

Data File : VV013019.D
Acq On : 30 Sep 2019 16:18
Operator : SY/MD
Sample : MDL02
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Quant Time: Oct 01 05:21:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
Quant Title : VOC Analysis
QLast Update : Mon Sep 30 15:00:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	757177	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	755744	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	392201	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	260014	24.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.00%
7) Chloroethane-d5	1.58	69	222275	24.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.88%
11) 1,1-Dichloroethene-d2	2.13	63	346232	18.56	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	74.24%
21) 2-Butanone-d5	3.93	46	185137	48.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.82%
24) Chloroform-d	4.40	84	476831	23.38	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.52%
26) 1,2-Dichloroethane-d4	5.08	65	282166	24.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.28%
32) Benzene-d6	5.10	84	1006996	24.16	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.64%
36) 1,2-Dichloropropane-d6	6.11	67	322522	24.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.72%
41) Toluene-d8	7.36	98	913416	23.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.96%
43) trans-1,3-Dichloropropene-	7.66	79	130447	23.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.16%
47) 2-Hexanone-d5	8.13	63	132678	48.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.32%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	284807	23.30	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.20%
66) 1,2-Dichlorobenzene-d4	11.67	152	381912	25.25	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	13042	1.608 ug/L	98
3) Chloromethane	1.25	50	19722	1.909 ug/L	99
5) Vinyl chloride	1.32	62	19457	1.828 ug/L #	72
6) Bromomethane	1.53	94	12841	1.878 ug/L	99
8) Chloroethane	1.60	64	13146	1.954 ug/L	98
9) Trichlorofluoromethane	1.77	101	28680	1.990 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	20553	2.225 ug/L	90
12) 1,1-Dichloroethene	2.14	96	19475	2.244 ug/L #	1
13) Acetone	2.19	43	20096	4.985 ug/L	99
14) Carbon disulfide	2.32	76	49437	1.856 ug/L	100
15) Methyl Acetate	2.46	43	11805	1.898 ug/L	99
16) Methylene chloride	2.53	84	37544	3.027 ug/L	91
17) trans-1,2-Dichloroethene	2.79	96	20374	1.992 ug/L	99
18) Methyl tert-butyl Ether	2.80	73	49230	1.913 ug/L	99
19) 1,1-Dichloroethane	3.23	63	37048	1.973 ug/L	97
20) cis-1,2-Dichloroethene	3.96	96	21854	1.921 ug/L	89
22) 2-Butanone	4.03	43	13296	3.009 ug/L	99

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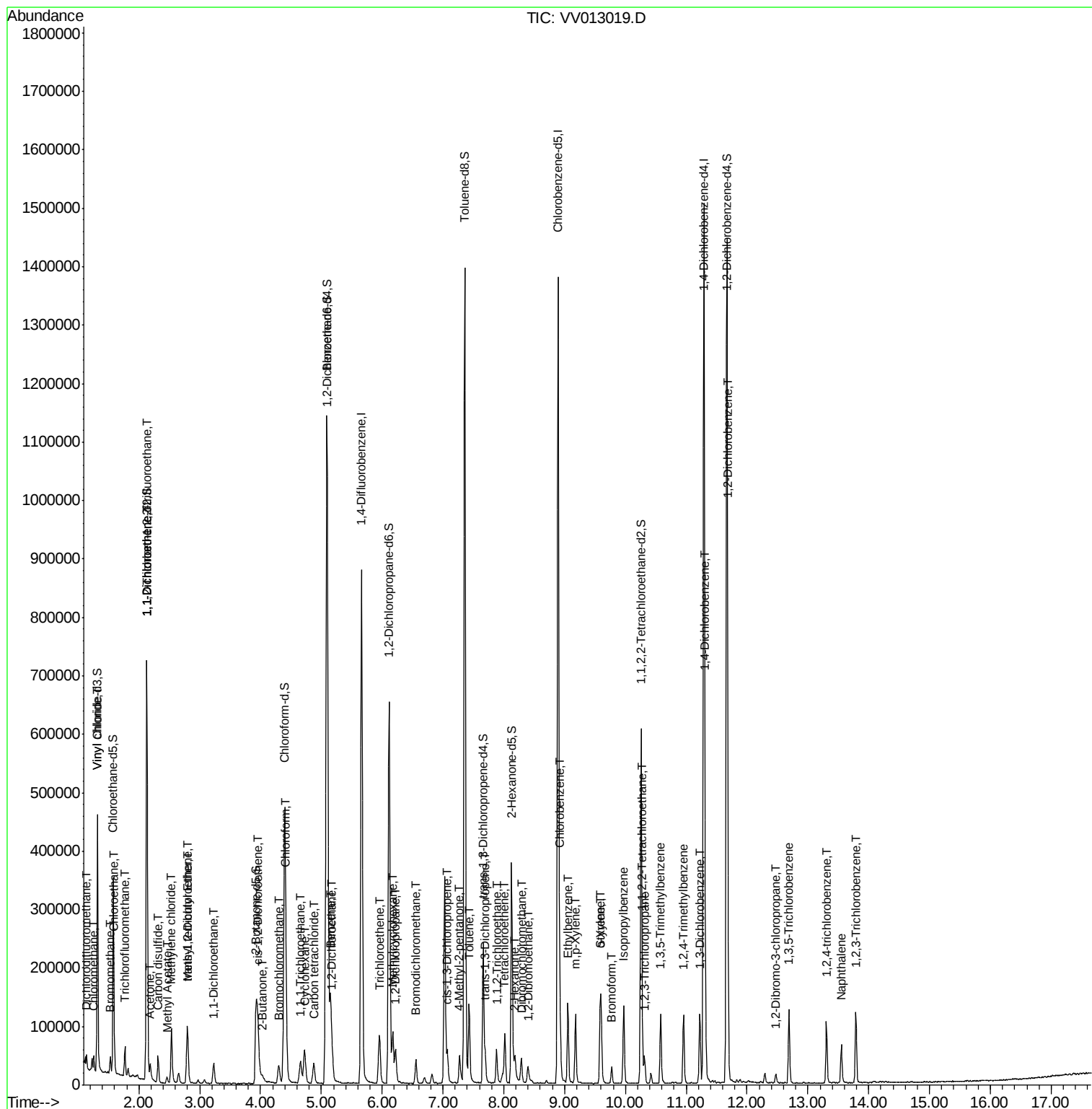
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	11009	1.974	ug/L	98
25) Chloroform	4.42	83	44967	2.297	ug/L	95
27) 1,2-Dichloroethane	5.18	62	27913	2.075	ug/L	99
29) Cyclohexane	4.72	56	28213	1.696	ug/L	97
30) 1,1,1-Trichloroethane	4.66	97	28934	1.874	ug/L	97
31) Carbon tetrachloride	4.87	117	25979	1.870	ug/L	98
33) Benzene	5.15	78	85859	1.987	ug/L	100
34) Trichloroethene	5.96	95	23284	1.989	ug/L	97
35) Methylcyclohexane	6.18	83	31873	1.735	ug/L	98
37) 1,2-Dichloropropane	6.22	63	20948	1.889	ug/L #	93
38) Bromodichloromethane	6.55	83	27512	1.901	ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	31612	1.894	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	32560	3.675	ug/L	97
42) Toluene	7.43	91	93805	2.041	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	31491	2.297	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	17927	1.906	ug/L	94
46) Tetrachloroethene	8.02	164	18642	1.925	ug/L	98
48) 2-Hexanone	8.18	43	25275	3.918	ug/L	95
49) Dibromochloromethane	8.29	129	20475	1.909	ug/L	95
50) 1,2-Dibromoethane	8.40	107	18074	1.948	ug/L #	97
51) Chlorobenzene	8.92	112	63439	2.035	ug/L	97
52) Ethylbenzene	9.05	91	92137	1.825	ug/L	98
53) m,p-Xylene	9.18	106	34484	1.787	ug/L	96
54) o-Xylene	9.59	106	32245	1.747	ug/L	94
55) Styrene	9.60	104	51391	1.590	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.28	83	23524	2.051	ug/L #	98
59) Bromoform	9.77	173	12846	1.912	ug/L	98
60) Isopropylbenzene	9.97	105	81778	1.730	ug/L	99
61) 1,2,3-Trichloropropane	10.31	75	18237	2.043	ug/L	99
62) 1,3,5-Trimethylbenzene	10.58	105	61398	1.612	ug/L	97
63) 1,2,4-Trimethylbenzene	10.95	105	61475	1.607	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	50968	2.054	ug/L	97
65) 1,4-Dichlorobenzene	11.31	146	53679	2.060	ug/L	96
67) 1,2-Dichlorobenzene	11.69	146	50740	2.142	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.47	75	3866	1.997	ug/L	96
69) 1,3,5-Trichlorobenzene	12.69	180	39372	1.971	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	32206	1.865	ug/L	97
71) Naphthalene	13.55	128	54652	1.624	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	31493	1.890	ug/L	98

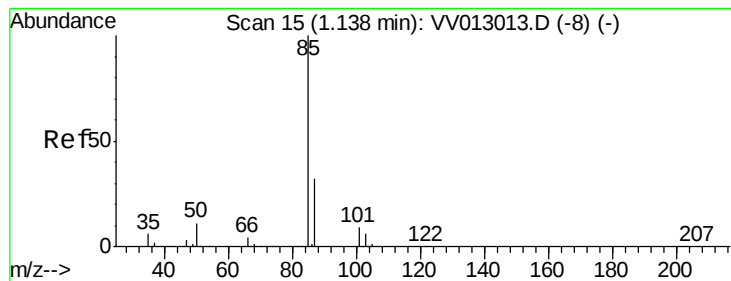
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.608 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

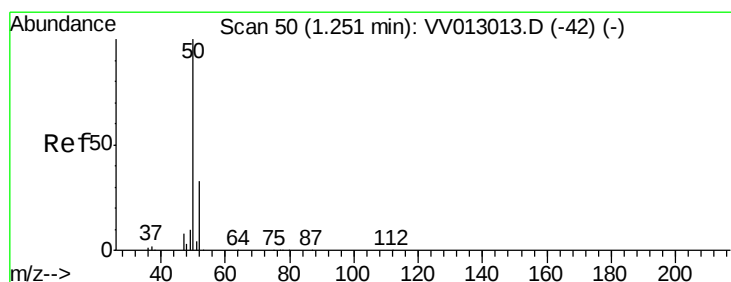
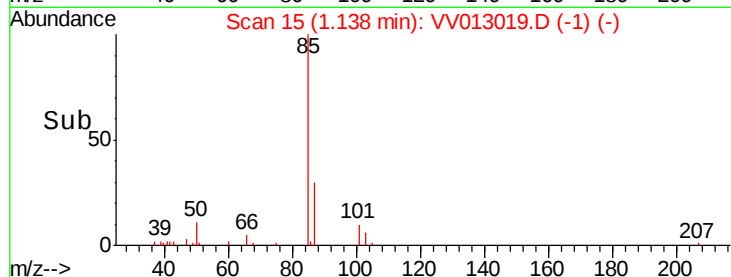
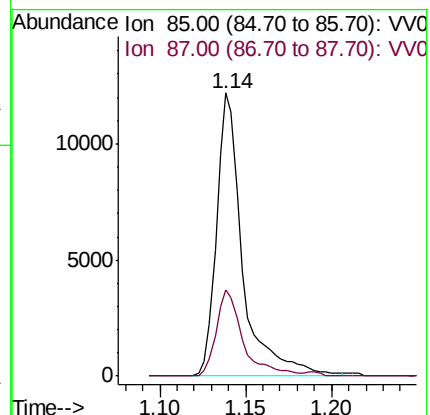
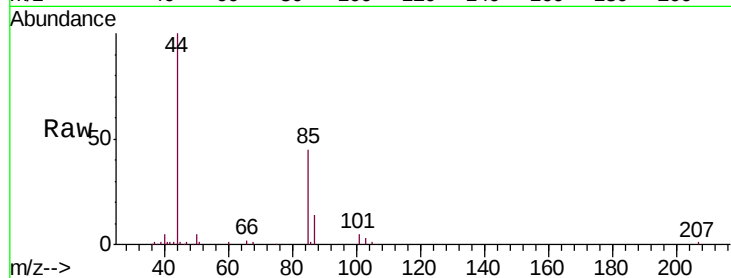
MDL01

Tgt Ion: 85 Resp: 13042

Ion Ratio Lower Upper

85 100

87 31.1 25.7 38.5



#3

Chloromethane

Concen: 1.909 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV013019.D

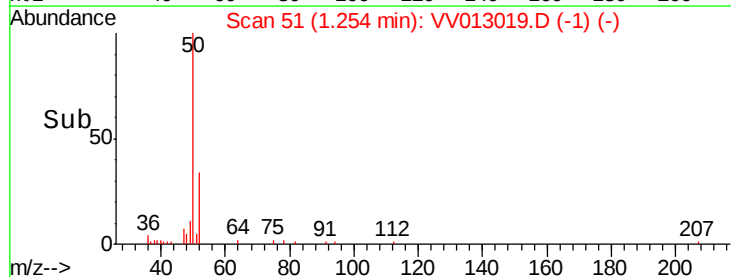
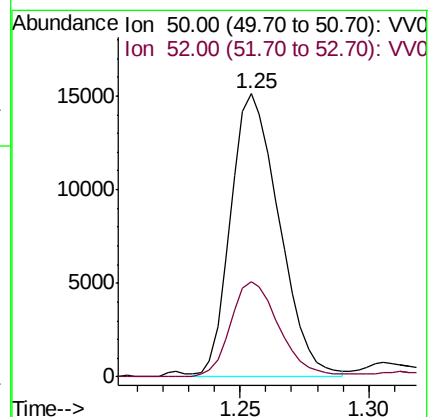
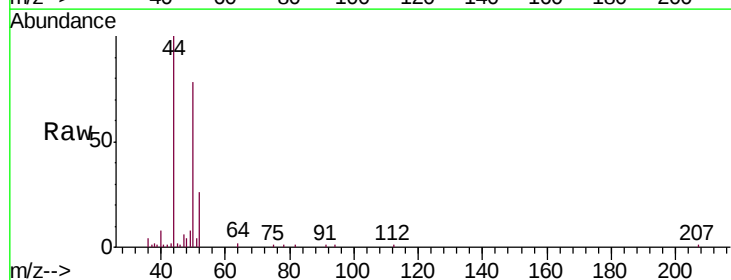
Acq: 30 Sep 2019 16:18

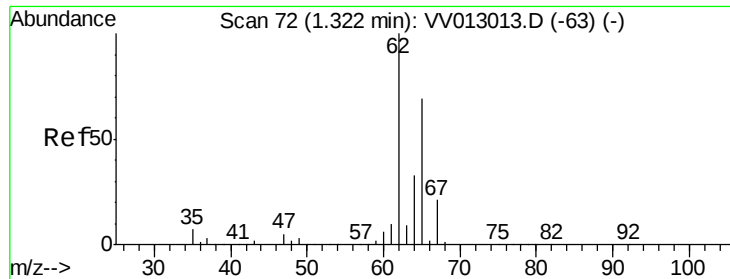
Tgt Ion: 50 Resp: 19722

Ion Ratio Lower Upper

50 100

52 33.8 23.1 42.9





#5

Vinyl chloride

Concen: 1.828 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

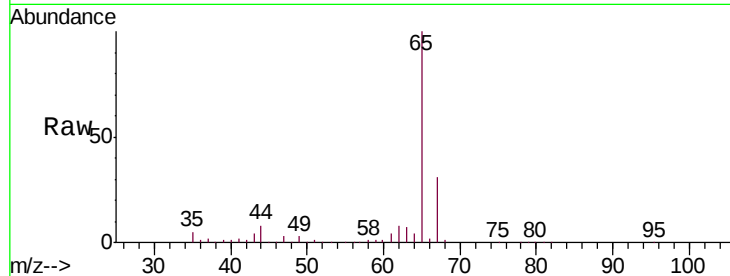
MDL01

Tgt Ion: 62 Resp: 19457

Ion Ratio Lower Upper

62 100

64 48.6 23.1 42.9#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

20000

15000

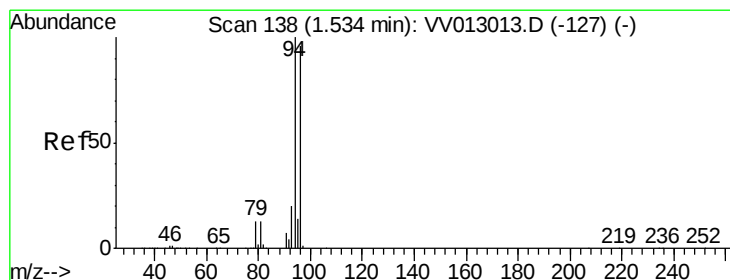
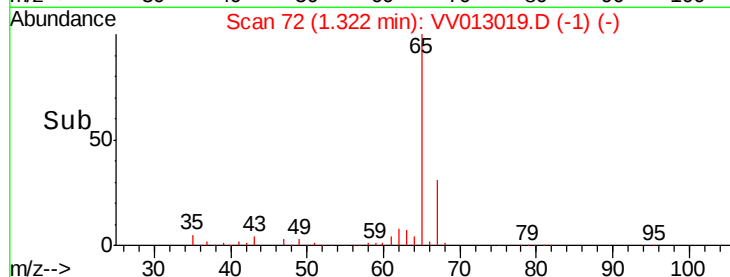
10000

5000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 1.878 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013019.D

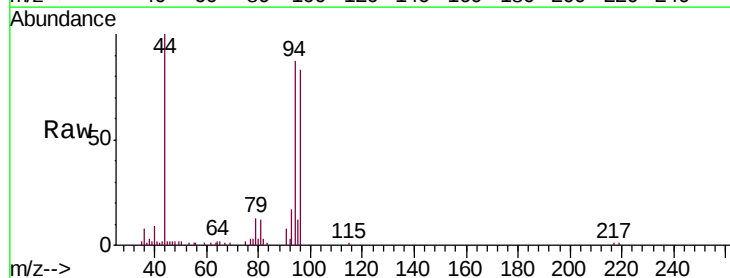
Acq: 30 Sep 2019 16:18

Tgt Ion: 94 Resp: 12841

Ion Ratio Lower Upper

94 100

96 95.7 67.4 125.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

12000

10000

8000

6000

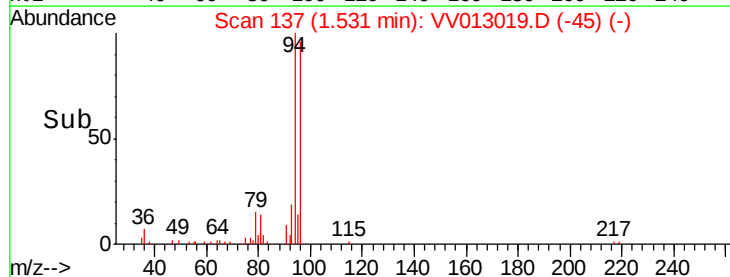
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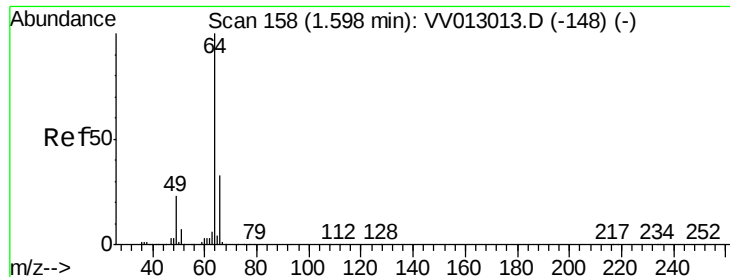
2000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 1.954 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

