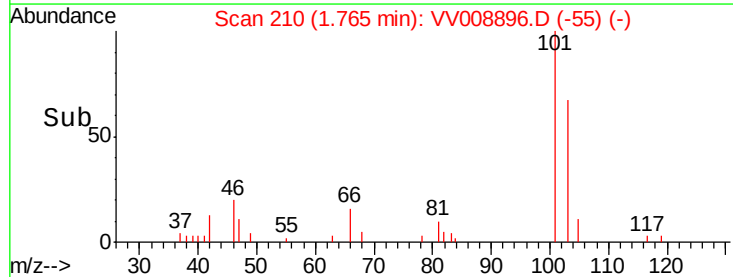
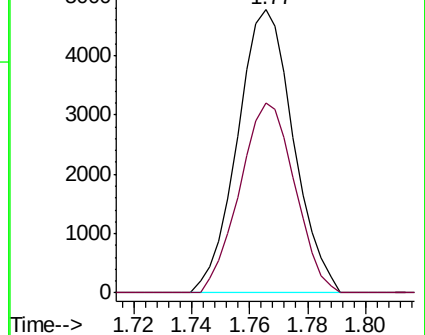
101 100

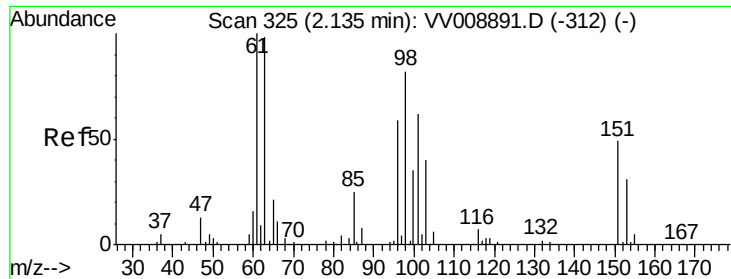
103 65.7 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 1.394 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

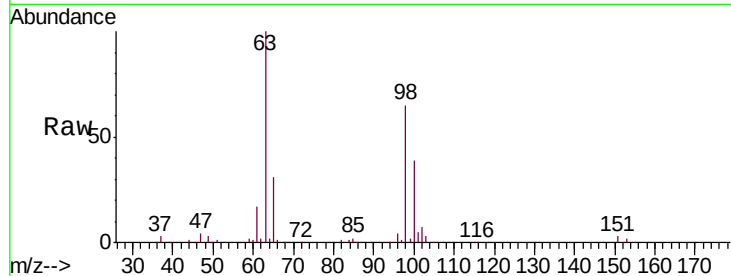
Tgt Ion:101 Resp: 4415

Ion Ratio Lower Upper

101 100

85 34.1 32.5 48.7

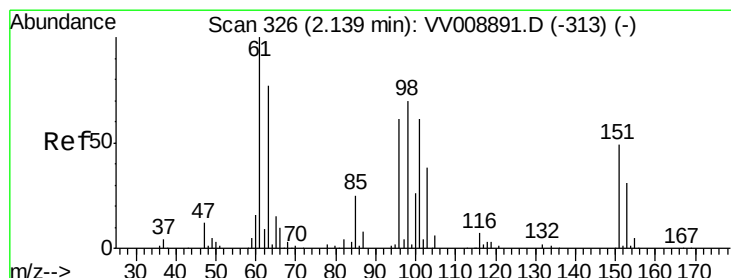
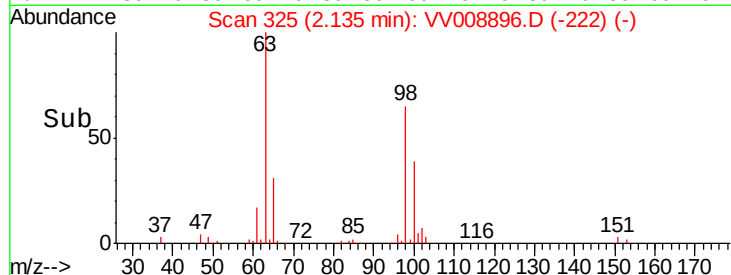
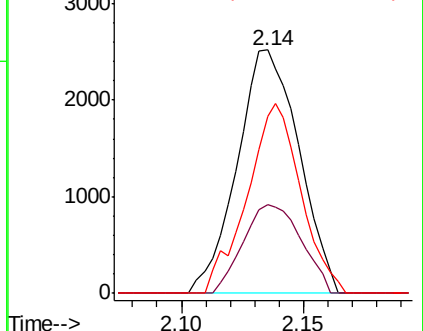
151 67.8 64.2 96.4



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: 1.445 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

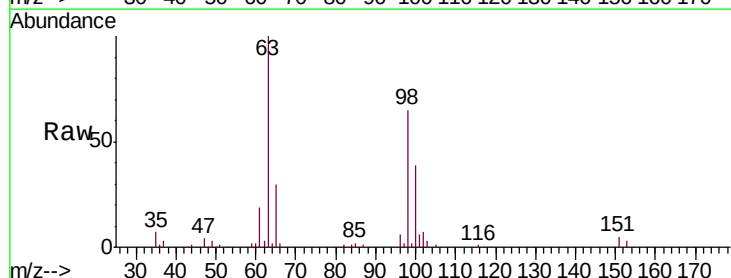
Tgt Ion: 96 Resp: 3996

Ion Ratio Lower Upper

96 100

61 321.3 114.0 211.6#

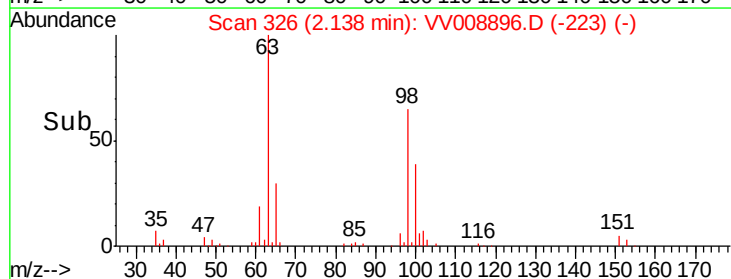
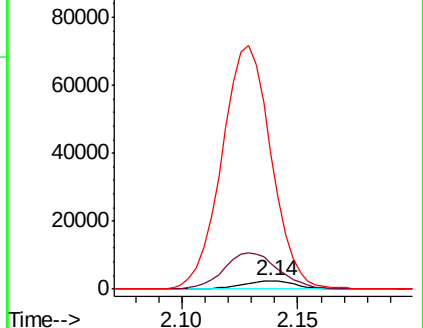
63 1678.8 82.4 153.0#

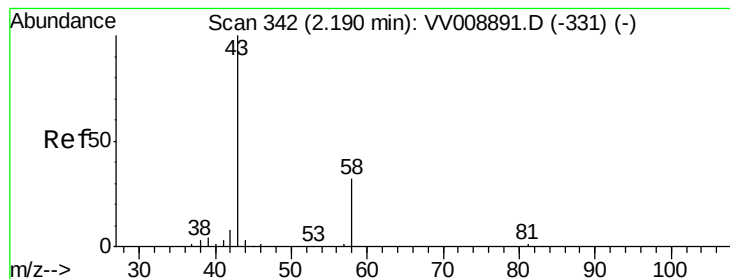


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 2.728 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

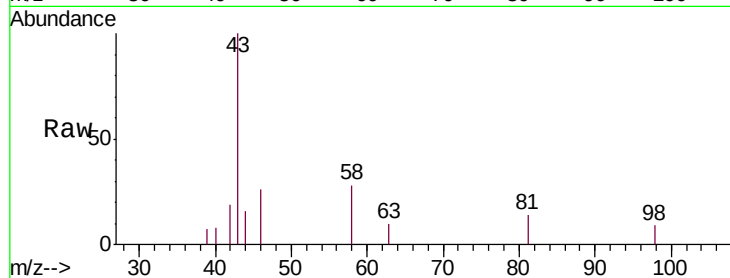
Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion: 43 Resp: 3248

Ion Ratio Lower Upper

43 100

58 26.8 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VV008896.D (-239) (-)

Ion 58.00 (57.70 to 58.70): VV008896.D (-239) (-)

2.20

1500

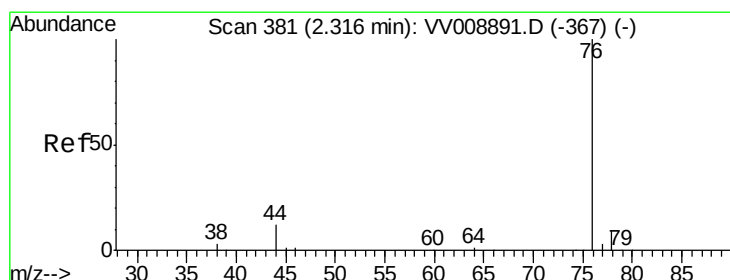
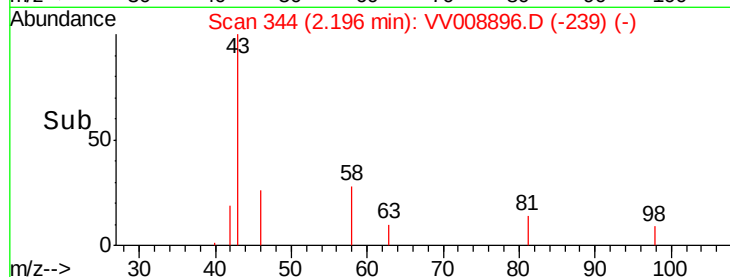
1000

500

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 1.052 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV008896.D

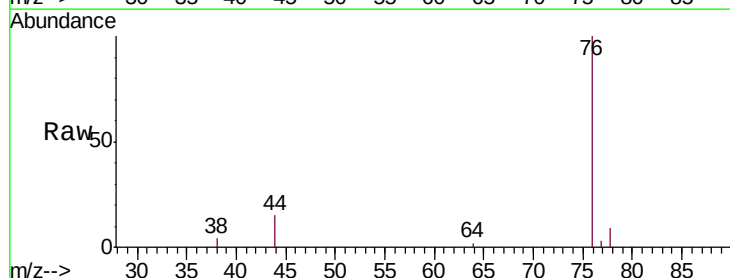
Acq: 11 Dec 2018 13:29

Tgt Ion: 76 Resp: 9339

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV008896.D (-226) (-)

Ion 78.00 (77.70 to 78.70): VV008896.D (-226) (-)

2.32

6000

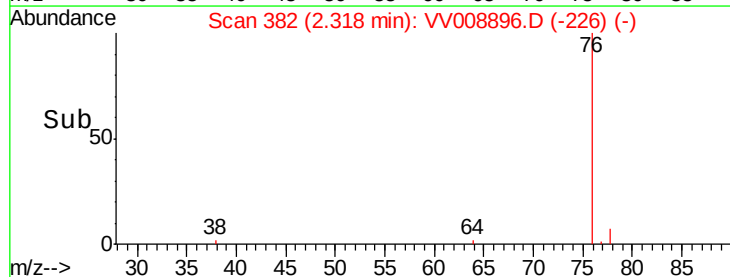
4000

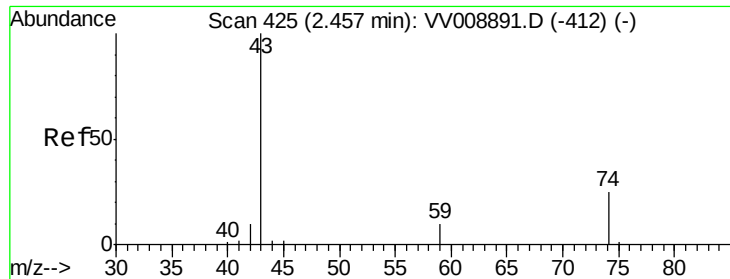
2000

0

Time-->

2.30 2.35

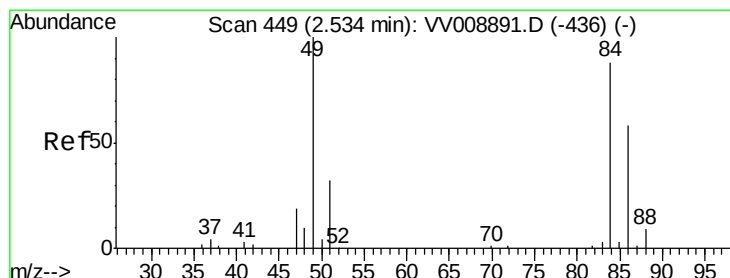
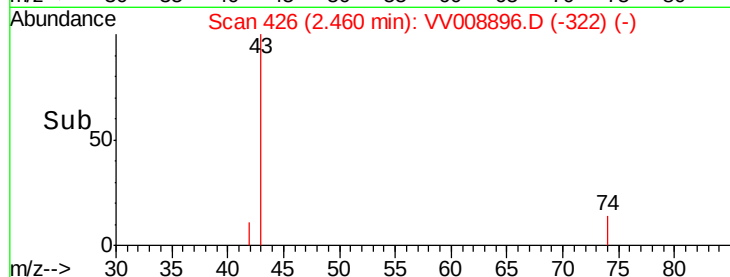
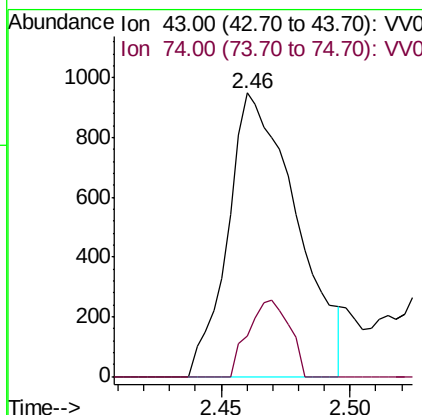
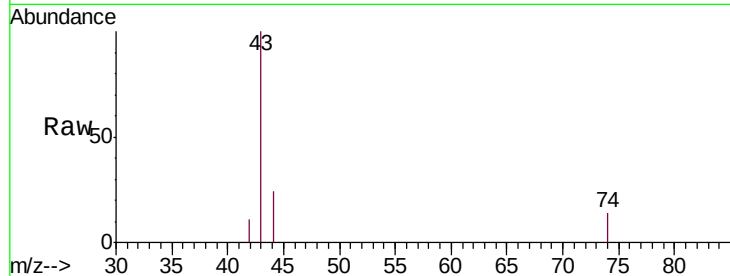




#15
Methyl Acetate
Concen: 1.168 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

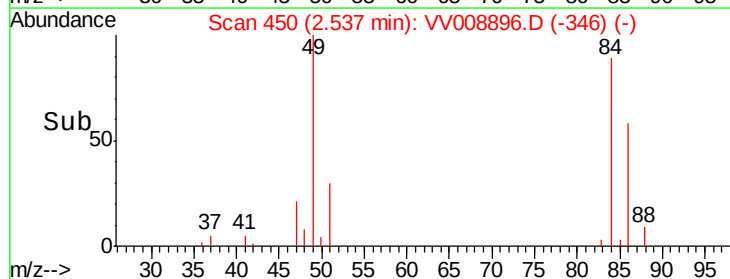
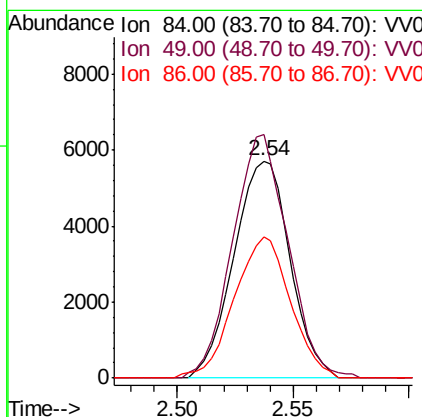
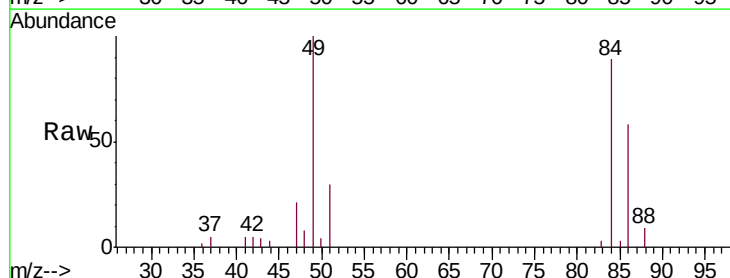
Instrument :
MSVOA_V
ClientSampled :
MDL04

