

Data File : VV009290.D
Acq On : 13 Feb 2019 12:58
Operator : SY/MD
Sample : VSTD2.561
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.561

Quant Time: Feb 13 14:22:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM021319S.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 13 14:20:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	95242	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	87848	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	38335	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	5090	3.13	ug/L	0.00
7) Chloroethane-d5	1.58	69	3645	3.51	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	9276	2.77	ug/L	0.00
20) 2-Butanone-d5	3.96	46	2989	4.10	ug/L	0.02
24) Chloroform-d	4.40	84	8026	2.73	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	4676	2.70	ug/L	0.00
29) Benzene-d6	5.10	84	14380	2.64	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	4966	2.93	ug/L	0.00
37) Toluene-d8	7.36	98	13105	2.65	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	1817	2.41	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	1944	4.72	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	4250	2.54	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	5028	3.34	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	4326	2.447	ug/L	99
3) Chloromethane	1.25	50	5110	2.682	ug/L	90
5) Vinyl chloride	1.33	62	3934	2.070	ug/L #	41
6) Bromomethane	1.53	94	2028	2.235	ug/L	96
8) Chloroethane	1.60	64	3119	3.067	ug/L #	75
9) Trichlorofluoromethane	1.77	101	5965	2.264	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3200	2.106	ug/L	96
12) 1,1-Dichloroethene	2.14	96	3097	2.234	ug/L #	75
13) Acetone	2.20	43	5693	5.498	ug/L	98
14) Carbon disulfide	2.32	76	11395	2.147	ug/L	99
15) Methyl Acetate	2.47	43	3551	2.829	ug/L #	88
16) Methylene chloride	2.54	84	7745	3.869	ug/L	96
17) Methyl tert-butyl Ether	2.81	73	7701	2.058	ug/L	92
18) trans-1,2-Dichloroethene	2.79	96	3407	2.160	ug/L	94
19) 1,1-Dichloroethane	3.23	63	6381	2.126	ug/L	99
21) 2-Butanone	4.05	43	3016	2.872	ug/L	83
22) cis-1,2-Dichloroethene	3.96	96	2057	1.270	ug/L	89
23) Bromochloromethane	4.30	128	1291	1.776	ug/L #	77
25) Chloroform	4.43	83	6070	2.045	ug/L	96
27) 1,2-Dichloroethane	5.18	62	4842	2.273	ug/L	99
30) Cyclohexane	4.72	56	5692	2.046	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	5226	2.048	ug/L	99
32) Carbon tetrachloride	4.88	117	4601	2.039	ug/L	99
34) Benzene	5.15	78	12810	2.128	ug/L	100
35) Trichloroethene	5.96	95	3412	2.090	ug/L	94
36) Methylcyclohexane	6.17	83	5108	1.873	ug/L	97
40) 1,2-Dichloropropane	6.22	63	3114	1.964	ug/L #	89
41) Bromodichloromethane	6.55	83	4264	2.081	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	4270	1.845	ug/L	94
43) 4-Methyl-2-pentanone	7.28	43	6778	4.470	ug/L	99

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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	12412	1.965	ug/L	94
45) trans-1,3-Dichloropropene	7.69	75	3454	1.674	ug/L	95
46) 1,1,2-Trichloroethane	7.88	97	2751	2.280	ug/L	90
47) Tetrachloroethene	8.02	164	2911	2.366	ug/L	92
49) 2-Hexanone	8.19	43	5611	4.315	ug/L #	95
50) Dibromochloromethane	8.29	129	3080	2.223	ug/L	84
51) 1,2-Dibromoethane	8.40	107	2590	2.142	ug/L #	94
52) Chlorobenzene	8.93	112	8248	2.067	ug/L	88
53) Ethylbenzene	9.06	91	13265	1.896	ug/L	98
54) m,p-Xylene	9.18	106	4454	1.729	ug/L	90
55) o-xylene	9.59	106	4111	1.686	ug/L	93
56) Styrene	9.61	104	6829	1.664	ug/L	96
57) Isopropylbenzene	9.98	105	12326	1.842	ug/L	95
58) 1,1,2,2-Tetrachloroethane	10.29	83	3743	2.126	ug/L #	92
59) 1,2,3-Trichloropropane	10.32	75	3089	2.242	ug/L	98
62) Bromoform	9.77	173	1054	1.388	ug/L #	89
63) 1,3-Dichlorobenzene	11.23	146	6146	2.262	ug/L	95
64) 1,4-Dichlorobenzene	11.32	146	6564	2.390	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	6115	2.404	ug/L #	86
66) 1,2-Dibromo-3-chloropropan	12.70	75	1164	3.621	ug/L #	8
67) 1,3,5-Trichlorobenzene	12.69	180	4758	2.359	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	3957	2.517	ug/L	90
69) Naphthalene	13.56	128	10289	3.246	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	3872	2.711	ug/L	95

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

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Operator : SY/MD

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Operator      : ST, ND
Sample        : VSTD2.561

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Misc : 5.00G/10ML/MSVOA_V/SOIL

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD2.561

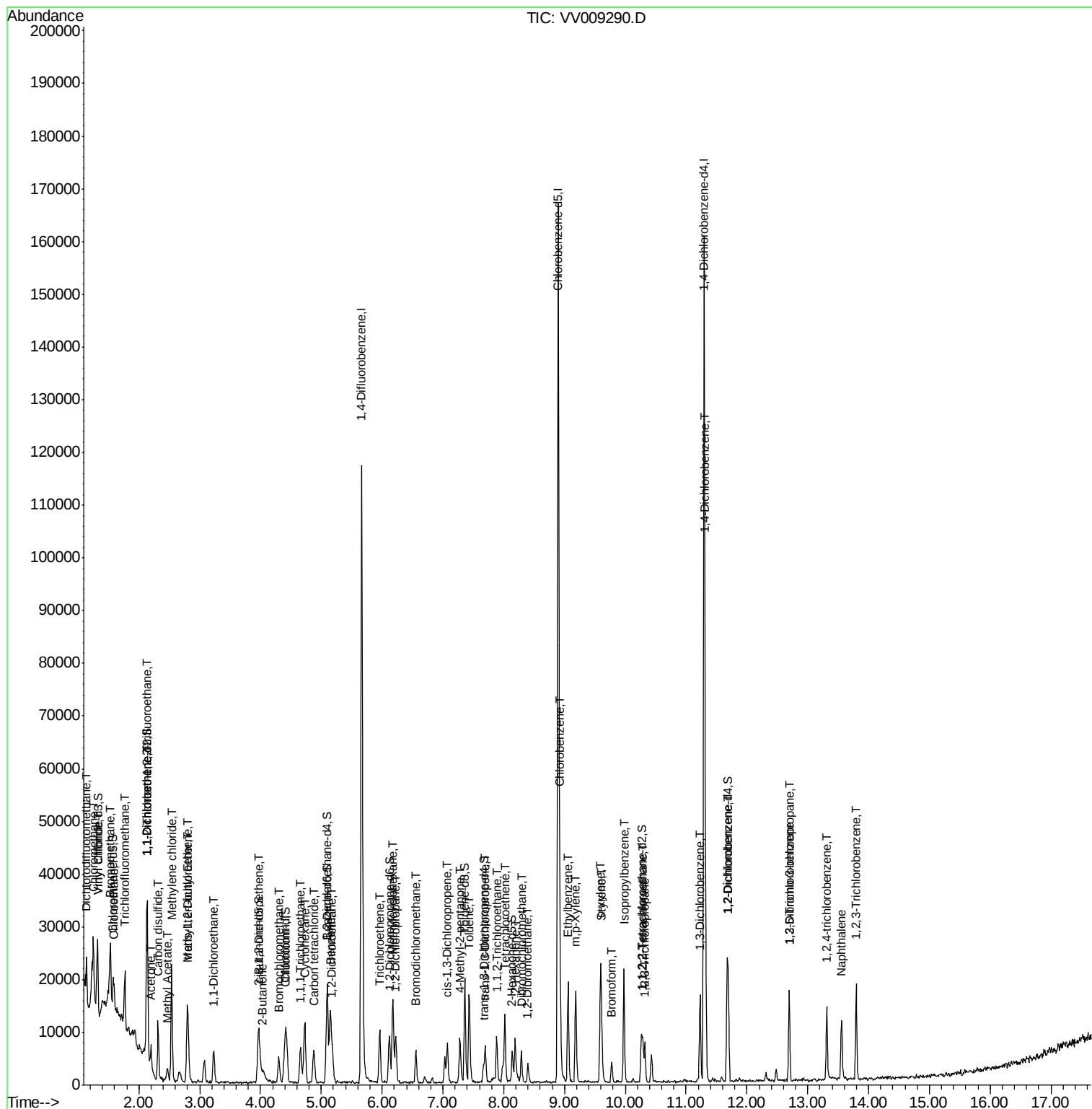
Quant Time: Feb 13 14:22:59 2019

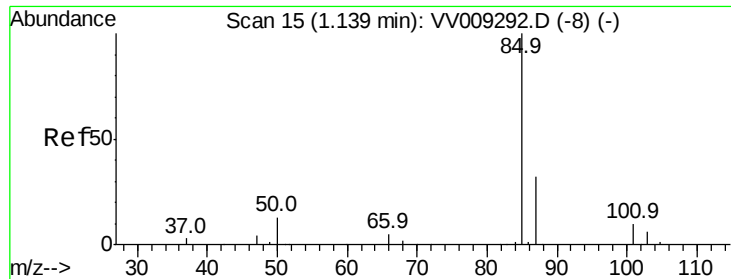
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM021319S.M

Quant Title : VOC Analysis

QLast Update : Wed Feb 13 14:20:21 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.447 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

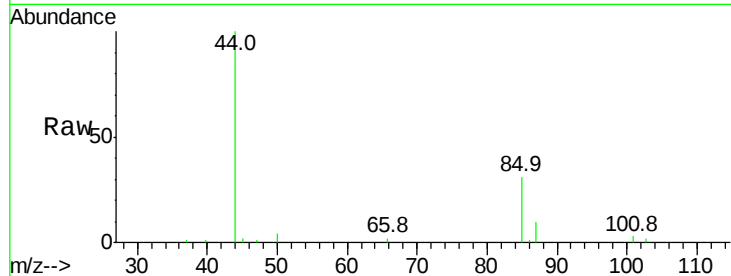
VSTD2.561

Tgt Ion: 85 Resp: 4326

Ion Ratio Lower Upper

85 100

87 32.5 22.2 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

5000

4000

3000

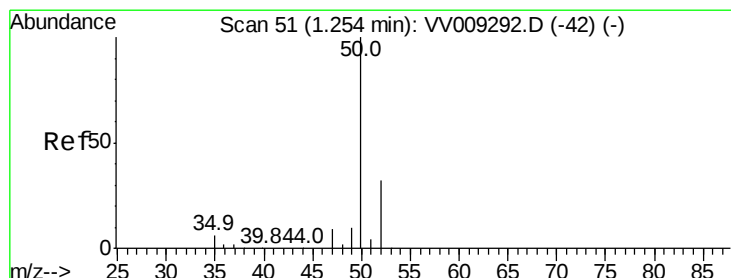
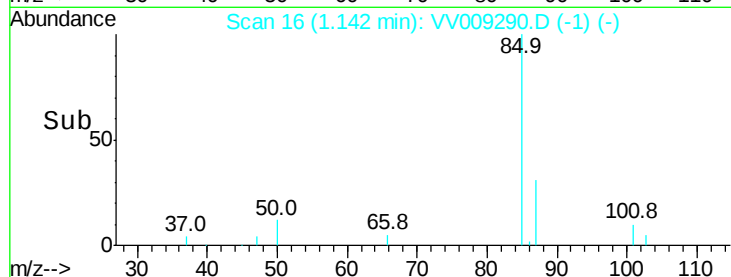
2000

1000

0

Time-->

1.12 1.14 1.16



#3

Chloromethane

Concen: 2.682 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009290.D

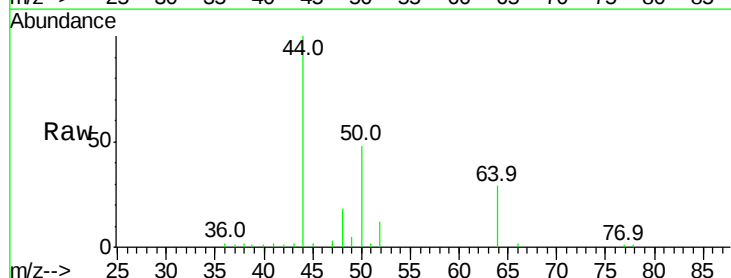
Acq: 13 Feb 2019 12:58

Tgt Ion: 50 Resp: 5110

Ion Ratio Lower Upper

50 100

52 26.1 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

6000

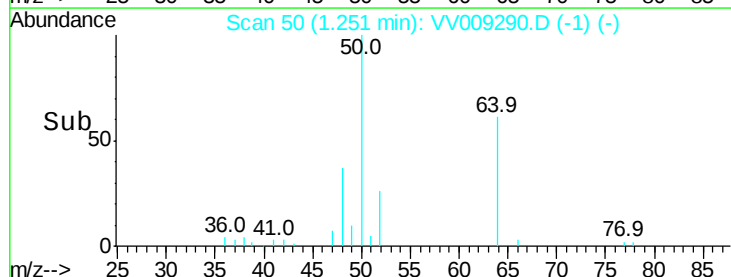
4000

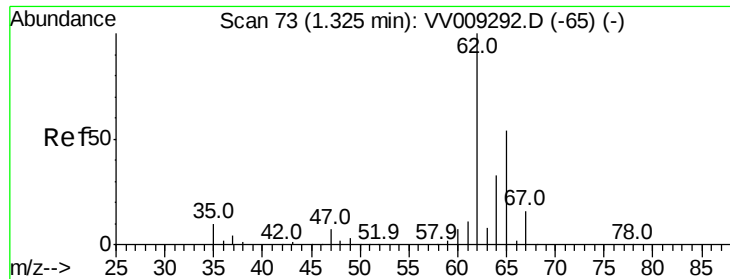
2000

0

Time-->

1.22 1.24 1.26 1.28





#5

Vinyl chloride

Concen: 2.070 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

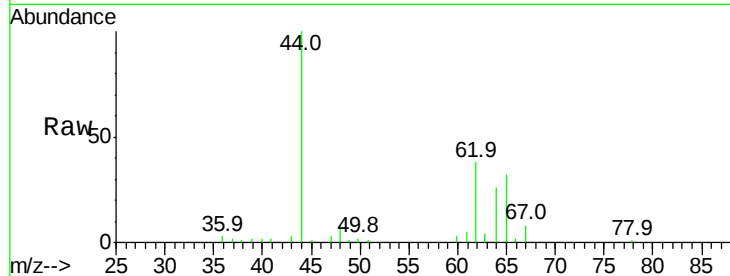
VSTD2.561

Tgt Ion: 62 Resp: 3934

Ion Ratio Lower Upper

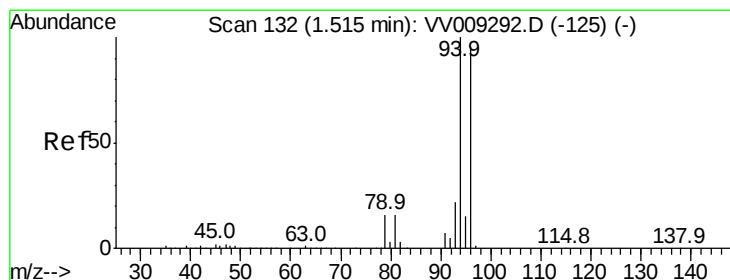
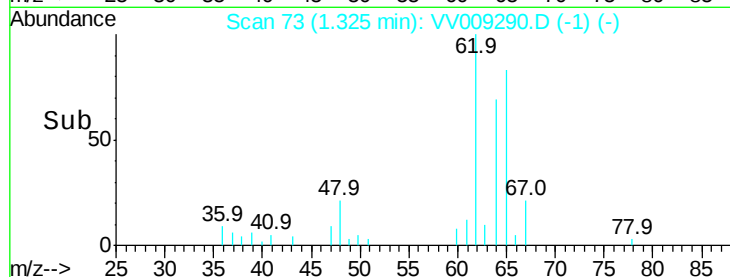
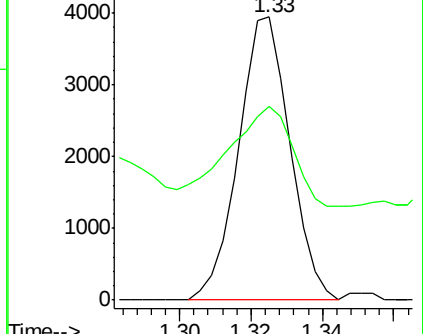
62 100

64 68.5 24.2 45.0#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.235 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.01 min

Lab File: VV009290.D

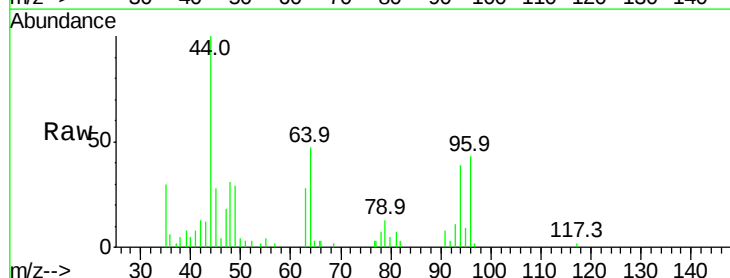
Acq: 13 Feb 2019 12:58

Tgt Ion: 94 Resp: 2028

Ion Ratio Lower Upper

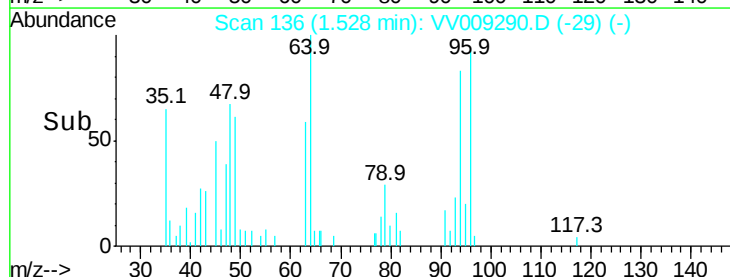
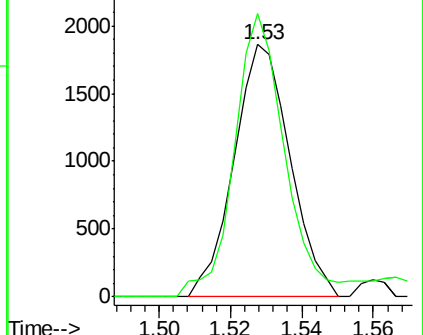
94 100

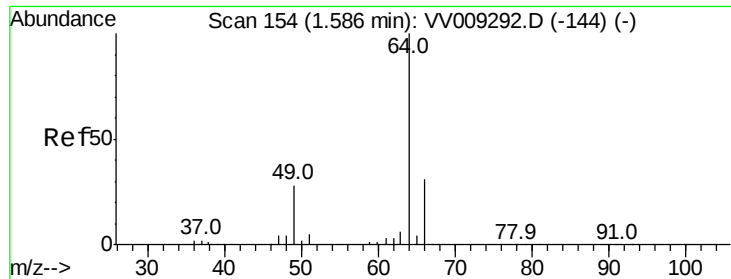
96 99.9 9.6 182.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