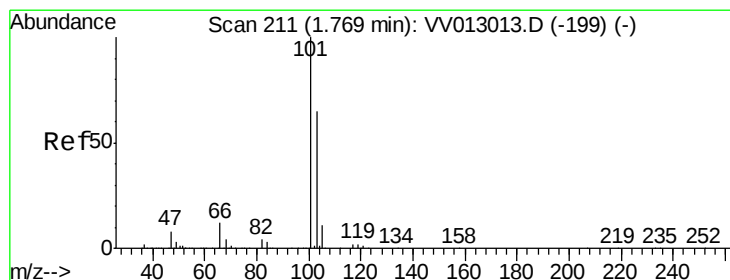
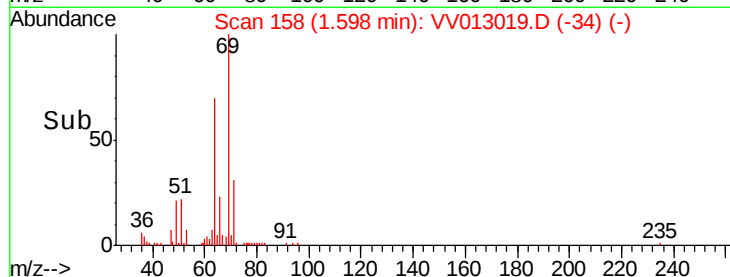
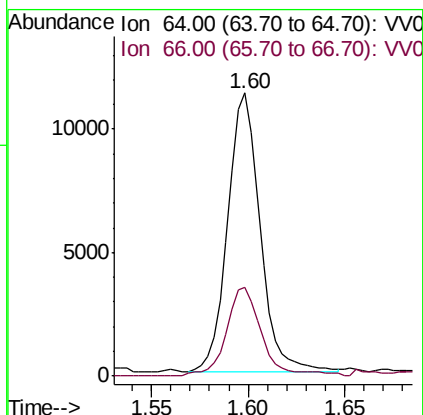
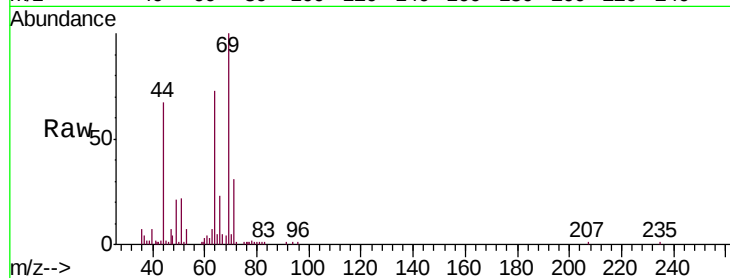
MDL01

Tgt Ion: 64 Resp: 13146

Ion Ratio Lower Upper

64 100

66 31.2 22.8 42.4



#9

Trichlorofluoromethane

Concen: 1.990 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013019.D

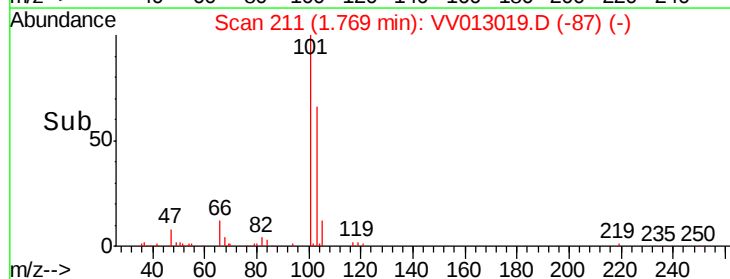
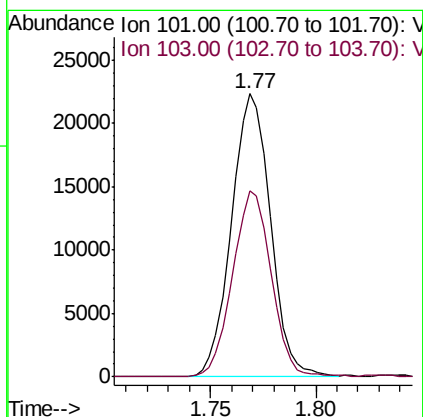
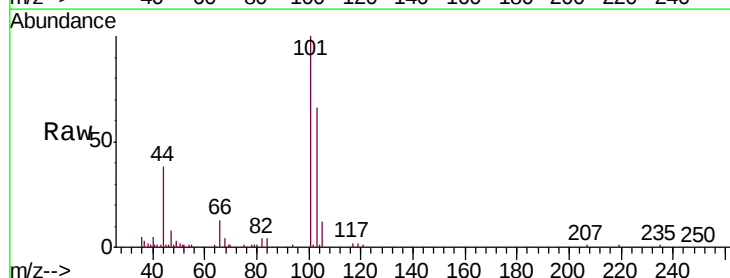
Acq: 30 Sep 2019 16:18

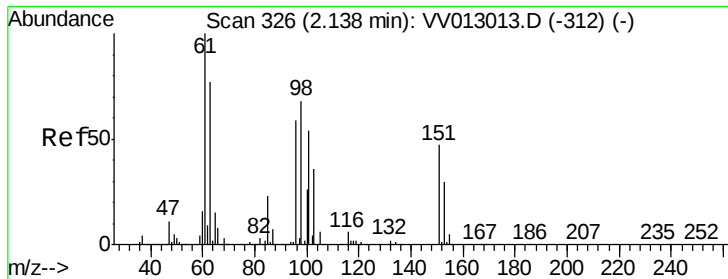
Tgt Ion: 101 Resp: 28680

Ion Ratio Lower Upper

101 100

103 65.2 52.2 78.2





#10

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

Concen: 2.225 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL01

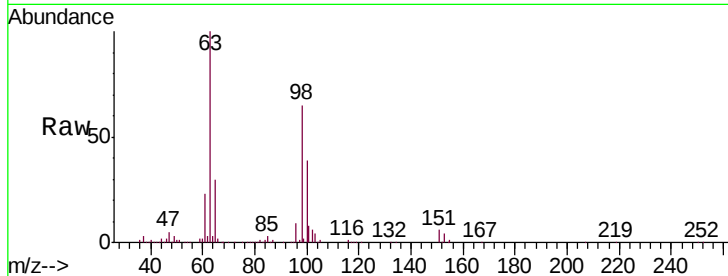
Tgt Ion:101 Resp: 20553

Ion Ratio Lower Upper

101 100

85 37.8 33.6 50.4

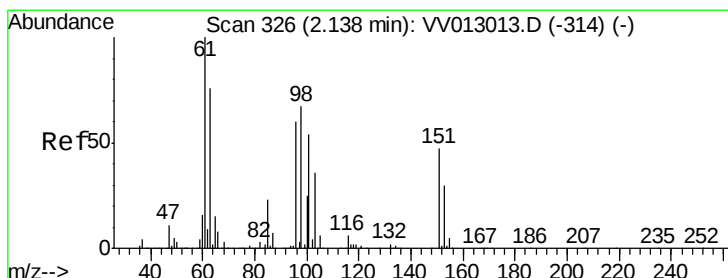
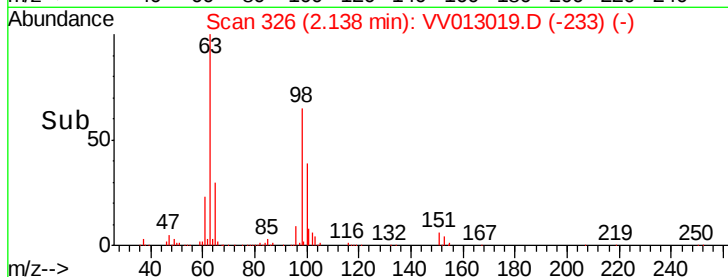
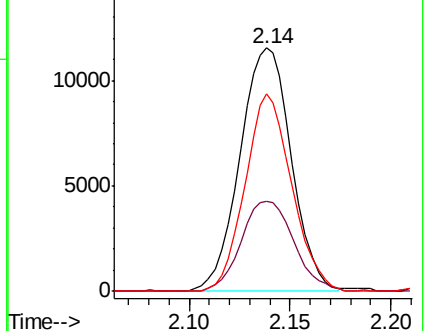
151 73.7 66.9 100.3



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: 2.244 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

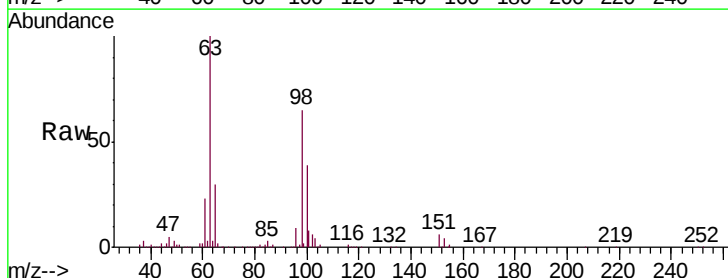
Tgt Ion: 96 Resp: 19475

Ion Ratio Lower Upper

96 100

61 259.1 117.7 218.7#

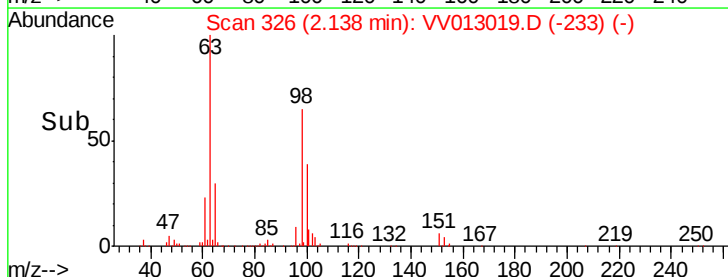
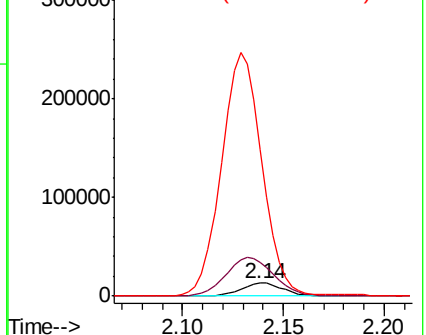
63 1125.6 90.4 168.0#

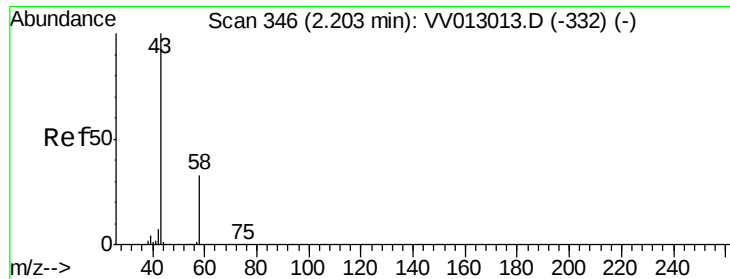


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 4.985 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.02 min

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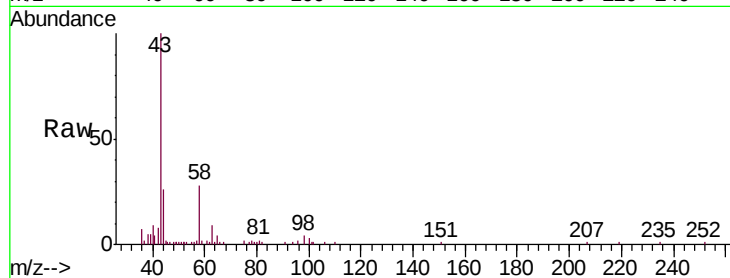
MDL01

Tgt Ion: 43 Resp: 20096

Ion Ratio Lower Upper

43 100

58 33.1 0.0 65.2



Abundance Ion 43.00 (42.70 to 43.70): VV013013.D (-332) (-)

Ion 58.00 (57.70 to 58.70): VV013013.D (-332) (-)

2.19

15000

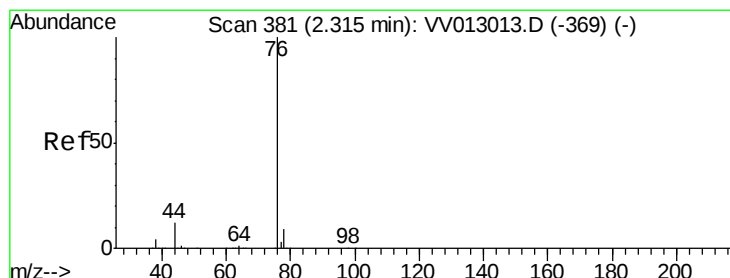
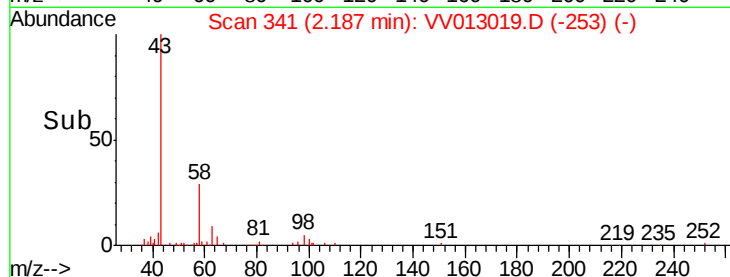
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5000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 1.856 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013019.D

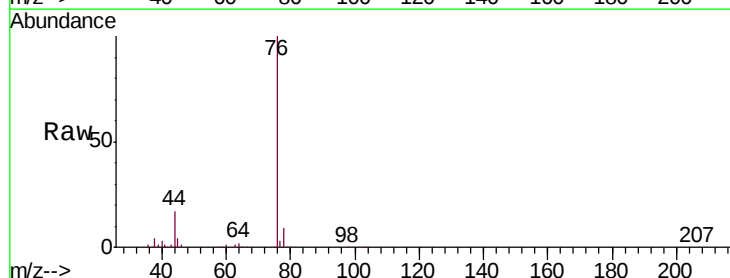
Acq: 30 Sep 2019 16:18

Tgt Ion: 76 Resp: 49437

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV013013.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV013013.D (-369) (-)

2.32

30000

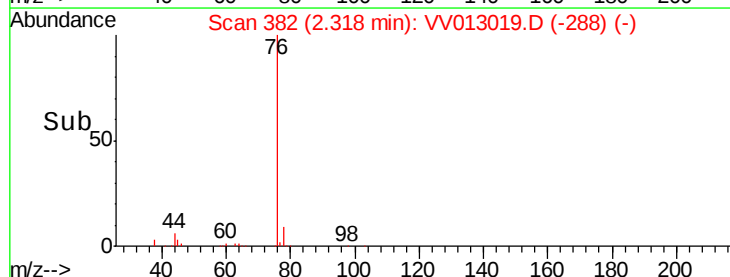
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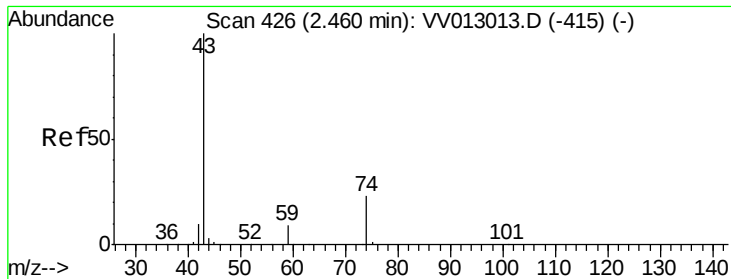
10000

0

2.25 2.30 2.35

Time-->





#15

Methyl Acetate

Concen: 1.898 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV013019.D

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MSVOA_V

ClientSampleId :

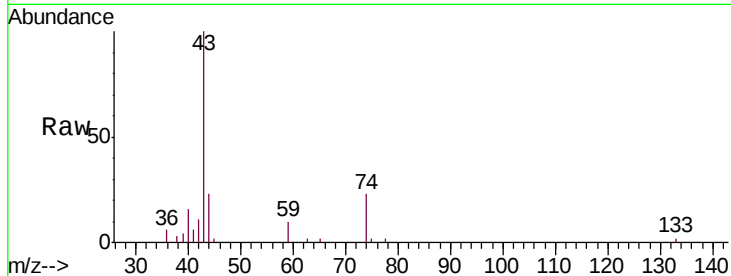
MDL01

Tgt Ion: 43 Resp: 11805

Ion Ratio Lower Upper

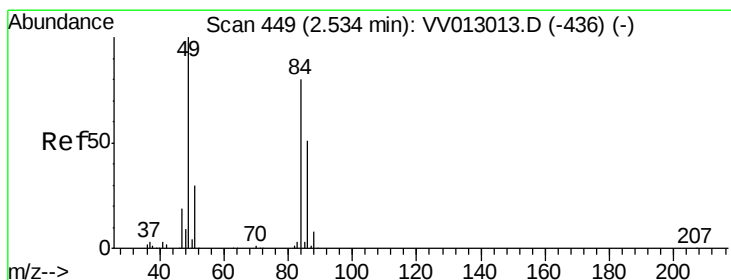
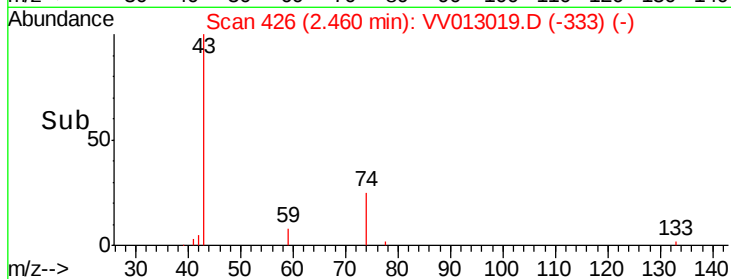
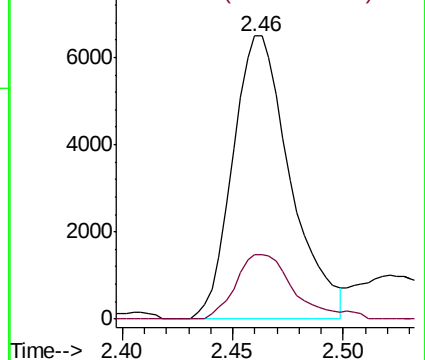
43 100

74 22.4 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 3.027 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

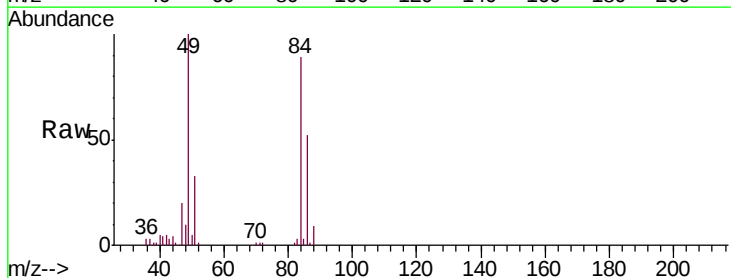
Tgt Ion: 84 Resp: 37544

Ion Ratio Lower Upper

84 100

86 58.5 44.5 82.7

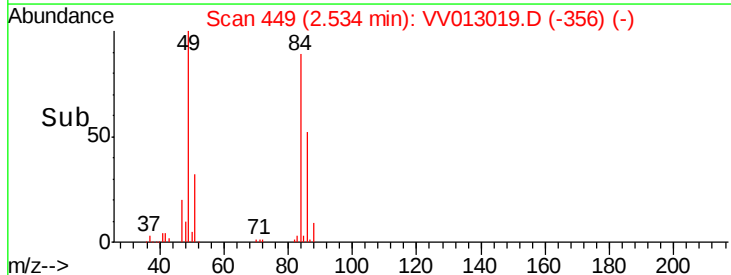
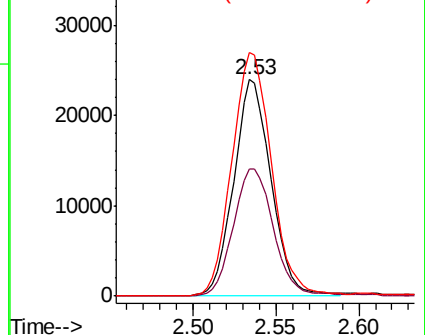
49 112.6 87.5 162.5