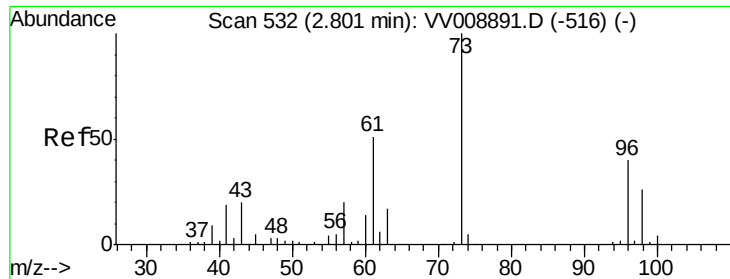
Tgt Ion: 43 Resp: 1764
Ion Ratio Lower Upper
43 100
74 16.0 19.7 29.5#



#16
Methylene chloride
Concen: 2.661 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion: 84 Resp: 9610
Ion Ratio Lower Upper
84 100
49 112.0 80.5 149.5
86 64.9 45.5 84.5

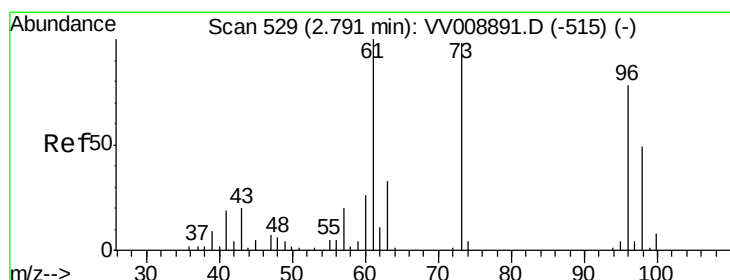
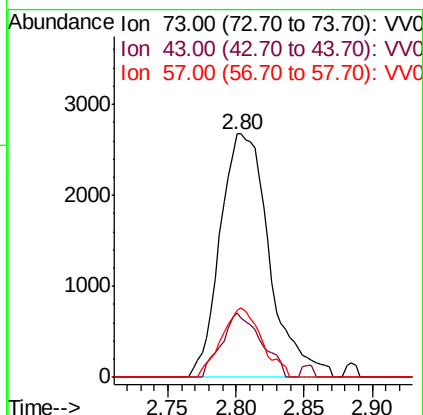
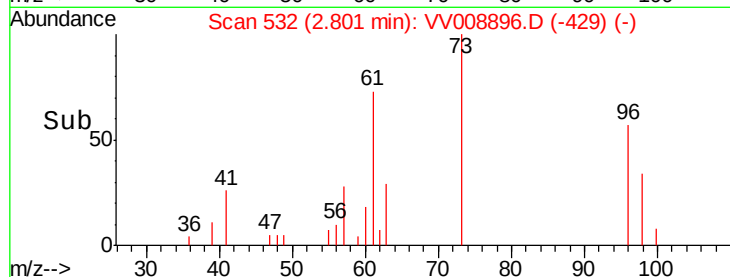
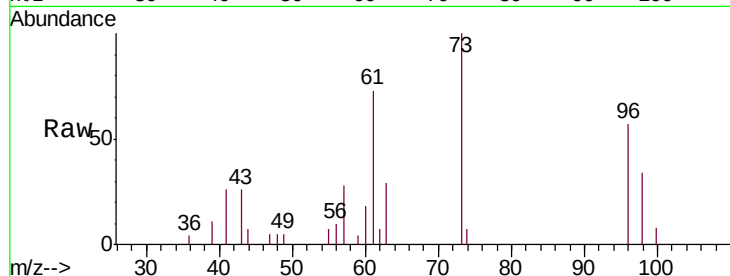




#17
Methyl tert-butyl Ether
Concen: 1.070 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

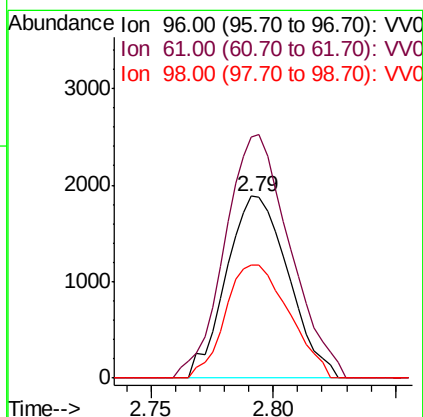
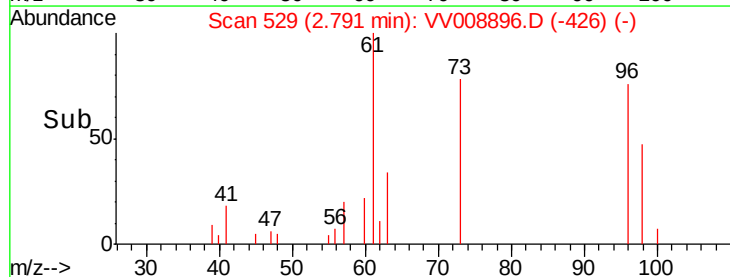
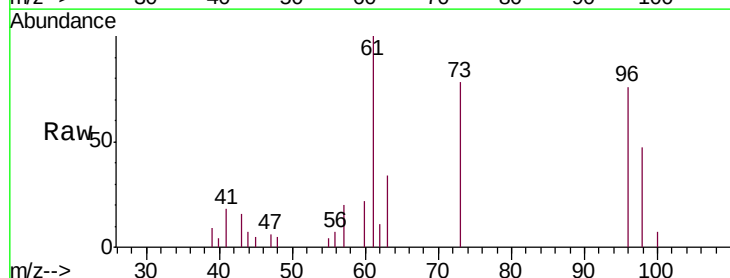
Instrument :
MSVOA_V
ClientSampleId :
MDL04

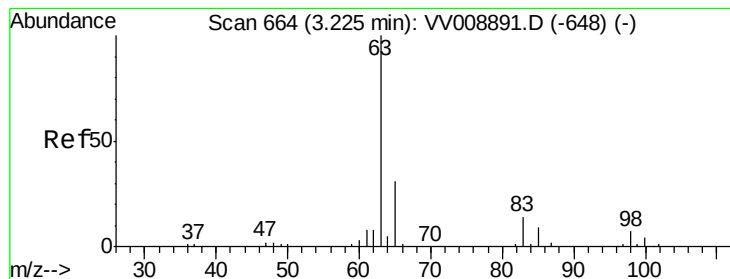
Tgt Ion: 73 Resp: 6720
Ion Ratio Lower Upper
73 100
43 21.2 14.9 22.3
57 23.1 16.0 24.0



#18
trans-1,2-Dichloroethene
Concen: 1.116 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion: 96 Resp: 3335
Ion Ratio Lower Upper
96 100
61 132.4 94.6 175.8
98 61.9 45.3 84.1





#19

1,1-Dichloroethane

Concen: 1.089 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampled :

MDL04

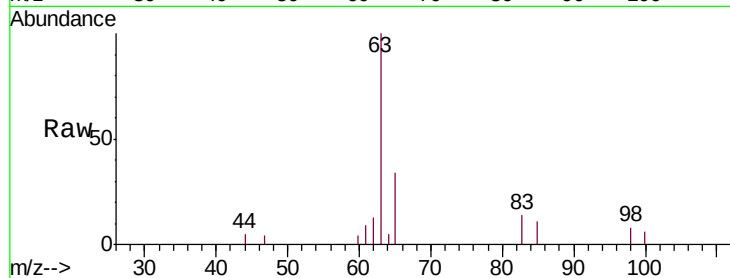
Tgt Ion: 63 Resp: 5273

Ion Ratio Lower Upper

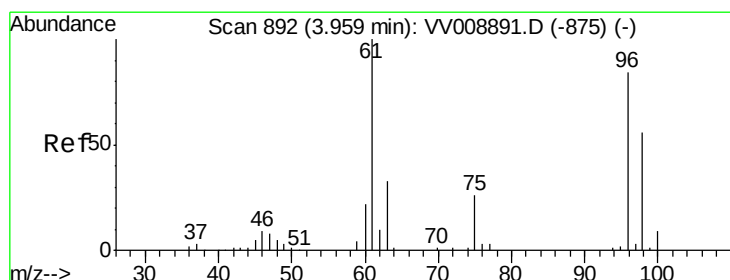
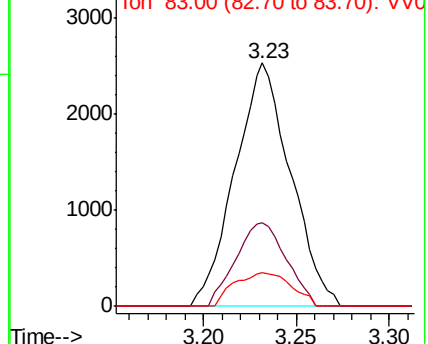
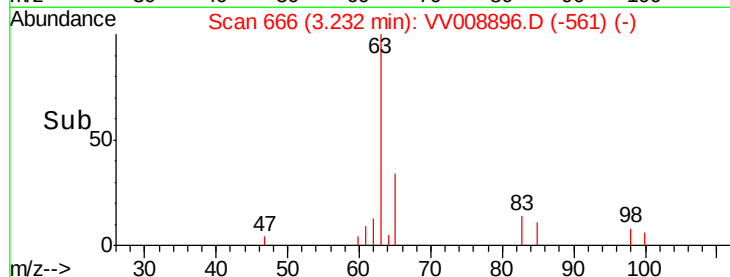
63 100

65 34.4 22.7 42.1

83 14.1 10.2 19.0



Abundance Ion 63.00 (62.70 to 63.70): VV008896.D (-561) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.019 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

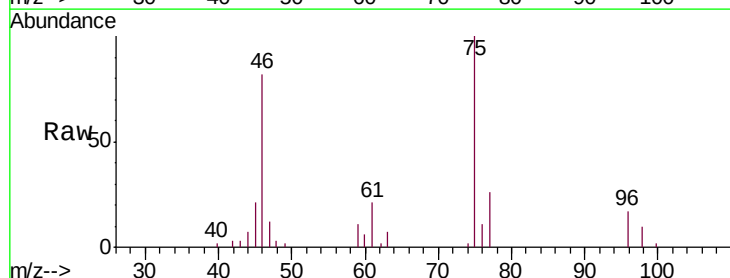
Tgt Ion: 96 Resp: 3175

Ion Ratio Lower Upper

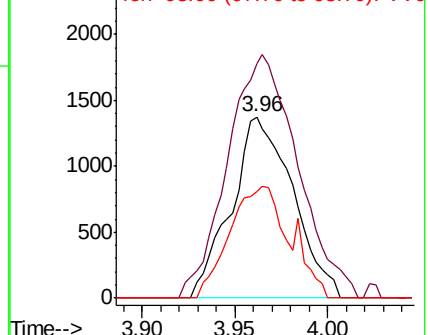
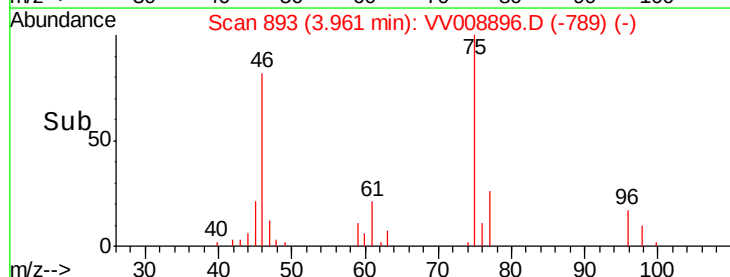
96 100

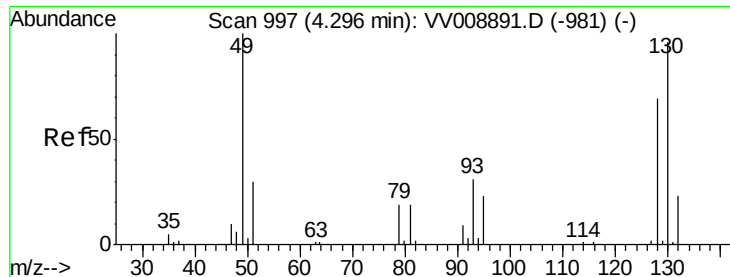
61 129.0 86.2 160.0

98 58.5 45.6 84.6



Abundance Ion 96.00 (95.70 to 96.70): VV008896.D (-789) (-)





#23

Bromochloromethane

Concen: 1.041 ug/L

RT: 4.31 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion:128 Resp: 1529

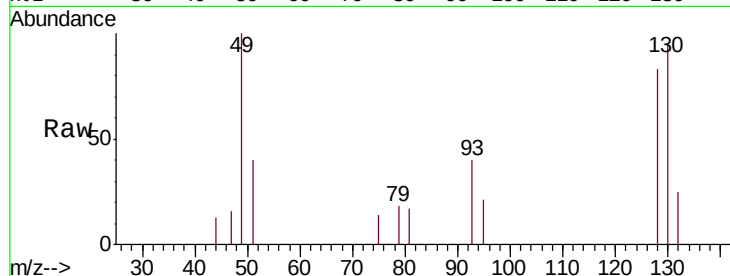
Ion Ratio Lower Upper

128 100

49 120.6 93.8 174.2

130 115.1 90.4 168.0

51 48.0 34.2 51.4

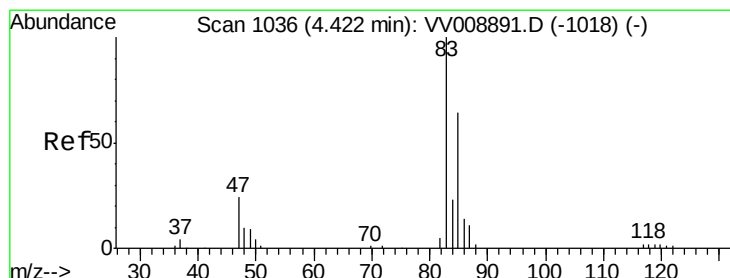
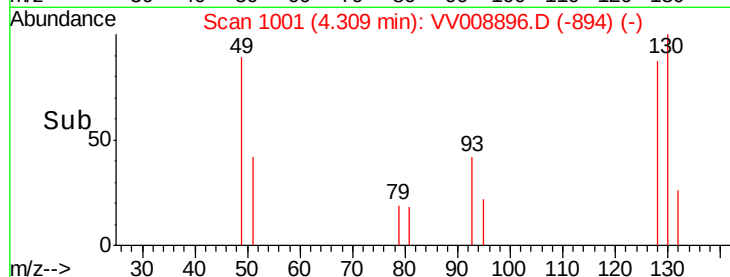
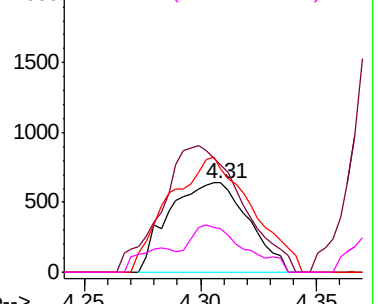