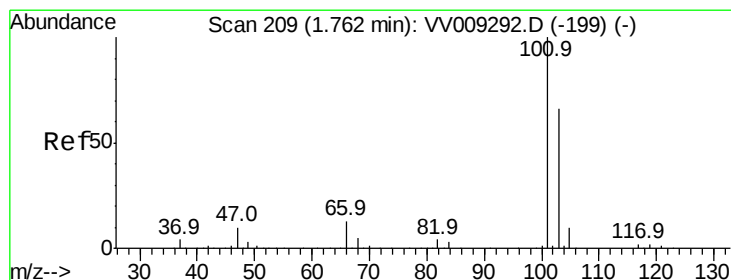
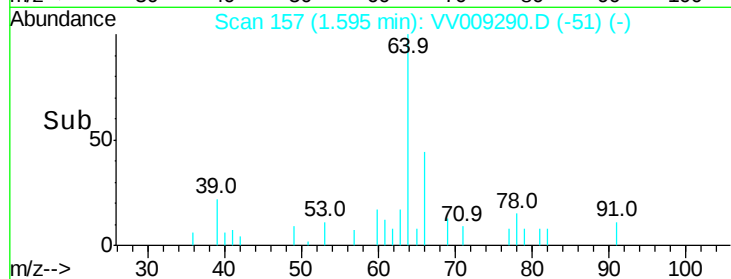
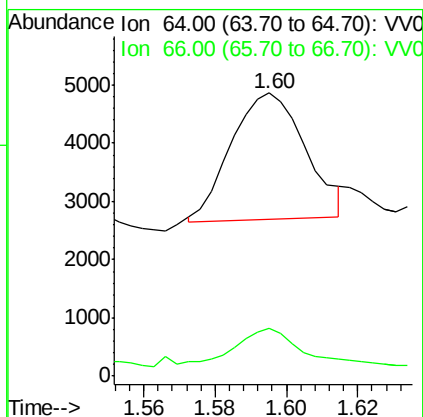
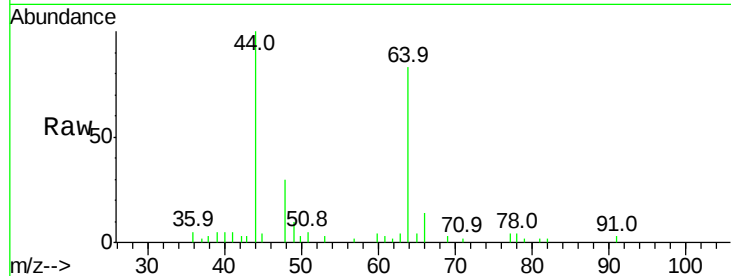




#8
Chloroethane
Concen: 3.067 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.01 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

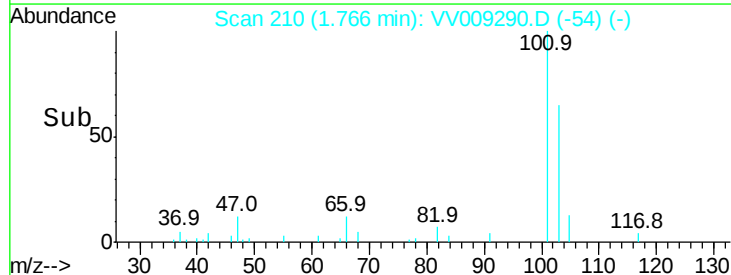
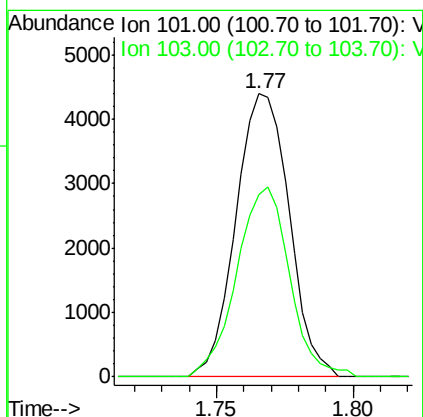
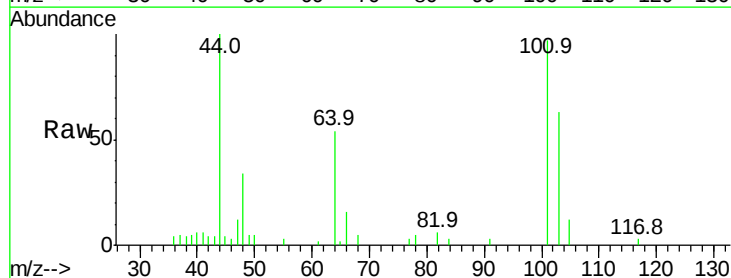
Instrument :
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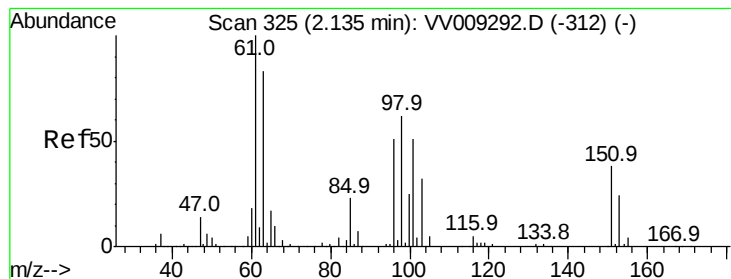
Tgt Ion: 64 Resp: 3119
Ion Ratio Lower Upper
64 100
66 16.8 21.1 39.3#



#9
Trichlorofluoromethane
Concen: 2.264 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

Tgt Ion: 101 Resp: 5965
Ion Ratio Lower Upper
101 100
103 66.4 45.8 85.2





#11

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

Concen: 2.106 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.561

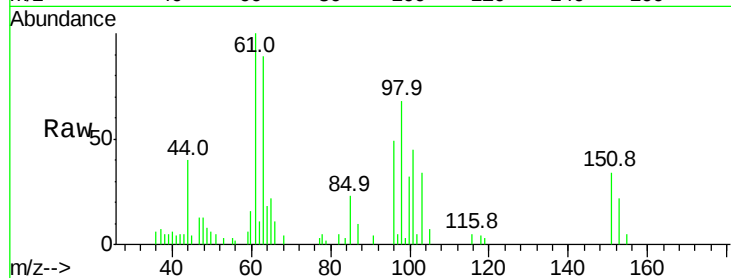
Tgt Ion: 101 Resp: 3200

Ion Ratio Lower Upper

101 100

85 50.8 36.2 54.2

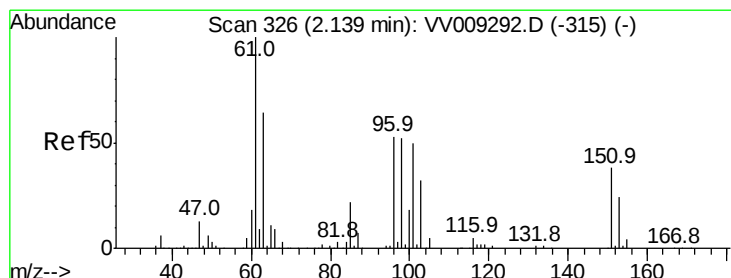
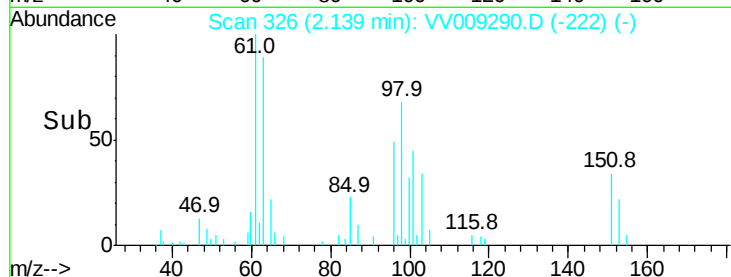
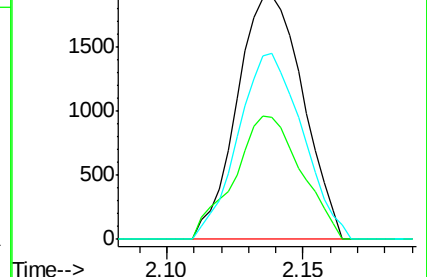
151 74.5 59.9 89.9



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: 2.234 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

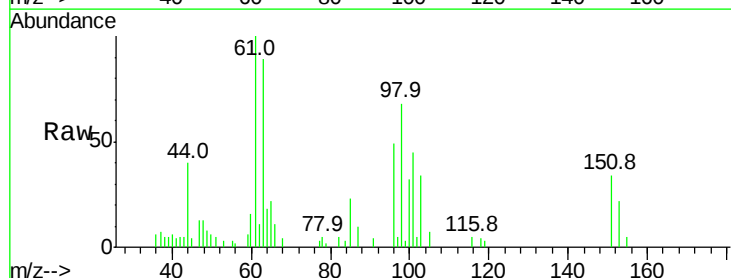
Tgt Ion: 96 Resp: 3097

Ion Ratio Lower Upper

96 100

61 203.1 131.8 244.8

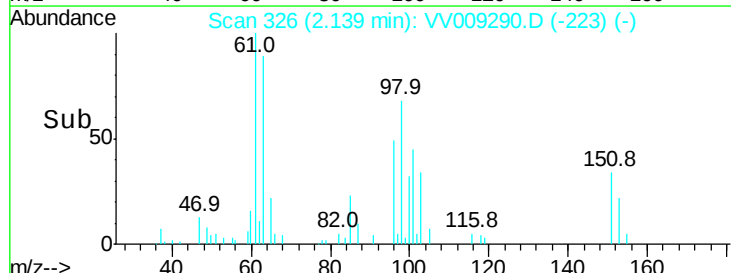
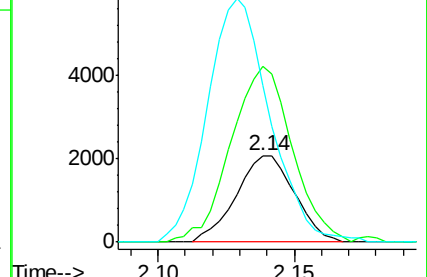
63 180.2 88.8 165.0#

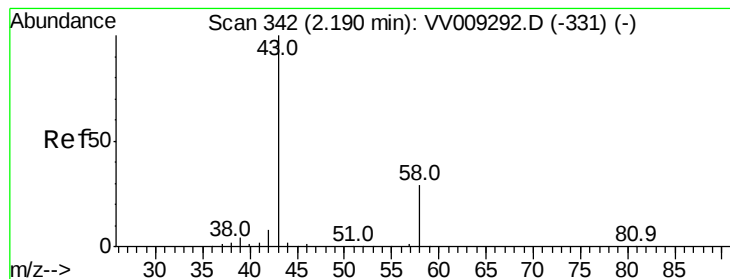


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 5.498 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.01 min

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Acq: 13 Feb 2019 12:58

Instrument :

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ClientSampleId :

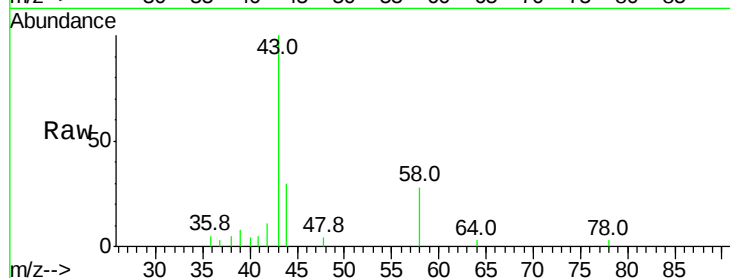
VSTD2.561

Tgt Ion: 43 Resp: 5693

Ion Ratio Lower Upper

43 100

58 29.6 0.0 57.2



Abundance Ion 43.00 (42.70 to 43.70): VV009290.D (-345) (-)

Ion 58.00 (57.70 to 58.70): VV009290.D (-345) (-)

2.20

4000

3000

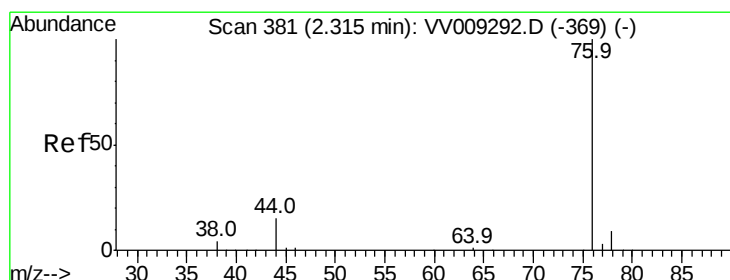
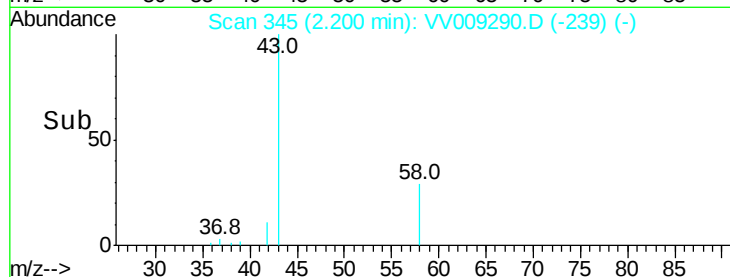
2000

1000

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 2.147 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009290.D

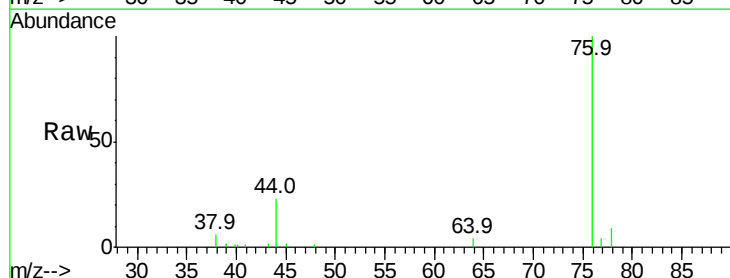
Acq: 13 Feb 2019 12:58

Tgt Ion: 76 Resp: 11395

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009290.D (-381) (-)

Ion 78.00 (77.70 to 78.70): VV009290.D (-381) (-)

2.32

8000

6000

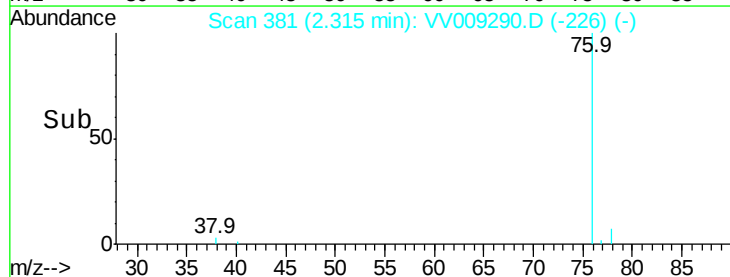
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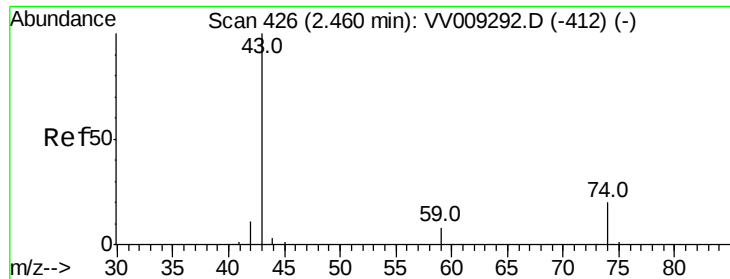
2000

0

Time-->

2.30 2.35





#15

Methyl Acetate

Concen: 2.829 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.01 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

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ClientSampleId :

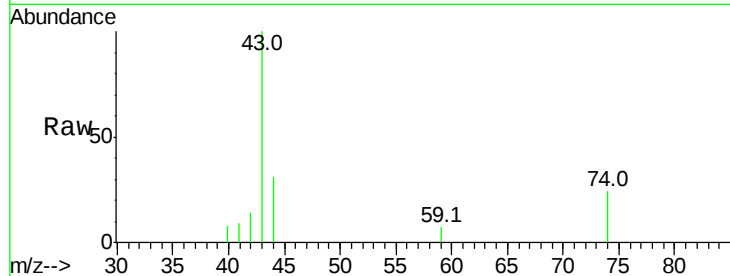
VSTD2.561

Tgt Ion: 43 Resp: 3551

Ion Ratio Lower Upper

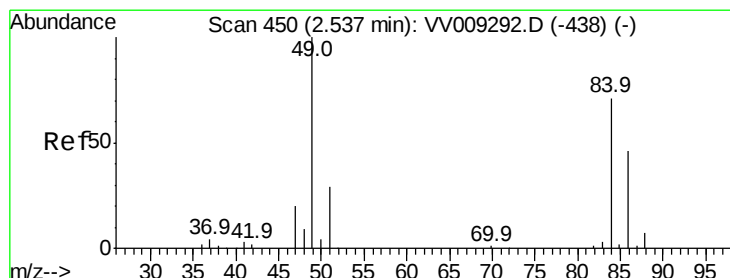
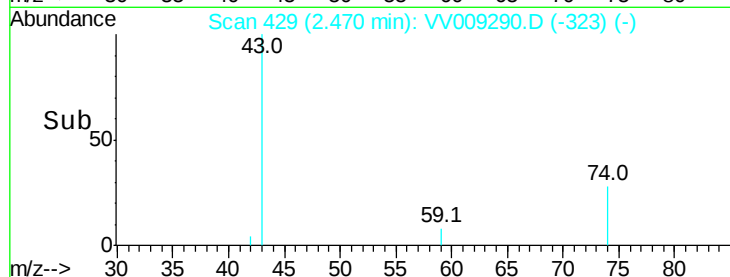
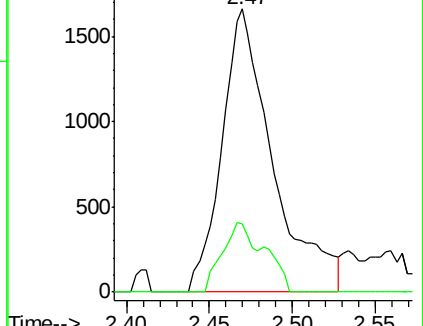
43 100

74 14.9 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VV009290.D (-412) (-)

Ion 74.00 (73.70 to 74.70): VV009290.D (-412) (-)



#16

Methylene chloride

Concen: 3.869 ug/L

RT: 2.54 min Scan# 450

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

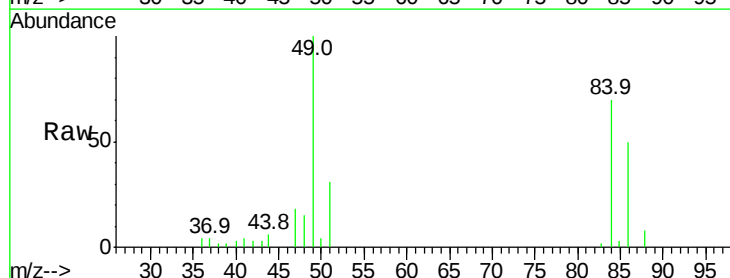
Tgt Ion: 84 Resp: 7745

Ion Ratio Lower Upper

84 100

49 142.9 98.4 182.8

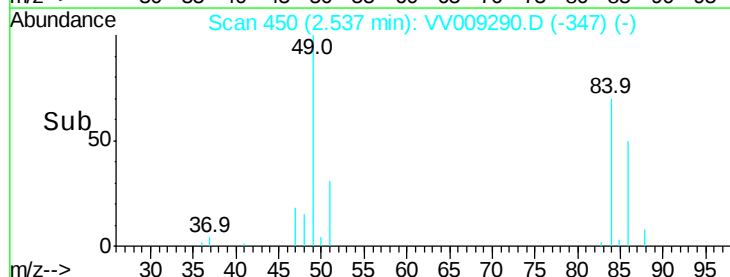
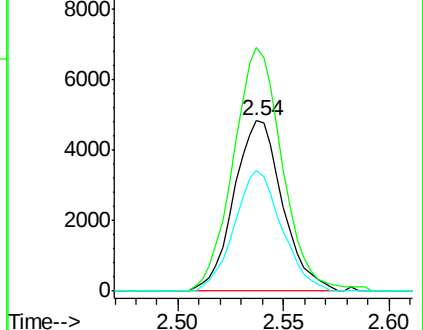
86 70.8 45.1 83.7