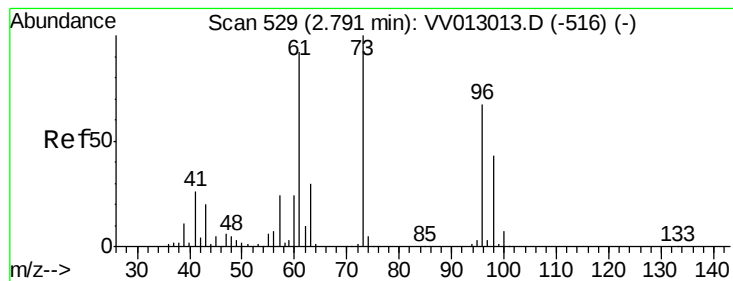


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 1.992 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL01

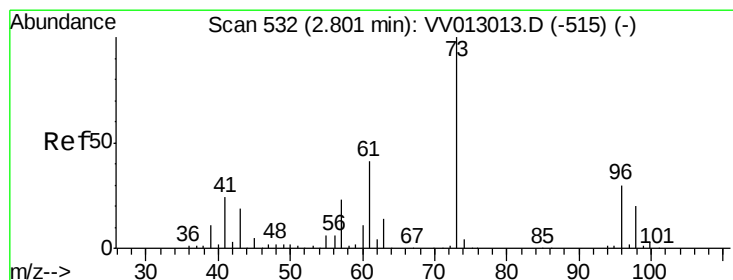
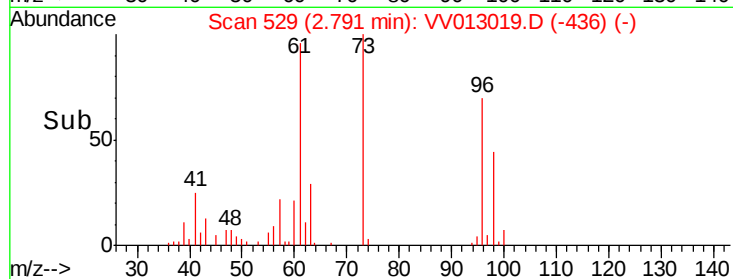
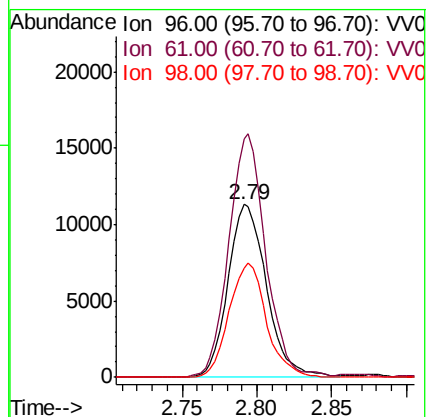
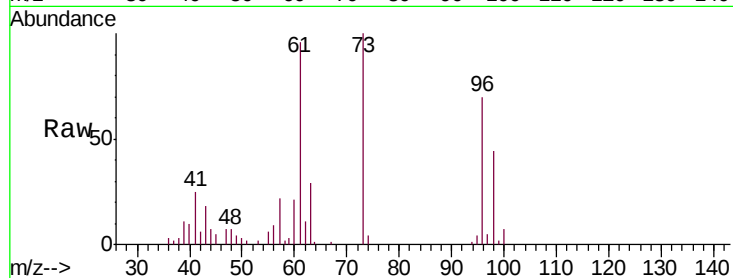
Tgt Ion: 96 Resp: 20374

Ion Ratio Lower Upper

96 100

61 137.8 95.8 177.8

98 63.3 45.1 83.7



#18

Methyl tert-butyl Ether

Concen: 1.913 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

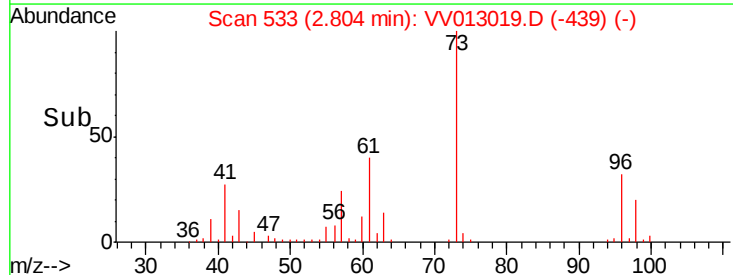
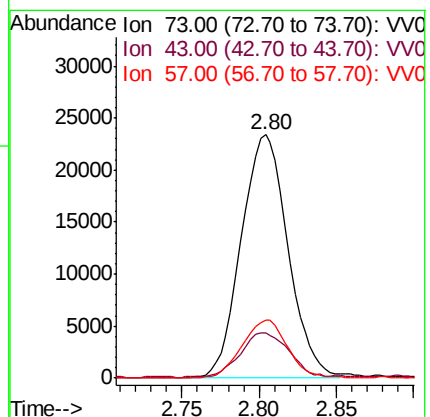
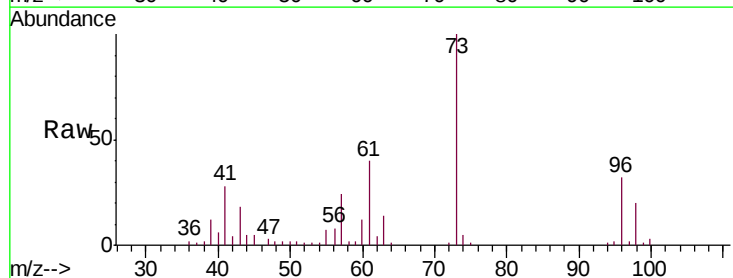
Tgt Ion: 73 Resp: 49230

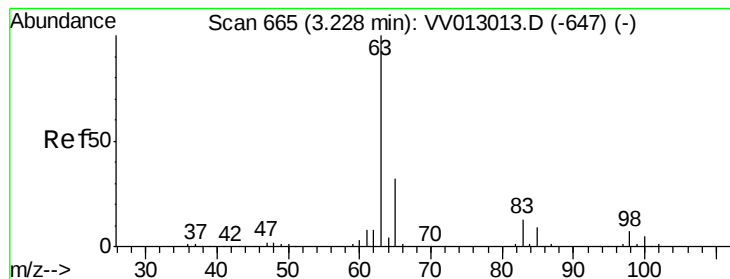
Ion Ratio Lower Upper

73 100

43 19.4 15.1 22.7

57 23.1 18.1 27.1





#19

1,1-Dichloroethane

Concen: 1.973 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL01

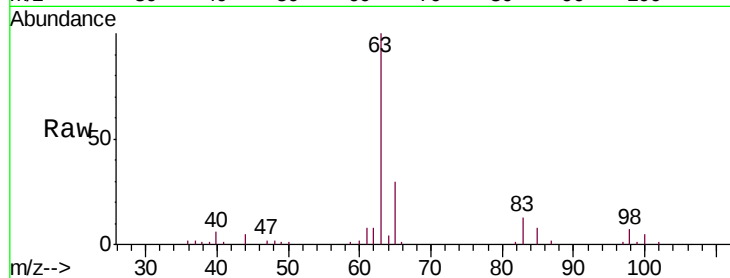
Tgt Ion: 63 Resp: 37048

Ion Ratio Lower Upper

63 100

65 29.6 22.4 41.6

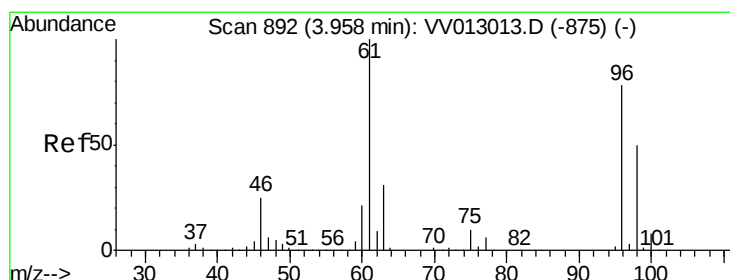
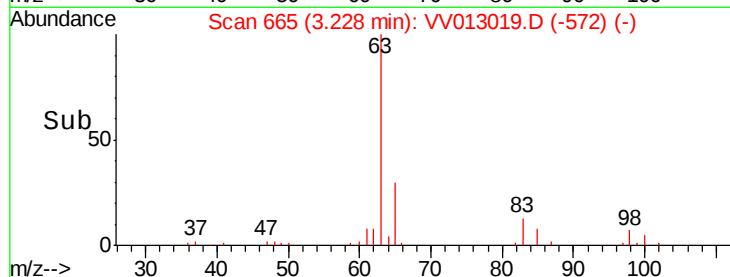
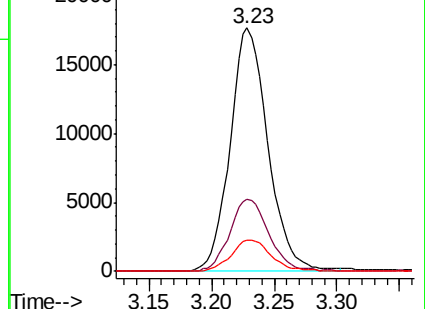
83 12.9 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 1.921 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

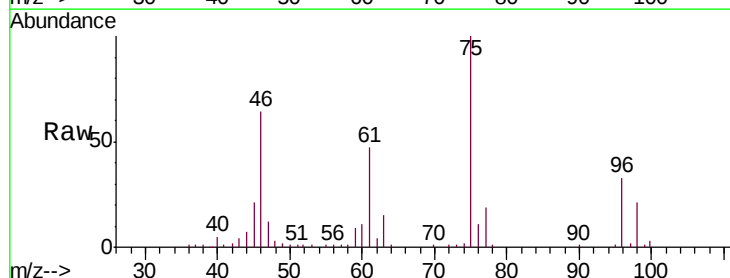
Tgt Ion: 96 Resp: 21854

Ion Ratio Lower Upper

96 100

61 140.4 89.5 166.3

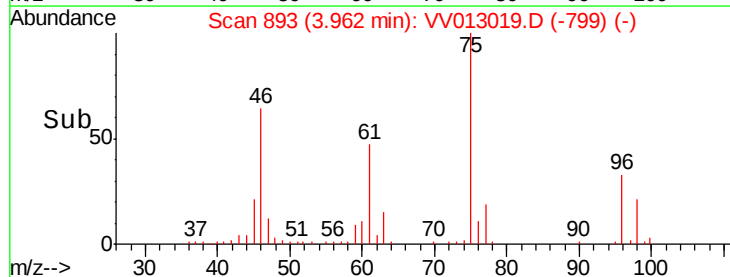
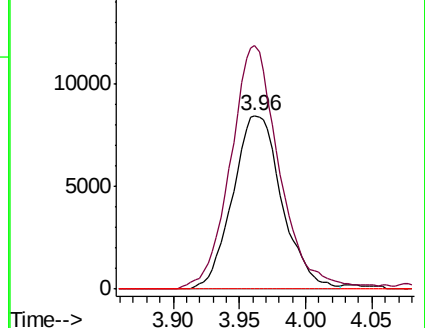
68 0.0 0.0 0.0

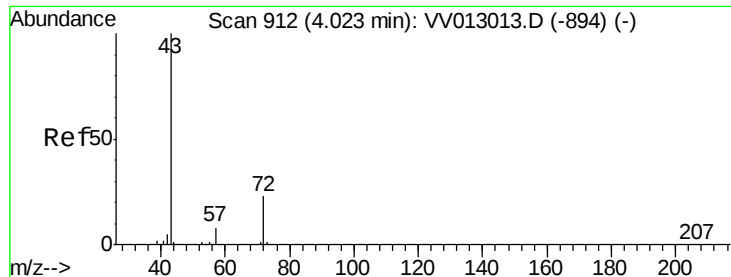


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 3.009 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.01 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

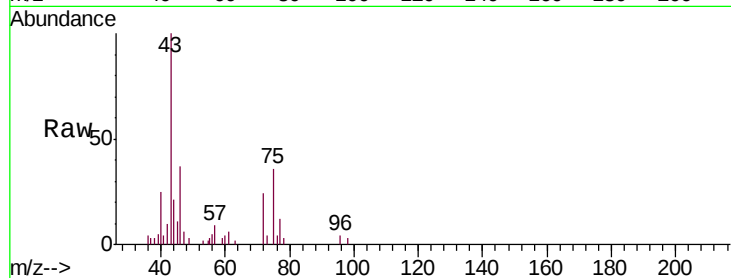
MDL01

Tgt Ion: 43 Resp: 13296

Ion Ratio Lower Upper

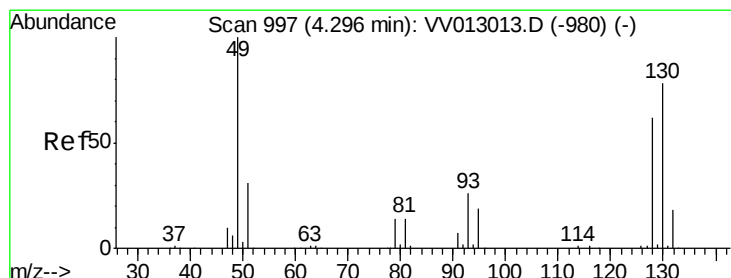
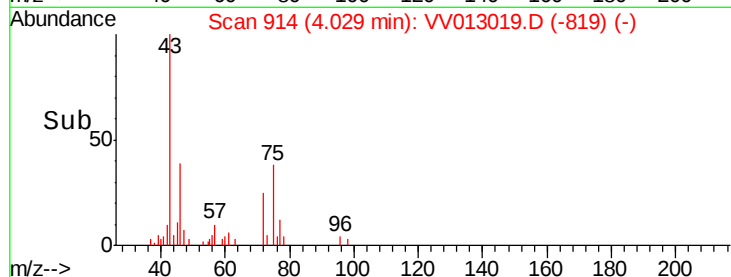
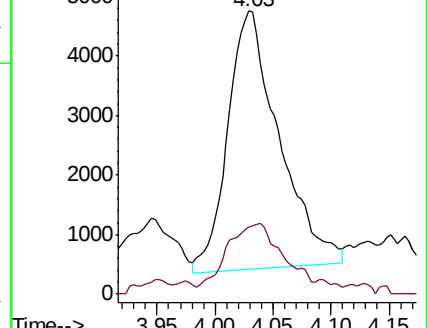
43 100

72 24.4 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VV013013.D (-894) (-)

Ion 72.00 (71.70 to 72.70): VV013013.D (-894) (-)



#23

Bromochloromethane

Concen: 1.974 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Tgt Ion: 128 Resp: 11009

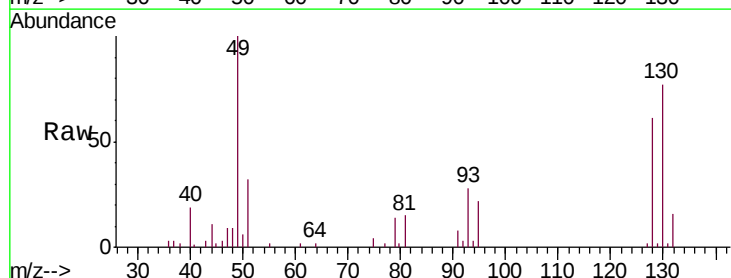
Ion Ratio Lower Upper

128 100

49 164.8 113.6 211.0

130 126.9 88.0 163.4

51 52.6 40.2 60.2

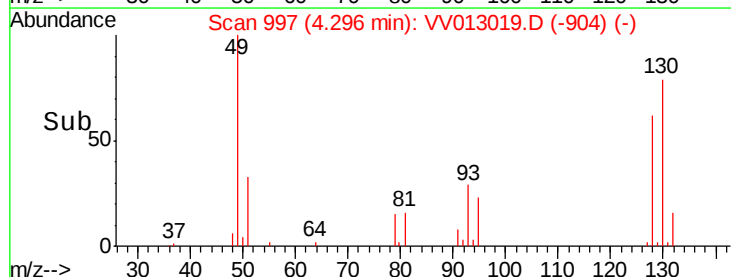
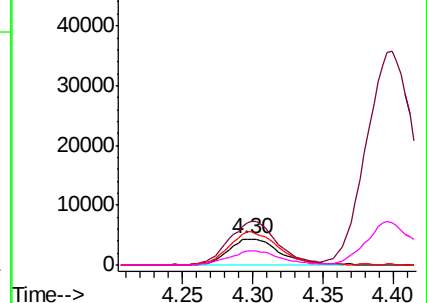


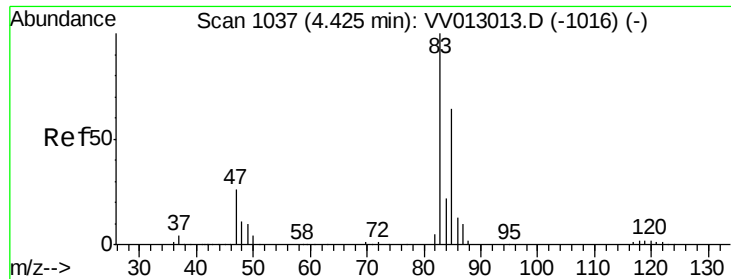
Abundance Ion 128.00 (127.70 to 128.70): VV013013.D (-980) (-)

Ion 49.00 (48.70 to 49.70): VV013013.D (-980) (-)

Ion 130.00 (129.70 to 130.70): VV013013.D (-980) (-)

Ion 51.00 (50.70 to 51.70): VV013013.D (-980) (-)

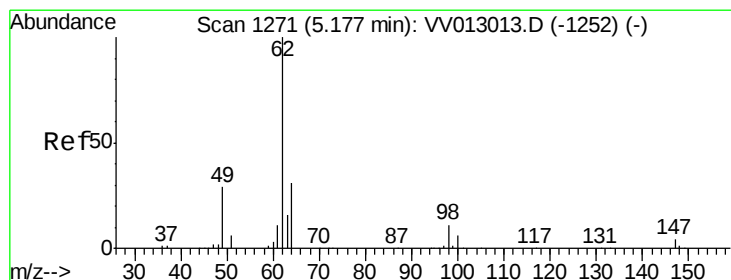
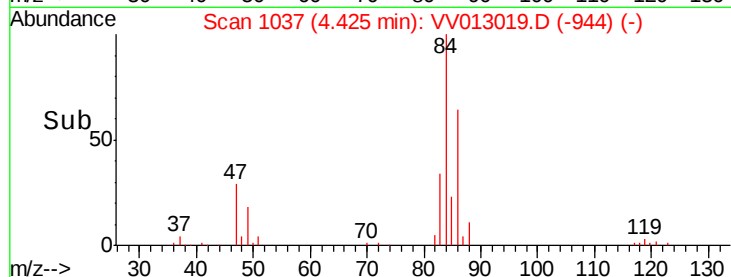
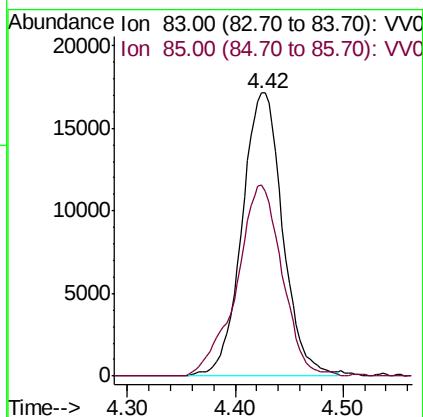
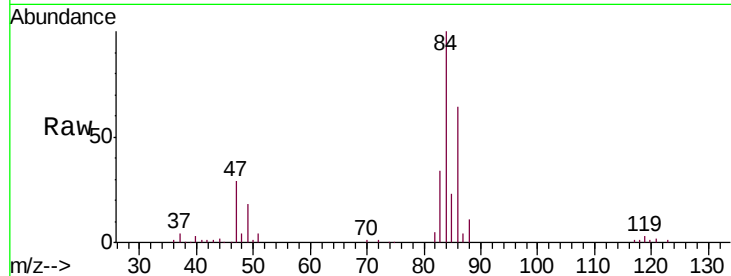




#25
Chloroform
Concen: 2.297 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