Abundance Ion 128.00 (127.70 to 128.70): V

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: 1.434 ug/L

RT: 4.43 min Scan# 1039

Delta R.T. 0.01 min

Lab File: VV008896.D

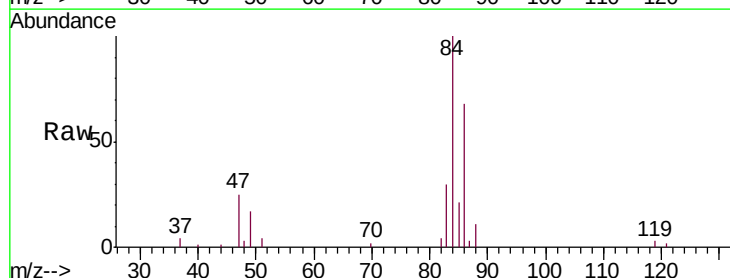
Acq: 11 Dec 2018 13:29

Tgt Ion: 83 Resp: 7454

Ion Ratio Lower Upper

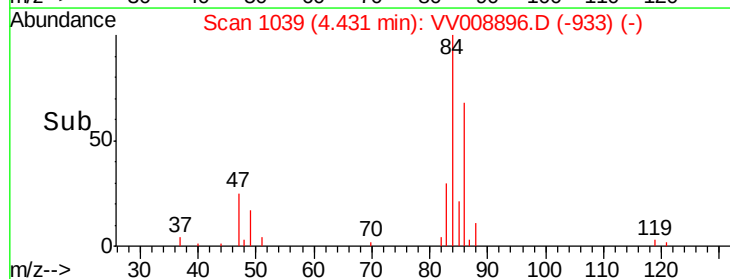
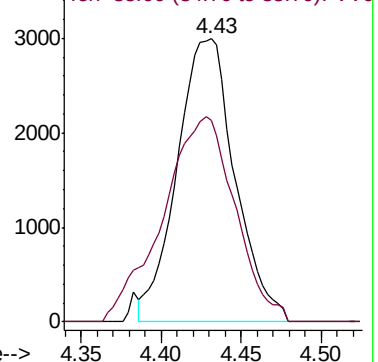
83 100

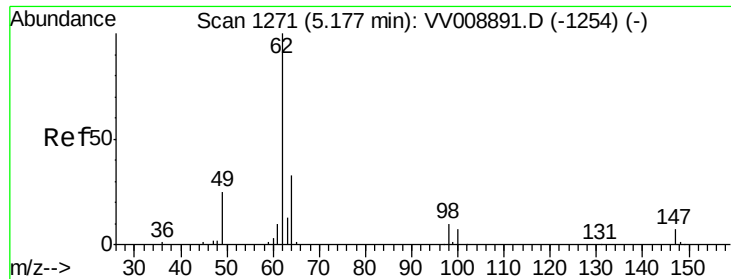
85 90.5 45.6 84.8#



Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

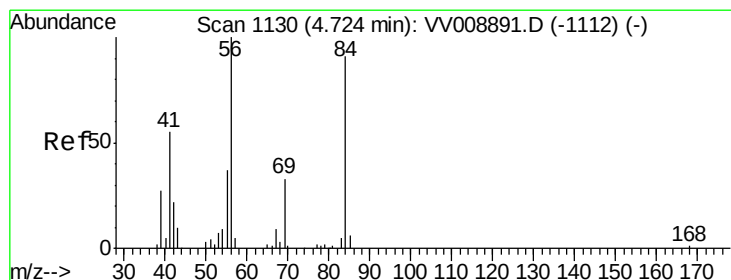
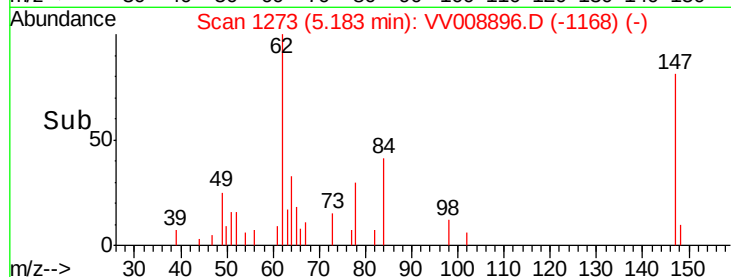
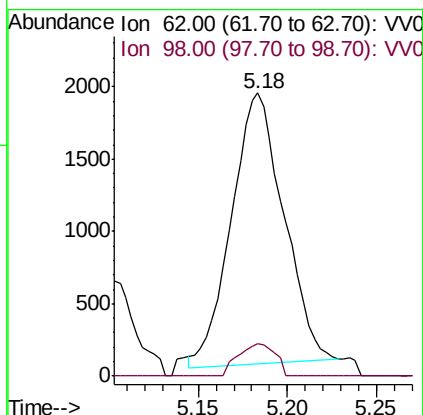
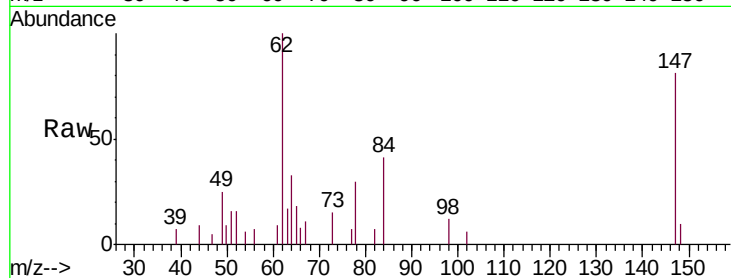




#27
 1,2-Dichloroethane
 Concen: 1.081 ug/L
 RT: 5.18 min Scan# 1273
 Delta R.T. 0.01 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

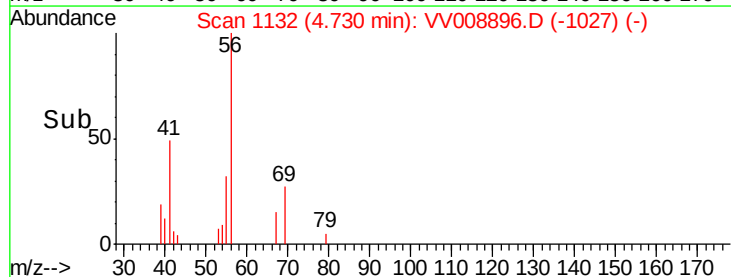
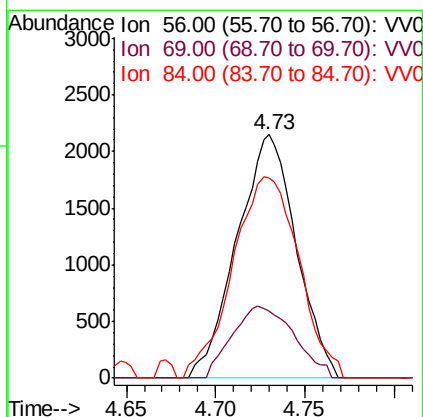
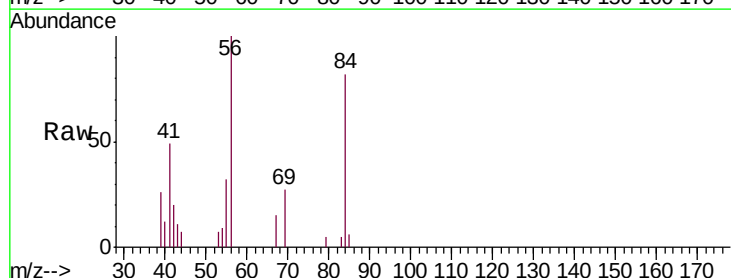
Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

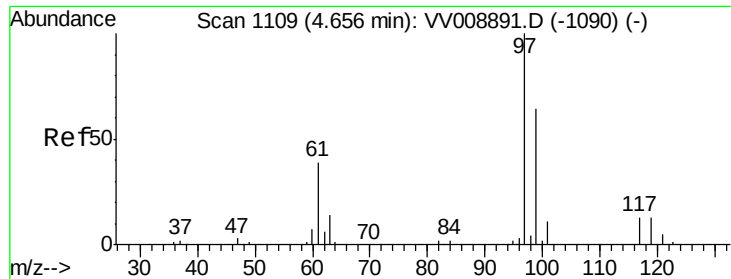
Tgt Ion: 62 Resp: 3829
 Ion Ratio Lower Upper
 62 100
 98 11.5 7.4 11.0#



#30
 Cyclohexane
 Concen: 1.057 ug/L
 RT: 4.73 min Scan# 1132
 Delta R.T. 0.01 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion: 56 Resp: 4973
 Ion Ratio Lower Upper
 56 100
 69 31.0 25.8 38.8
 84 92.3 73.0 109.6

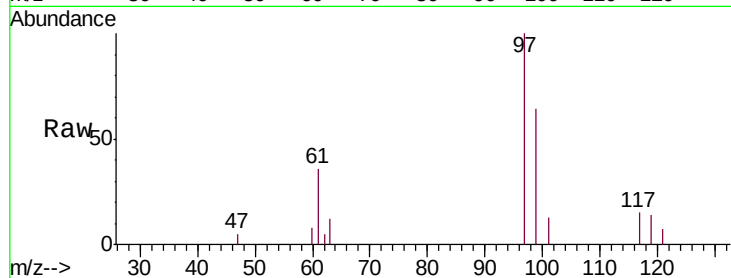




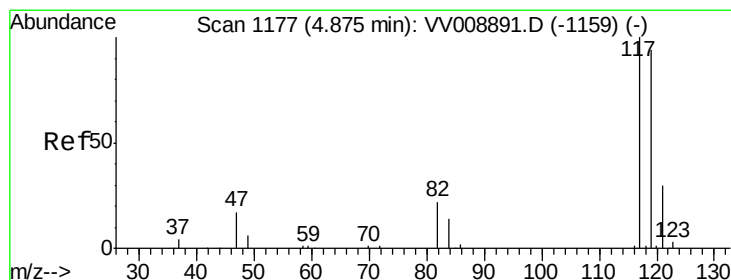
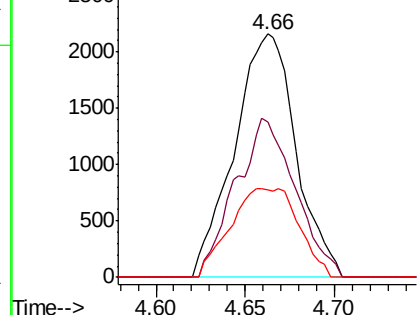
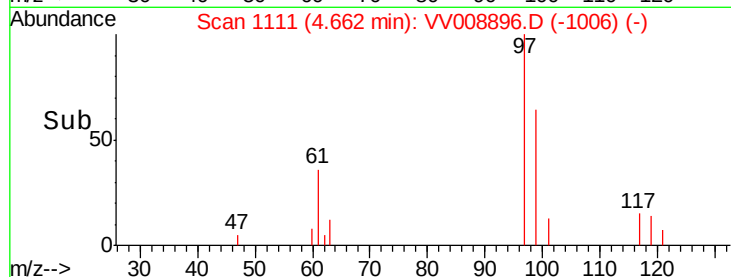
#31
 1,1,1-Trichloroethane
 Concen: 1.081 ug/L
 RT: 4.66 min Scan# 1111
 Delta R.T. 0.01 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion: 97 Resp: 5209
 Ion Ratio Lower Upper
 97 100
 99 46.4 51.9 77.9#
 61 25.8 33.1 49.7#

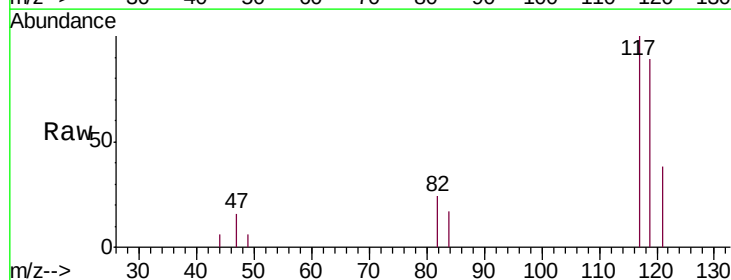


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0

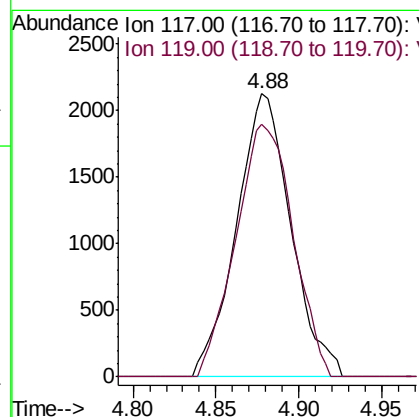
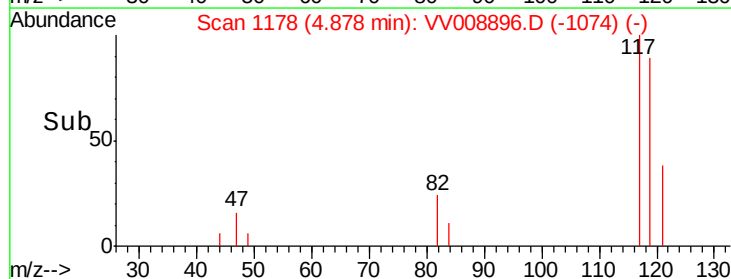


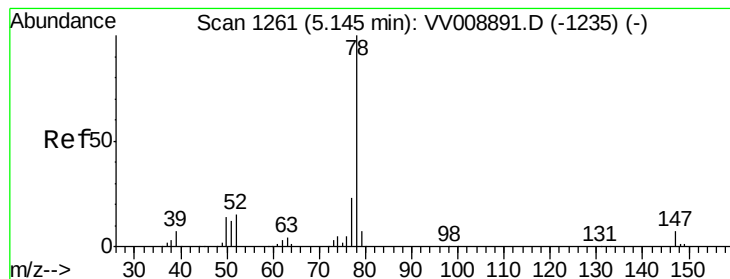
#32
 Carbon tetrachloride
 Concen: 1.103 ug/L
 RT: 4.88 min Scan# 1178
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion: 117 Resp: 4850
 Ion Ratio Lower Upper
 117 100
 119 94.0 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#34

Benzene

Concen: 1.121 ug/L

RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

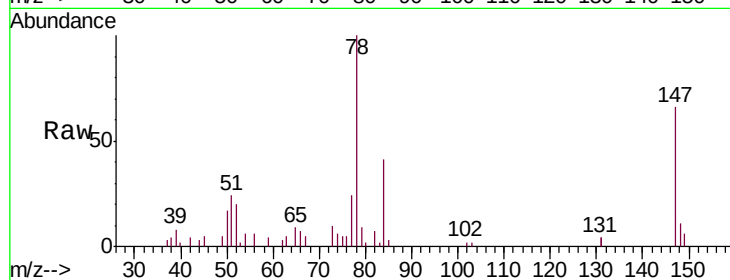
Instrument :

MSVOA_V

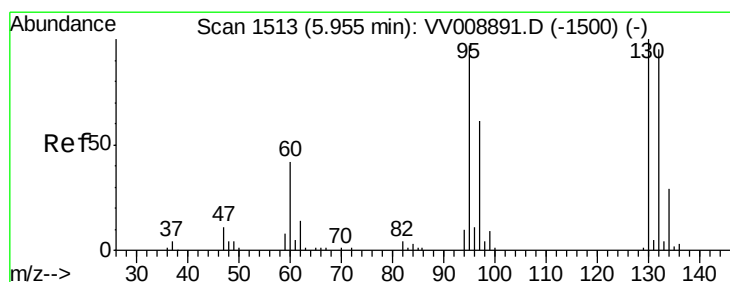
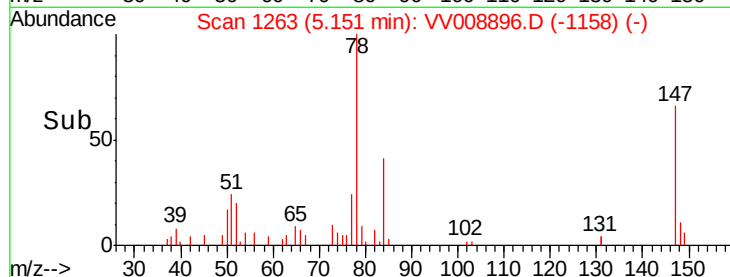
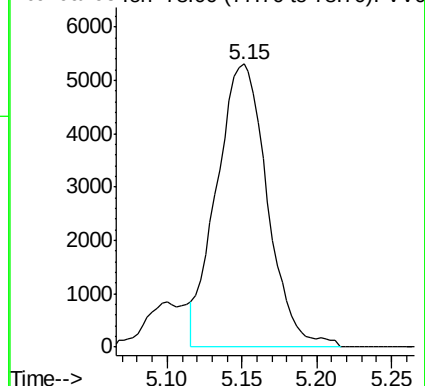
ClientSampled :