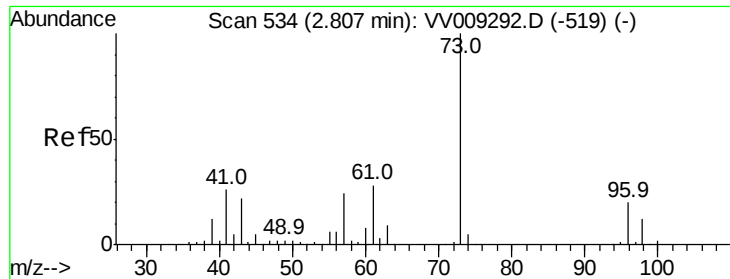


Abundance Ion 84.00 (83.70 to 84.70): VV009290.D (-438) (-)

Ion 49.00 (48.70 to 49.70): VV009290.D (-438) (-)

Ion 86.00 (85.70 to 86.70): VV009290.D (-438) (-)

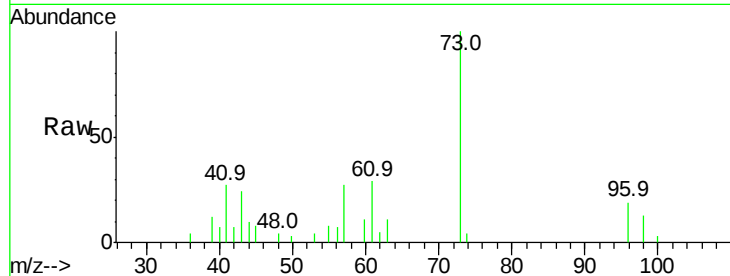




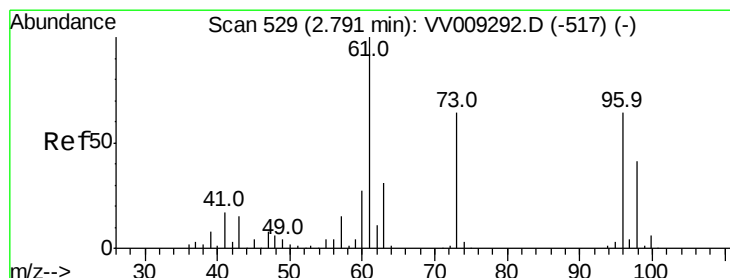
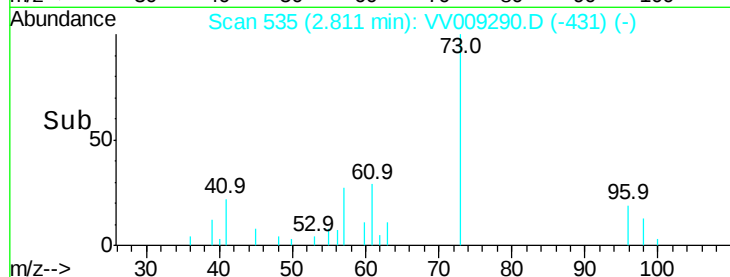
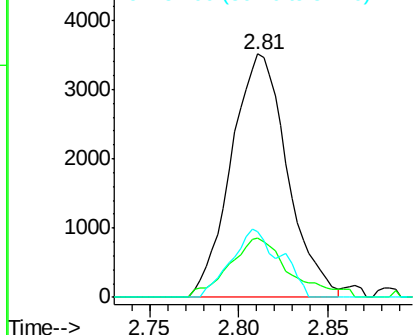
#17
Methyl tert-butyl Ether
Concen: 2.058 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.561

Tgt Ion: 73 Resp: 7701
Ion Ratio Lower Upper
73 100
43 25.8 18.2 27.4
57 19.0 19.0 28.4

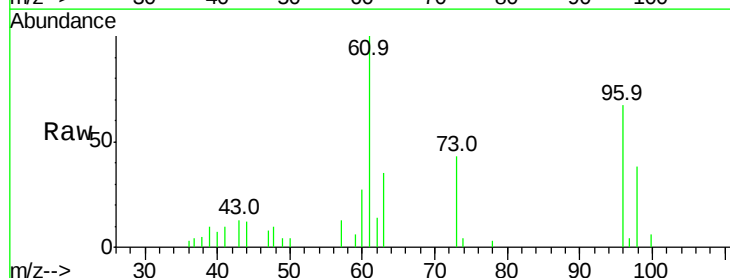


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

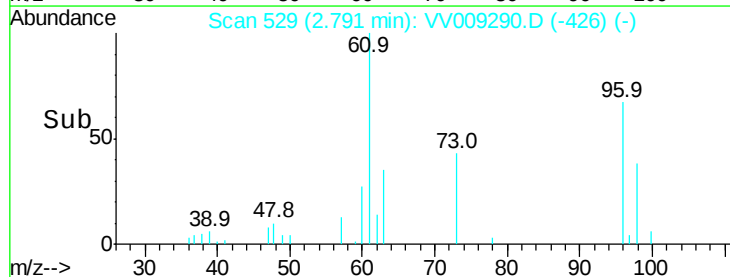
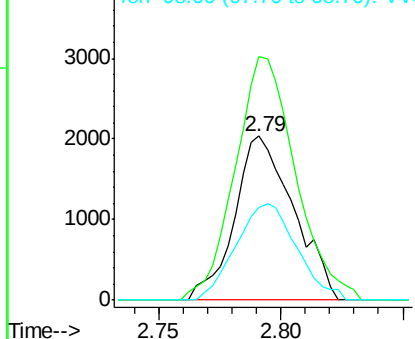


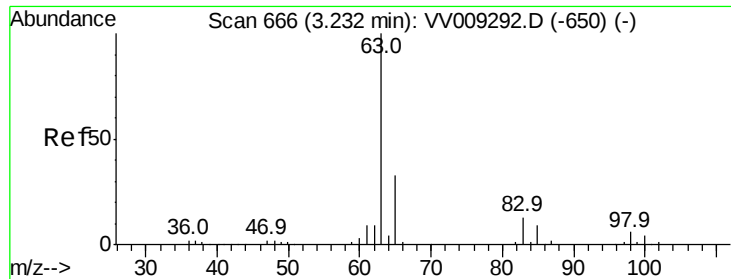
#18
trans-1,2-Dichloroethene
Concen: 2.160 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

Tgt Ion: 96 Resp: 3407
Ion Ratio Lower Upper
96 100
61 148.4 109.0 202.4
98 56.8 44.3 82.3



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

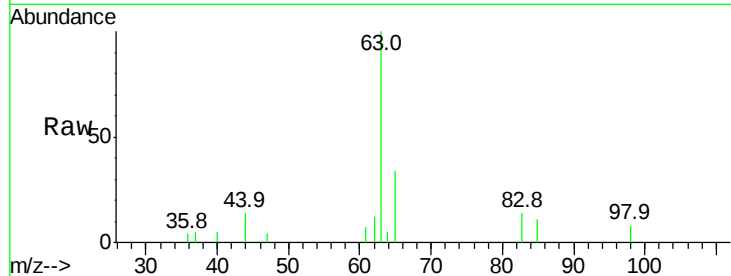




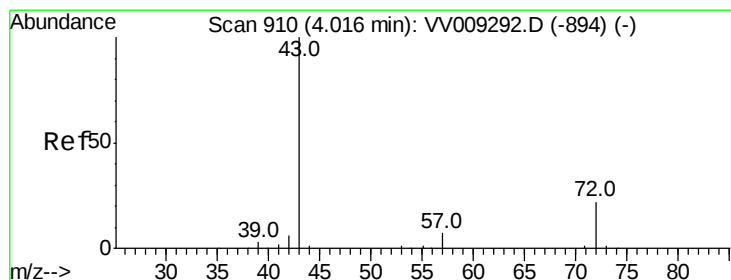
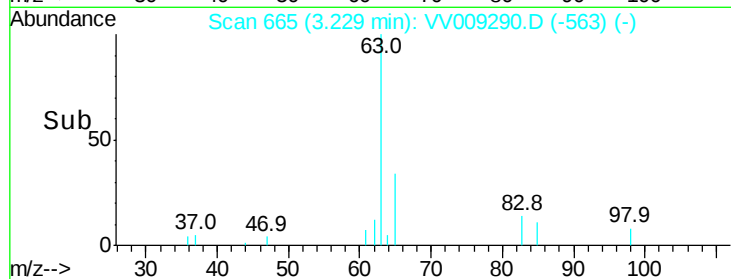
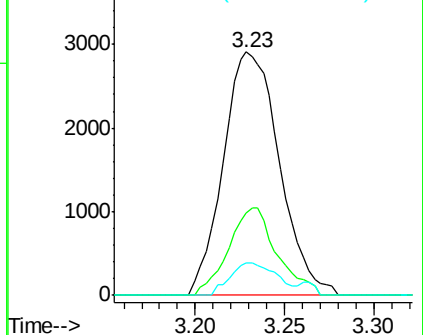
#19
 1,1-Dichloroethane
 Concen: 2.126 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.561

Tgt Ion: 63 Resp: 6381
 Ion Ratio Lower Upper
 63 100
 65 33.8 23.3 43.3
 83 13.5 9.1 16.9

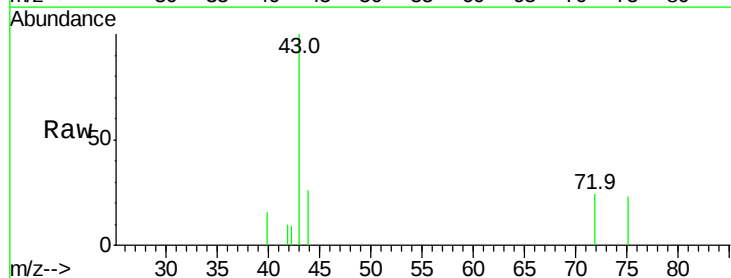


Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

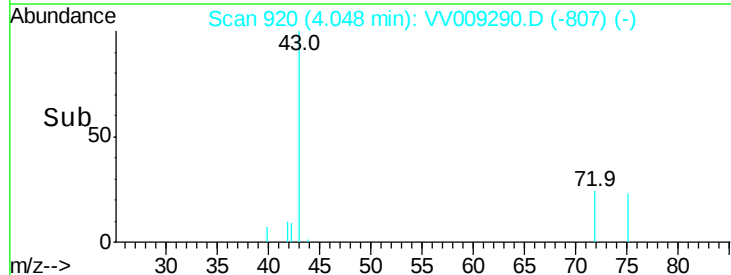
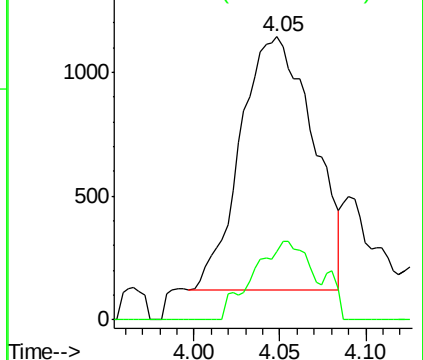


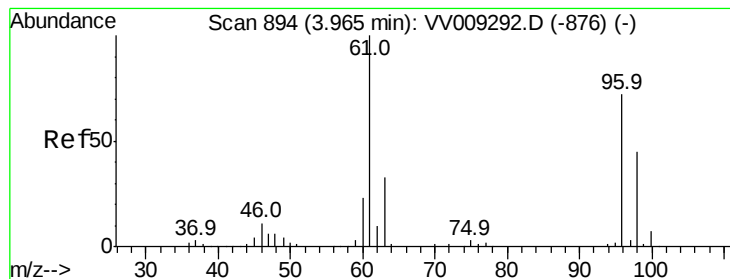
#21
 2-Butanone
 Concen: 2.872 ug/L
 RT: 4.05 min Scan# 920
 Delta R.T. 0.03 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

Tgt Ion: 43 Resp: 3016
 Ion Ratio Lower Upper
 43 100
 72 14.5 11.3 33.8



Abundance Ion 43.00 (42.70 to 43.70): VV0
 Ion 72.00 (71.70 to 72.70): VV0



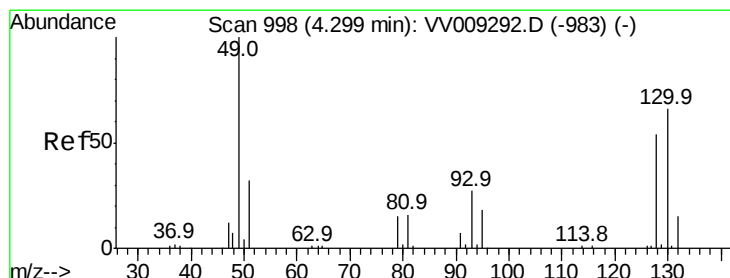
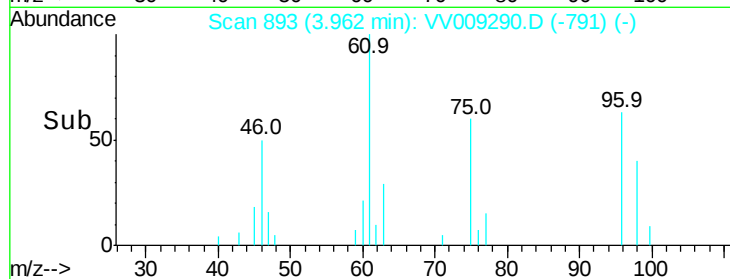
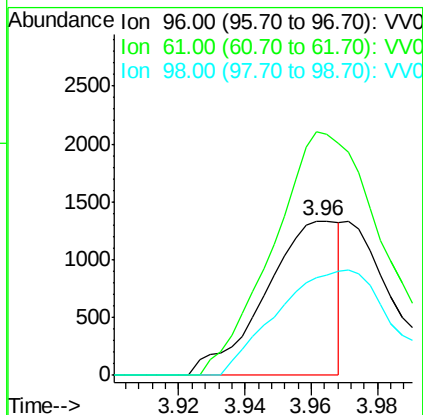
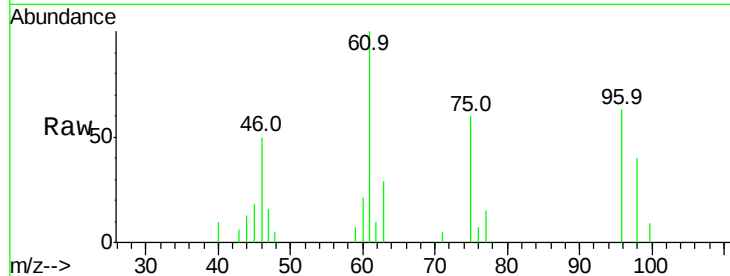


#22

cis-1,2-Dichloroethene
Concen: 1.270 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.561

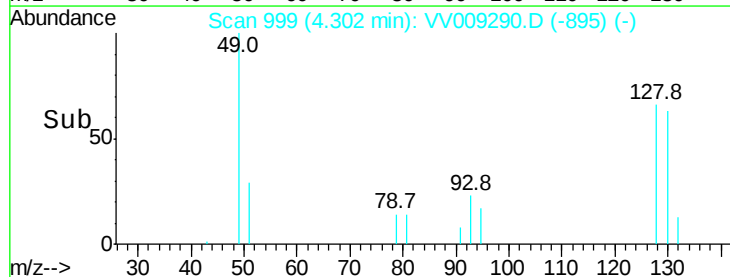
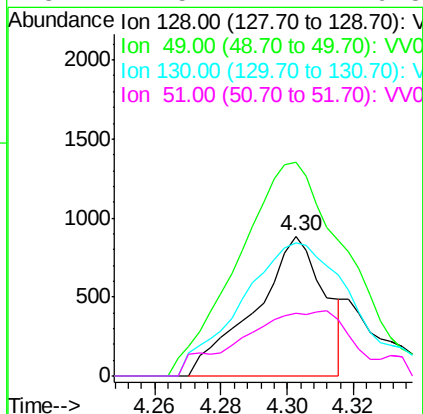
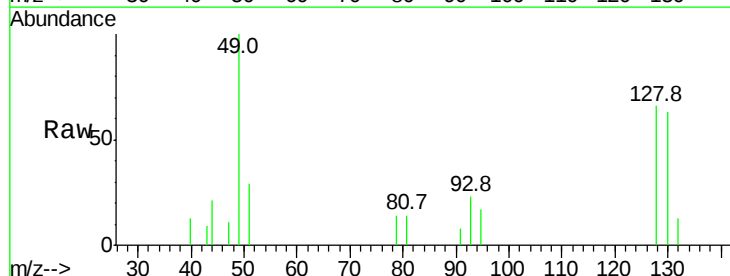
Tgt Ion: 96 Resp: 2057
Ion Ratio Lower Upper
96 100
61 157.6 96.9 179.9
98 62.8 44.0 81.8

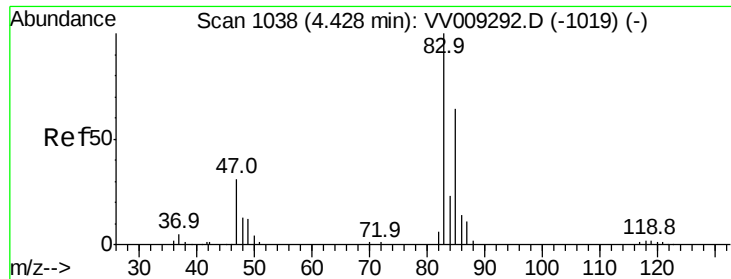


#23

Bromochloromethane
Concen: 1.776 ug/L
RT: 4.30 min Scan# 999
Delta R.T. 0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

Tgt Ion: 128 Resp: 1291
Ion Ratio Lower Upper
128 100
49 152.6 130.6 242.6
130 95.4 85.9 159.5
51 44.5 47.2 70.8#