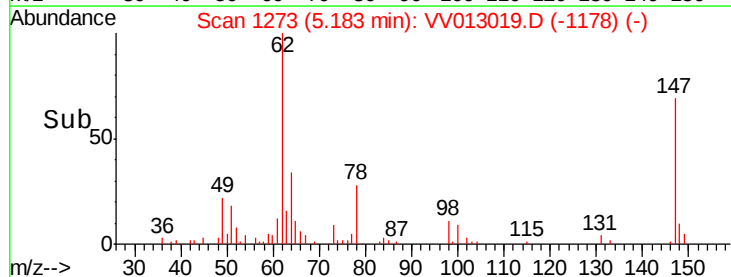
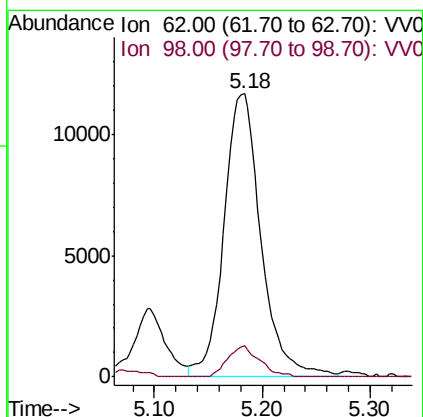
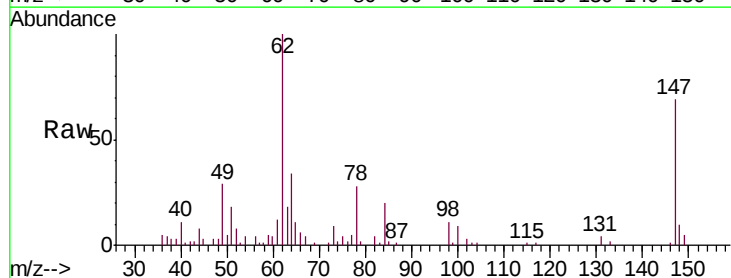
Instrument :
MSVOA_V
ClientSampleId :
MDL01

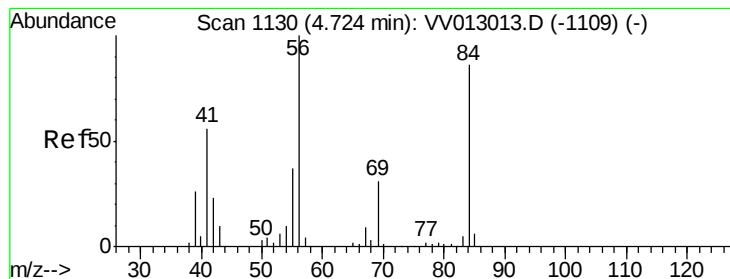
Tgt Ion: 83 Resp: 44967
Ion Ratio Lower Upper
83 100
85 67.5 44.7 82.9



#27
1,2-Dichloroethane
Concen: 2.075 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

Tgt Ion: 62 Resp: 27913
Ion Ratio Lower Upper
62 100
98 10.8 8.5 12.7





#29

Cyclohexane

Concen: 1.696 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL01

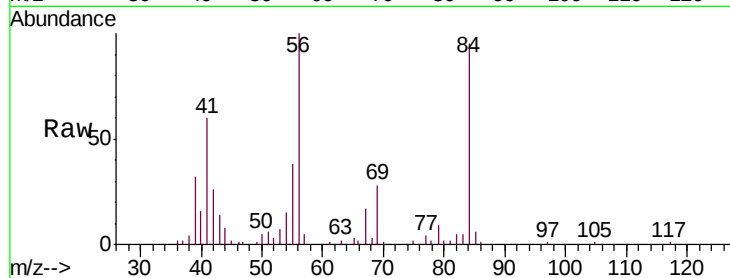
Tgt Ion: 56 Resp: 28213

Ion Ratio Lower Upper

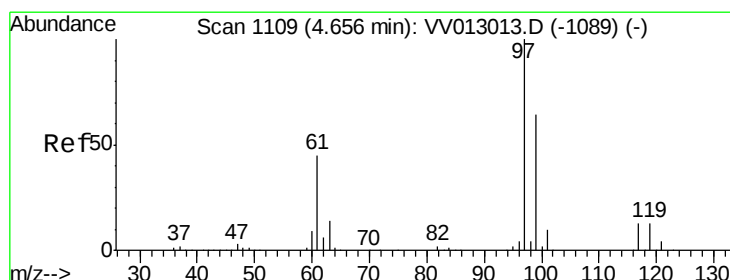
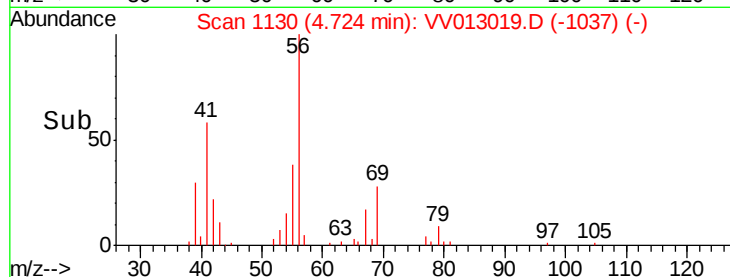
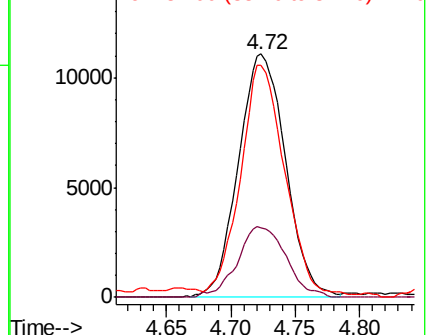
56 100

69 26.9 24.2 36.4

84 84.7 69.6 104.4



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: 1.874 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

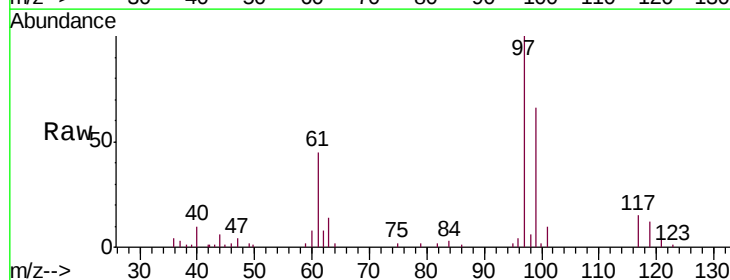
Tgt Ion: 97 Resp: 28934

Ion Ratio Lower Upper

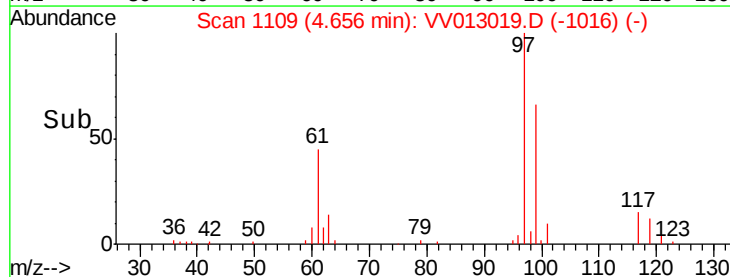
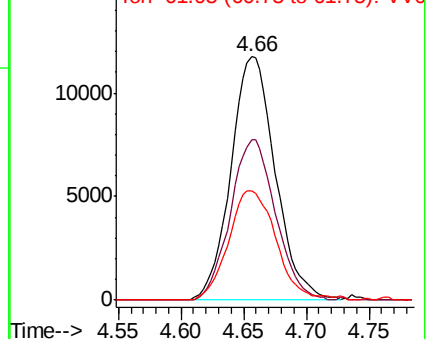
97 100

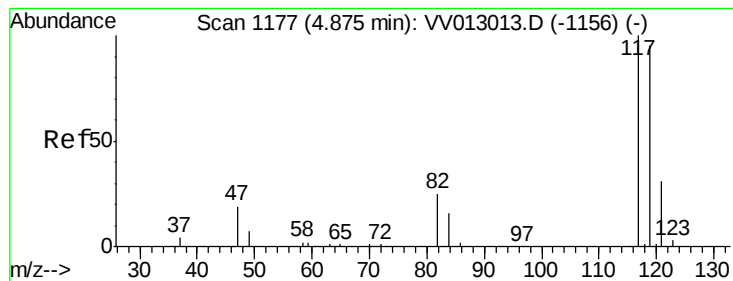
99 66.9 51.7 77.5

61 47.4 36.1 54.1



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





#31

Carbon tetrachloride

Concen: 1.870 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

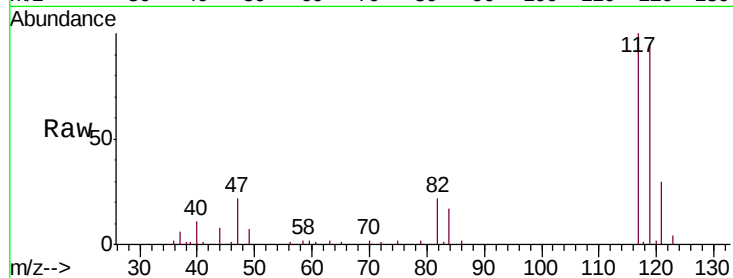
MDL01

Tgt Ion:117 Resp: 25979

Ion Ratio Lower Upper

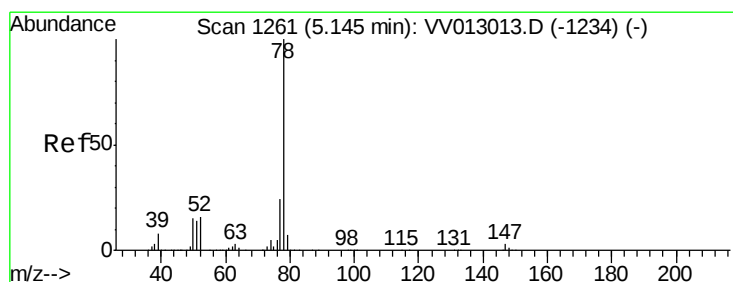
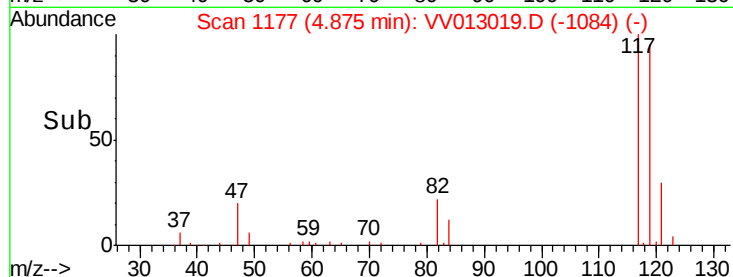
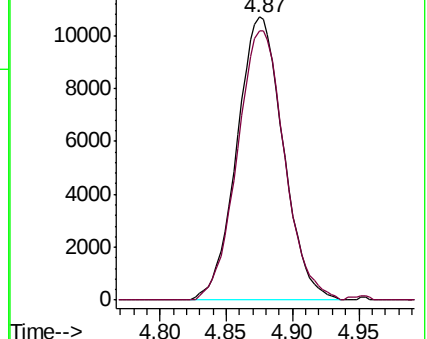
117 100

119 96.7 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 1.987 ug/L

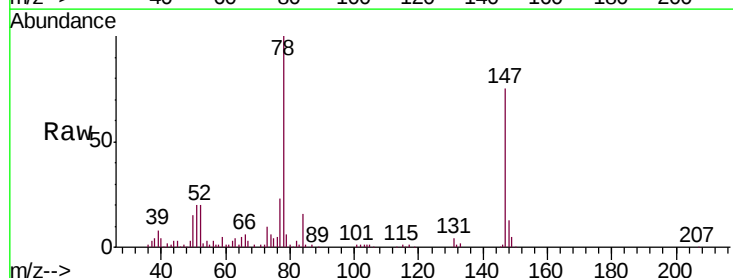
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

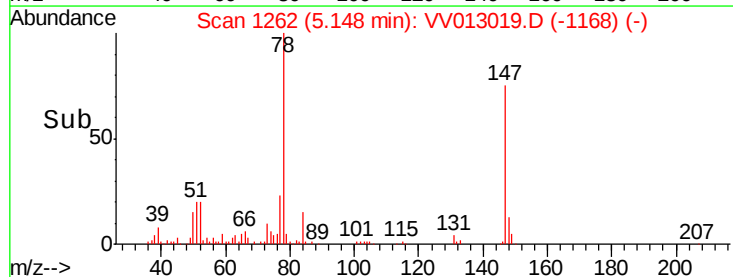
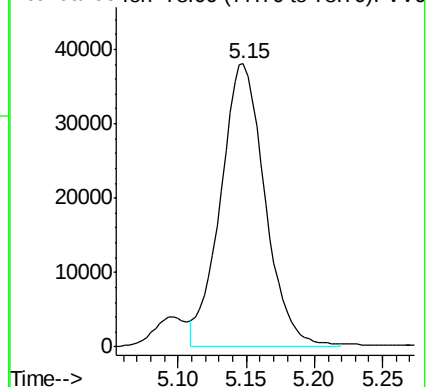
Lab File: VV013019.D

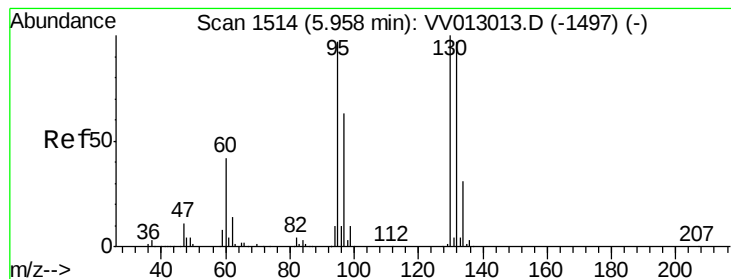
Acq: 30 Sep 2019 16:18

Tgt Ion: 78 Resp: 85859



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 1.989 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tgt Ion: 95 Resp: 23284

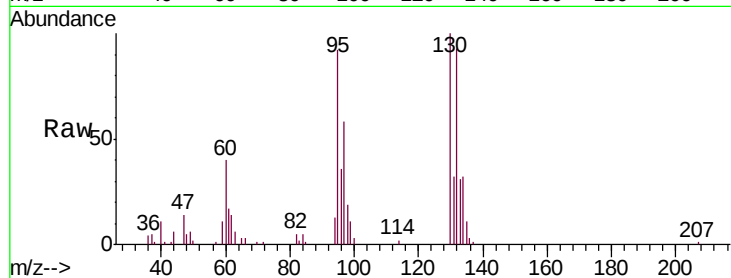
Ion Ratio Lower Upper

95 100

97 63.4 45.4 84.2

132 100.9 70.1 130.3

130 108.8 72.4 134.4

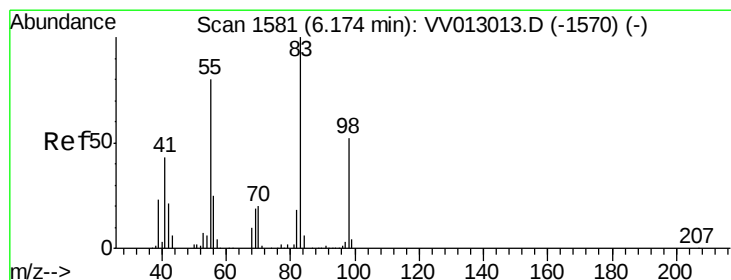
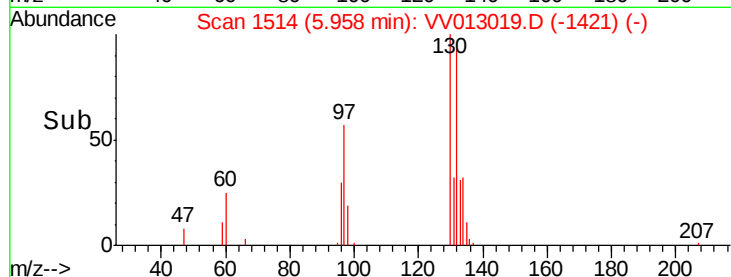
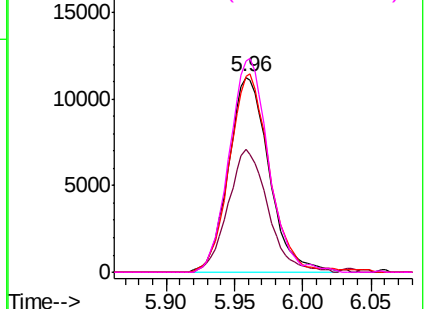


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 1.735 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

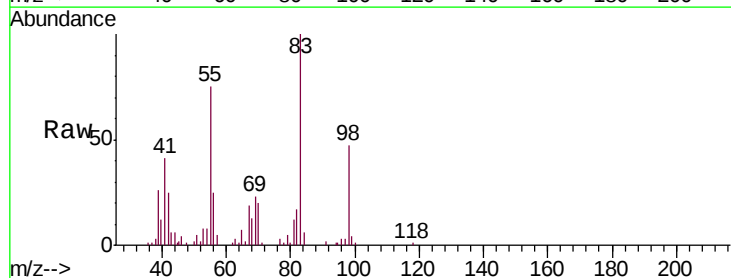
Tgt Ion: 83 Resp: 31873

Ion Ratio Lower Upper

83 100

55 78.9 61.9 92.9

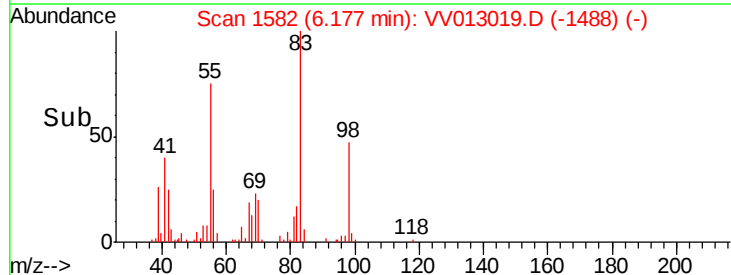
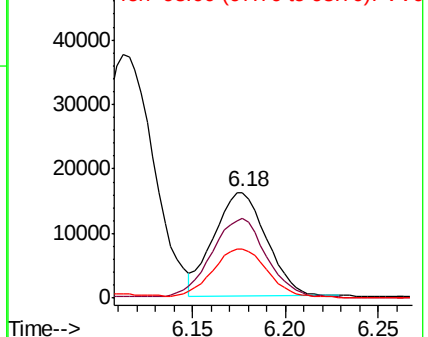
98 47.6 40.0 60.0