MDL04

Tgt Ion: 78 Resp: 12546



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Trichloroethene

Concen: 1.152 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Tgt Ion: 95 Resp: 3889

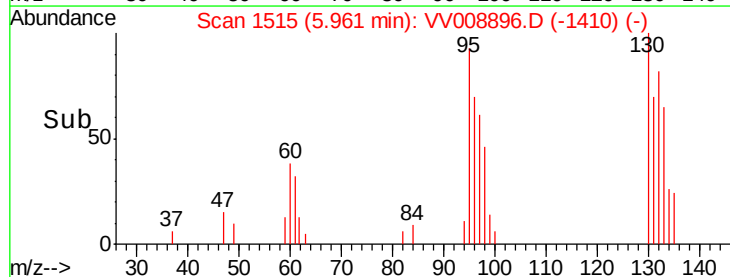
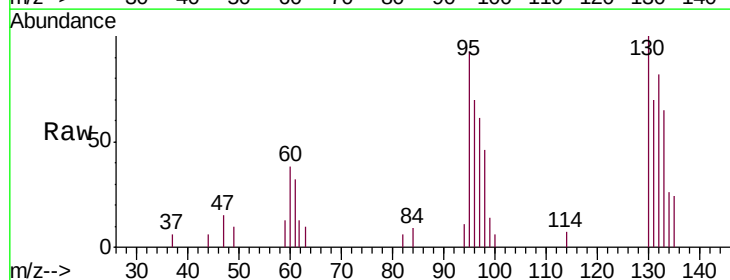
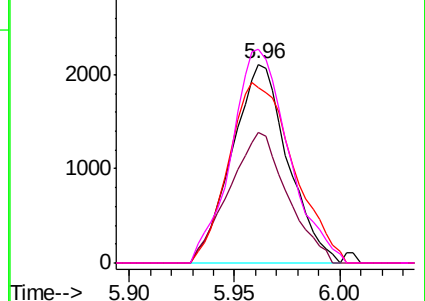
Ion	Ratio	Lower	Upper
95	100		
97	68.3	45.3	84.1
132	105.5	70.0	130.0
130	110.4	73.4	136.4

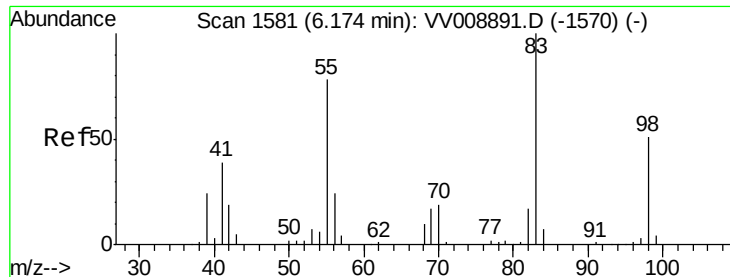
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

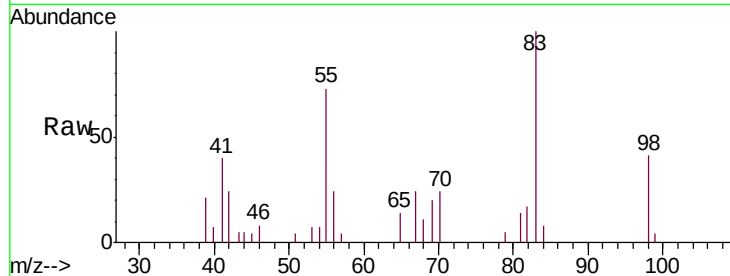




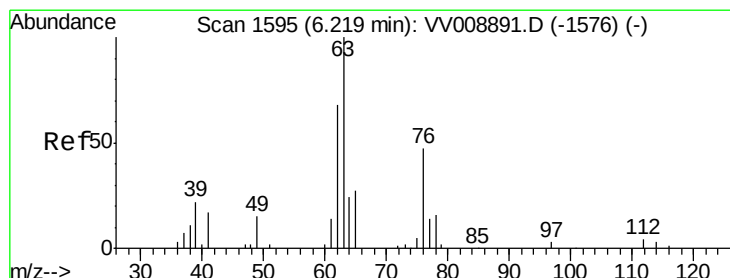
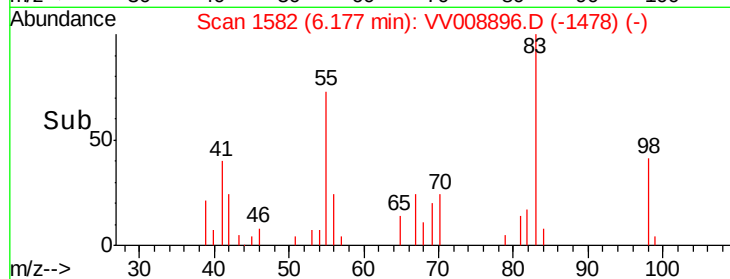
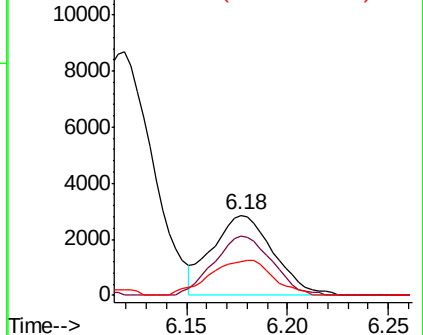
#36
Methylcyclohexane
Concen: 1.121 ug/L
RT: 6.18 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tgt Ion: 83 Resp: 6034
Ion Ratio Lower Upper
83 100
55 70.1 58.2 87.2
98 44.7 37.8 56.8

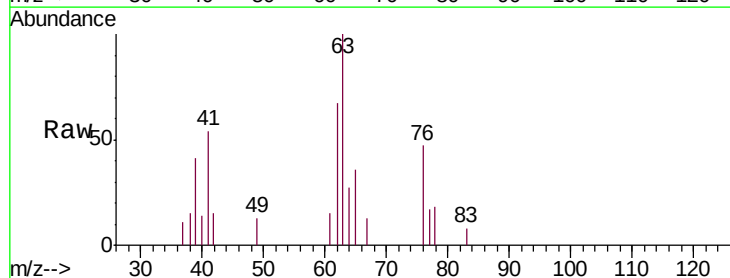


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

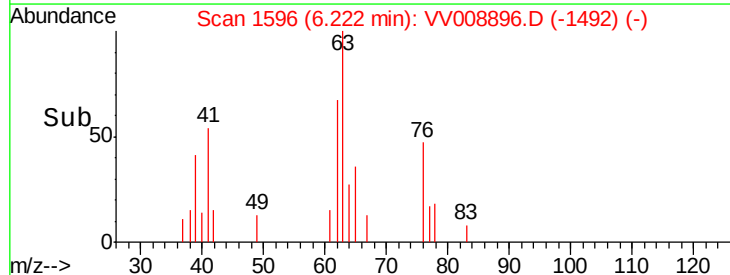
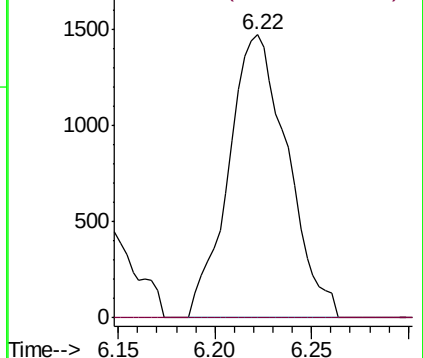


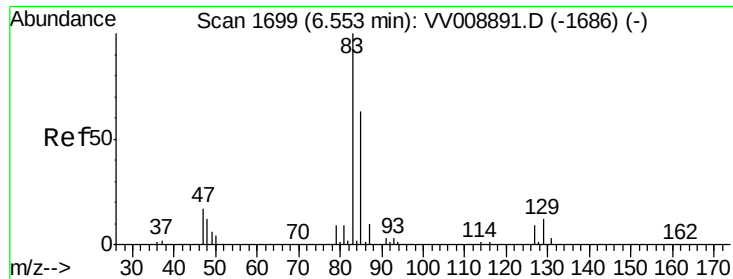
#40
1,2-Dichloropropane
Concen: 1.165 ug/L
RT: 6.22 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion: 63 Resp: 3129
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.8#



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





#41

Bromodichloromethane

Concen: 1.082 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampled :

MDL04

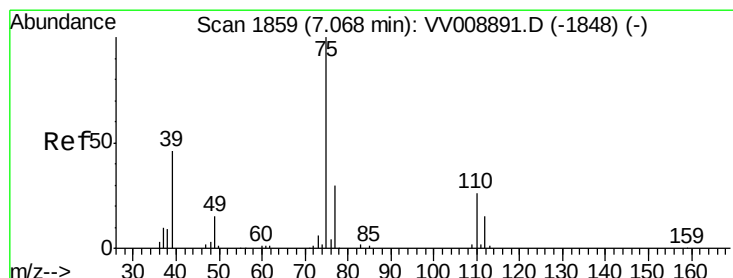
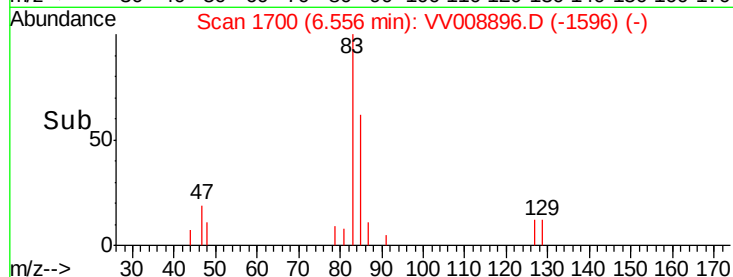
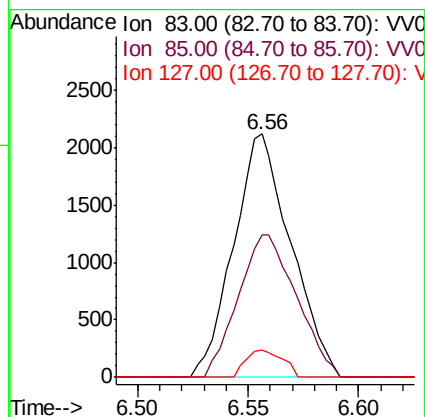
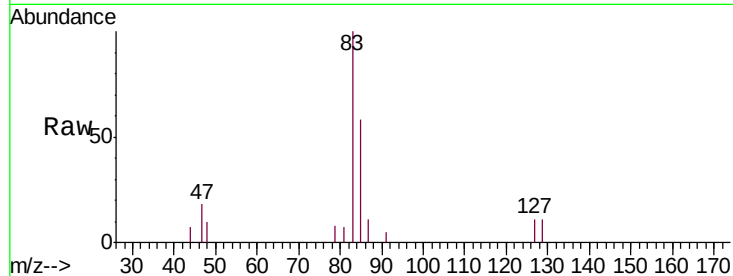
Tgt Ion: 83 Resp: 3830

Ion Ratio Lower Upper

83 100

85 58.4 45.3 84.1

127 11.0 7.2 10.8#



#42

cis-1,3-Dichloropropene

Concen: 1.125 ug/L

RT: 7.07 min Scan# 1861

Delta R.T. 0.01 min

Lab File: VV008896.D

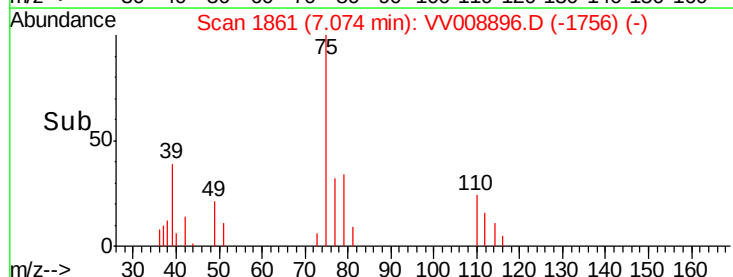
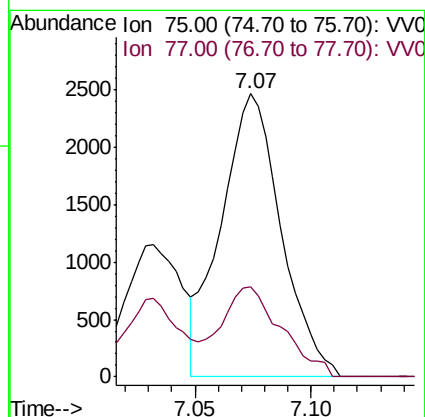
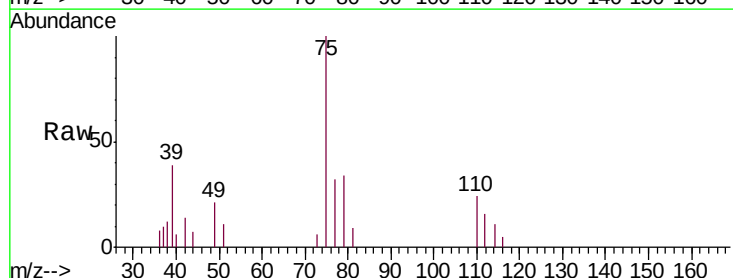
Acq: 11 Dec 2018 13:29

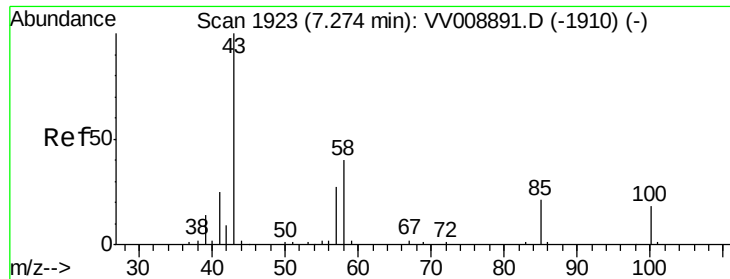
Tgt Ion: 75 Resp: 4424

Ion Ratio Lower Upper

75 100

77 31.8 21.3 39.6

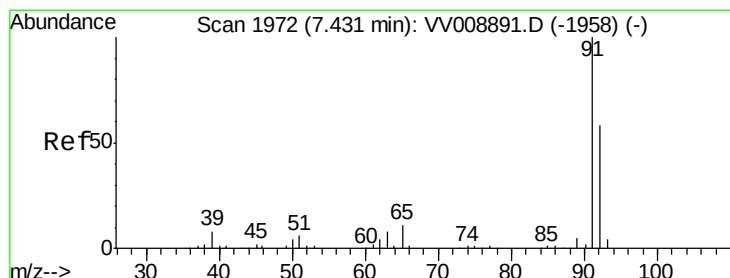
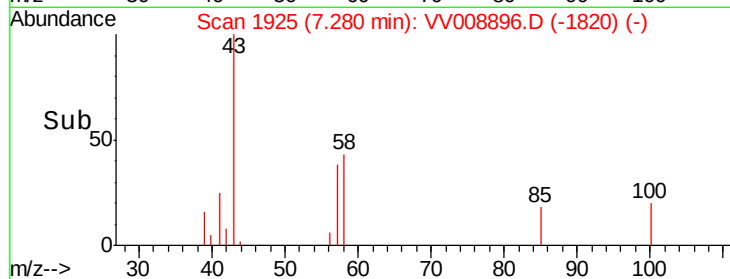
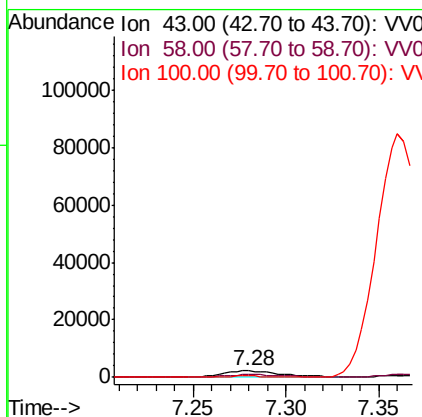
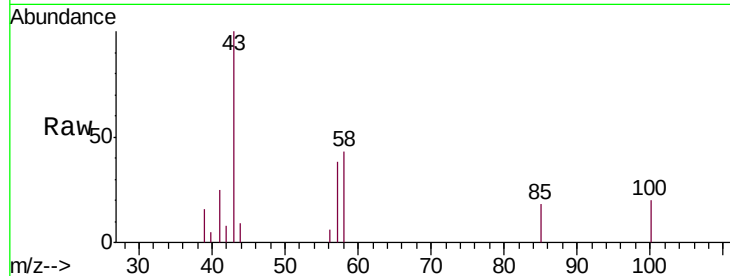