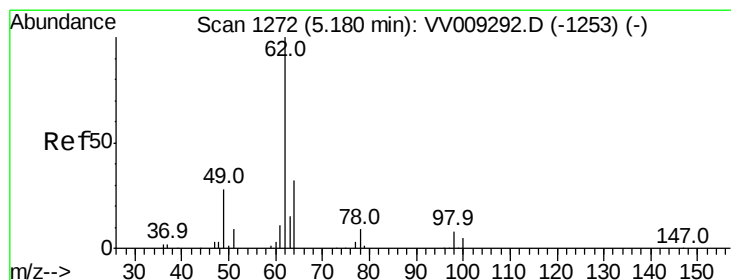
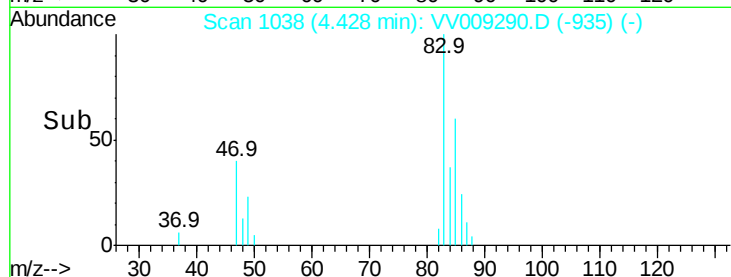
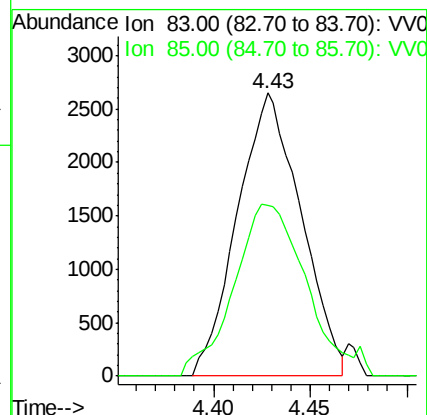
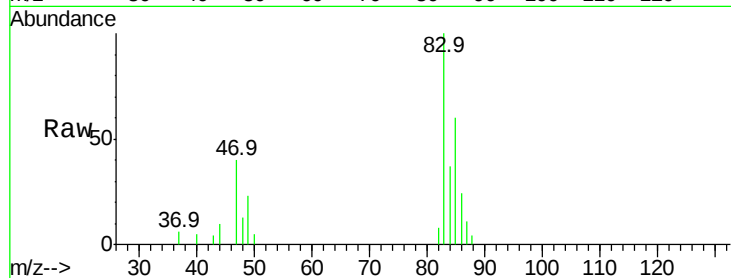




#25
Chloroform
Concen: 2.045 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

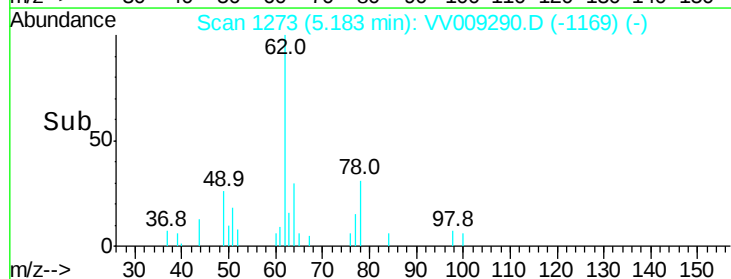
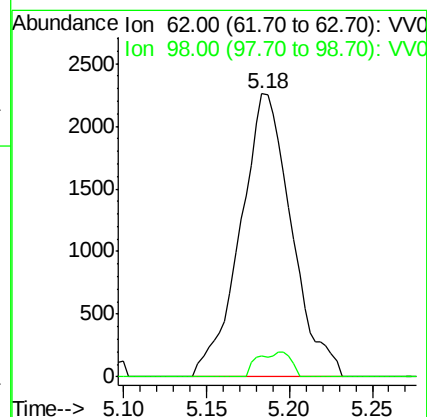
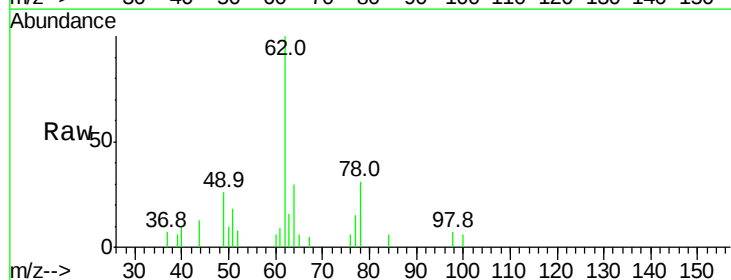
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.561

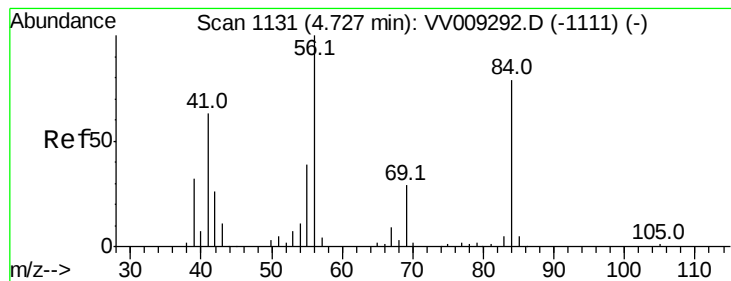
Tgt Ion: 83 Resp: 6070
Ion Ratio Lower Upper
83 100
85 68.0 45.6 84.6



#27
1,2-Dichloroethane
Concen: 2.273 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

Tgt Ion: 62 Resp: 4842
Ion Ratio Lower Upper
62 100
98 7.4 6.2 9.4





#30

Cyclohexane

Concen: 2.046 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.561

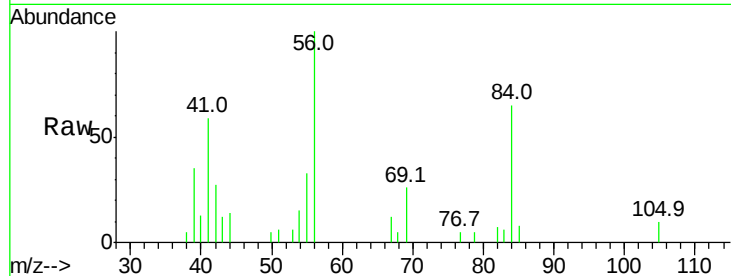
Tgt Ion: 56 Resp: 5692

Ion Ratio Lower Upper

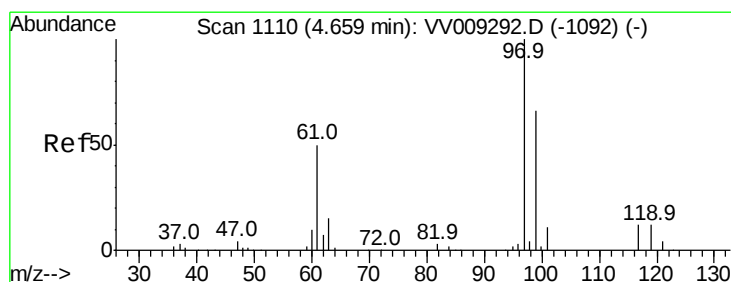
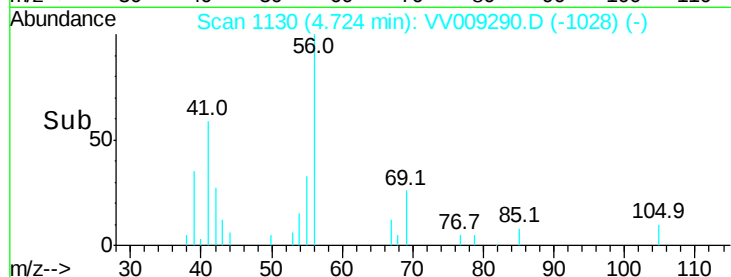
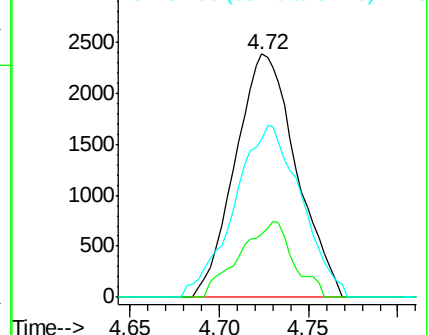
56 100

69 26.2 23.5 35.3

84 77.3 62.2 93.2



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



#31

1,1,1-Trichloroethane

Concen: 2.048 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

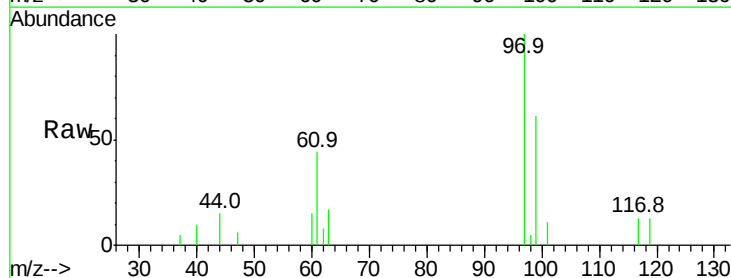
Tgt Ion: 97 Resp: 5226

Ion Ratio Lower Upper

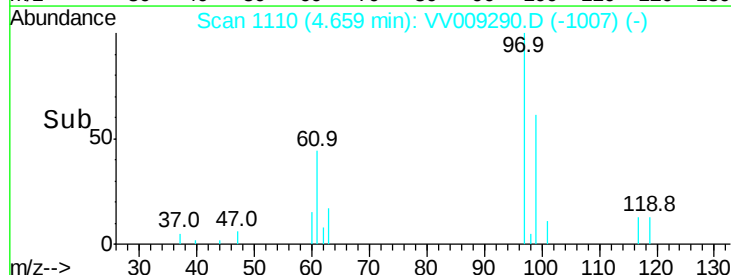
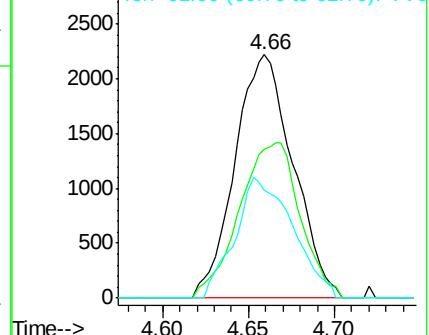
97 100

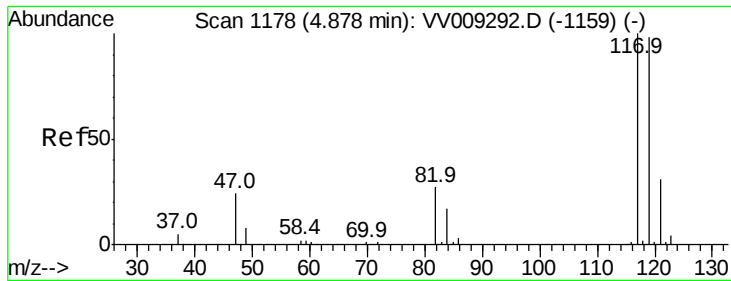
99 66.6 51.7 77.5

61 49.2 39.4 59.2



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: 2.039 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

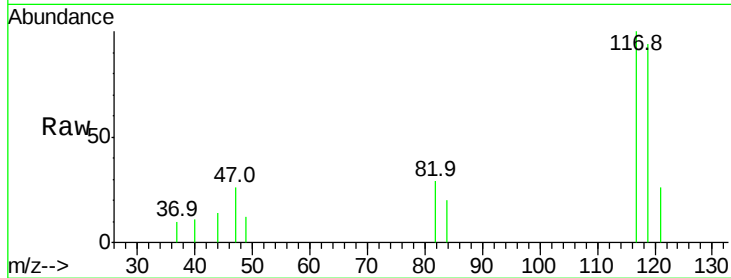
VSTD2.561

Tgt Ion:117 Resp: 4601

Ion Ratio Lower Upper

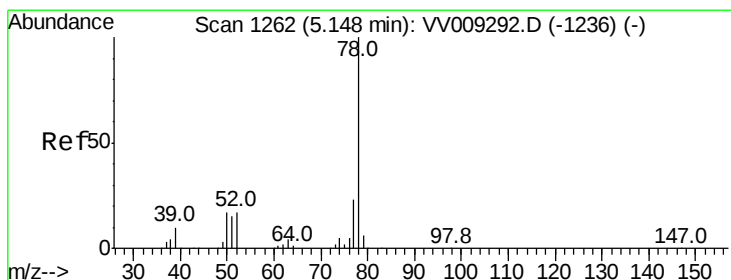
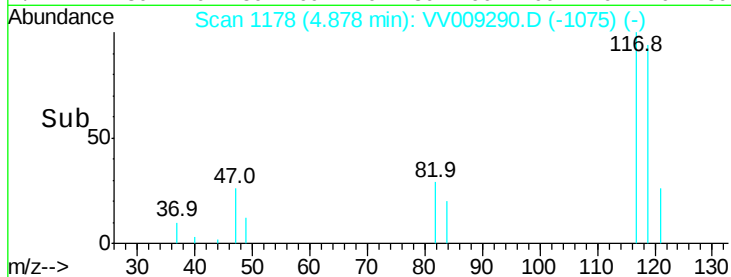
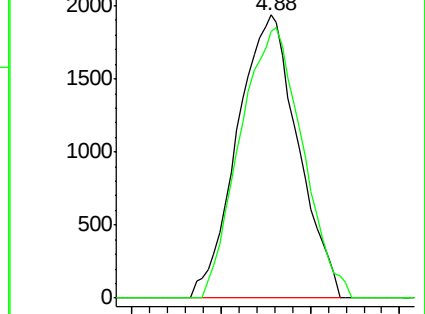
117 100

119 98.1 77.5 116.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 2.128 ug/L

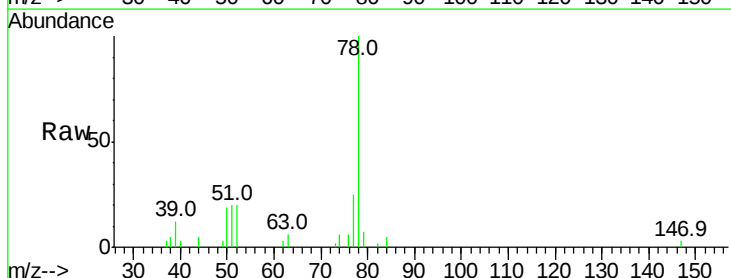
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

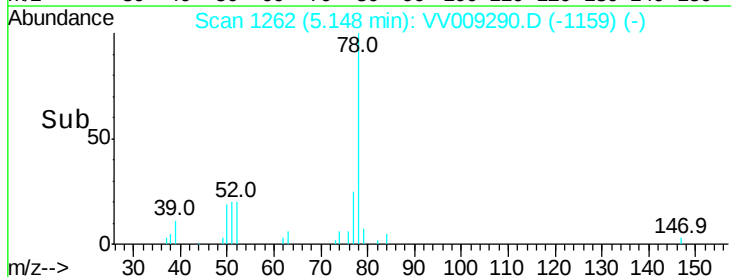
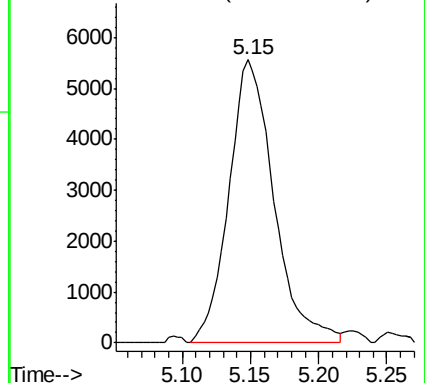
Lab File: VV009290.D

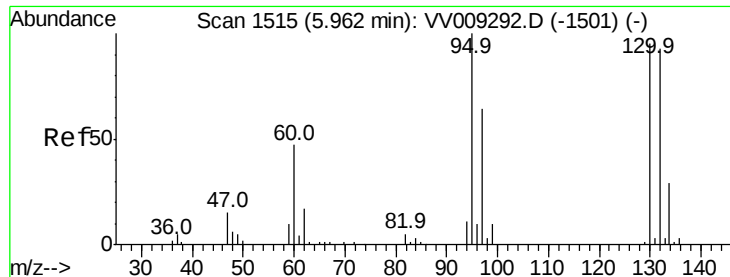
Acq: 13 Feb 2019 12:58

Tgt Ion: 78 Resp: 12810



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 2.090 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.561

Tgt Ion: 95 Resp: 3412

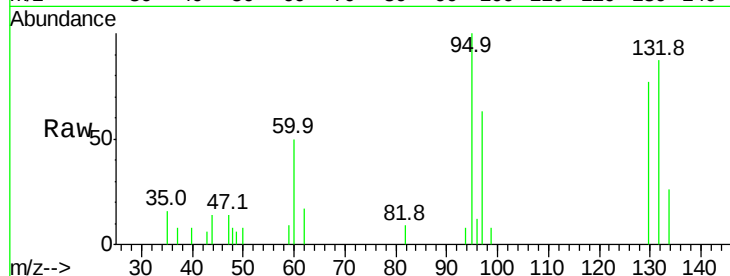
Ion Ratio Lower Upper

95 100

97 71.5 44.4 82.5

132 99.5 65.9 122.5

130 89.9 65.8 122.2

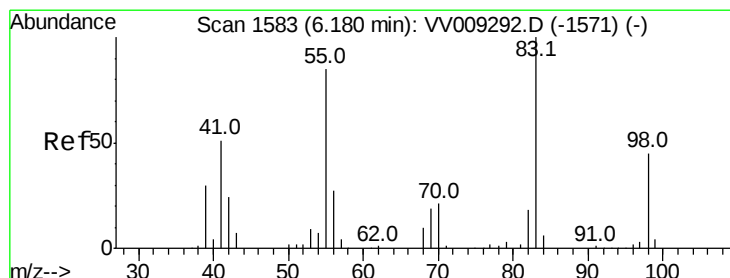
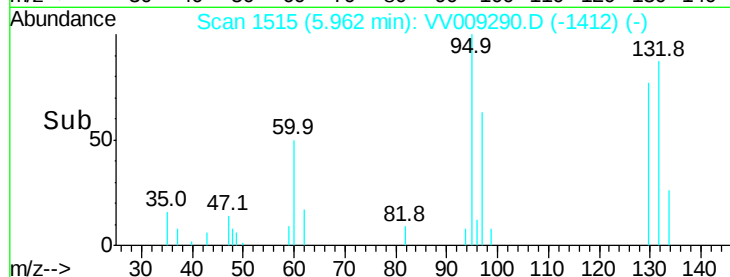
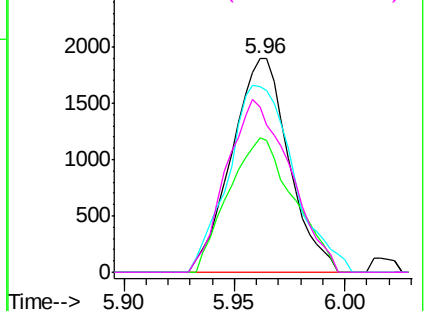


Abundance Ion 95.00 (94.70 to 95.70): VV009292.D (-1501) (-)

Ion 97.00 (96.70 to 97.70): VV009292.D (-1501) (-)

Ion 132.00 (131.70 to 132.70): VV009292.D (-1501) (-)

Ion 130.00 (129.70 to 130.70): VV009292.D (-1501) (-)



#36

Methylcyclohexane

Concen: 1.873 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.01 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