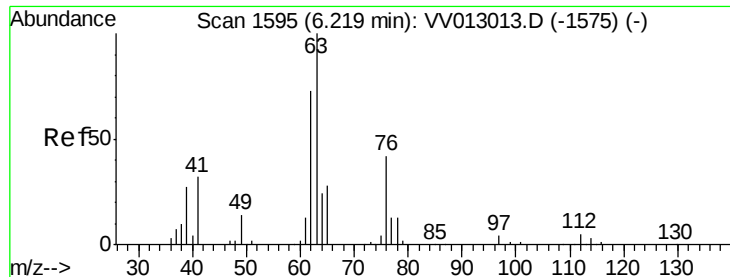


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

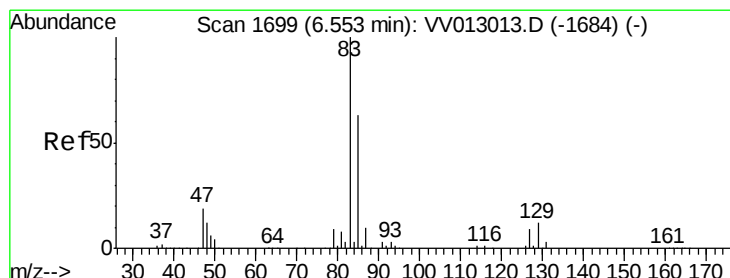
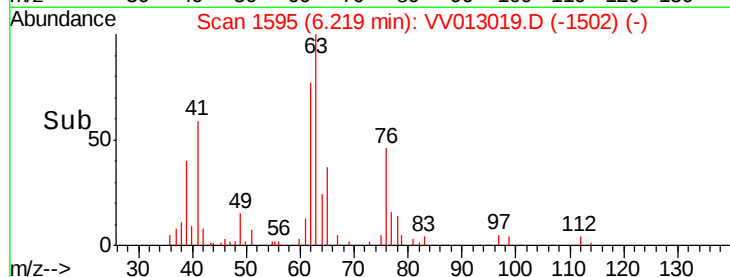
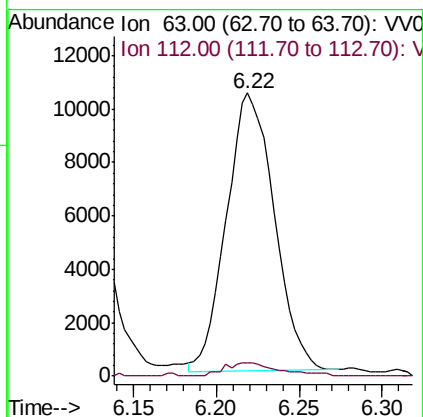
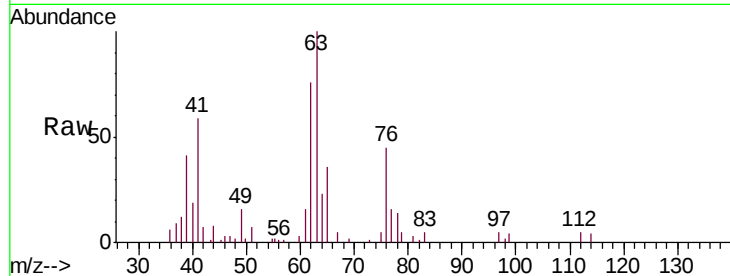




#37
 1,2-Dichloropropane
 Concen: 1.889 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

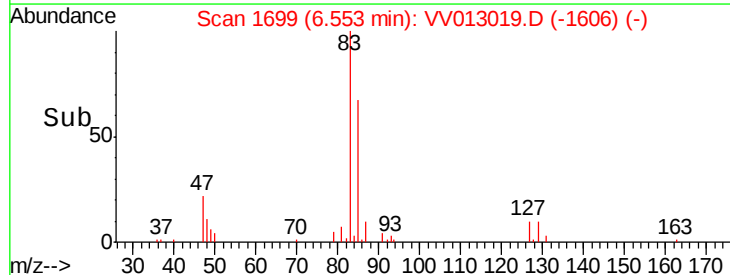
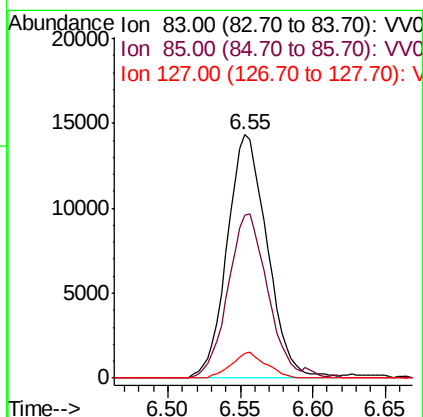
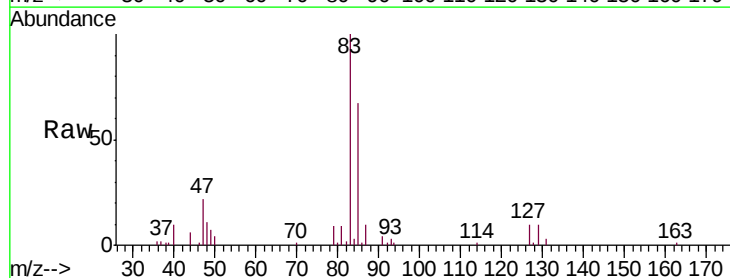
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

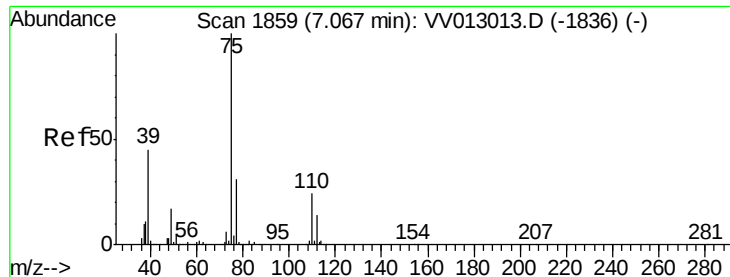
Tgt Ion: 63 Resp: 20948
 Ion Ratio Lower Upper
 63 100
 112 2.6 3.8 5.8#



#38
 Bromodichloromethane
 Concen: 1.901 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

Tgt Ion: 83 Resp: 27512
 Ion Ratio Lower Upper
 83 100
 85 67.1 43.9 81.5
 127 10.1 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 1.894 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

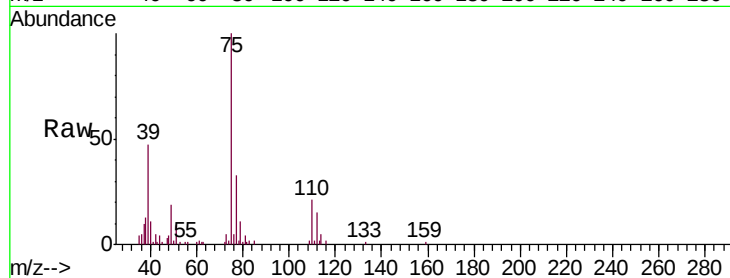
MDL01

Tgt Ion: 75 Resp: 31612

Ion Ratio Lower Upper

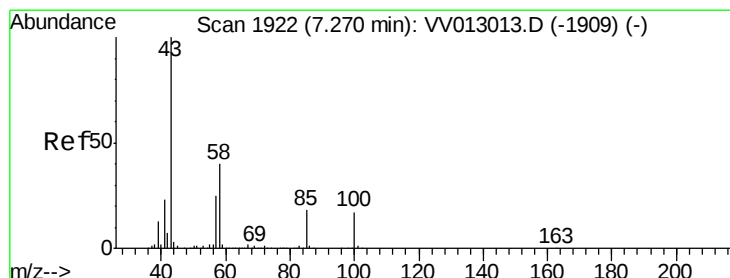
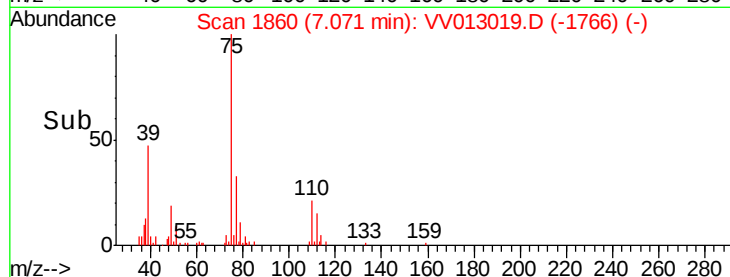
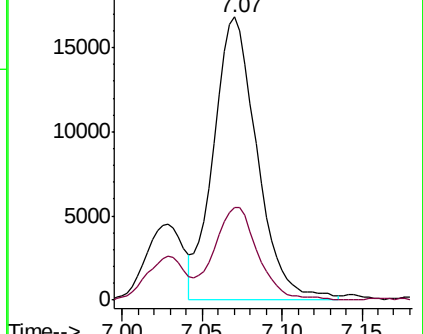
75 100

77 32.8 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV013013.D (-1836) (-)

Ion 77.00 (76.70 to 77.70): VV013013.D (-1836) (-)



#40

4-Methyl-2-pentanone

Concen: 3.675 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

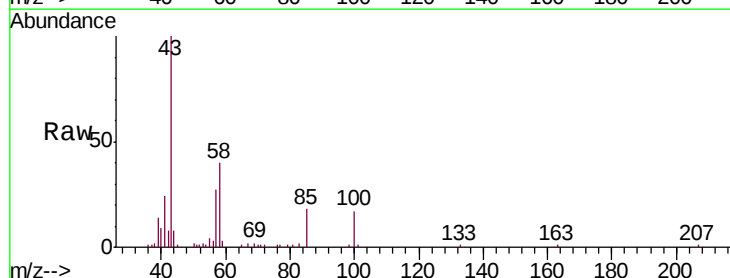
Tgt Ion: 43 Resp: 32560

Ion Ratio Lower Upper

43 100

58 38.2 31.8 47.8

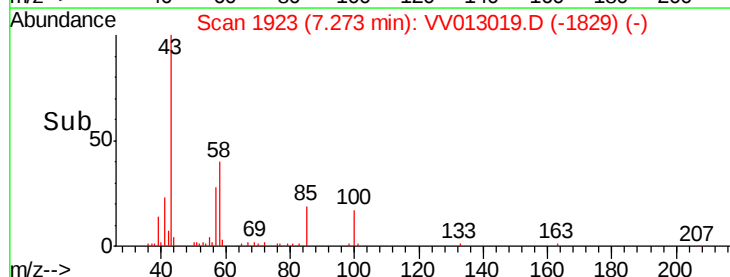
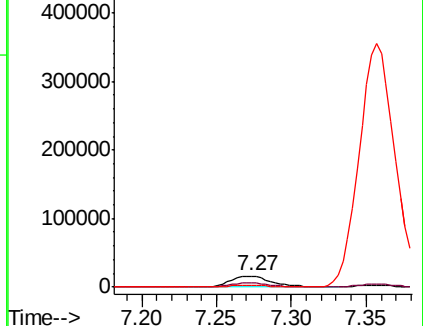
100 14.9 12.8 19.2

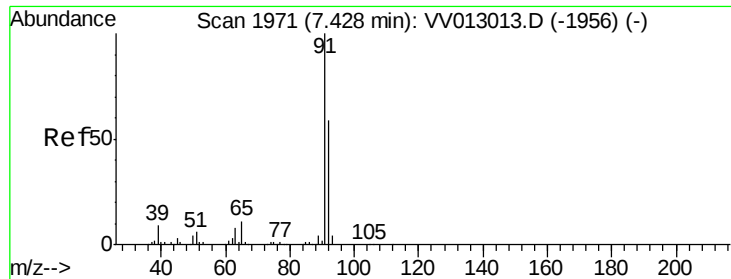


Abundance Ion 43.00 (42.70 to 43.70): VV013013.D (-1909) (-)

Ion 58.00 (57.70 to 58.70): VV013013.D (-1909) (-)

Ion 100.00 (99.70 to 100.70): VV013013.D (-1909) (-)





#42

Toluene

Concen: 2.041 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

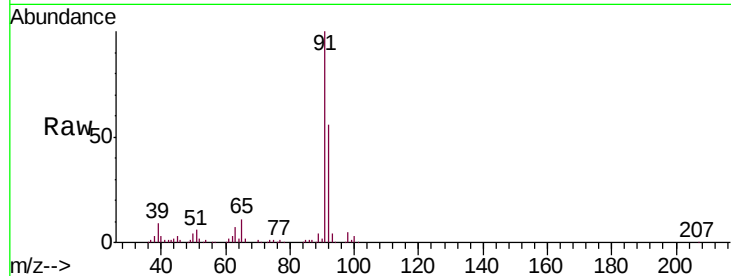
MDL01

Tgt Ion: 91 Resp: 93805

Ion Ratio Lower Upper

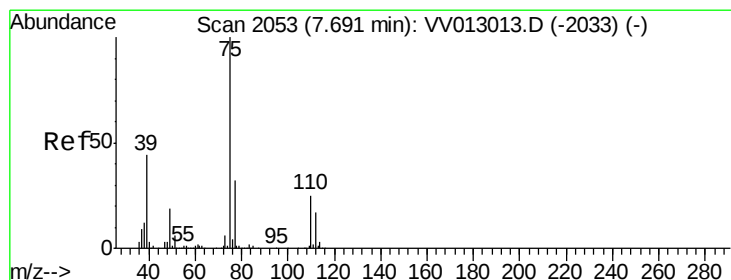
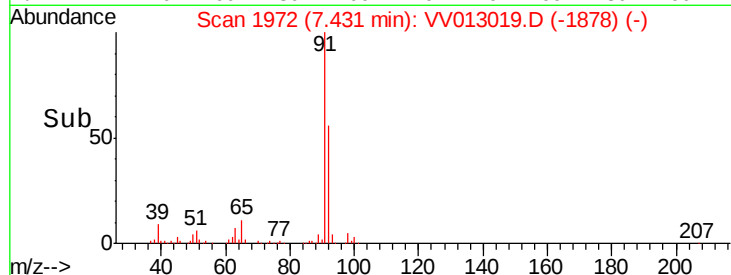
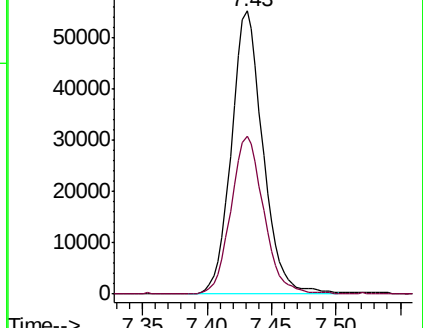
91 100

92 56.0 41.1 76.3



Abundance Ion 91.00 (90.70 to 91.70): VV013013.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV013013.D (-1956) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.297 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV013019.D

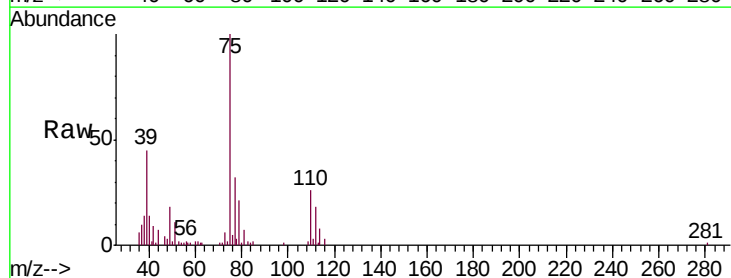
Acq: 30 Sep 2019 16:18

Tgt Ion: 75 Resp: 31491

Ion Ratio Lower Upper

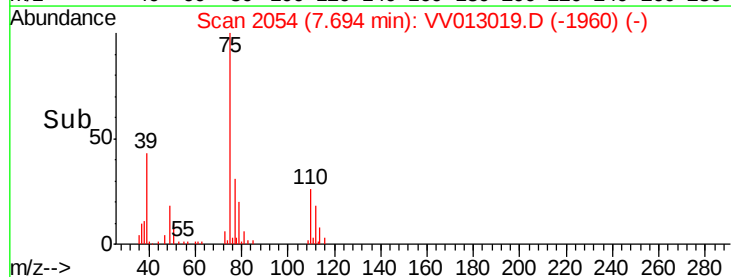
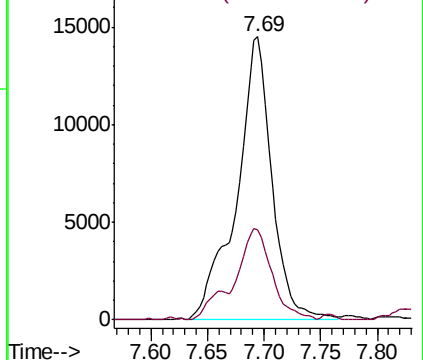
75 100

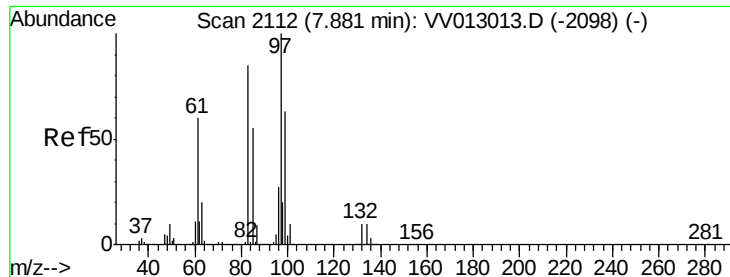
77 32.0 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VV013013.D (-2033) (-)

Ion 77.00 (76.70 to 77.70): VV013013.D (-2033) (-)





#45

1,1,2-Trichloroethane

Concen: 1.906 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tgt Ion: 97 Resp: 17927

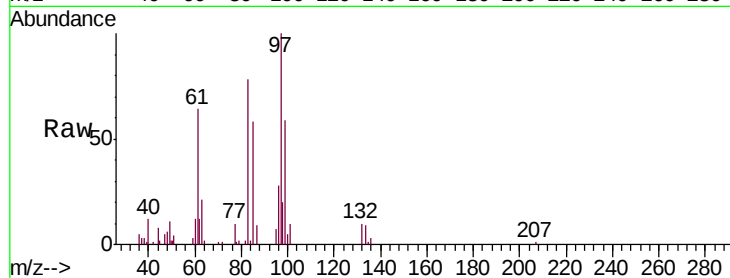
Ion Ratio Lower Upper

97 100

99 59.3 44.2 82.2

83 77.7 59.7 110.9

85 58.3 38.6 71.6

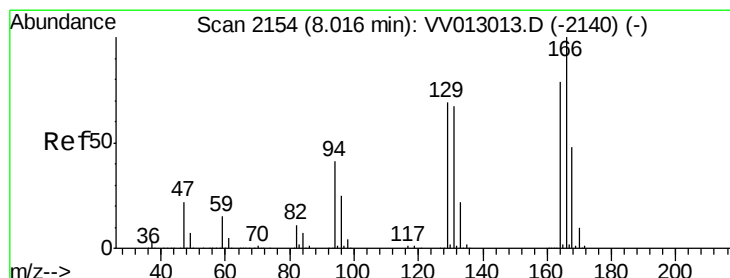
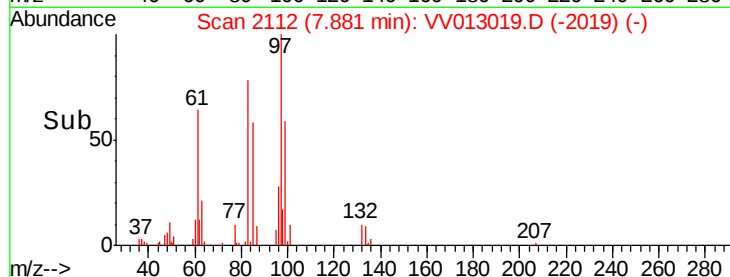
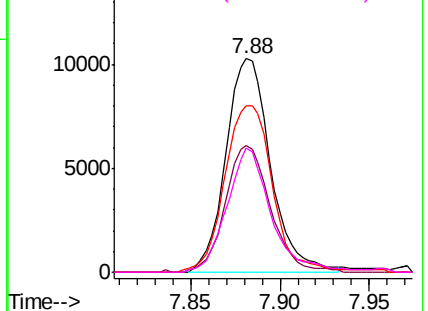


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 1.925 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Tgt Ion: 164 Resp: 18642

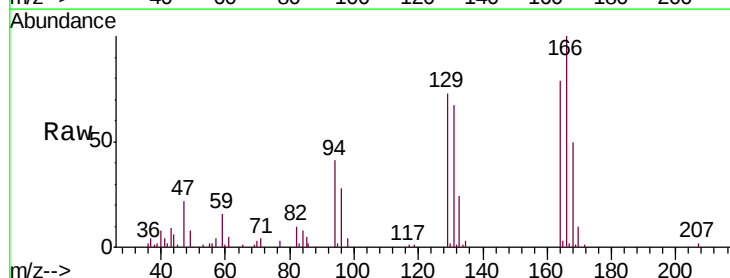
Ion Ratio Lower Upper

164 100

129 92.0 61.2 113.6

131 85.1 59.9 111.3

166 126.2 89.1 165.5

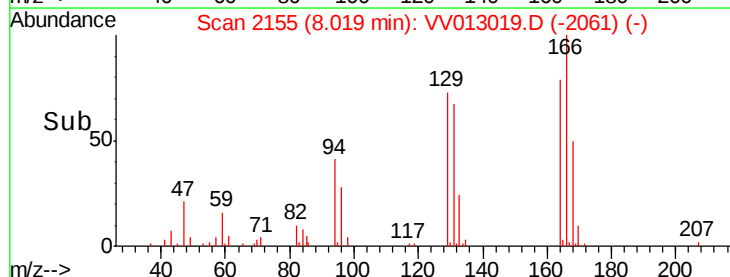
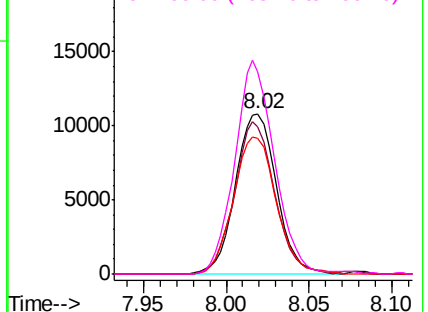