#43
4-Methyl-2-pentanone
Concen: 2.763 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

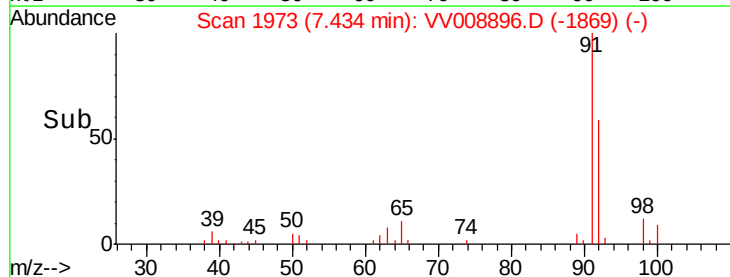
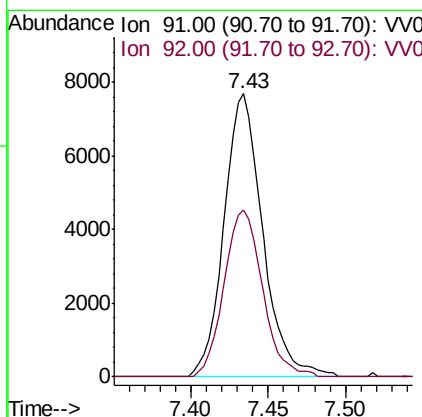
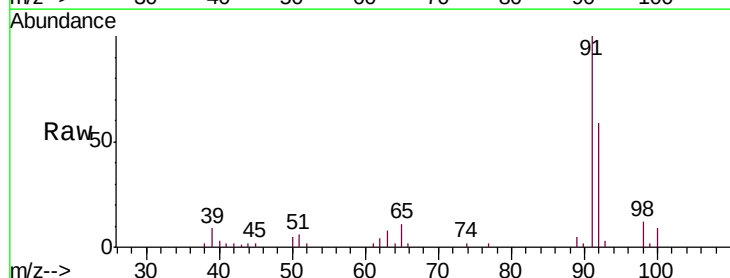
Instrument :
MSVOA_V
ClientSampleId :
MDL04

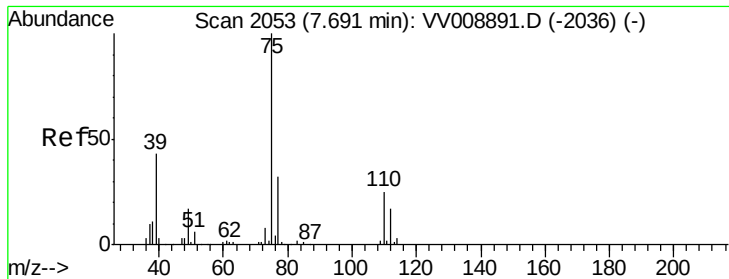
Tgt Ion: 43 Resp: 5017
Ion Ratio Lower Upper
43 100
58 41.6 32.2 48.4
100 15.1 13.8 20.8



#44
Toluene
Concen: 1.136 ug/L
RT: 7.43 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion: 91 Resp: 13342
Ion Ratio Lower Upper
91 100
92 58.8 41.7 77.5





#45

trans-1,3-Dichloropropene

Concen: 1.062 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampled :

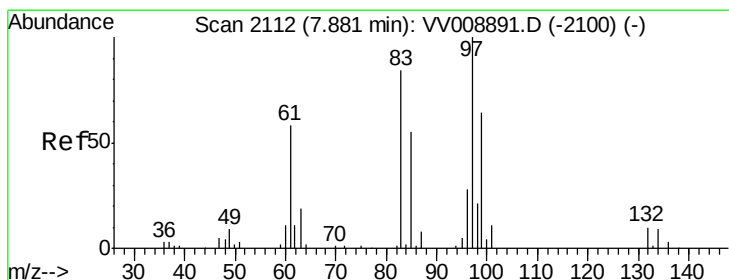
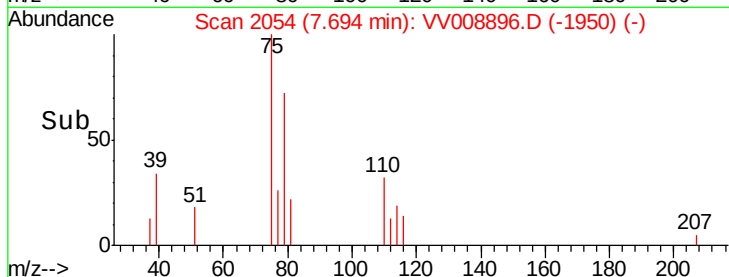
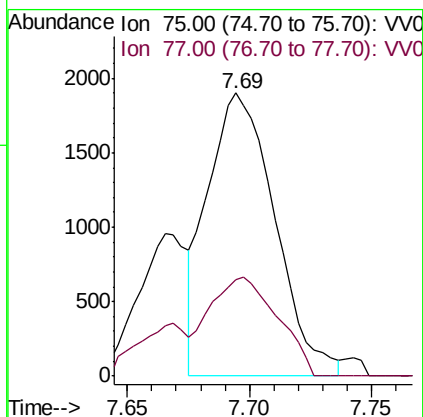
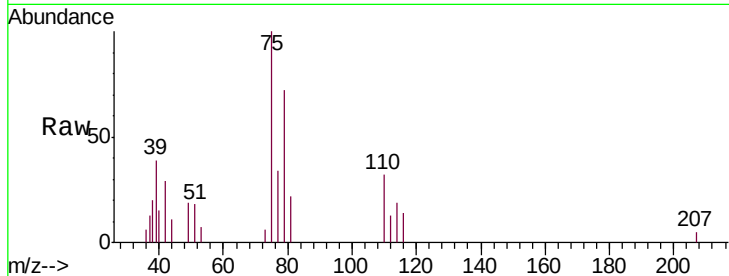
MDL04

Tgt Ion: 75 Resp: 3642

Ion Ratio Lower Upper

75 100

77 34.2 23.6 43.8



#46

1,1,2-Trichloroethane

Concen: 1.055 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Tgt Ion: 97 Resp: 2361

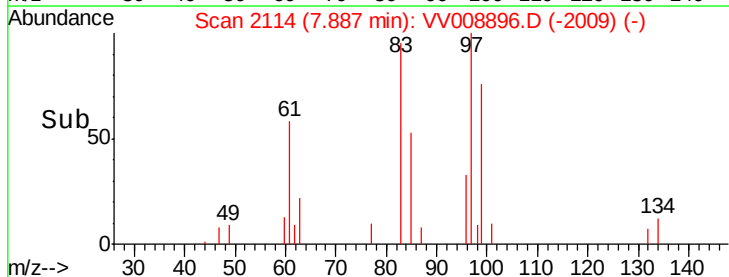
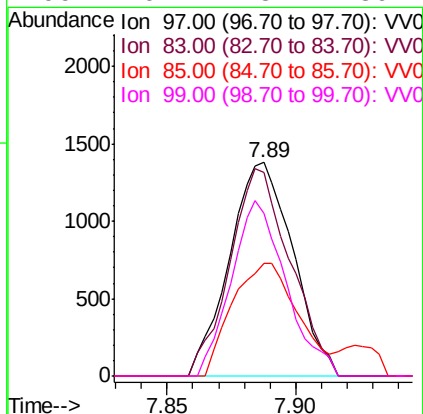
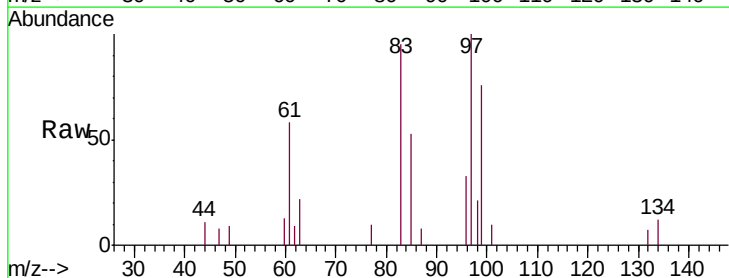
Ion Ratio Lower Upper

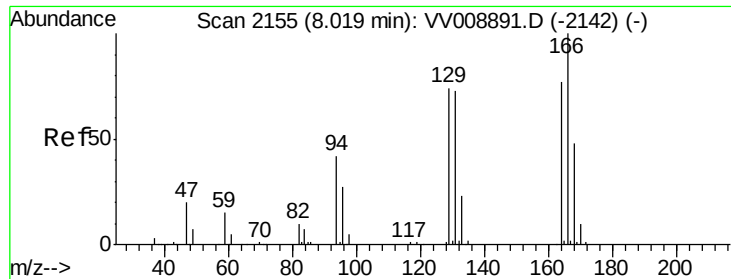
97 100

83 95.1 56.6 105.2

85 52.9 36.6 68.0

99 76.2 43.2 80.2





#47

Tetrachloroethene

Concen: 1.096 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tgt Ion:164 Resp: 3007

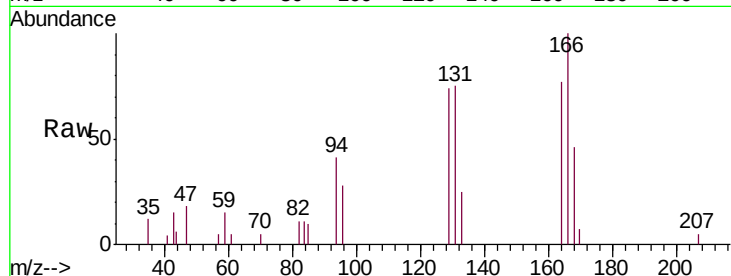
Ion Ratio Lower Upper

164 100

129 95.7 64.6 120.0

131 97.6 64.5 119.7

166 129.5 88.7 164.7

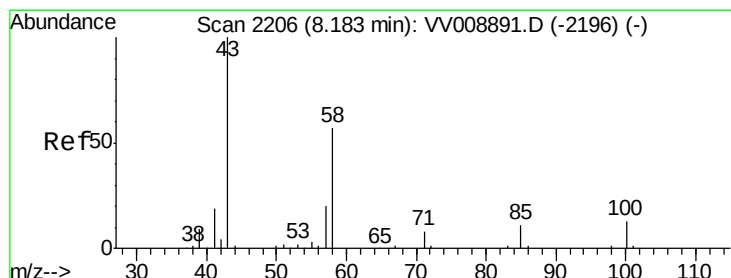
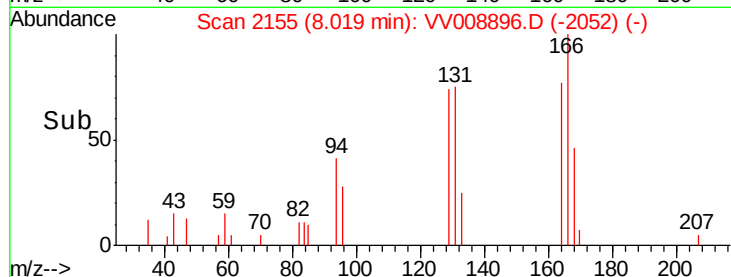
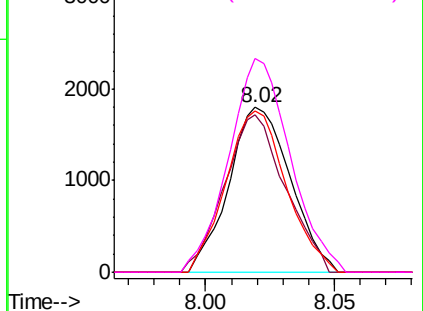


Abundance Ion 164.00 (163.70 to 164.70): V

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



#49

2-Hexanone

Concen: 3.792 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Tgt Ion: 43 Resp: 5697

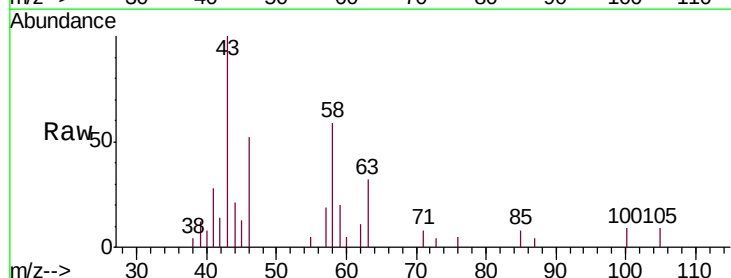
Ion Ratio Lower Upper

43 100

58 48.5 43.9 65.9

57 10.1 15.7 23.5#

100 5.8 11.0 16.4#

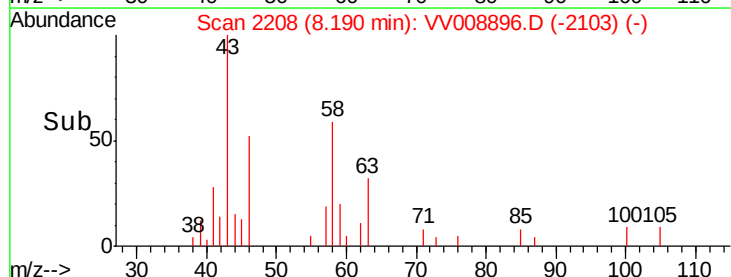
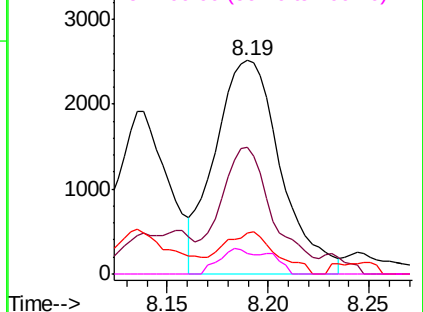


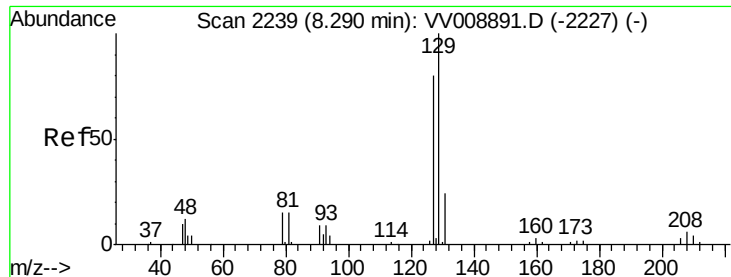
Abundance Ion 43.00 (42.70 to 43.70): VV0