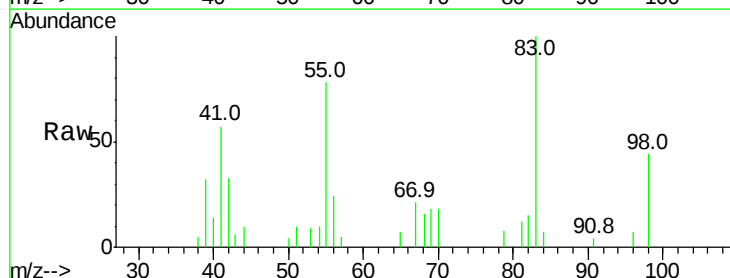
Tgt Ion: 83 Resp: 5108

Ion Ratio Lower Upper

83 100

55 90.4 70.6 105.8

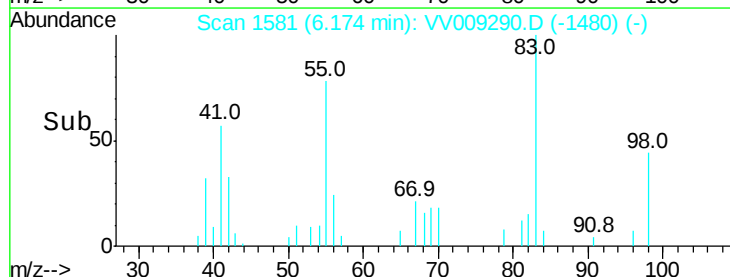
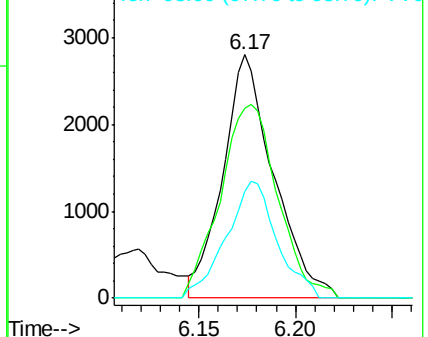
98 47.9 36.7 55.1

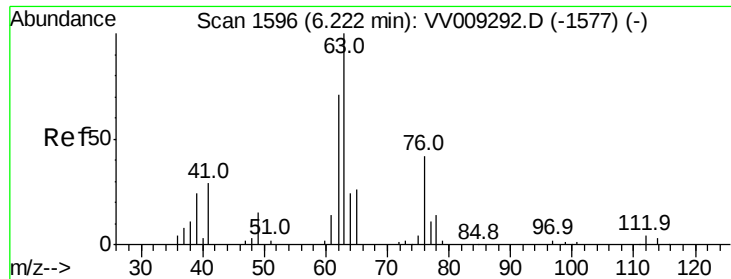


Abundance Ion 83.00 (82.70 to 83.70): VV009292.D (-1571) (-)

Ion 55.00 (54.70 to 55.70): VV009292.D (-1571) (-)

Ion 98.00 (97.70 to 98.70): VV009292.D (-1571) (-)





#40

1,2-Dichloropropane

Concen: 1.964 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

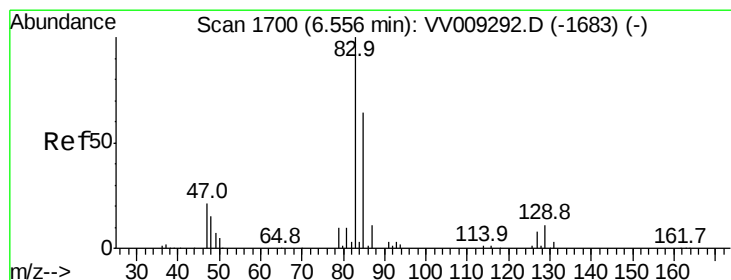
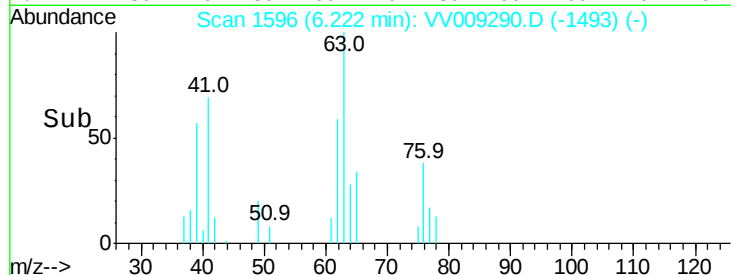
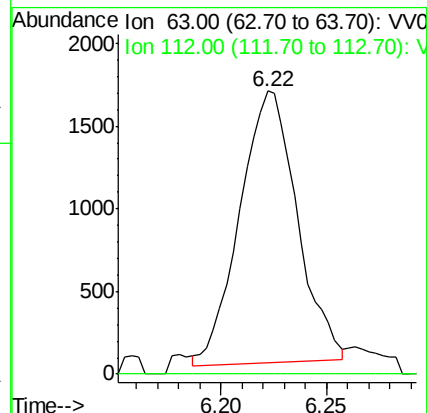
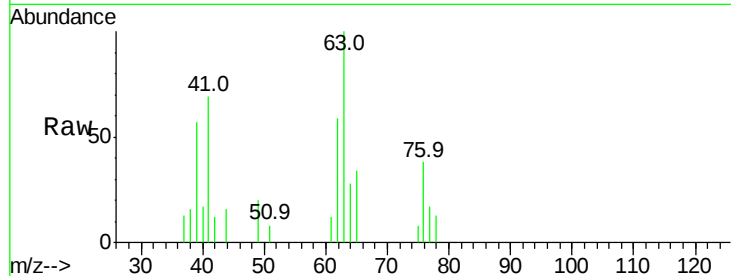
VSTD2.561

Tgt Ion: 63 Resp: 3114

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.4#



#41

Bromodichloromethane

Concen: 2.081 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

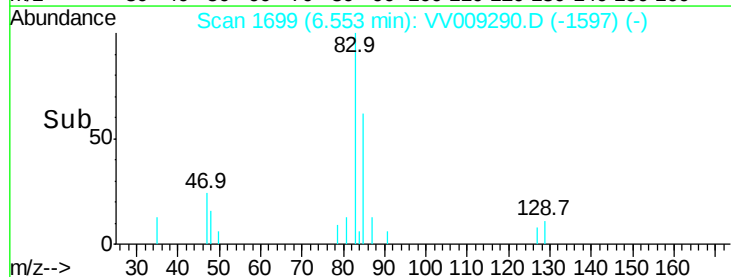
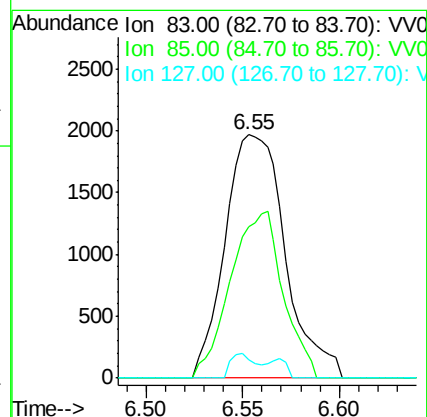
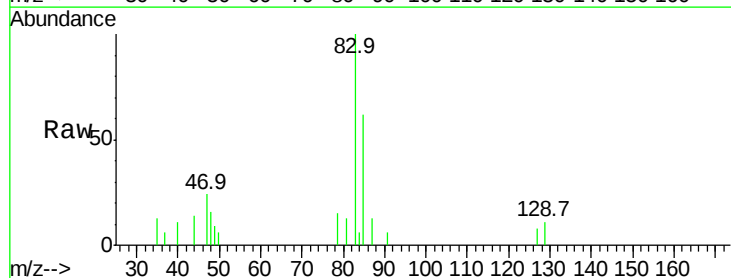
Tgt Ion: 83 Resp: 4264

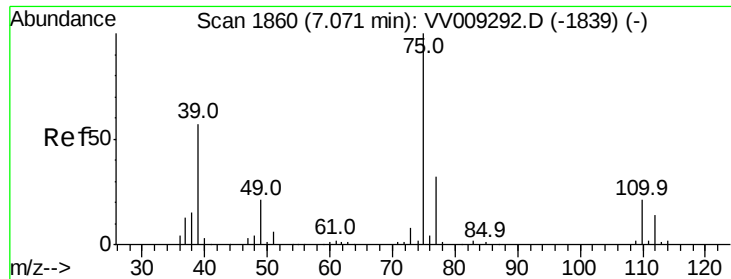
Ion Ratio Lower Upper

83 100

85 62.4 45.0 83.6

127 7.7 6.4 9.6



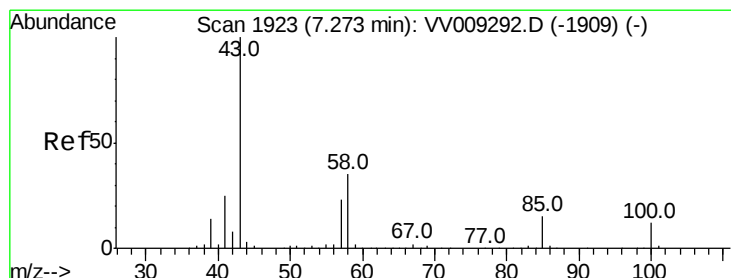
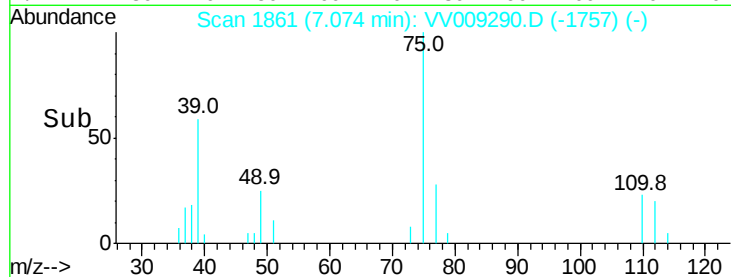
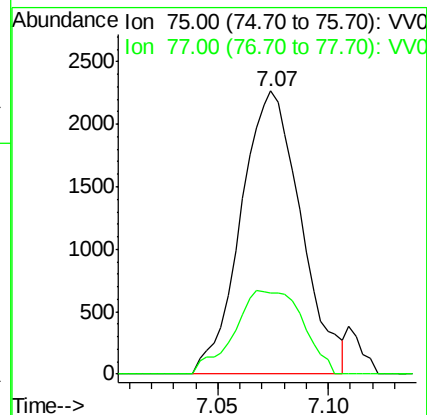
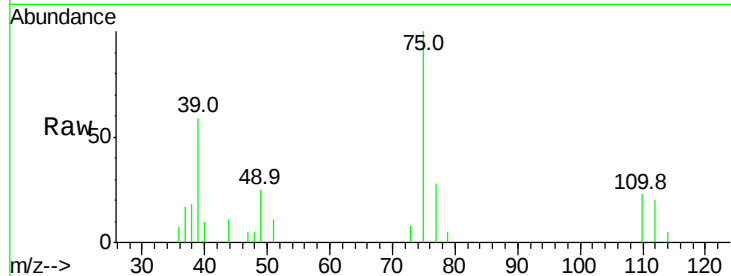


#42

cis-1,3-Dichloropropene
 Concen: 1.845 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.561

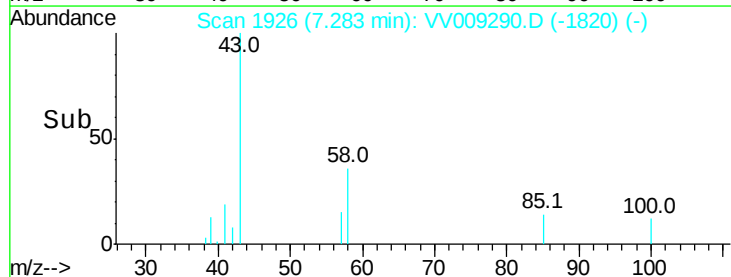
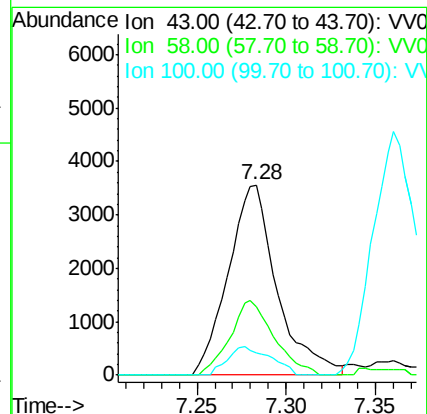
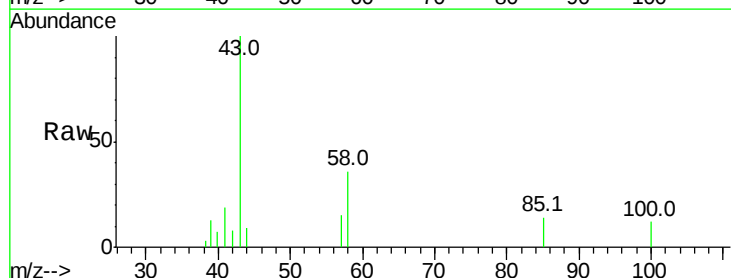
Tgt Ion: 75 Resp: 4270
 Ion Ratio Lower Upper
 75 100
 77 28.5 22.2 41.2

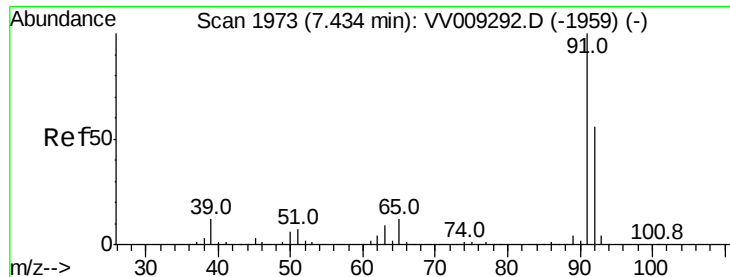


#43

4-Methyl-2-pentanone
 Concen: 4.470 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.01 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

Tgt Ion: 43 Resp: 6778
 Ion Ratio Lower Upper
 43 100
 58 35.3 28.4 42.6
 100 13.1 9.6 14.4





#44

Toluene

Concen: 1.965 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

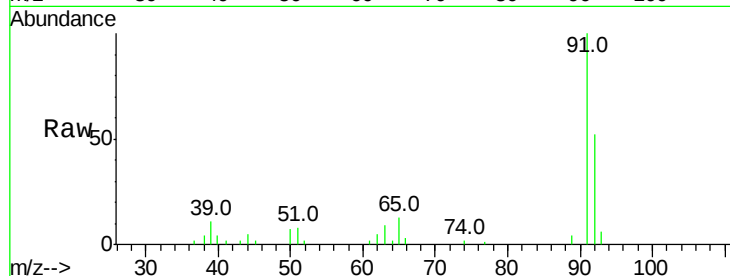
VSTD2.561

Tgt Ion: 91 Resp: 12412

Ion Ratio Lower Upper

91 100

92 51.7 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VV009292.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009292.D (-1959) (-)

7.43

6000

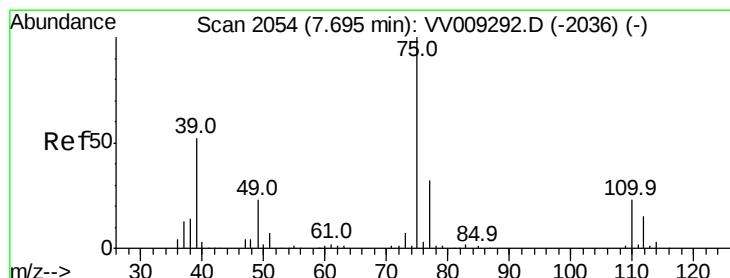
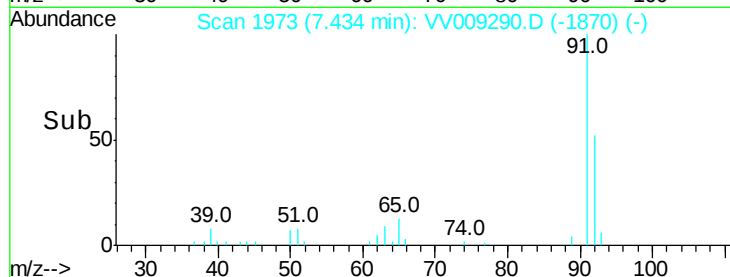
4000

2000

0

7.40 7.45 7.50

Time-->



#45

trans-1,3-Dichloropropene

Concen: 1.674 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009290.D

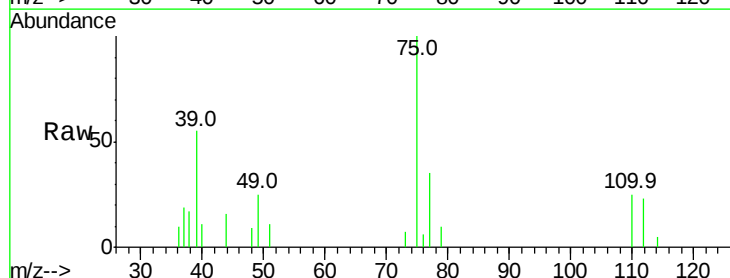
Acq: 13 Feb 2019 12:58

Tgt Ion: 75 Resp: 3454

Ion Ratio Lower Upper

75 100

77 35.2 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VV009292.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV009292.D (-2036) (-)

7.69

2000

1500

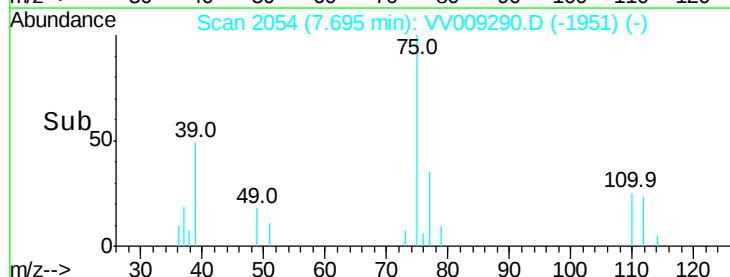
1000

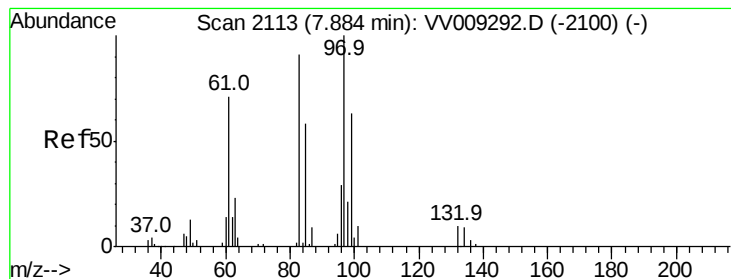
500

0

7.65 7.70 7.75

Time-->





#46

1,1,2-Trichloroethane

Concen: 2.280 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.561

Tgt Ion: 97 Resp: 2751

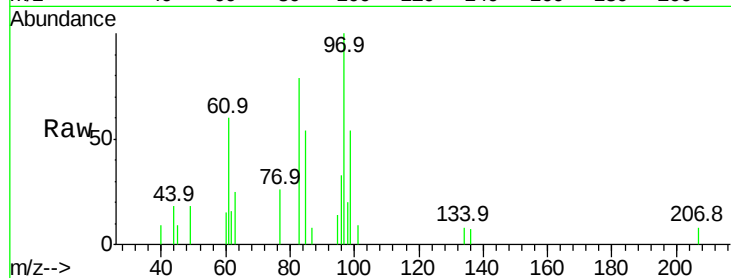
Ion Ratio Lower Upper

97 100

83 78.7 63.4 117.8

85 53.8 40.7 75.7

99 53.6 43.8 81.4



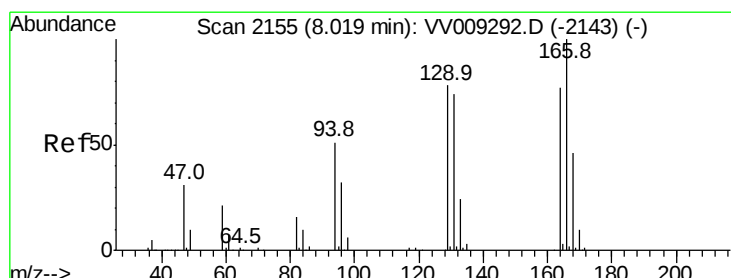
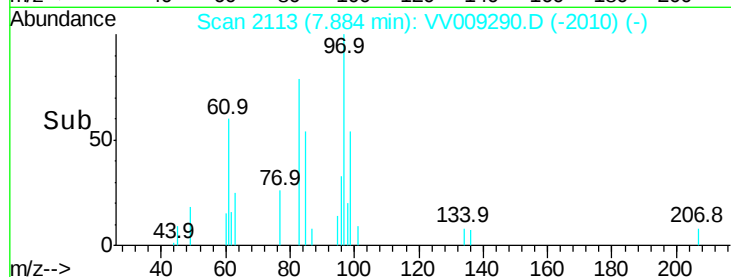
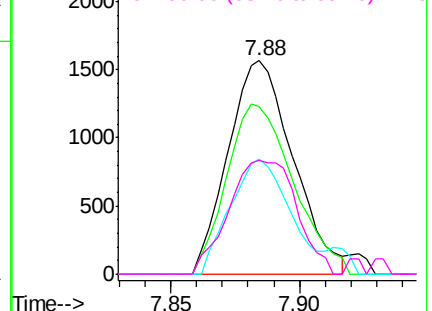
Abundance