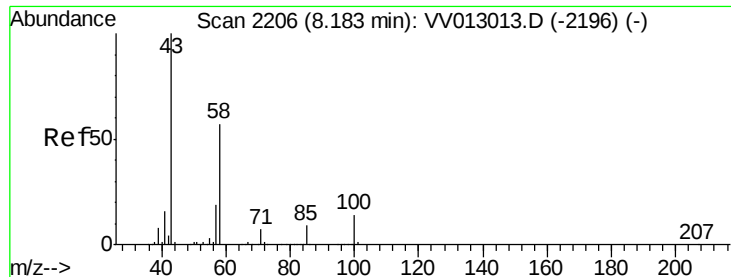
Abundance Ion 164.00 (163.70 to 164.70): V

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

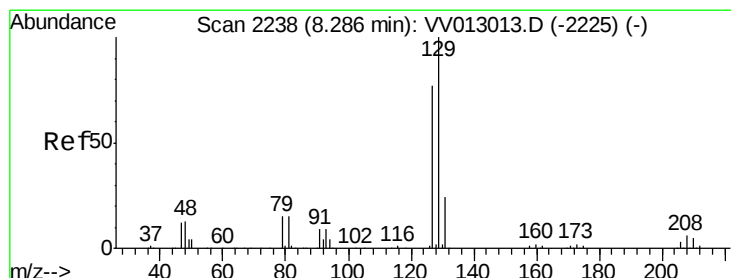
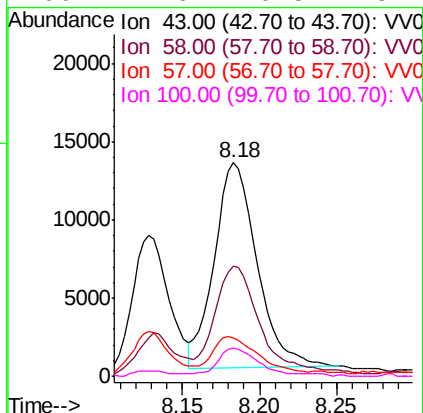
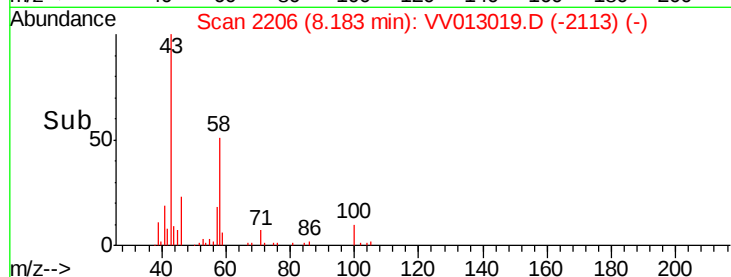
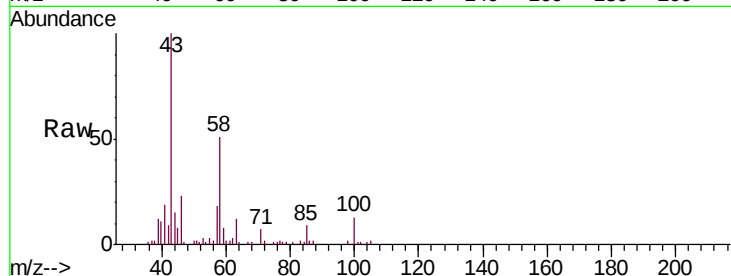




#48
2-Hexanone
Concen: 3.918 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

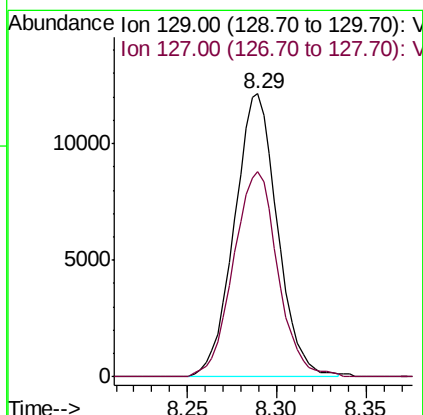
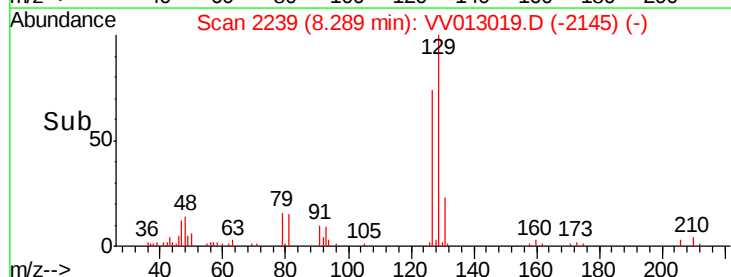
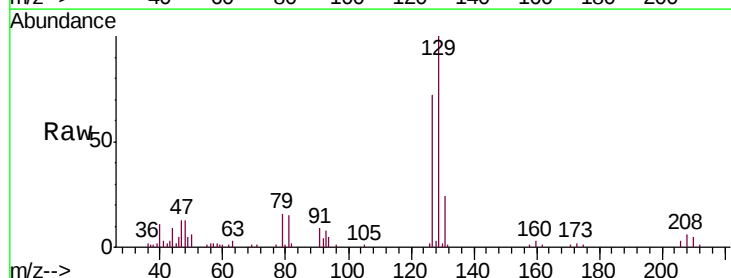
Instrument :
MSVOA_V
ClientSampleId :
MDL01

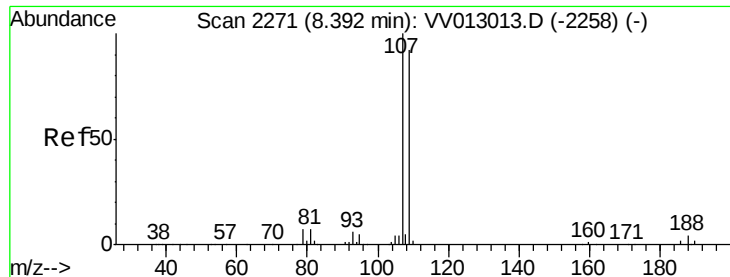
Tgt Ion:	43	Resp:	25275
Ion	Ratio	Lower	Upper
43	100		
58	51.4	44.9	67.3
57	18.2	15.2	22.8
100	11.6	10.5	15.7



#49
Dibromochloromethane
Concen: 1.909 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

Tgt Ion:	129	Resp:	20475
Ion	Ratio	Lower	Upper
129	100		
127	72.4	53.9	100.1

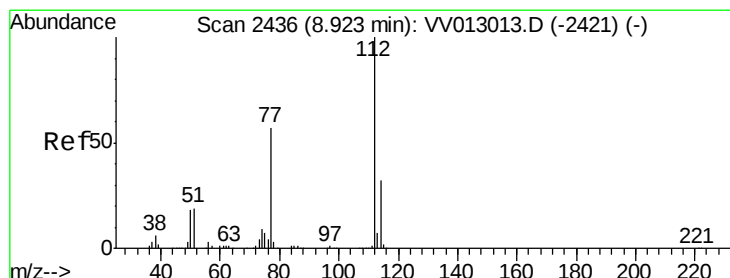
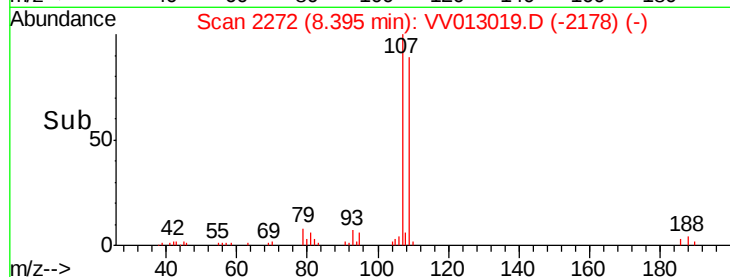
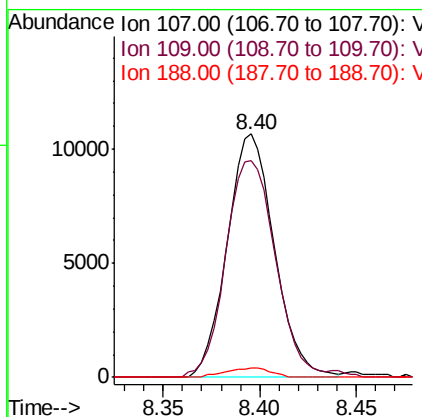
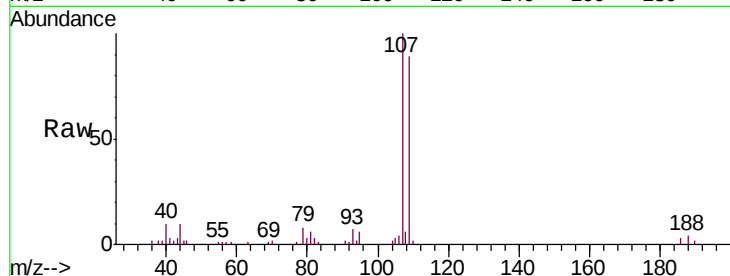




#50
1,2-Dibromoethane
Concen: 1.948 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

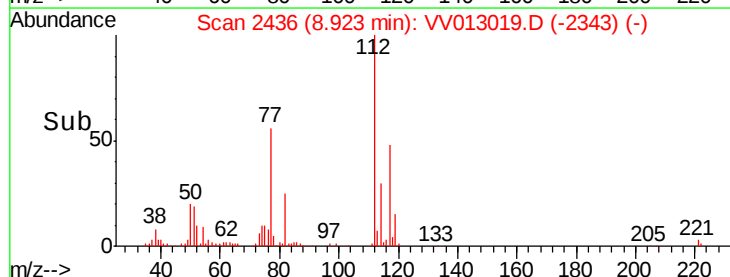
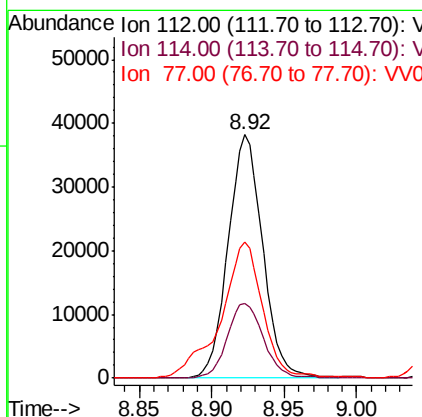
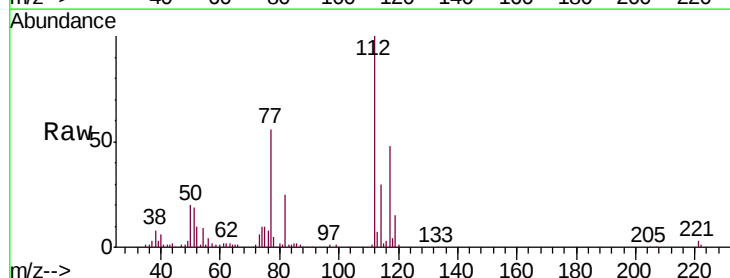
Instrument :
MSVOA_V
ClientSampled :
MDL01

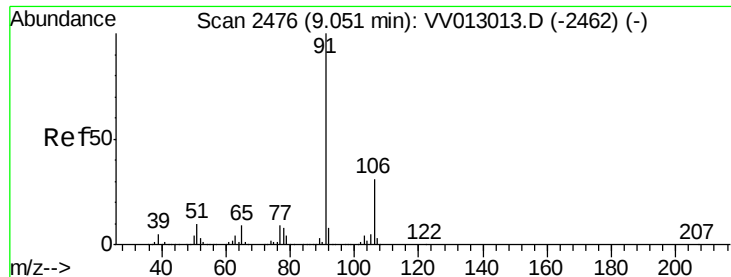
Tgt Ion:107 Resp: 18074
Ion Ratio Lower Upper
107 100
109 89.1 64.7 120.1
188 3.7 3.7 5.5#



#51
Chlorobenzene
Concen: 2.035 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

Tgt Ion:112 Resp: 63439
Ion Ratio Lower Upper
112 100
114 30.4 22.7 42.1
77 55.9 45.9 68.9





#52

Ethylbenzene

Concen: 1.825 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

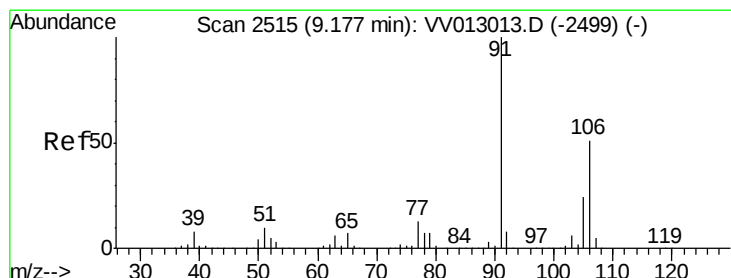
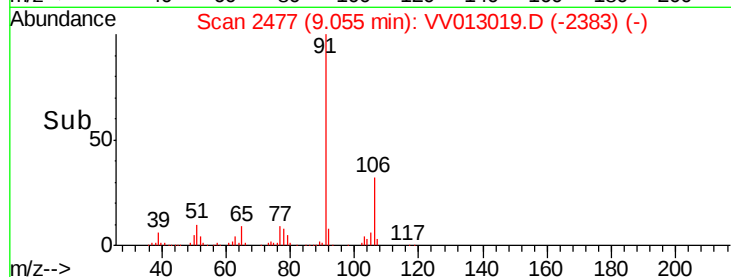
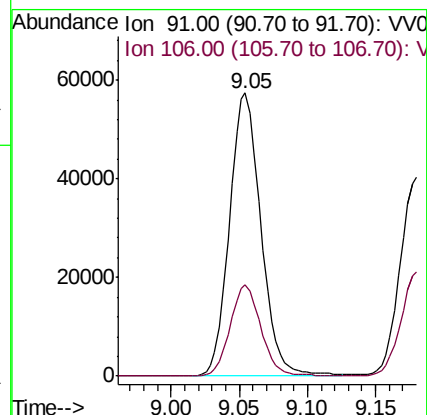
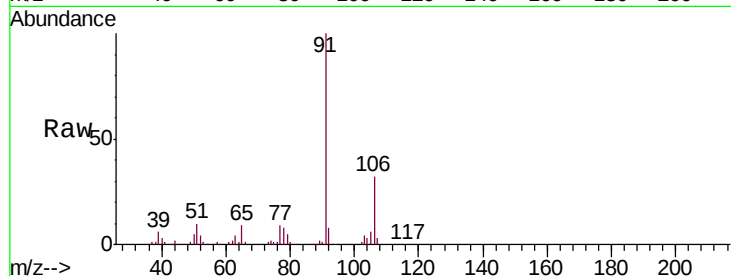
MDL01

Tgt Ion: 91 Resp: 92137

Ion Ratio Lower Upper

91 100

106 32.1 21.8 40.4



#53

m,p-Xylene

Concen: 1.787 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013019.D

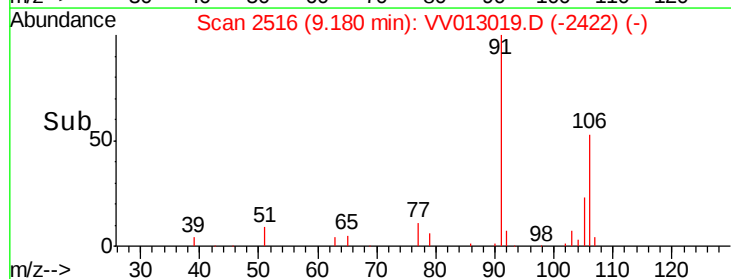
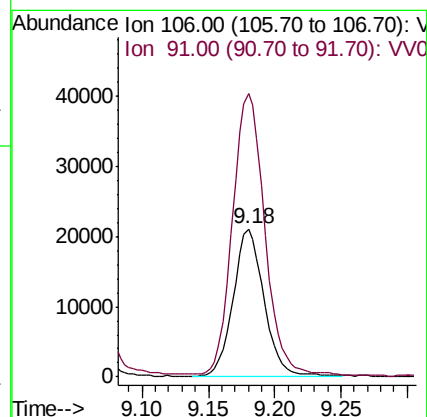
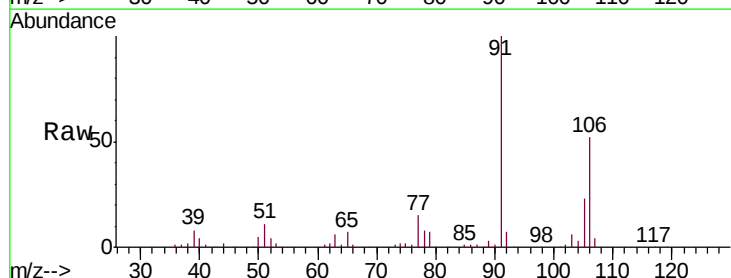
Acq: 30 Sep 2019 16:18

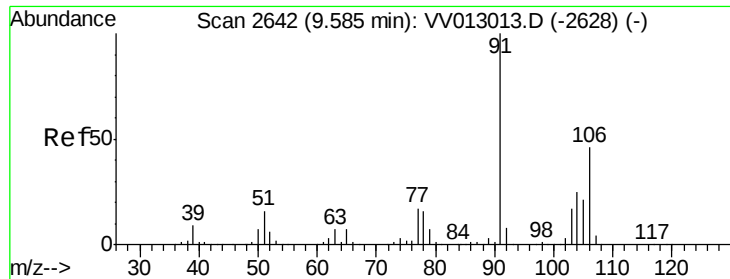
Tgt Ion: 106 Resp: 34484

Ion Ratio Lower Upper

106 100

91 191.5 138.0 256.2

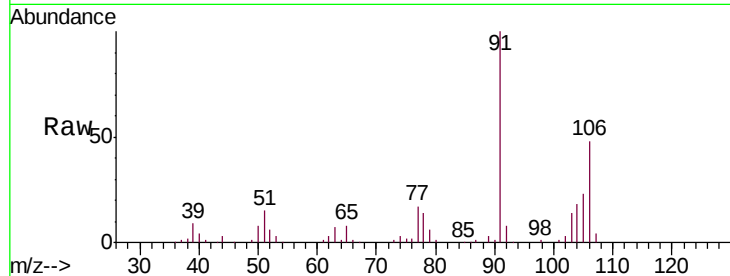




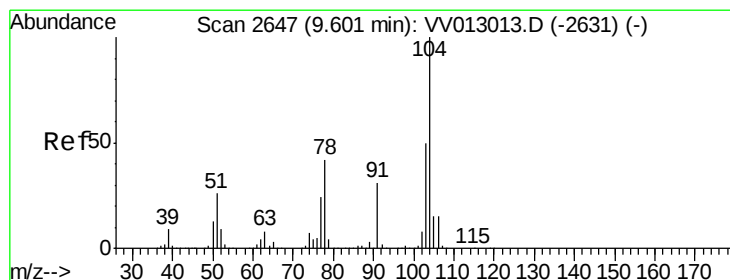
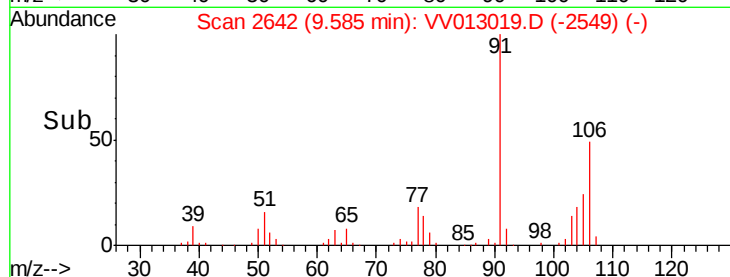
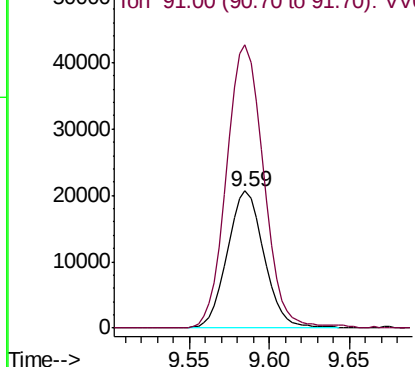
#54
o-Xylene
Concen: 1.747 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tgt Ion:106 Resp: 32245
Ion Ratio Lower Upper
106 100
91 206.3 150.8 280.1