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: 1.139 ug/L

RT: 8.29 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

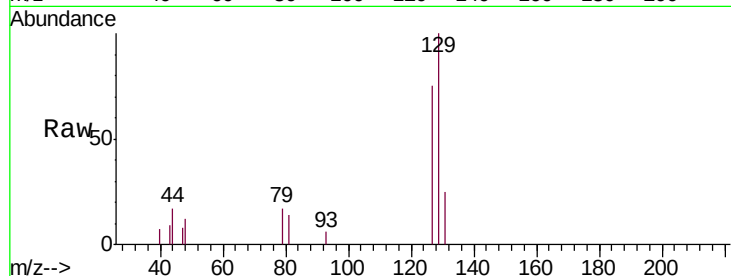
MDL04

Tgt Ion:129 Resp: 2924

Ion Ratio Lower Upper

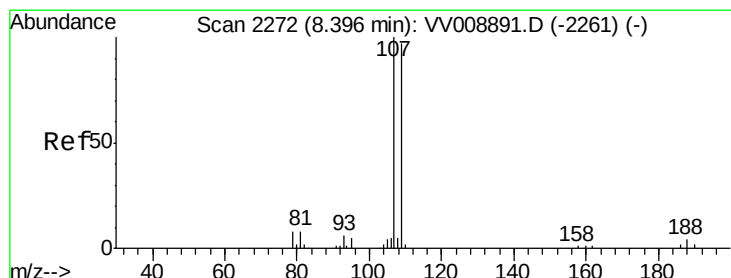
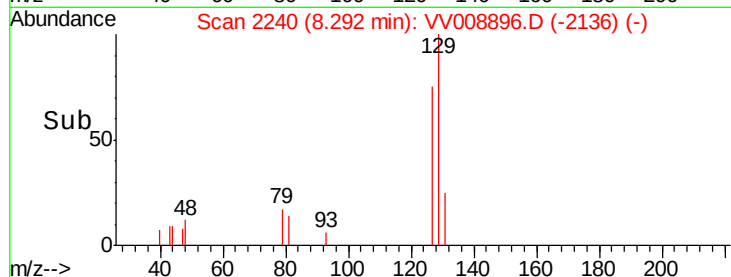
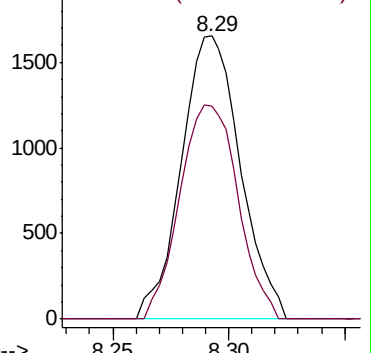
129 100

127 75.1 53.5 99.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 1.004 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

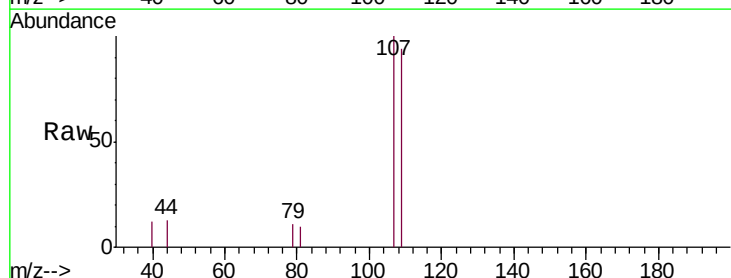
Tgt Ion:107 Resp: 2258

Ion Ratio Lower Upper

107 100

109 94.3 65.8 122.2

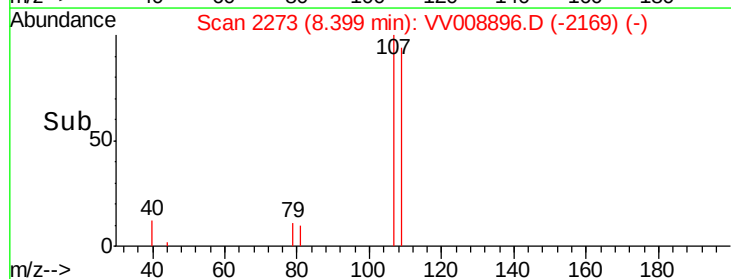
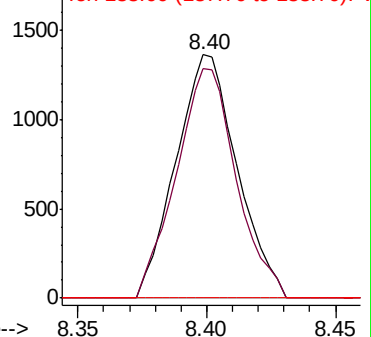
188 0.0 3.0 4.6#

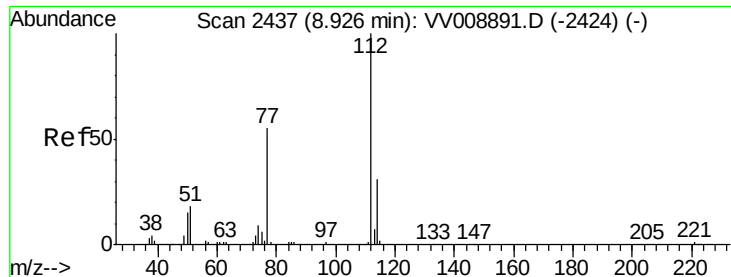


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V





#52

Chlorobenzene

Concen: 1.132 ug/L

RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

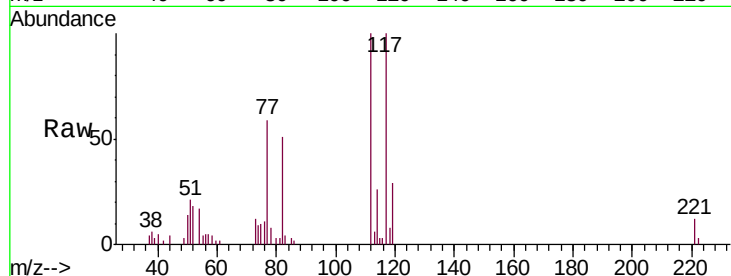
Tgt Ion: 112 Resp: 8657

Ion Ratio Lower Upper

112 100

77 59.3 44.6 66.8

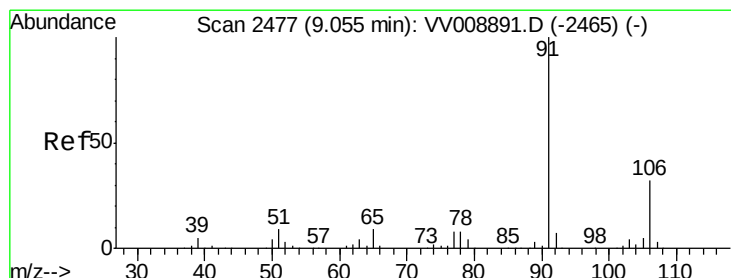
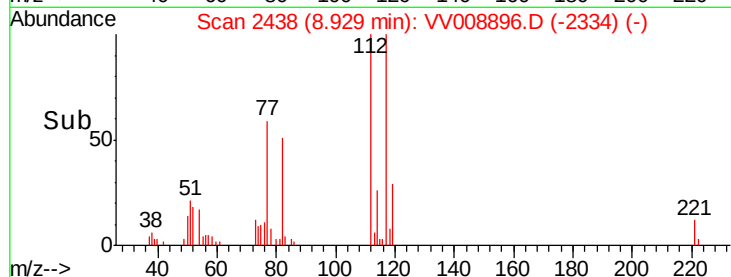
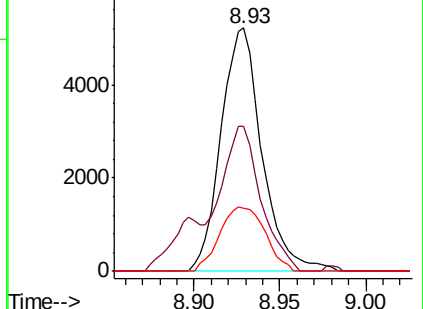
114 26.2 22.6 42.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 1.036 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008896.D

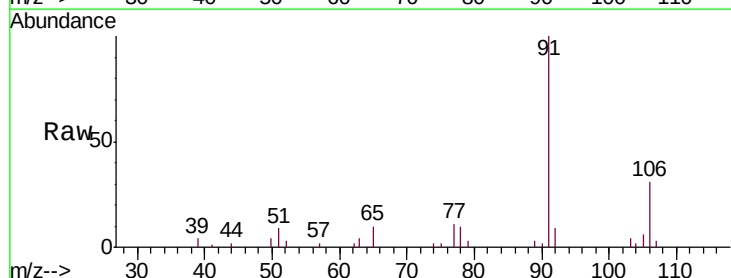
Acq: 11 Dec 2018 13:29

Tgt Ion: 91 Resp: 13201

Ion Ratio Lower Upper

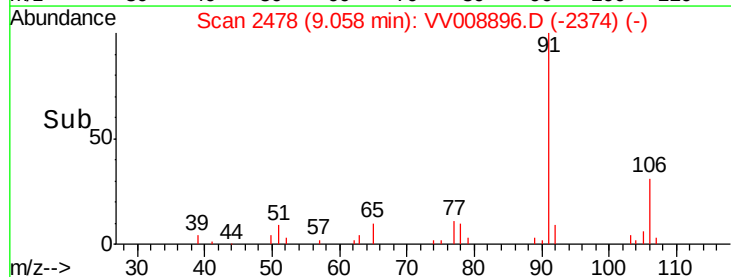
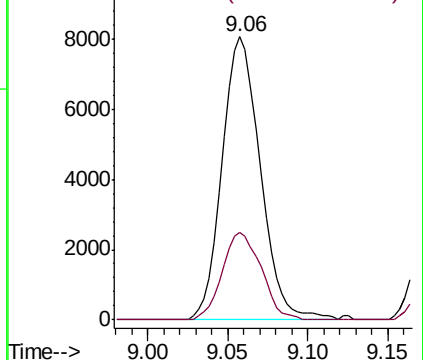
91 100

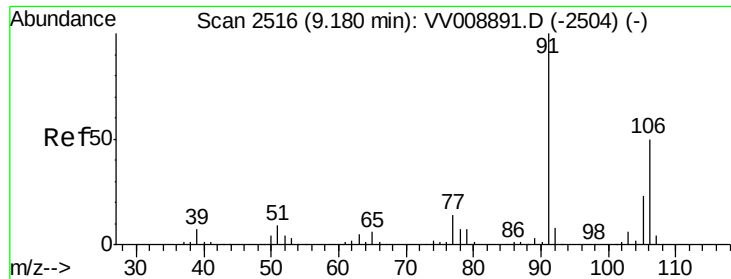
106 31.1 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 1.013 ug/L

RT: 9.19 min Scan# 2518

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampled :

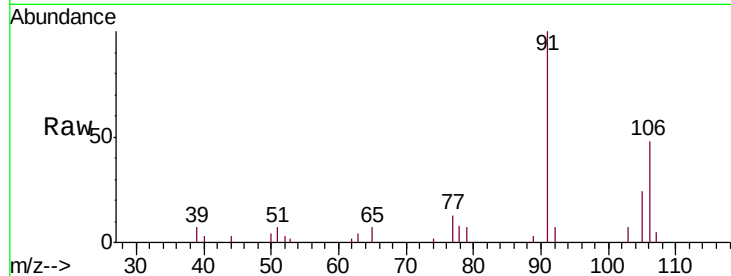
MDL04

Tgt Ion:106 Resp: 4883

Ion Ratio Lower Upper

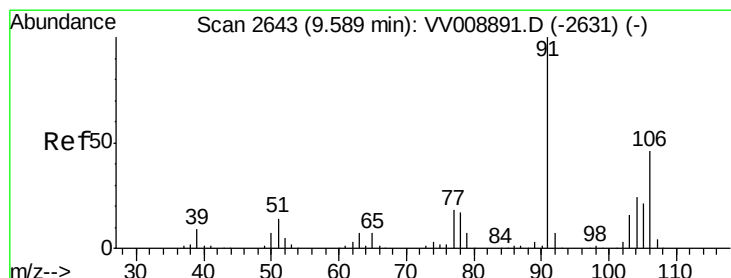
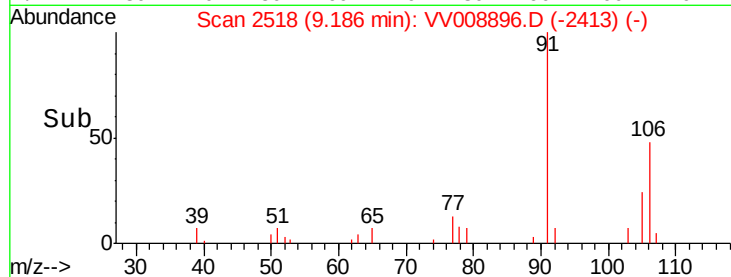
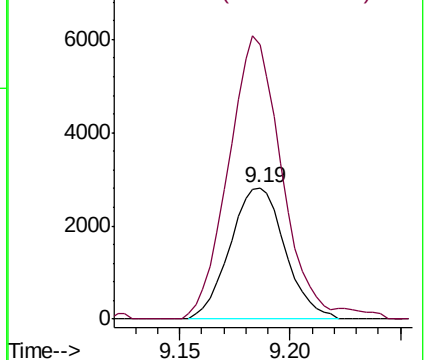
106 100

91 208.4 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

o-xylene

Concen: 0.986 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV008896.D

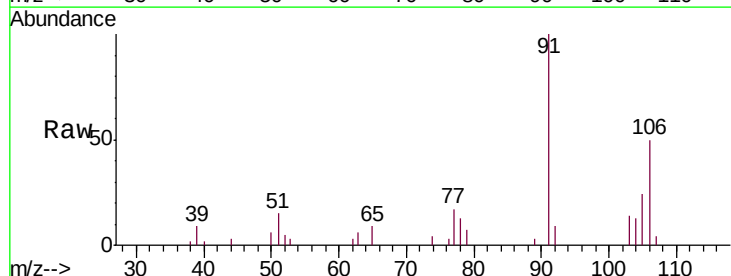
Acq: 11 Dec 2018 13:29

Tgt Ion:106 Resp: 4420

Ion Ratio Lower Upper

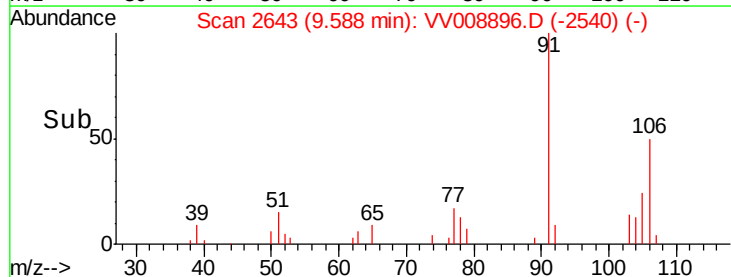
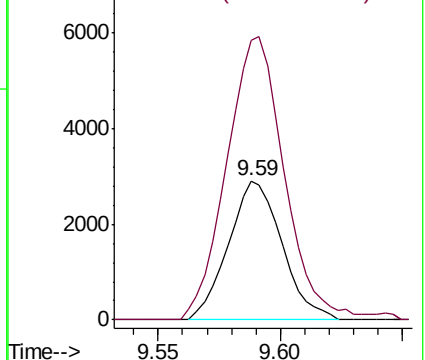
106 100