Ion 97.00 (96.70 to 97.70): VV009292.D (-2100) (-)

Ion 83.00 (82.70 to 83.70): VV009292.D (-2100) (-)

Ion 85.00 (84.70 to 85.70): VV009292.D (-2100) (-)

Ion 99.00 (98.70 to 99.70): VV009292.D (-2100) (-)



#47

Tetrachloroethene

Concen: 2.366 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Tgt Ion: 164 Resp: 2911

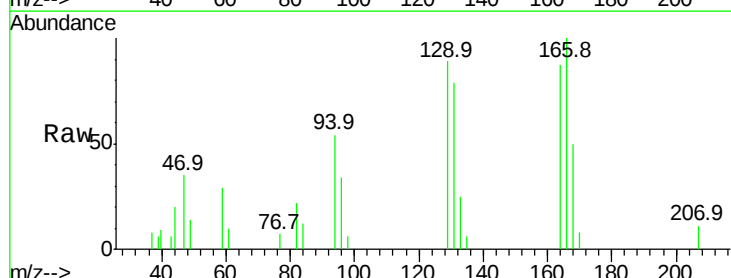
Ion Ratio Lower Upper

164 100

129 101.4 71.1 132.1

131 89.8 67.4 125.2

166 114.3 91.4 169.8



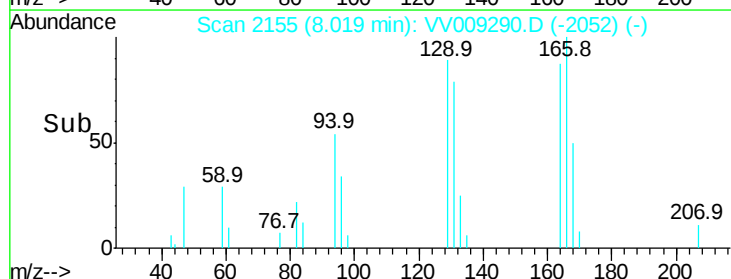
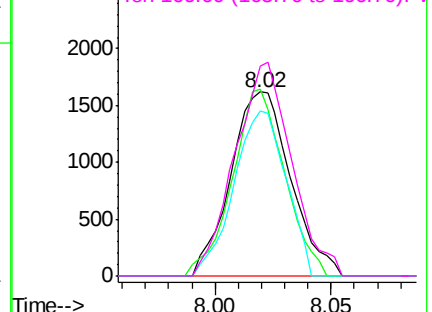
Abundance

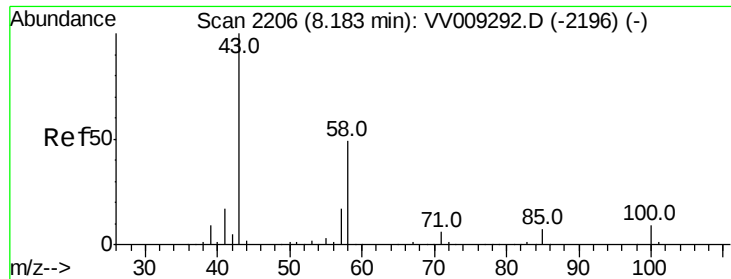
Ion 164.00 (163.70 to 164.70): VV009292.D (-2143) (-)

Ion 129.00 (128.70 to 129.70): VV009292.D (-2143) (-)

Ion 131.00 (130.70 to 131.70): VV009292.D (-2143) (-)

Ion 166.00 (165.70 to 166.70): VV009292.D (-2143) (-)

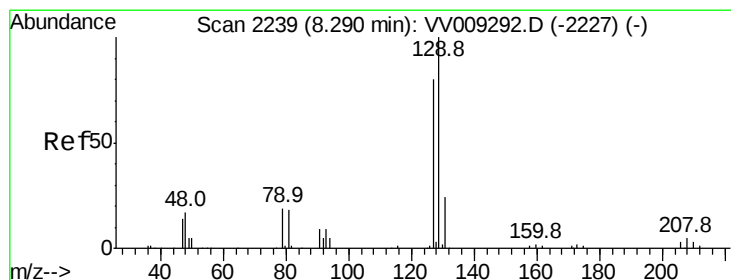
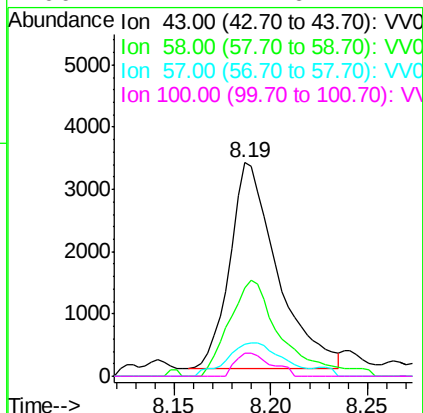
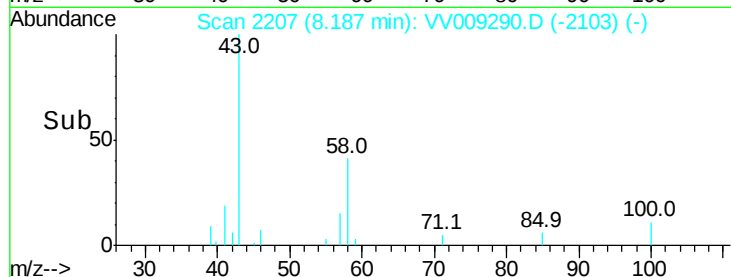
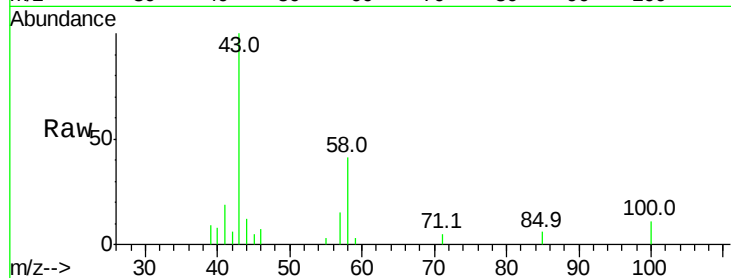




#49
2-Hexanone
Concen: 4.315 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

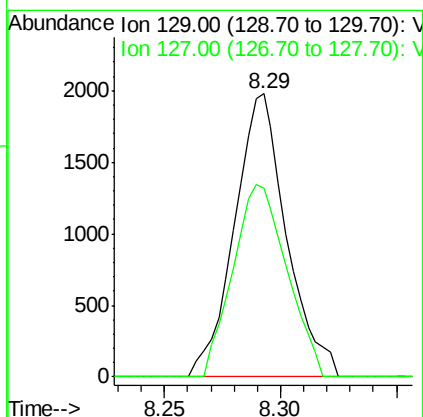
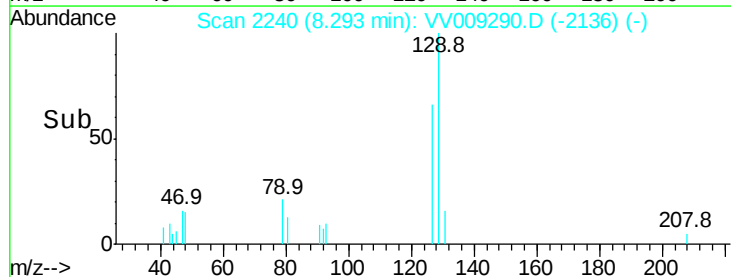
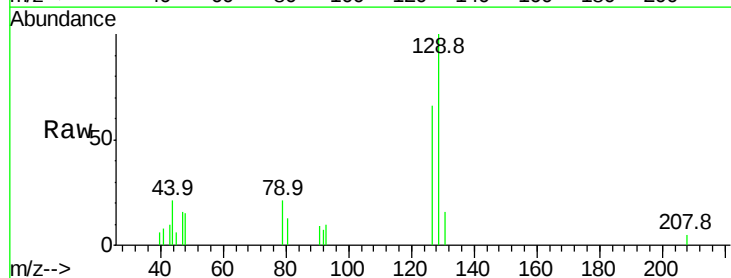
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.561

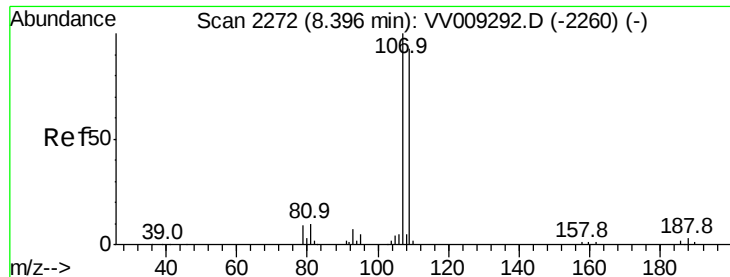
Tgt Ion: 43 Resp: 5611
Ion Ratio Lower Upper
43 100
58 51.5 40.6 61.0
57 11.2 14.1 21.1#
100 7.4 7.6 11.4#



#50
Dibromochloromethane
Concen: 2.223 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

Tgt Ion: 129 Resp: 3080
Ion Ratio Lower Upper
129 100
127 66.5 56.2 104.4





#51

1,2-Dibromoethane

Concen: 2.142 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.561

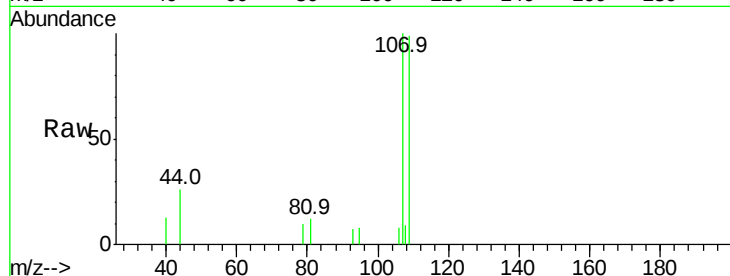
Tgt Ion:107 Resp: 2590

Ion Ratio Lower Upper

107 100

109 99.2 65.2 121.2

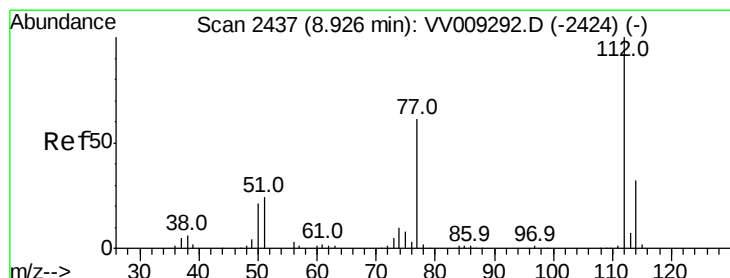
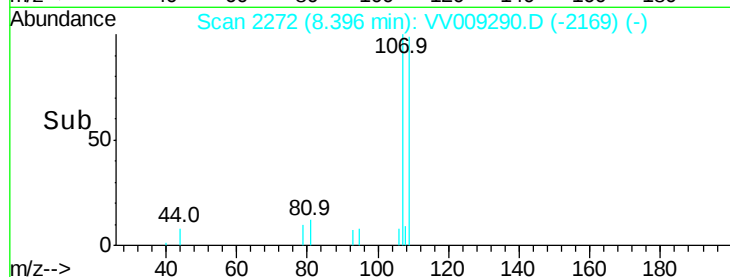
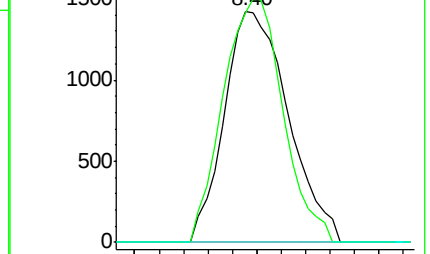
188 0.0 2.8 4.2#



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: 2.067 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

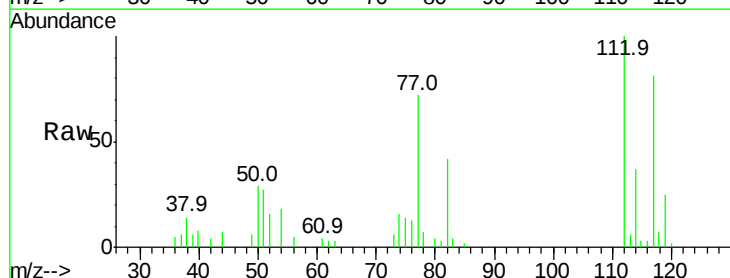
Tgt Ion:112 Resp: 8248

Ion Ratio Lower Upper

112 100

77 71.9 48.9 73.3

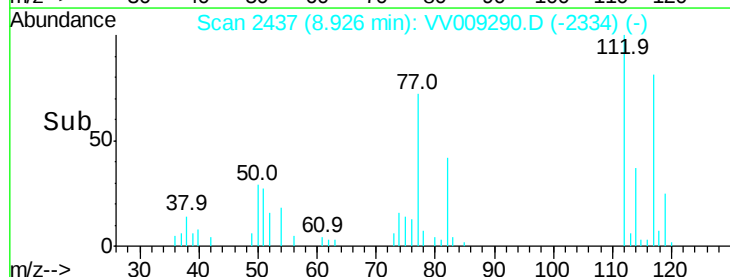
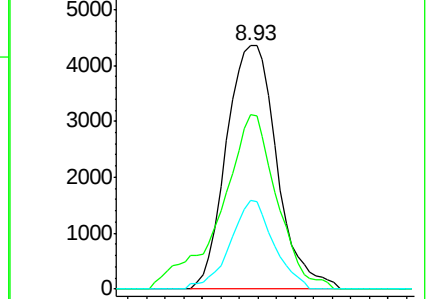
114 36.6 22.0 41.0

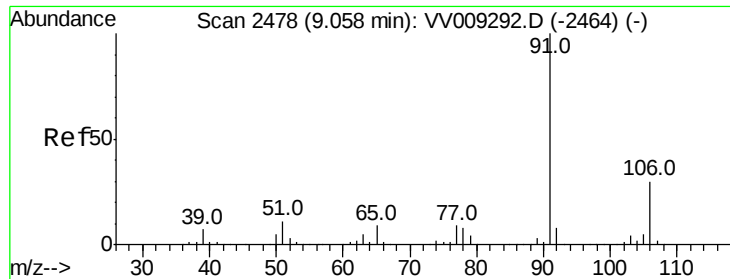


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V

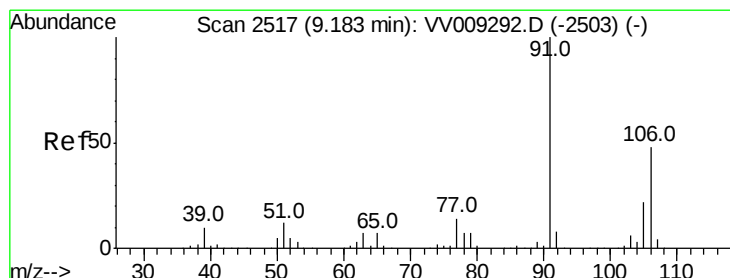
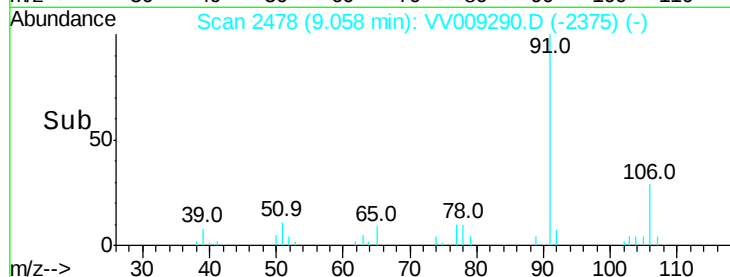
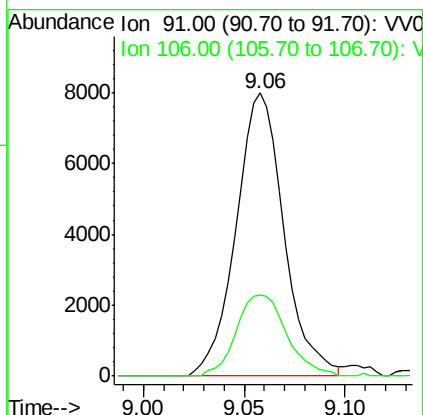
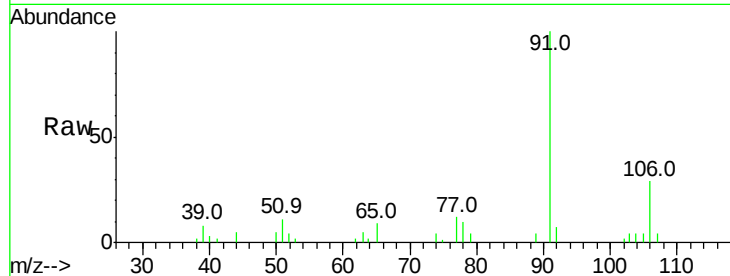




#53
Ethylbenzene
Concen: 1.896 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. -0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

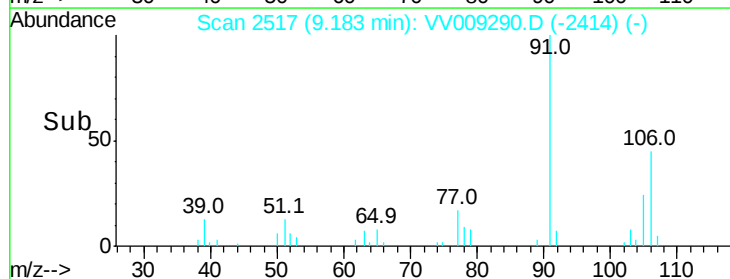
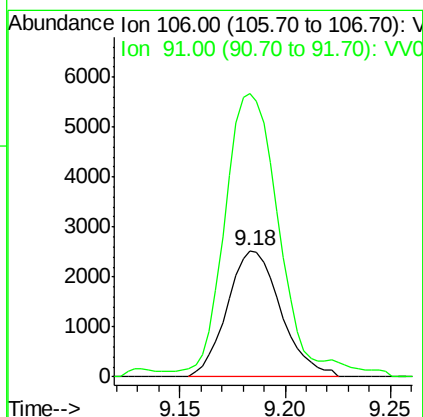
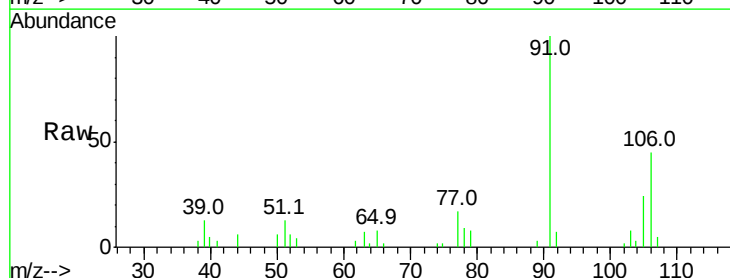
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.561