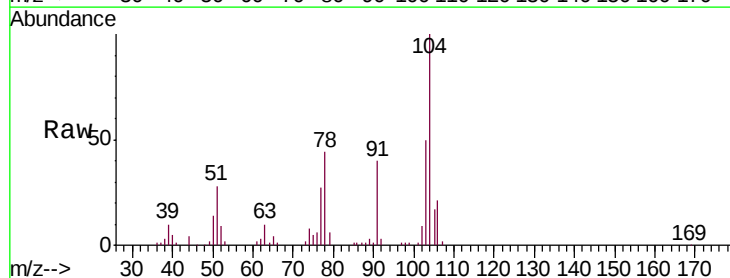


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

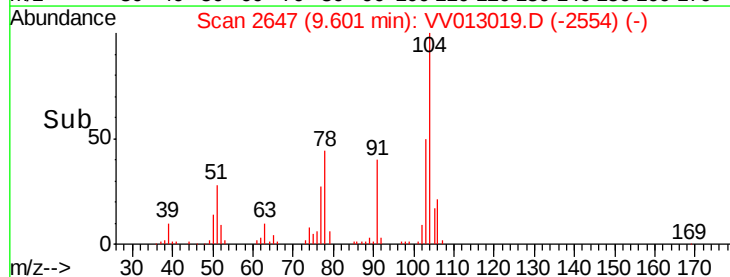
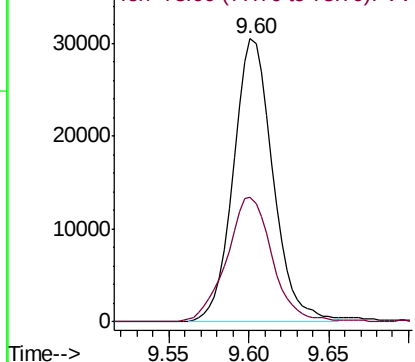


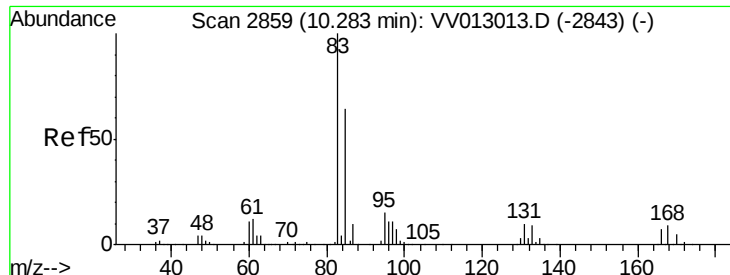
#55
Styrene
Concen: 1.590 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

Tgt Ion:104 Resp: 51391
Ion Ratio Lower Upper
104 100
78 44.2 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0

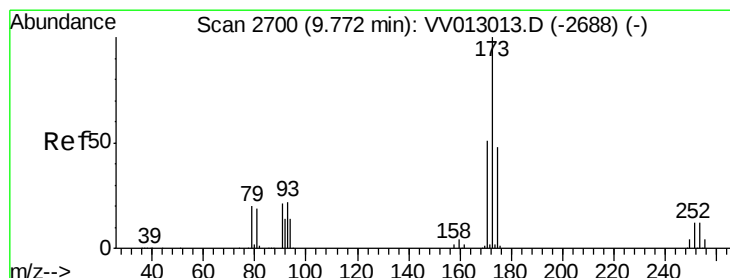
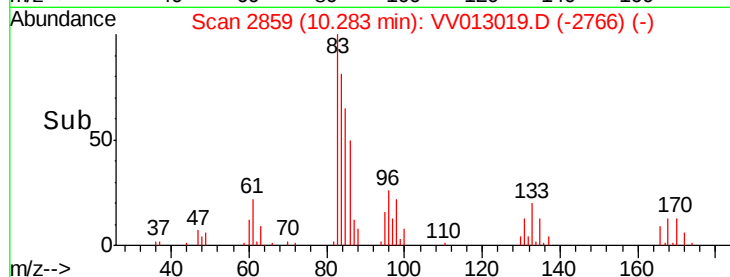
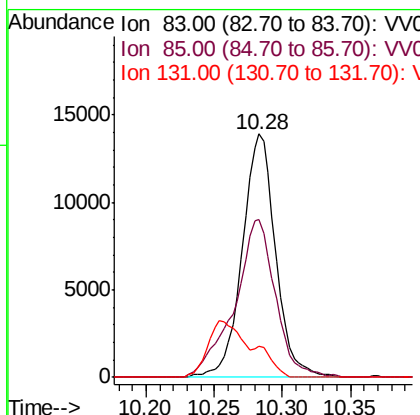
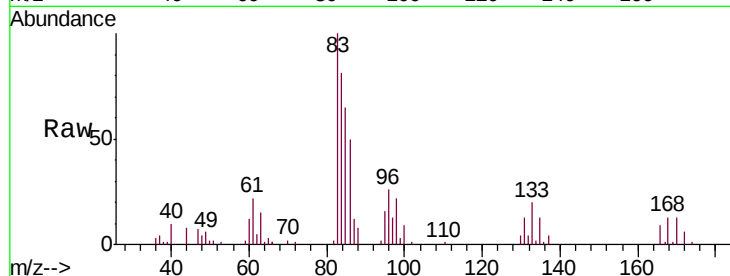




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.051 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

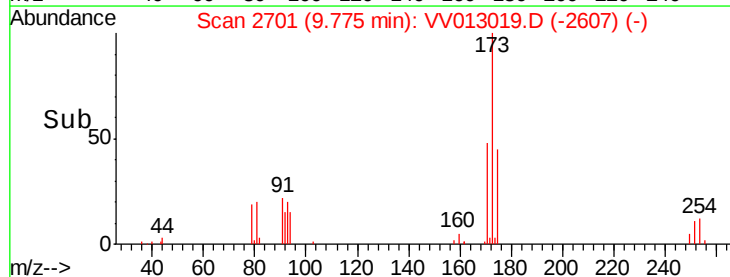
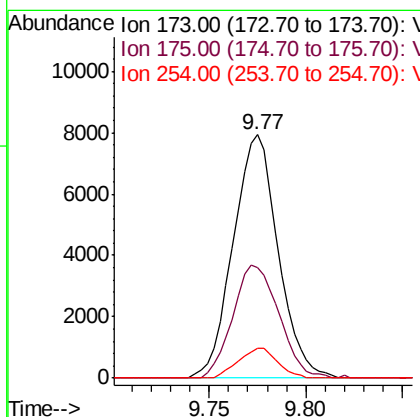
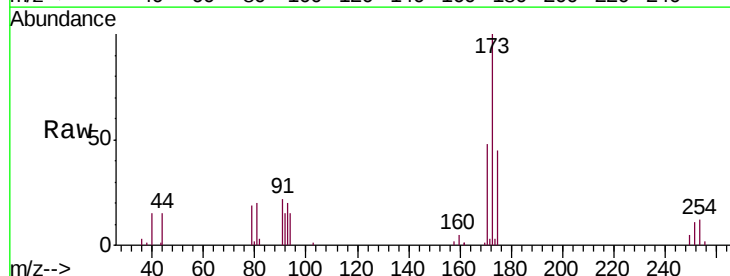
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

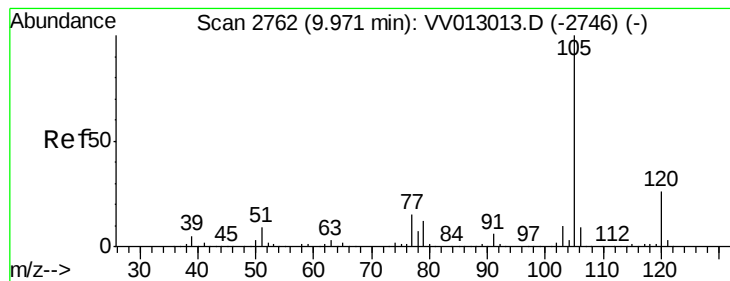
Tgt Ion: 83 Resp: 23524
 Ion Ratio Lower Upper
 83 100
 85 64.6 44.5 82.7
 131 12.6 8.2 12.2#



#59
 Bromoform
 Concen: 1.912 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

Tgt Ion: 173 Resp: 12846
 Ion Ratio Lower Upper
 173 100
 175 47.6 38.9 58.3
 254 10.7 9.4 14.0





#60

Isopropylbenzene

Concen: 1.730 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL01

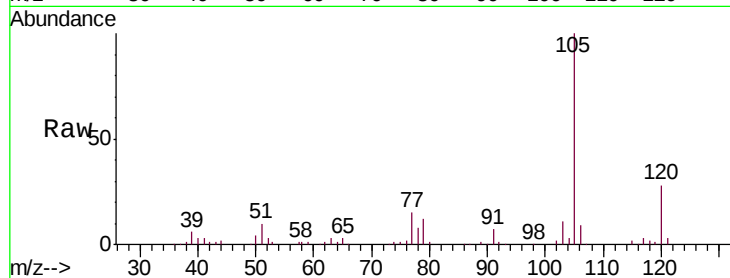
Tgt Ion: 105 Resp: 81778

Ion Ratio Lower Upper

105 100

120 26.4 21.1 31.7

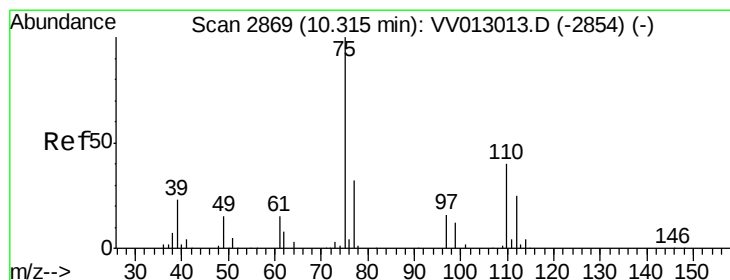
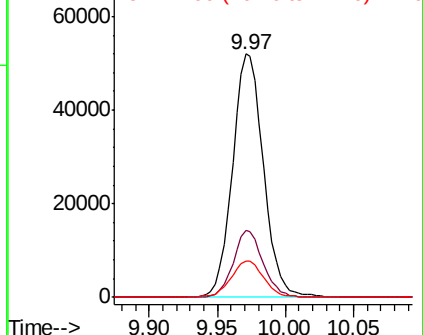
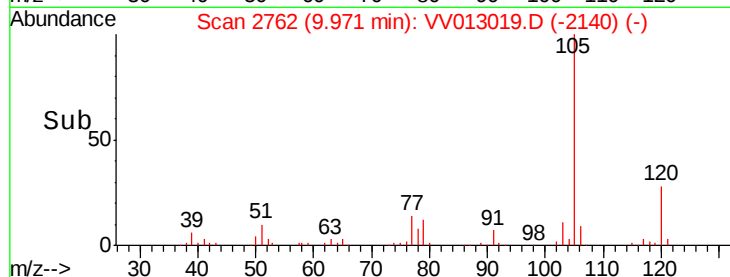
77 16.0 12.3 18.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 2.043 ug/L

RT: 10.31 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

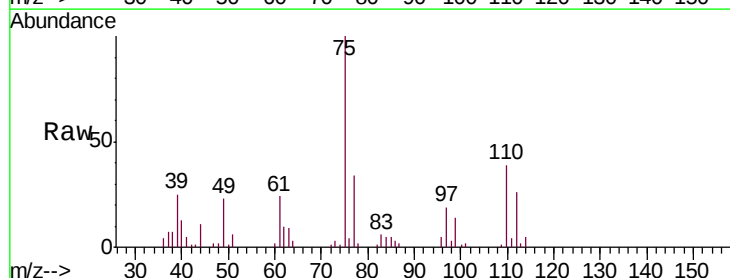
Tgt Ion: 75 Resp: 18237

Ion Ratio Lower Upper

75 100

77 33.0 25.4 38.2

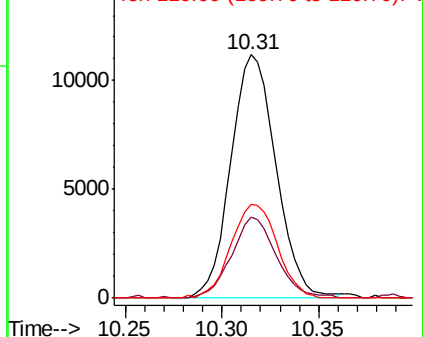
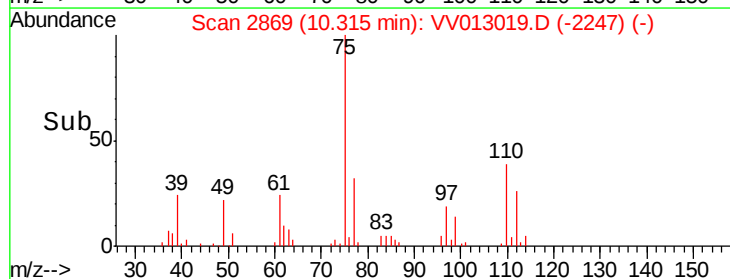
110 39.2 31.7 47.5

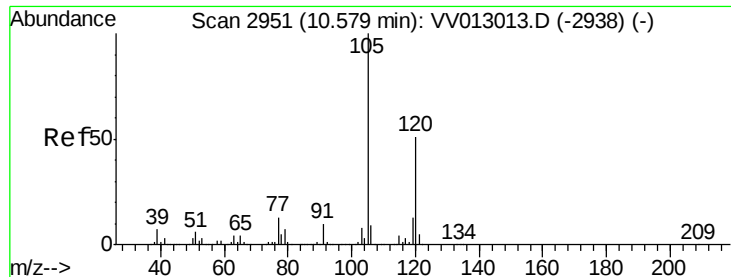


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 1.612 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

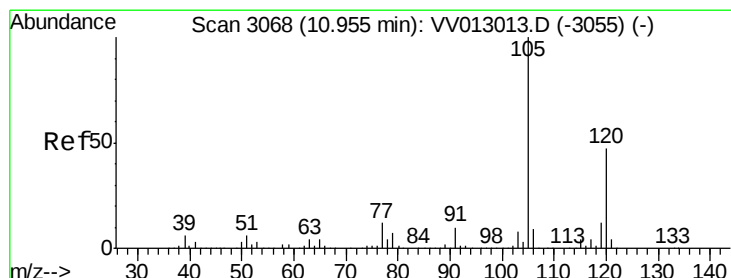
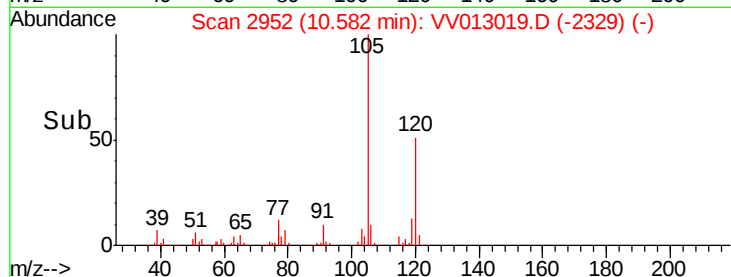
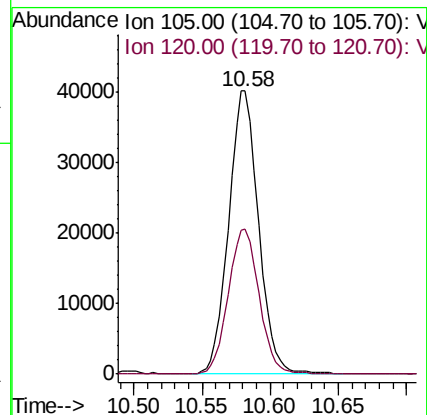
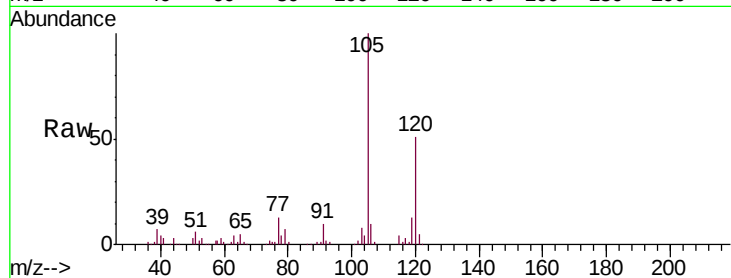
MDL01

Tgt Ion:105 Resp: 61398

Ion Ratio Lower Upper

105 100

120 52.8 40.6 61.0



#63

1,2,4-Trimethylbenzene

Concen: 1.607 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VV013019.D

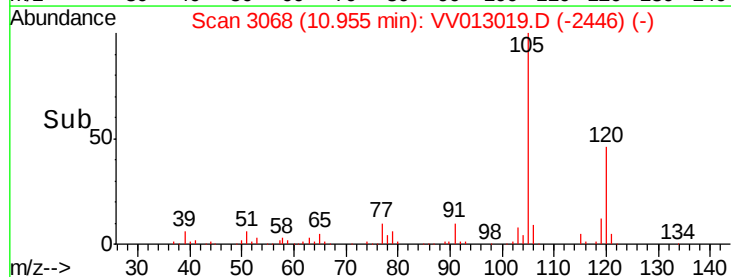
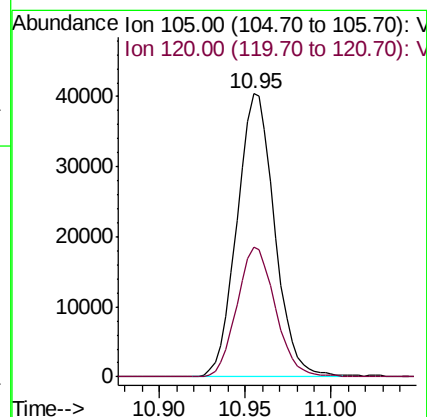
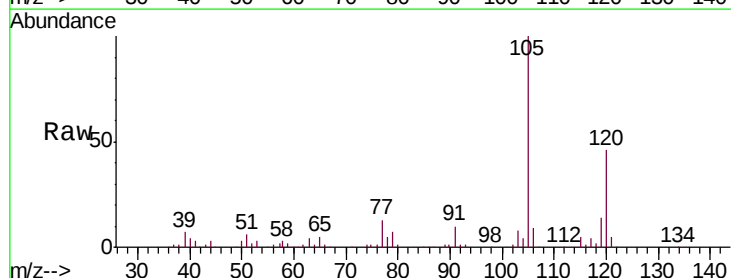
Acq: 30 Sep 2019 16:18