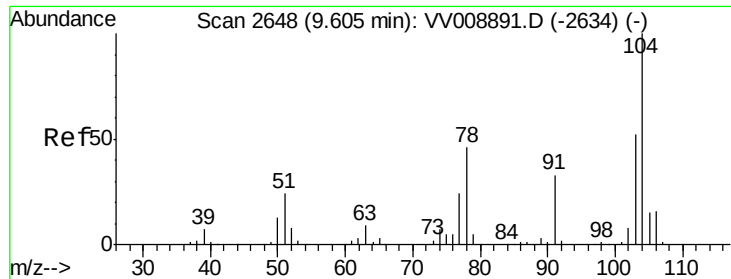
91 200.9 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Styrene

Concen: 0.915 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleID :

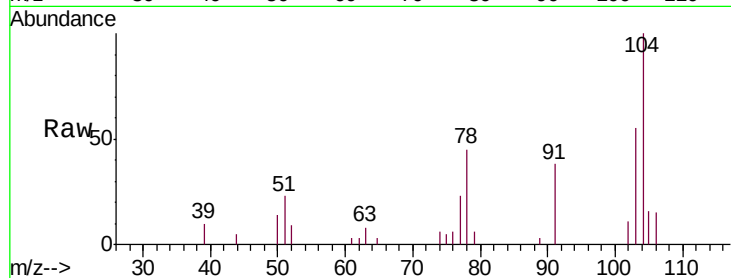
MDL04

Tgt Ion:104 Resp: 6611

Ion Ratio Lower Upper

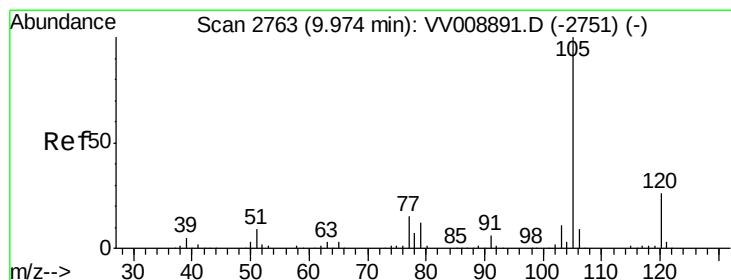
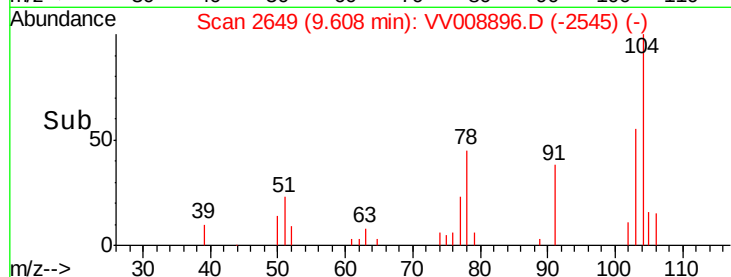
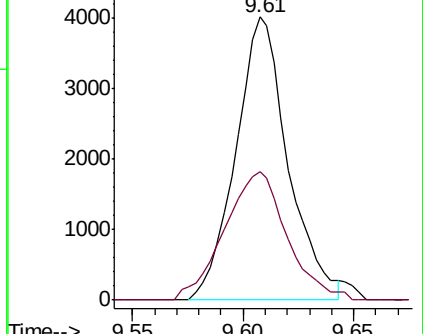
104 100

78 45.5 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#57

Isopropylbenzene

Concen: 0.972 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

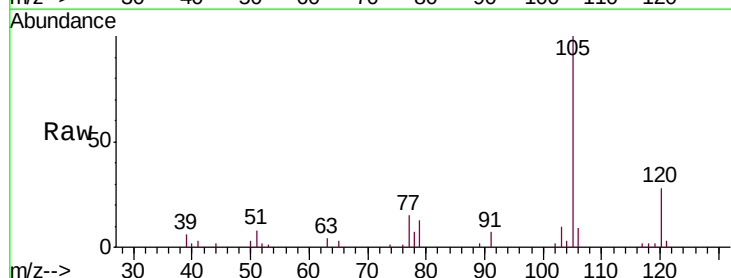
Tgt Ion:105 Resp: 11838

Ion Ratio Lower Upper

105 100

120 25.8 21.7 32.5

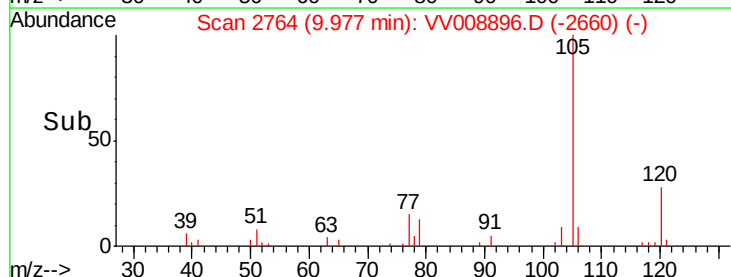
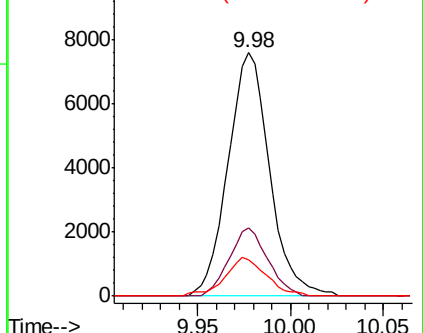
77 13.2 12.4 18.6

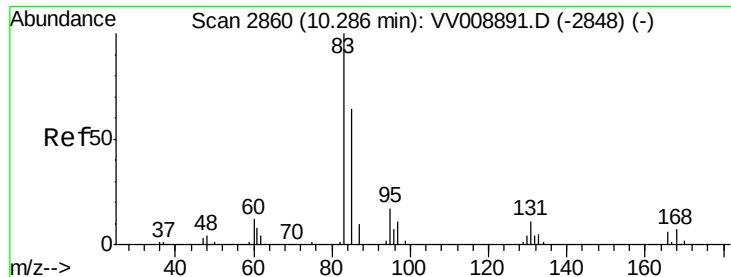


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0

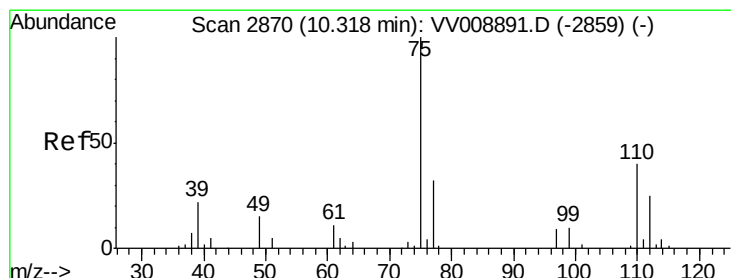
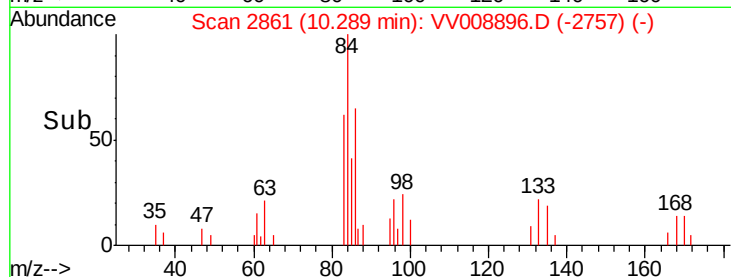
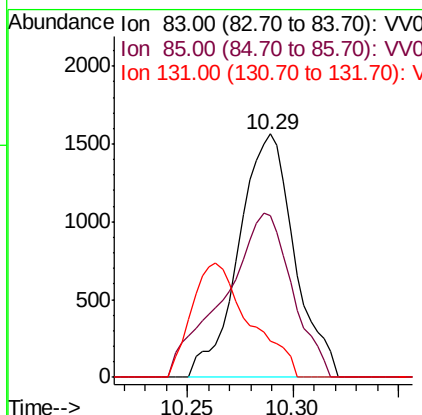
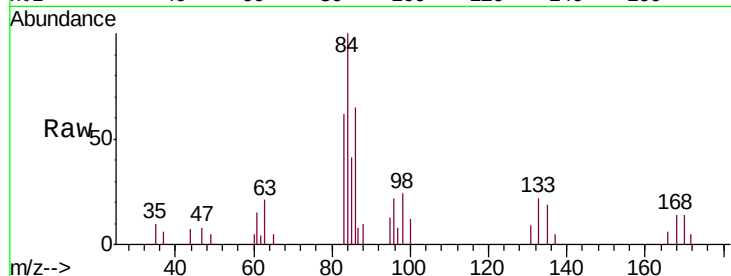




#58
 1,1,2,2-Tetrachloroethane
 Concen: 1.185 ug/L
 RT: 10.29 min Scan# 2861
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

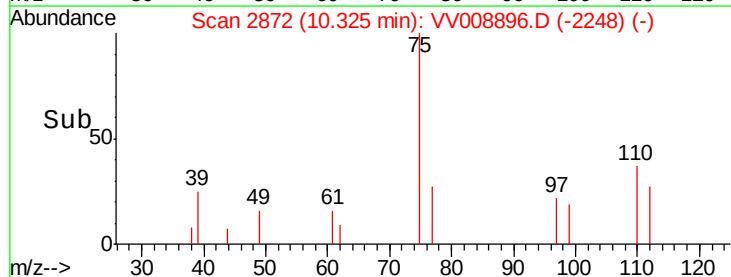
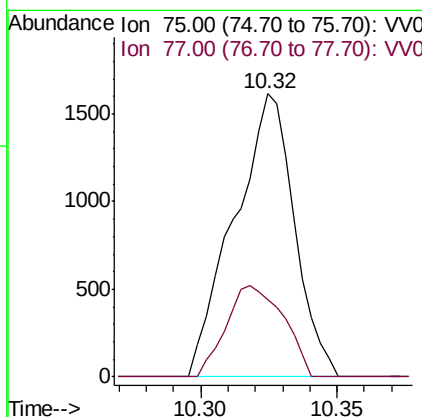
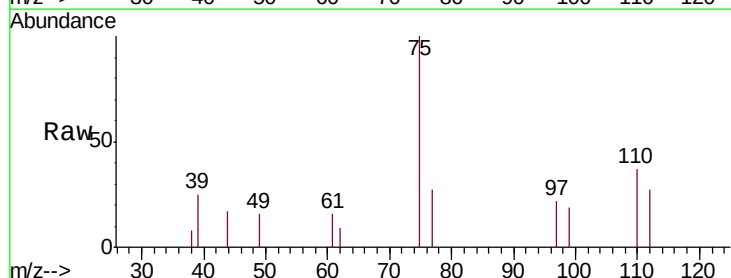
Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

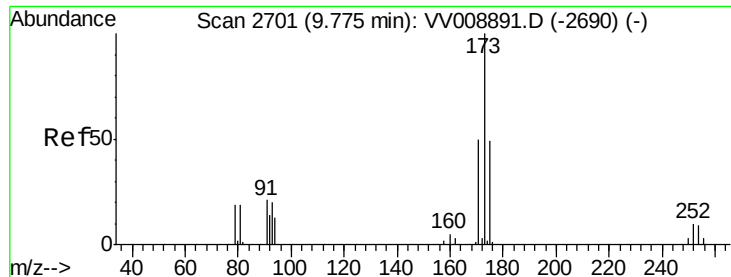
Tgt Ion: 83 Resp: 2869
 Ion Ratio Lower Upper
 83 100
 85 66.2 44.3 82.3
 131 15.1 7.8 11.8#



#59
 1,2,3-Trichloropropane
 Concen: 1.180 ug/L
 RT: 10.32 min Scan# 2872
 Delta R.T. 0.01 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion: 75 Resp: 2471
 Ion Ratio Lower Upper
 75 100
 77 30.9 25.6 38.4





#62

Bromoform

Concen: 0.985 ug/L

RT: 9.78 min Scan# 2703

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

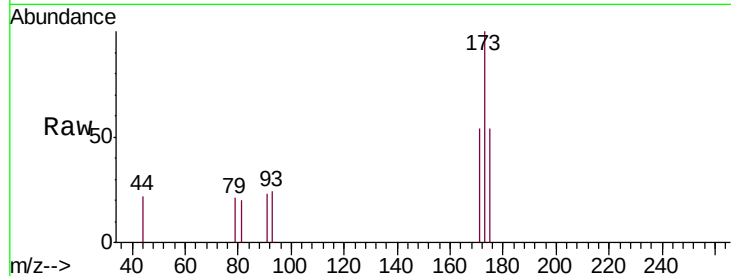
Tgt Ion:173 Resp: 1387

Ion Ratio Lower Upper

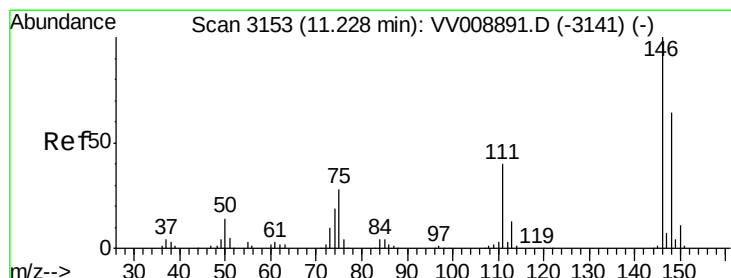
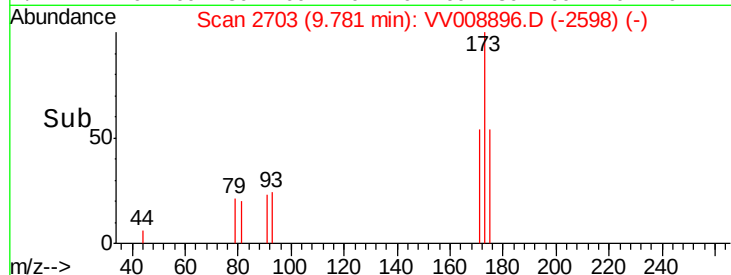
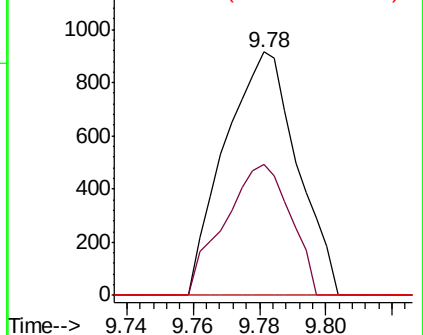
173 100

175 49.0 37.7 56.5

254 0.0 7.1 10.7#



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



#63

1,3-Dichlorobenzene

Concen: 1.099 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

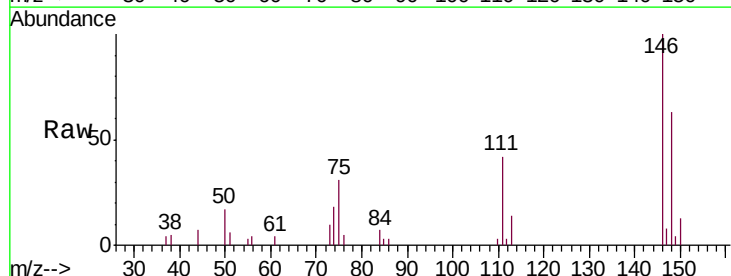
Tgt Ion:146 Resp: 5521

Ion Ratio Lower Upper

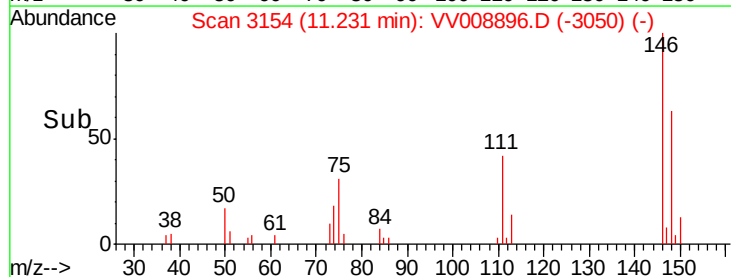
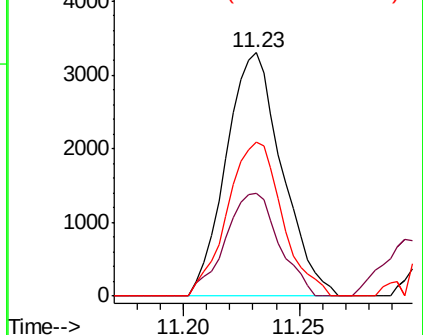
146 100