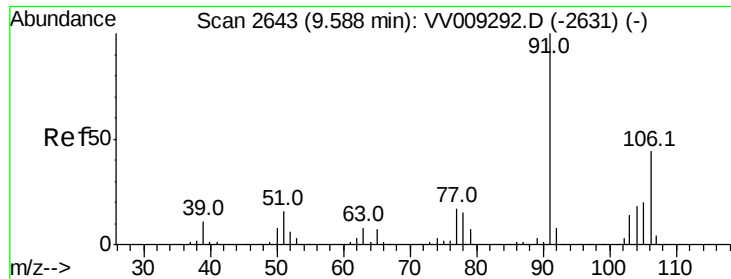
Tgt Ion: 91 Resp: 13265
Ion Ratio Lower Upper
91 100
106 28.5 20.7 38.5



#54
m,p-Xylene
Concen: 1.729 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV009290.D
Acq: 13 Feb 2019 12:58

Tgt Ion: 106 Resp: 4454
Ion Ratio Lower Upper
106 100
91 223.9 145.3 269.9





#55

o-xylene

Concen: 1.686 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

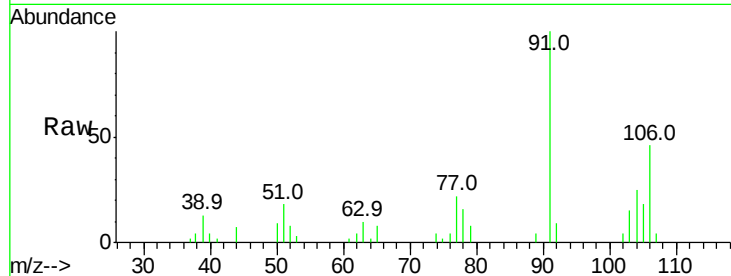
VSTD2.561

Tgt Ion:106 Resp: 4111

Ion Ratio Lower Upper

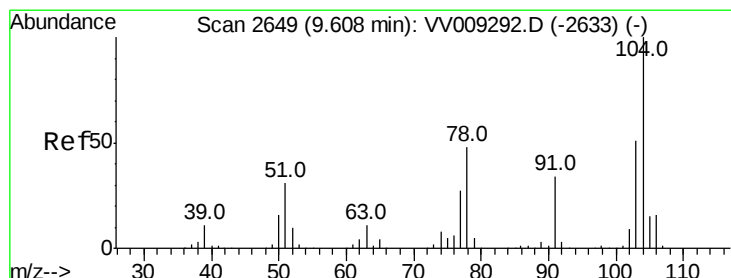
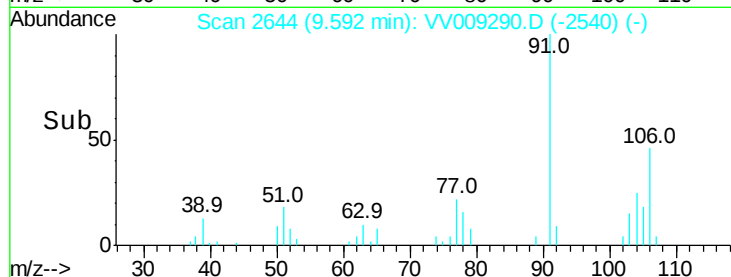
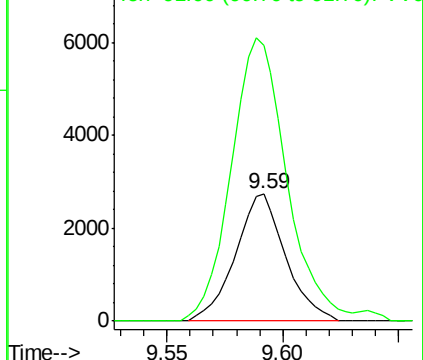
106 100

91 216.8 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 1.664 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. -0.00 min

Lab File: VV009290.D

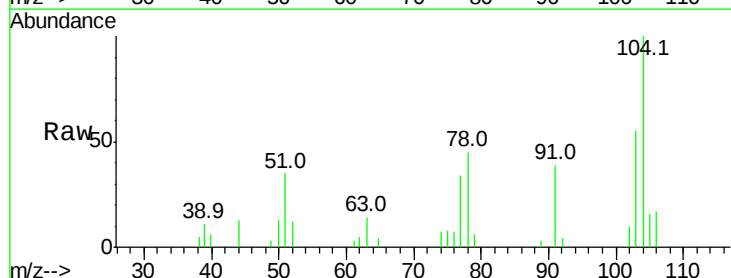
Acq: 13 Feb 2019 12:58

Tgt Ion:104 Resp: 6829

Ion Ratio Lower Upper

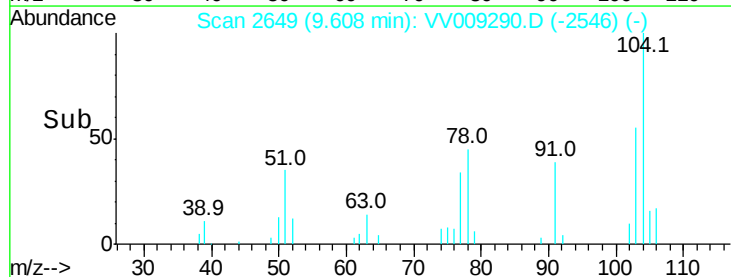
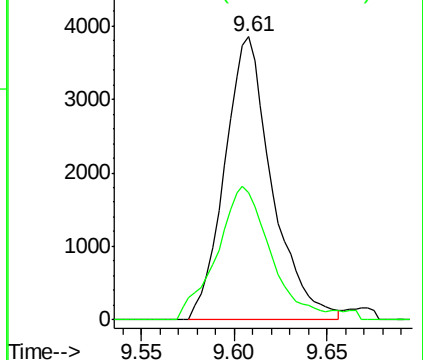
104 100

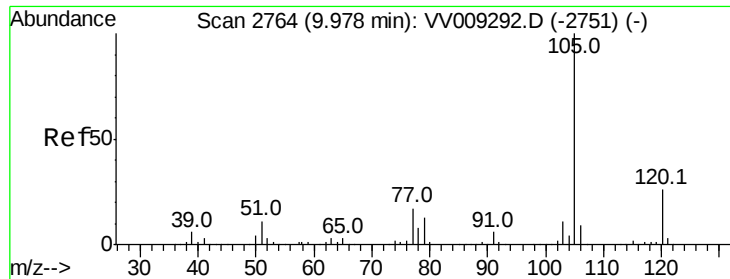
78 45.0 33.6 62.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 1.842 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampled :

VSTD2.561

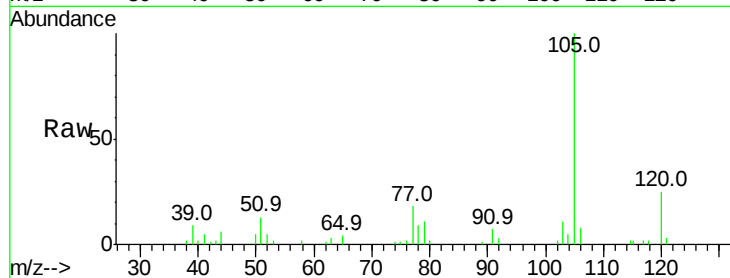
Tgt Ion:105 Resp: 12326

Ion Ratio Lower Upper

105 100

120 23.6 21.1 31.7

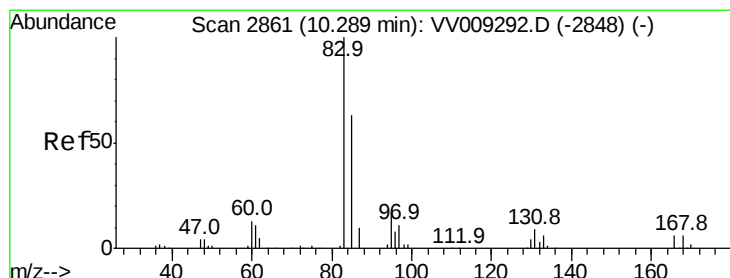
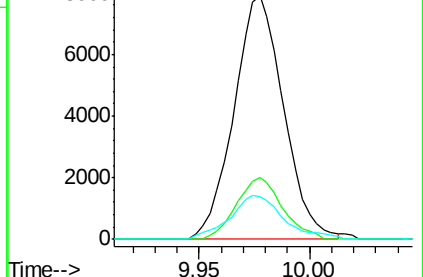
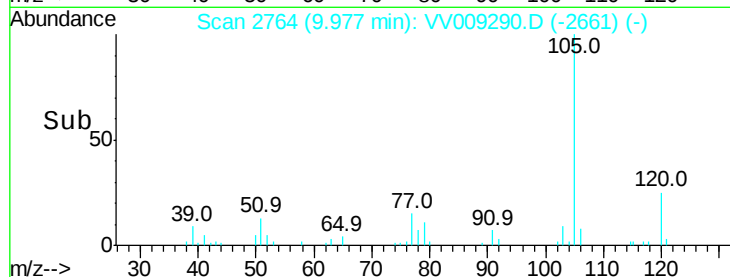
77 19.7 13.8 20.8



Abundance Ion 105.00 (104.70 to 105.70): VV009290.D (-2751) (-)

Ion 120.00 (119.70 to 120.70): VV009290.D (-2751) (-)

Ion 77.00 (76.70 to 77.70): VV009290.D (-2751) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 2.126 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

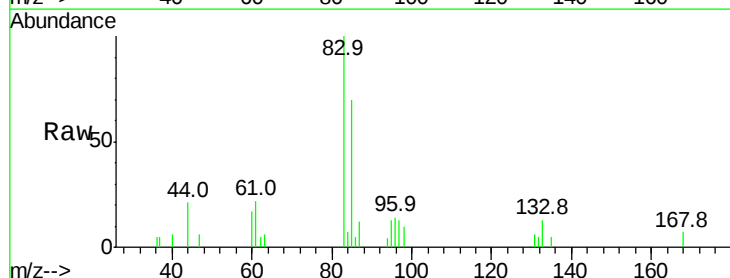
Tgt Ion: 83 Resp: 3743

Ion Ratio Lower Upper

83 100

85 69.7 44.7 82.9

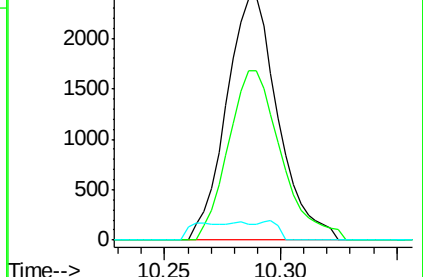
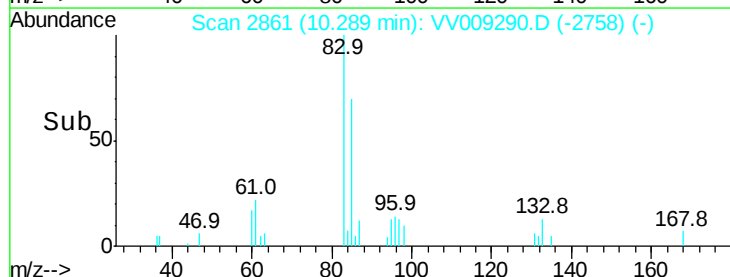
131 6.3 7.8 11.6#

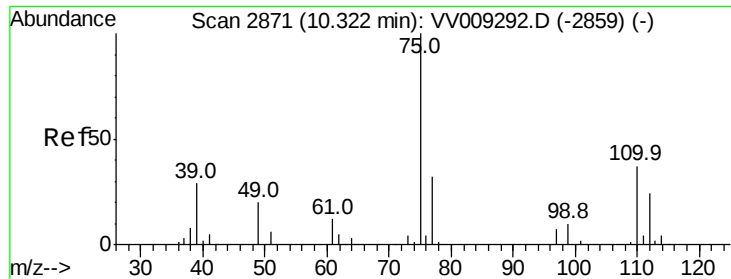


Abundance Ion 83.00 (82.70 to 83.70): VV009290.D (-2758) (-)

Ion 85.00 (84.70 to 85.70): VV009290.D (-2758) (-)

Ion 131.00 (130.70 to 131.70): VV009290.D (-2758) (-)

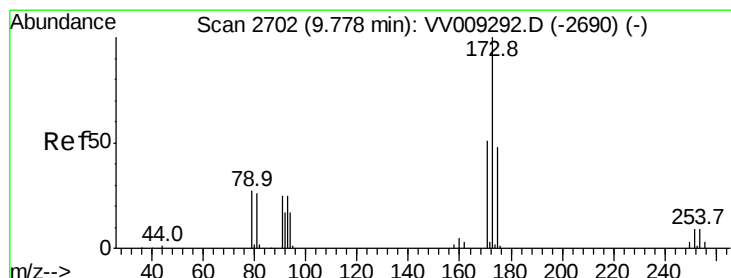
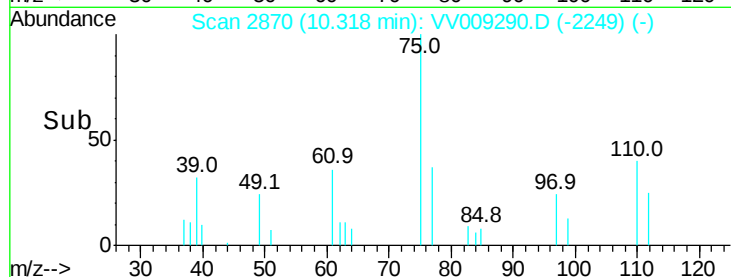
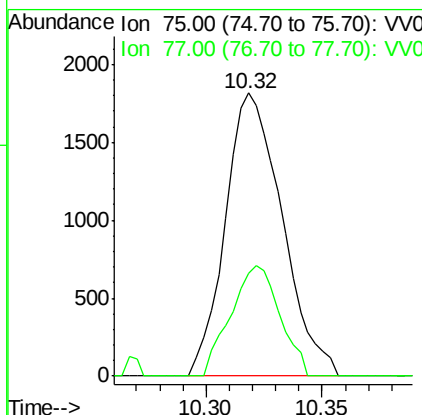
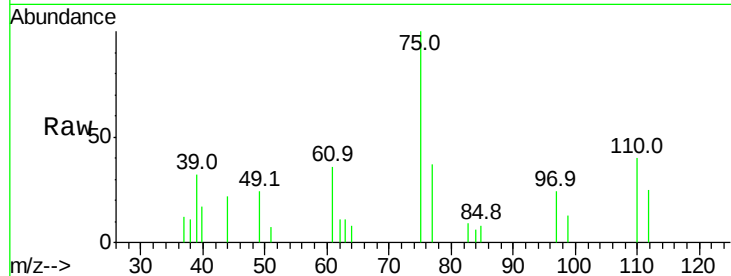




#59
 1,2,3-Trichloropropane
 Concen: 2.242 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

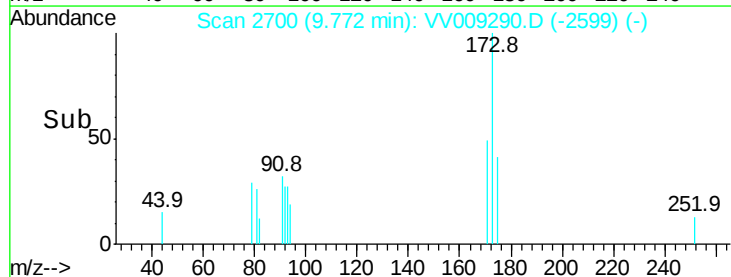
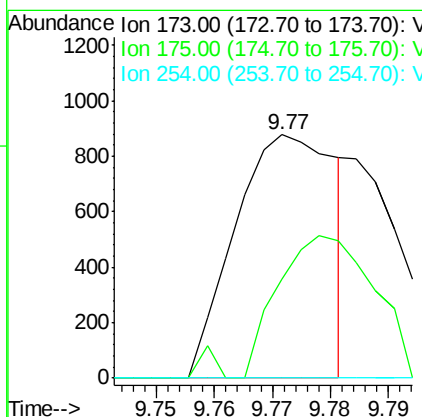
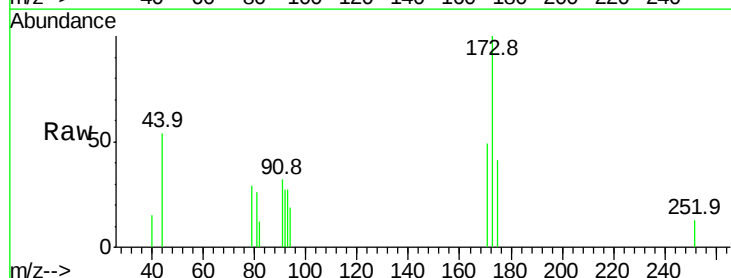
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.561

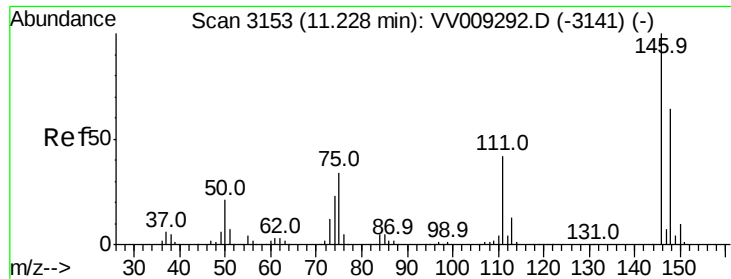
Tgt Ion: 75 Resp: 3089
 Ion Ratio Lower Upper
 75 100
 77 33.9 26.2 39.2



#62
 Bromoform
 Concen: 1.388 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. -0.01 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

Tgt Ion: 173 Resp: 1054
 Ion Ratio Lower Upper
 173 100
 175 56.0 39.9 59.9
 254 0.0 6.9 10.3#