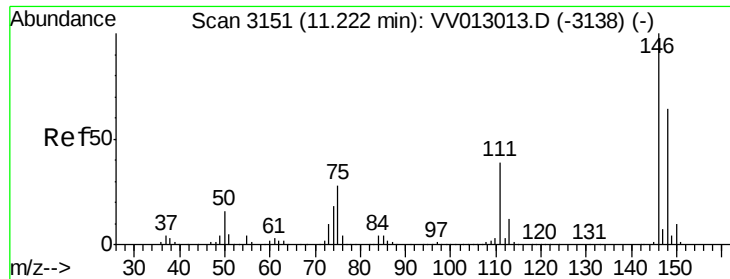
Tgt Ion:105 Resp: 61475

Ion Ratio Lower Upper

105 100

120 46.7 37.1 55.7

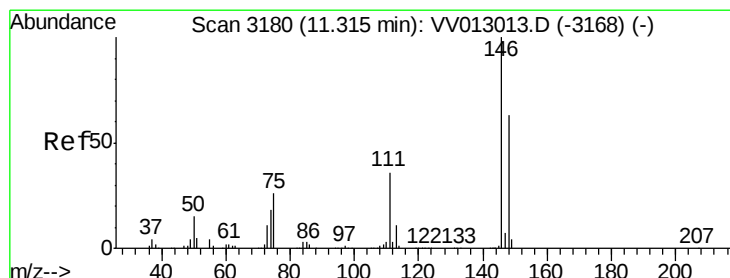
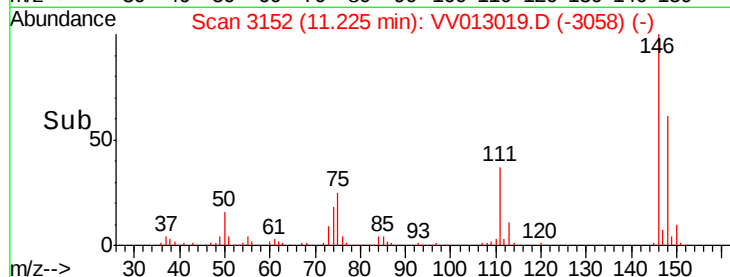
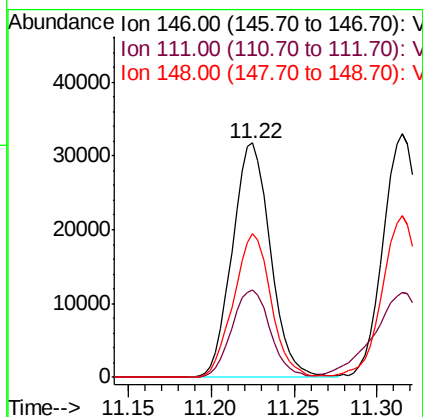
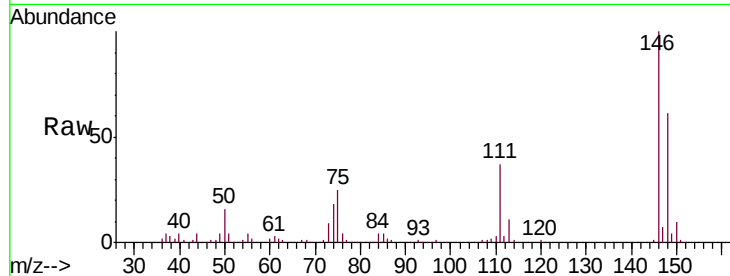




#64
 1,3-Dichlorobenzene
 Concen: 2.054 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

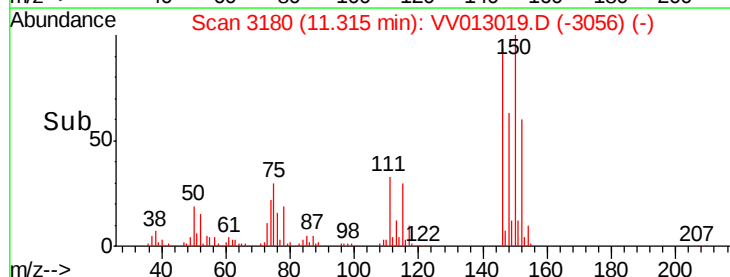
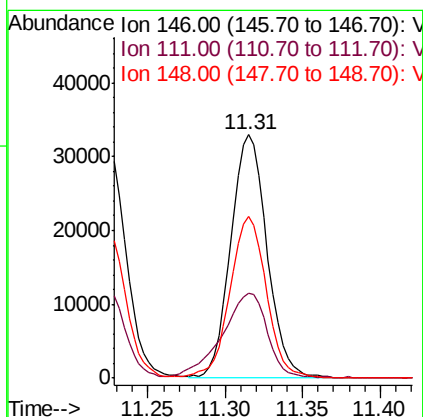
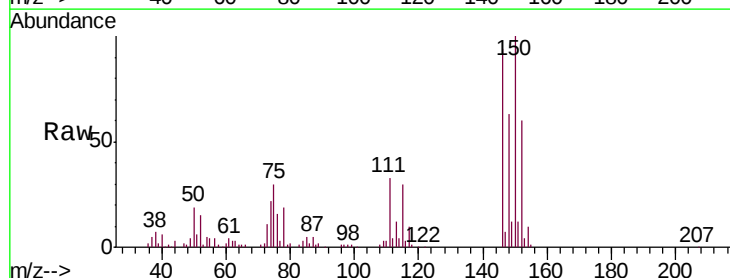
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

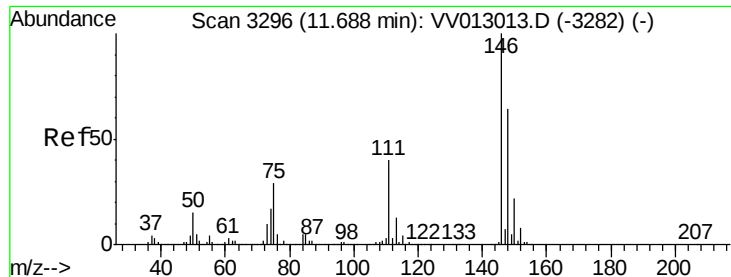
Tgt Ion:146 Resp: 50968
 Ion Ratio Lower Upper
 146 100
 111 37.2 27.0 50.2
 148 61.3 44.7 83.1



#65
 1,4-Dichlorobenzene
 Concen: 2.060 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

Tgt Ion:146 Resp: 53679
 Ion Ratio Lower Upper
 146 100
 111 34.8 25.4 47.2
 148 66.4 44.2 82.2

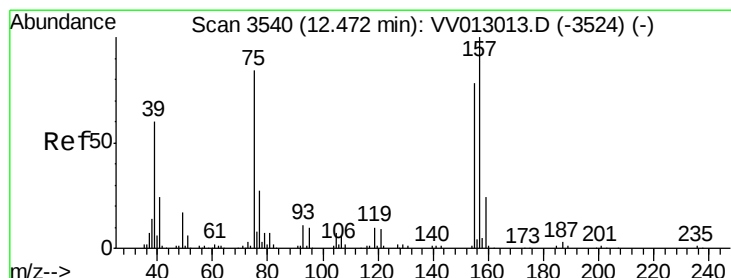
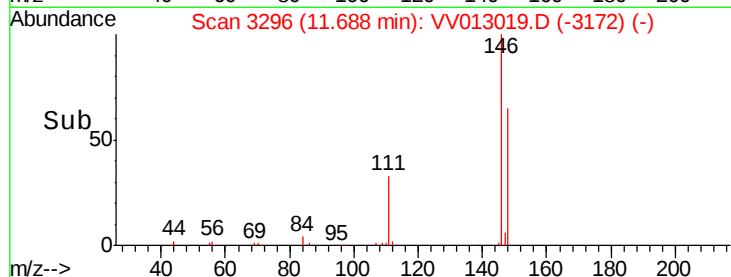
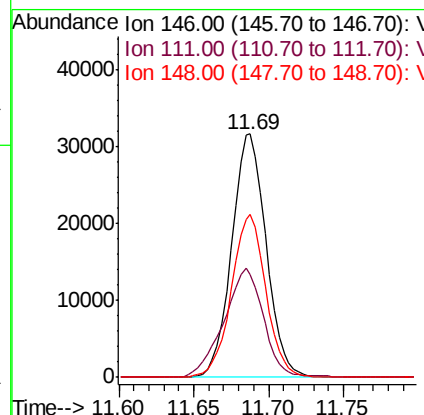
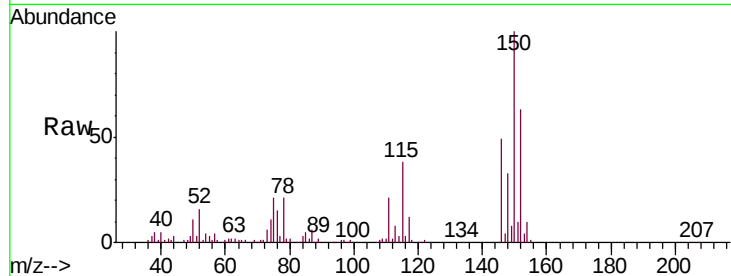




#67
 1,2-Dichlorobenzene
 Concen: 2.142 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

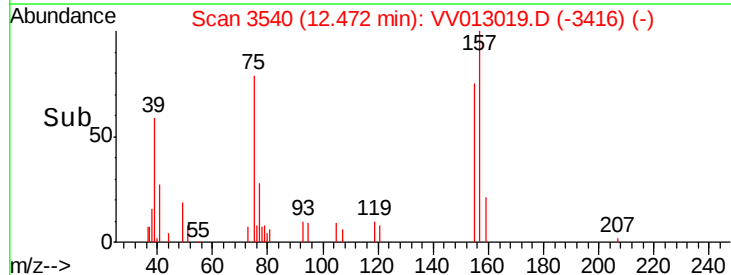
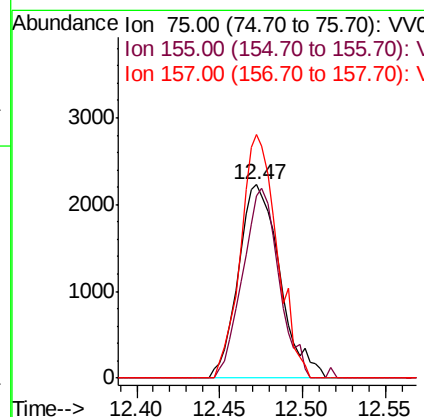
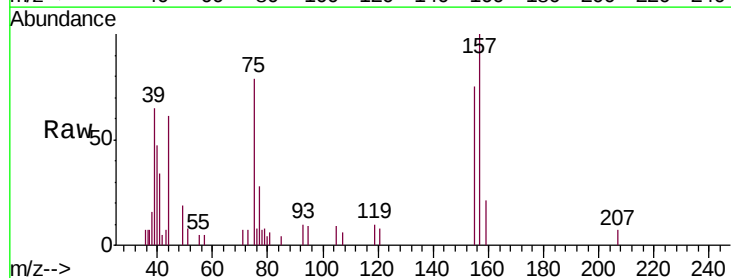
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

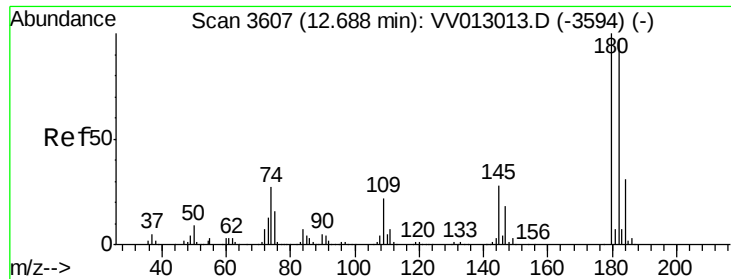
Tgt Ion: 146 Resp: 50740
 Ion Ratio Lower Upper
 146 100
 111 42.5 32.0 48.0
 148 66.7 50.8 76.2



#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.997 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

Tgt Ion: 75 Resp: 3866
 Ion Ratio Lower Upper
 75 100
 155 93.9 74.4 111.6
 157 125.9 95.8 143.6

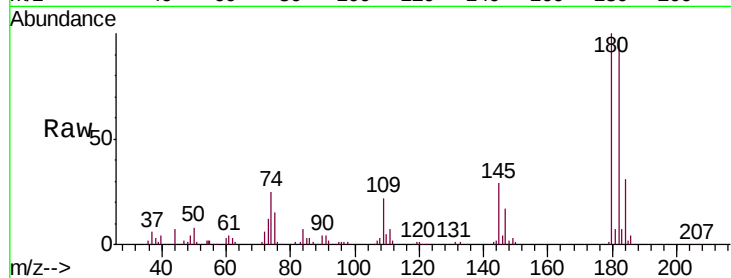




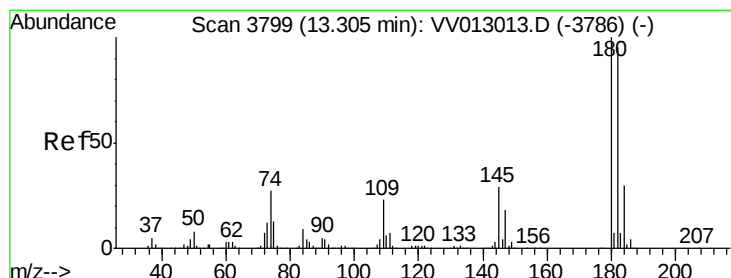
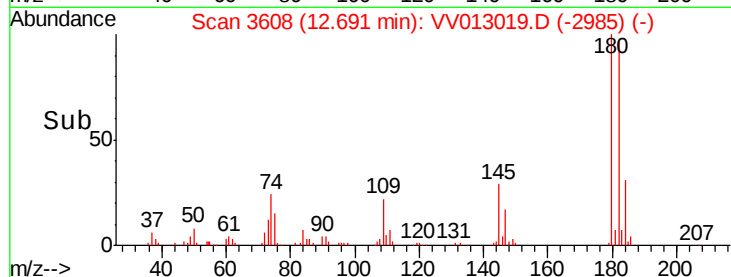
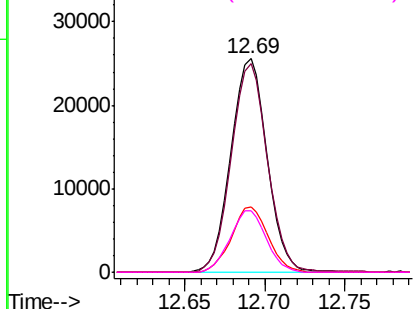
#69
 1,3,5-Trichlorobenzene
 Concen: 1.971 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tgt Ion:180 Resp: 39372
 Ion Ratio Lower Upper
 180 100
 182 97.5 76.6 115.0
 184 30.8 24.6 37.0
 145 28.8 22.2 33.4

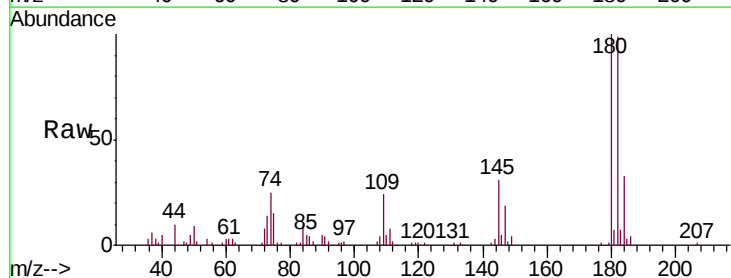


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

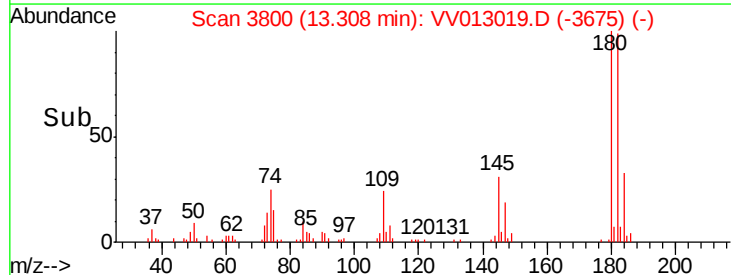
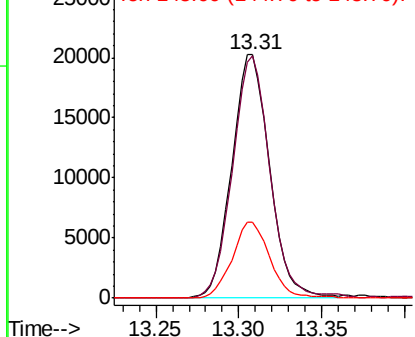


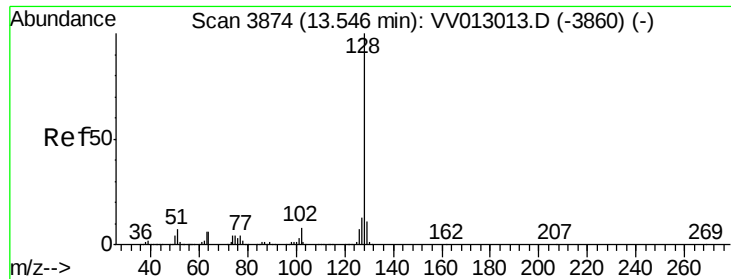
#70
 1,2,4-trichlorobenzene
 Concen: 1.865 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 16:18

Tgt Ion:180 Resp: 32206
 Ion Ratio Lower Upper
 180 100
 182 97.5 76.0 114.0
 145 30.9 22.5 33.7



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

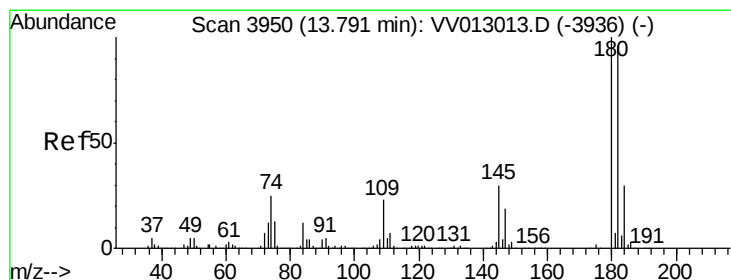
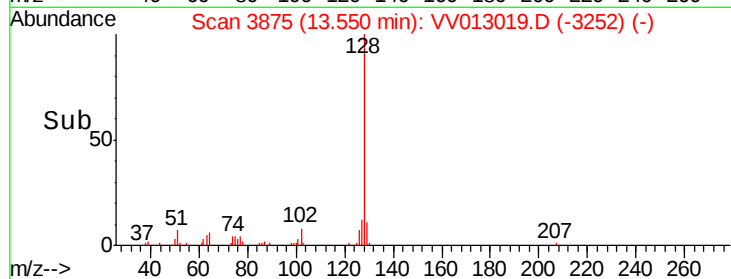
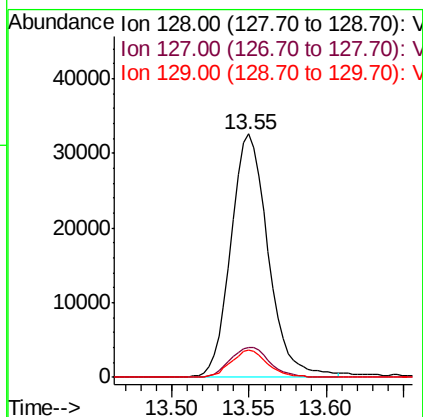
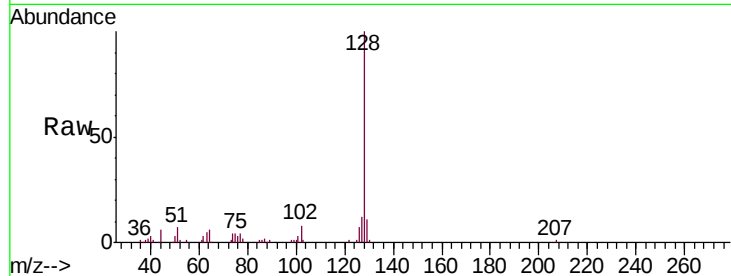




#71
Naphthalene
Concen: 1.624 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tgt Ion:128 Resp: 54652
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.9 8.6 12.8



#72
1,2,3-Trichlorobenzene
Concen: 1.890 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 16:18

Tgt Ion:180 Resp: 31493
Ion Ratio Lower Upper
180 100
182 97.8 76.7 115.1
145 30.0 24.2 36.4