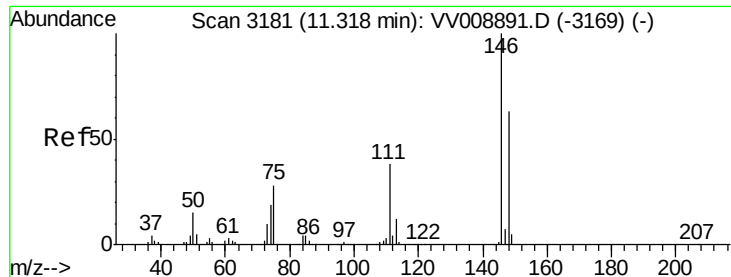
111 42.4 27.5 51.1

148 63.1 44.0 81.8



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 1.144 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

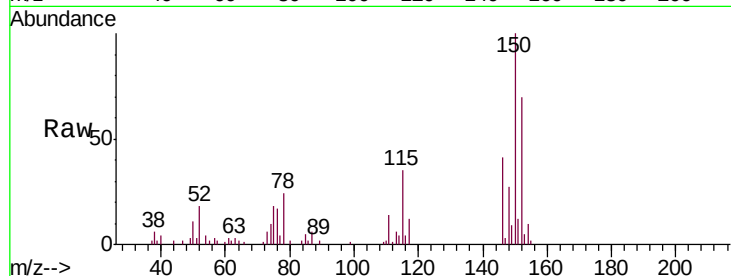
Tgt Ion:146 Resp: 5918

Ion Ratio Lower Upper

146 100

111 33.6 26.8 49.8

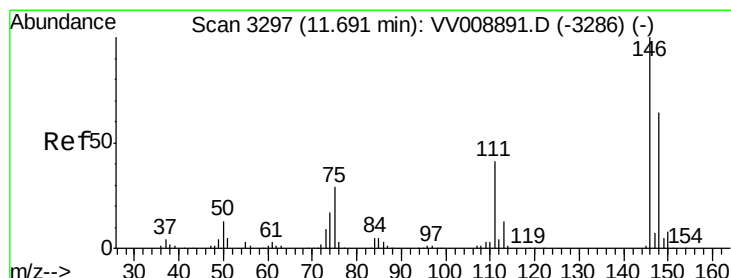
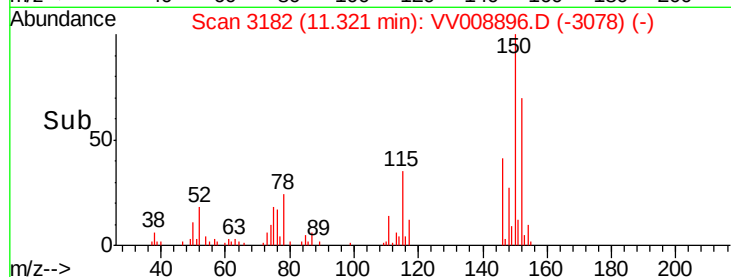
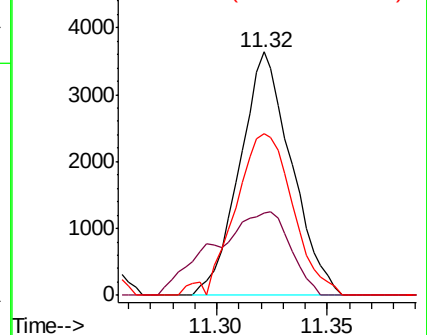
148 66.5 45.8 85.0



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: 1.185 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

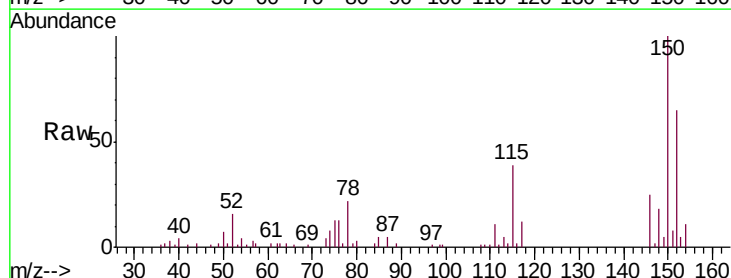
Tgt Ion:146 Resp: 5488

Ion Ratio Lower Upper

146 100

111 45.5 34.2 51.4

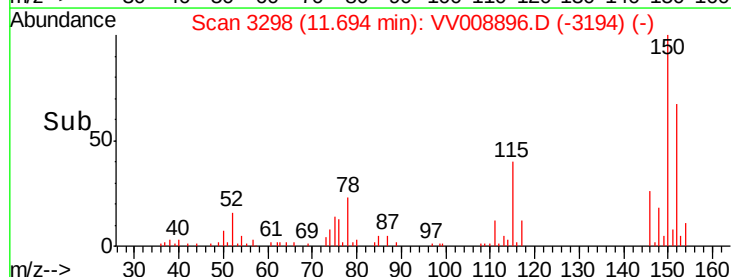
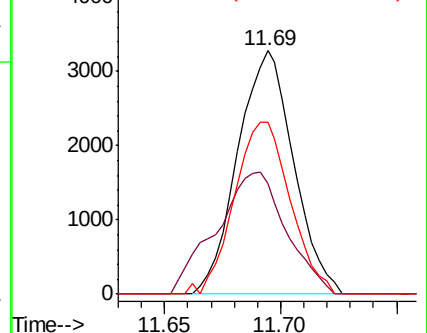
148 70.8 51.0 76.6

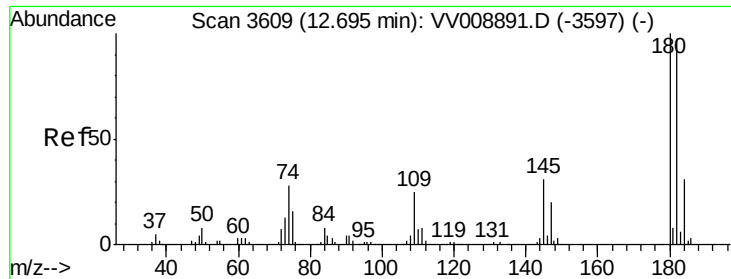


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

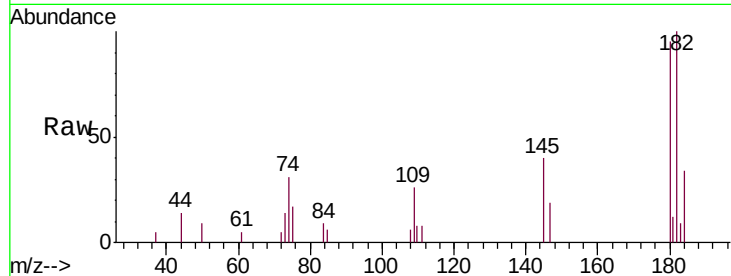




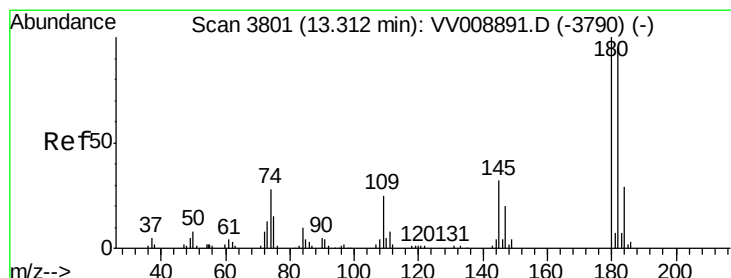
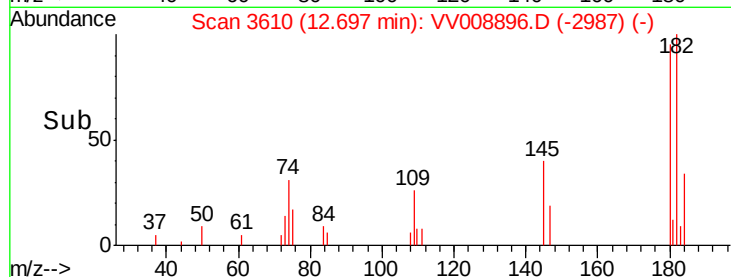
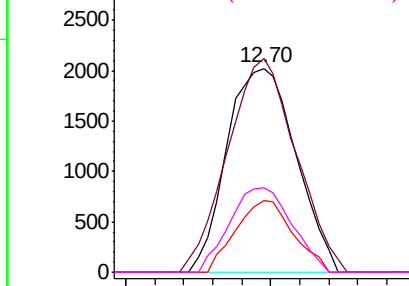
#67
 1,3,5-Trichlorobenzene
 Concen: 0.920 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tgt Ion:180 Resp: 3339
 Ion Ratio Lower Upper
 180 100
 182 103.9 75.9 113.9
 184 29.2 23.8 35.6
 145 37.4 24.2 36.4#

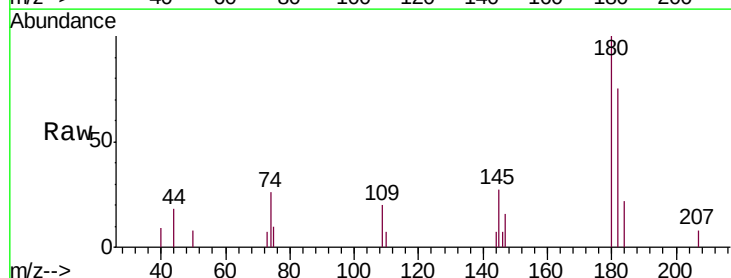


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

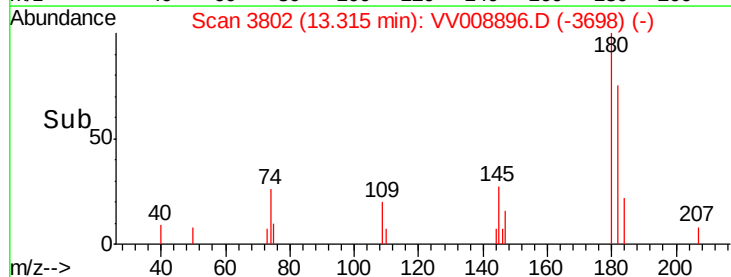
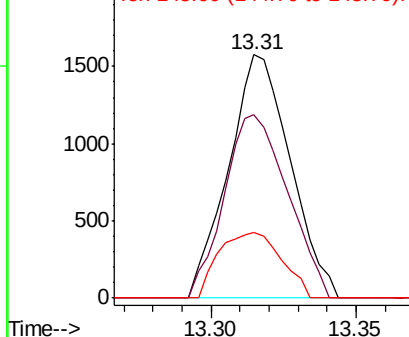


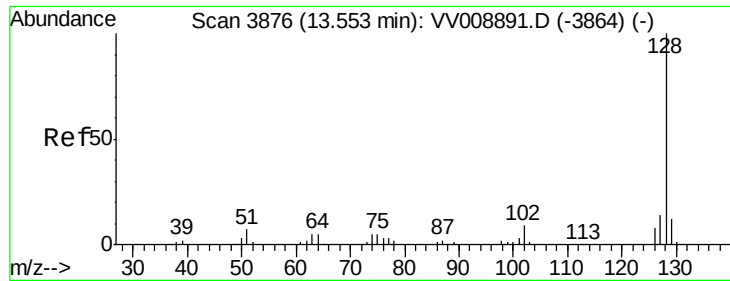
#68
 1,2,4-trichlorobenzene
 Concen: 0.918 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion:180 Resp: 2335
 Ion Ratio Lower Upper
 180 100
 182 77.3 77.4 116.0#
 145 27.3 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





#69

Naphthalene

Concen: 0.639 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampled :

MDL04

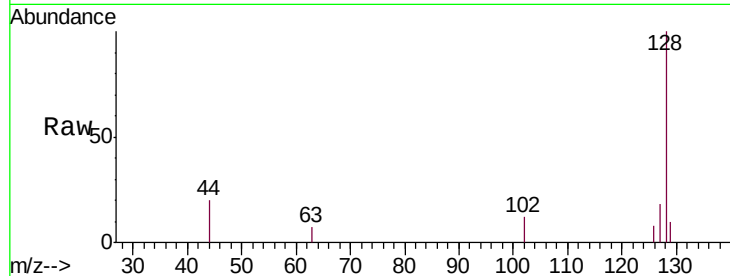
Tgt Ion:128 Resp: 2799

Ion Ratio Lower Upper

128 100

129 5.8 8.6 13.0#

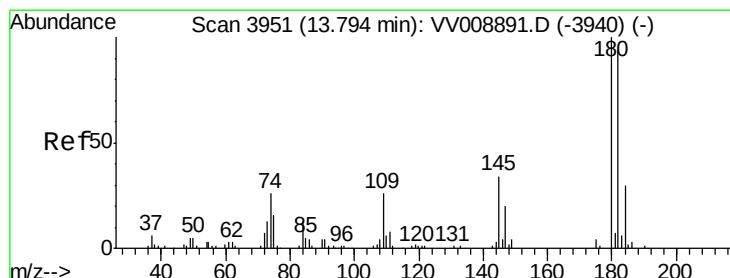
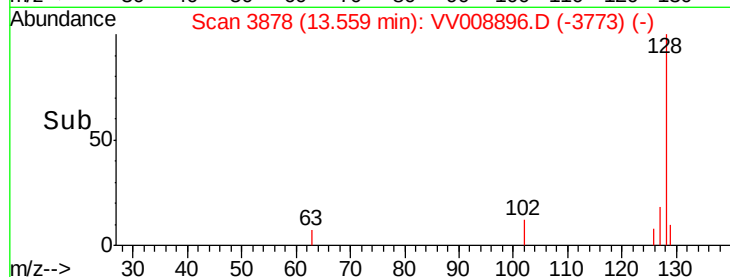
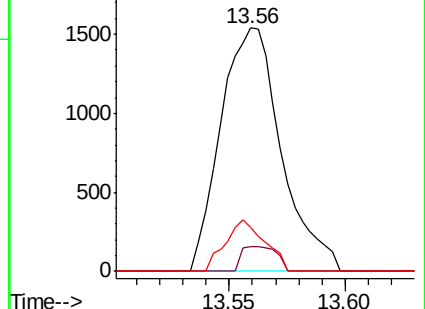
127 13.8 10.0 15.0



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: 0.717 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

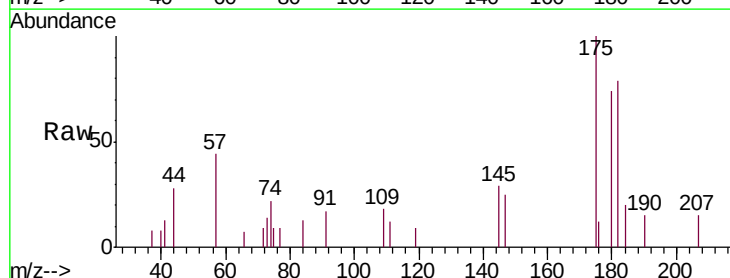
Tgt Ion:180 Resp: 1685

Ion Ratio Lower Upper

180 100

182 110.3 76.1 114.1

145 21.1 26.7 40.1#



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