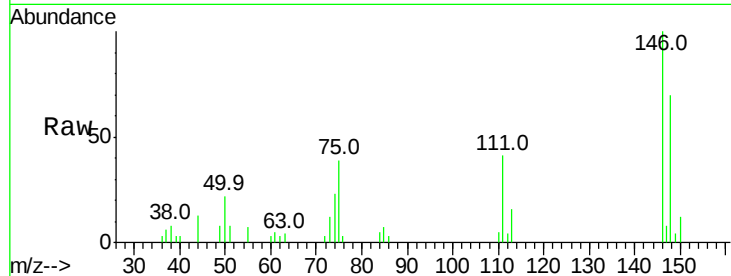




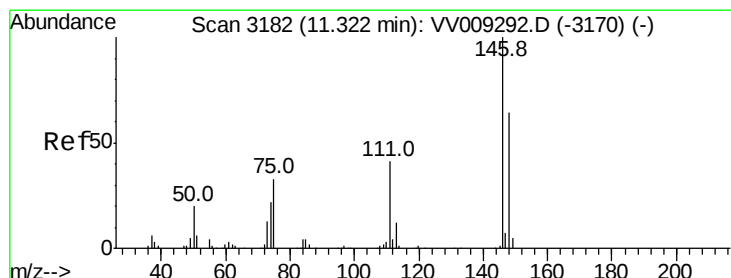
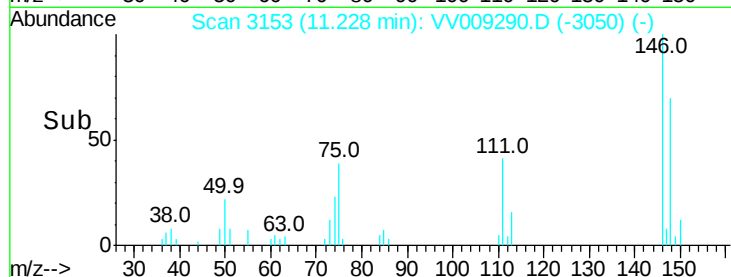
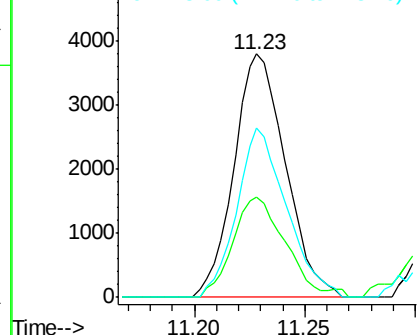
#63
 1,3-Dichlorobenzene
 Concen: 2.262 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.561

Tgt Ion:146 Resp: 6146
 Ion Ratio Lower Upper
 146 100
 111 41.3 29.5 54.7
 148 69.7 44.5 82.7

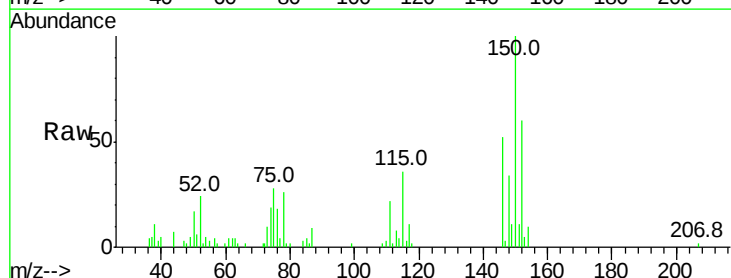


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

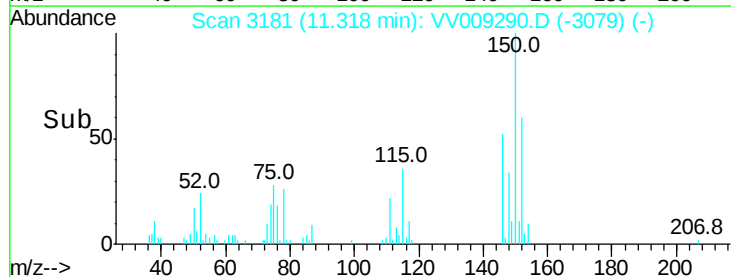
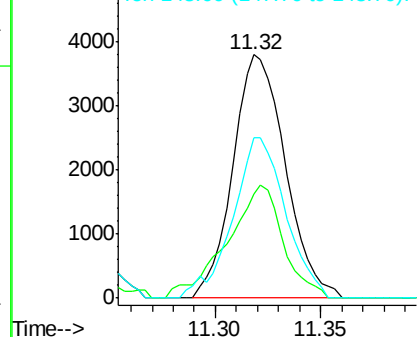


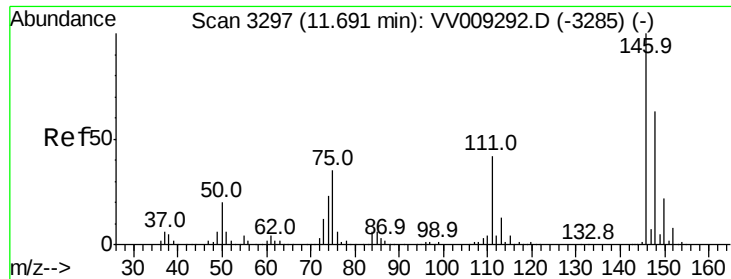
#64
 1,4-Dichlorobenzene
 Concen: 2.390 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

Tgt Ion:146 Resp: 6564
 Ion Ratio Lower Upper
 146 100
 111 42.5 28.6 53.0
 148 66.1 45.1 83.7



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





#65

1,2-Dichlorobenzene

Concen: 2.404 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.561

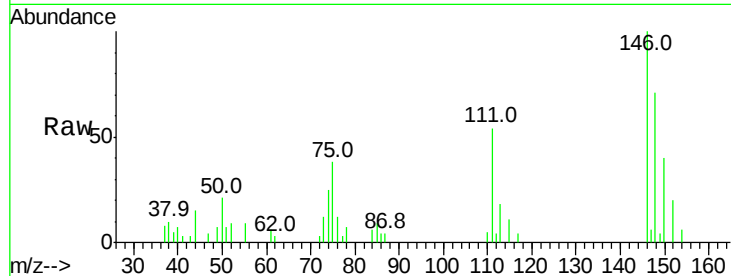
Tgt Ion:146 Resp: 6115

Ion Ratio Lower Upper

146 100

111 53.9 33.8 50.8#

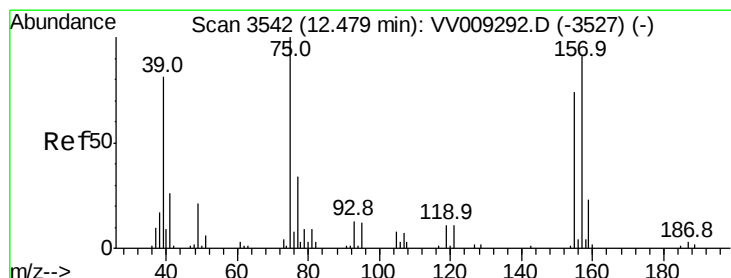
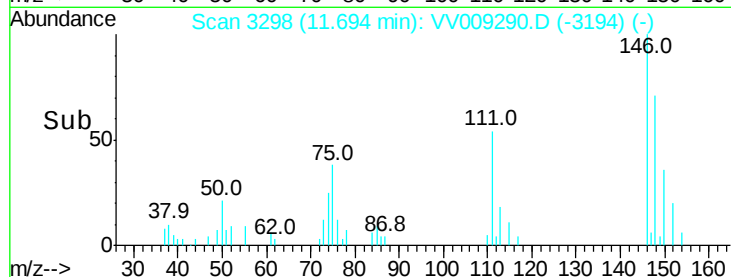
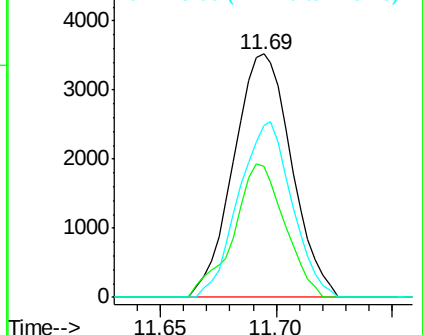
148 70.8 50.1 75.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 3.621 ug/L

RT: 12.70 min Scan# 3610

Delta R.T. 0.22 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

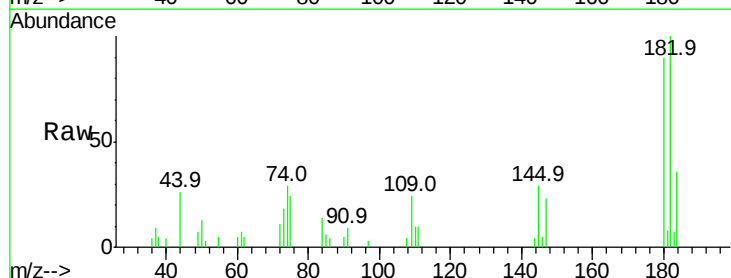
Tgt Ion: 75 Resp: 1164

Ion Ratio Lower Upper

75 100

157 0.0 72.6 109.0#

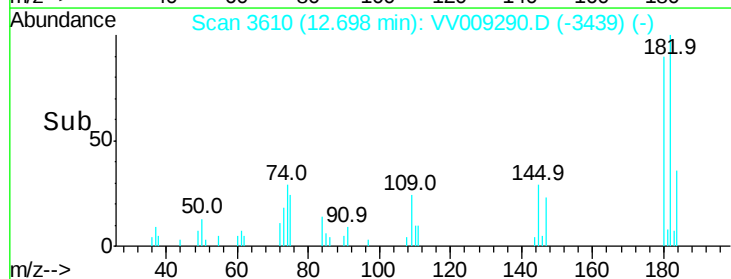
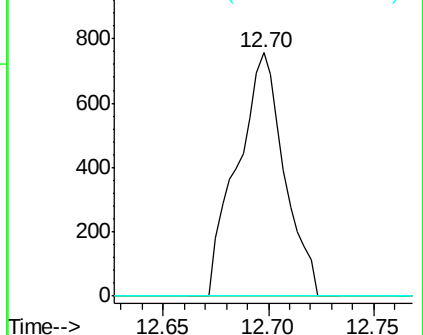
155 0.0 59.0 88.6#

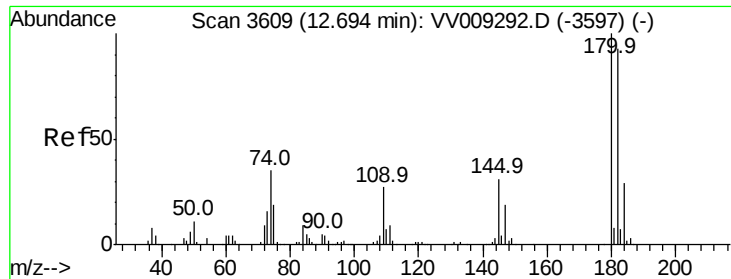


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

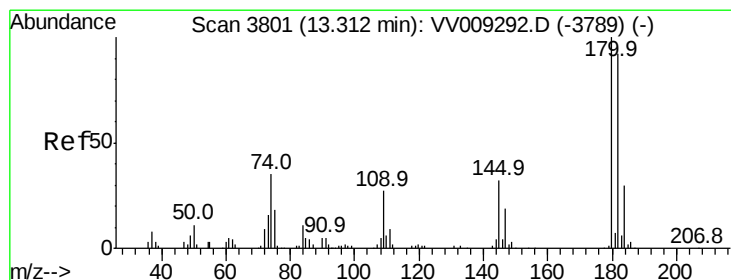
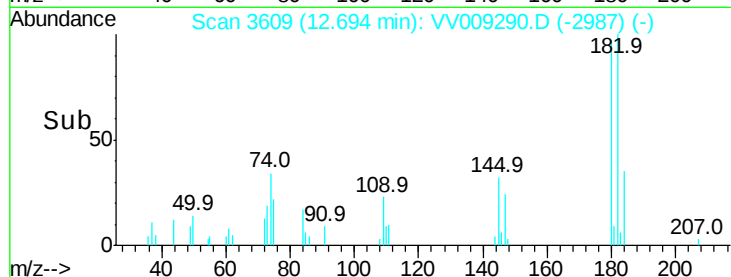
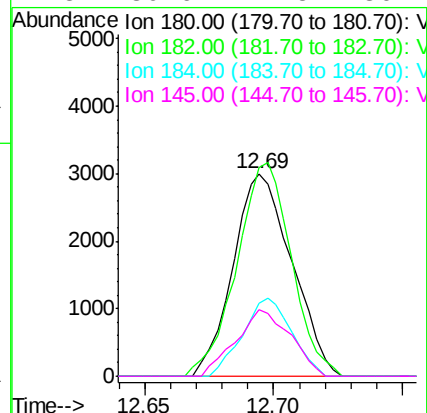
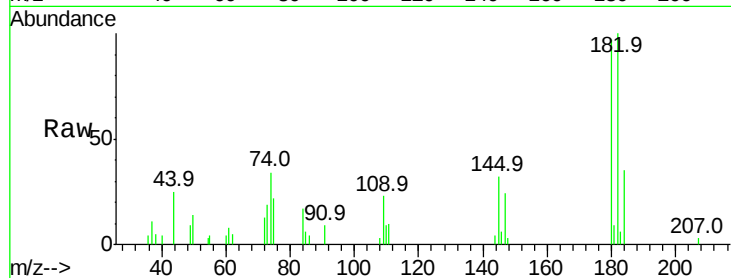




#67
 1,3,5-Trichlorobenzene
 Concen: 2.359 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

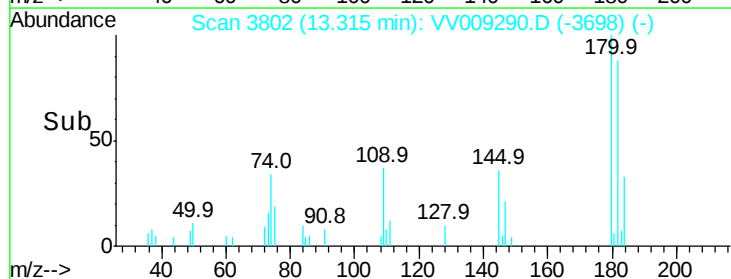
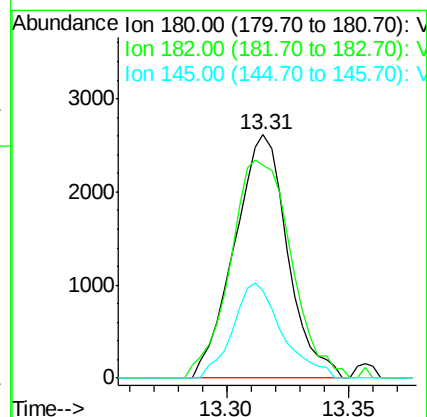
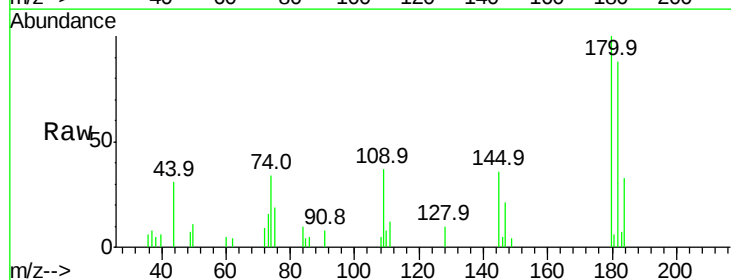
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.561

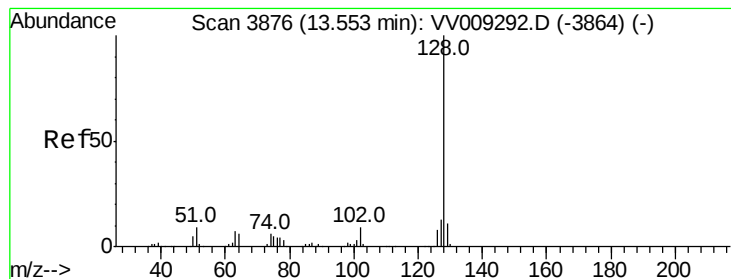
Tgt Ion:180 Resp: 4758
 Ion Ratio Lower Upper
 180 100
 182 98.2 75.5 113.3
 184 32.2 23.8 35.6
 145 30.6 24.5 36.7



#68
 1,2,4-trichlorobenzene
 Concen: 2.517 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV009290.D
 Acq: 13 Feb 2019 12:58

Tgt Ion:180 Resp: 3957
 Ion Ratio Lower Upper
 180 100
 182 102.4 74.1 111.1
 145 36.0 25.4 38.2





#69

Naphthalene

Concen: 3.246 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.561

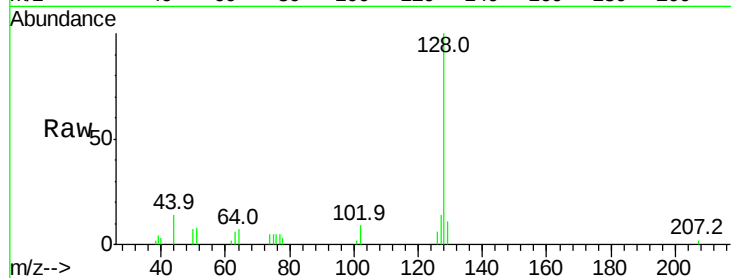
Tgt Ion:128 Resp: 10289

Ion Ratio Lower Upper

128 100

129 9.9 8.8 13.2

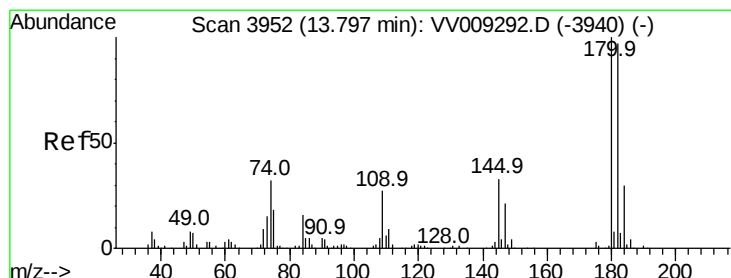
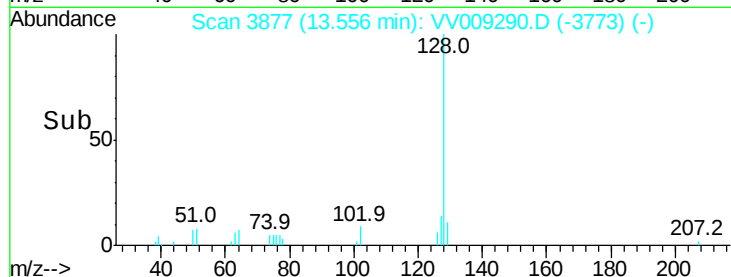
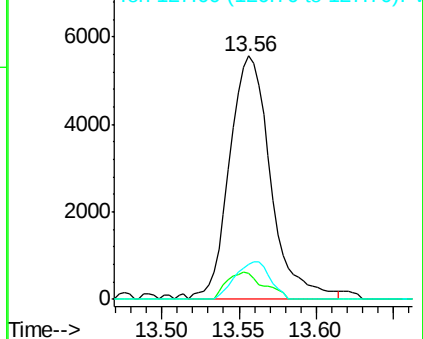
127 13.1 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 2.711 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV009290.D

Acq: 13 Feb 2019 12:58

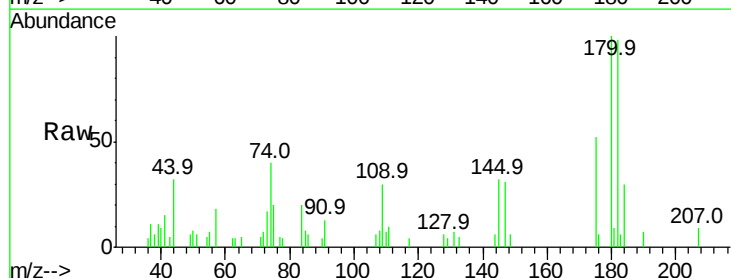
Tgt Ion:180 Resp: 3872

Ion Ratio Lower Upper

180 100

182 102.6 77.7 116.5

145 35.3 26.9 40.3



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

