

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111818\
 Data File : VV008629.D
 Acq On : 17 Nov 2018 15:13
 Operator : SY/MD
 Sample : J5990-05
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 ETO79

Quant Time: Nov 19 03:01:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR111718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Nov 19 02:55:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	155342	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	140798	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	61284	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	29583	4.29	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.80%
7) Chloroethane-d5	1.58	69	26403	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.00%
11) 1,1-Dichloroethene-d2	2.13	63	44963	3.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.20%
20) 2-Butanone-d5	3.97	46	119339	48.33	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.66%
24) Chloroform-d	4.41	84	85782	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	5.09	65	46420	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
32) Benzene-d6	5.10	84	169946	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.60%
36) 1,2-Dichloropropane-d6	6.12	67	56785	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.36	98	157022	4.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.00%
43) trans-1,3-Dichloropropene-	7.67	79	19167	4.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.80%
46) 2-Hexanone-d5	8.14	63	93939	45.91	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.82%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	37404	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	55463	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.25	50	1731	0.162	ug/L #	82
8) Chloroethane	1.60	64	17638	3.064	ug/L	99
13) Acetone	2.23	43	2425	1.883	ug/L	99
15) Methyl Acetate	2.47	43	2021	0.627	ug/L #	54
30) Cyclohexane	4.73	56	5010	0.253	ug/L	98
33) Benzene	5.15	78	129635	2.904	ug/L	100
35) Methylcyclohexane	6.18	83	2371	0.119	ug/L #	82
37) 1,2-Dichloropropane	6.12	63	6136	0.523	ug/L #	89
39) cis-1,3-Dichloropropene	7.03	75	1625	0.103	ug/L #	65
48) 2-Hexanone	8.14	43	12868	2.776	ug/L #	69
51) Chlorobenzene	8.93	112	105782	3.686	ug/L	99
56) Isopropylbenzene	9.98	105	31139	0.630	ug/L	100
62) 1,3-Dichlorobenzene	11.32	146	34100	1.708	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	34100	1.733	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	4445	0.234	ug/L #	85
66) 1,2-Dibromo-3-chloropropan	12.47	75	105	0.086	ug/L #	11
69) Naphthalene	13.56	128	5671	0.300	ug/L #	93

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QLast Update : Mon Nov 19 02:55:31 2018
Response via : Initial Calibration

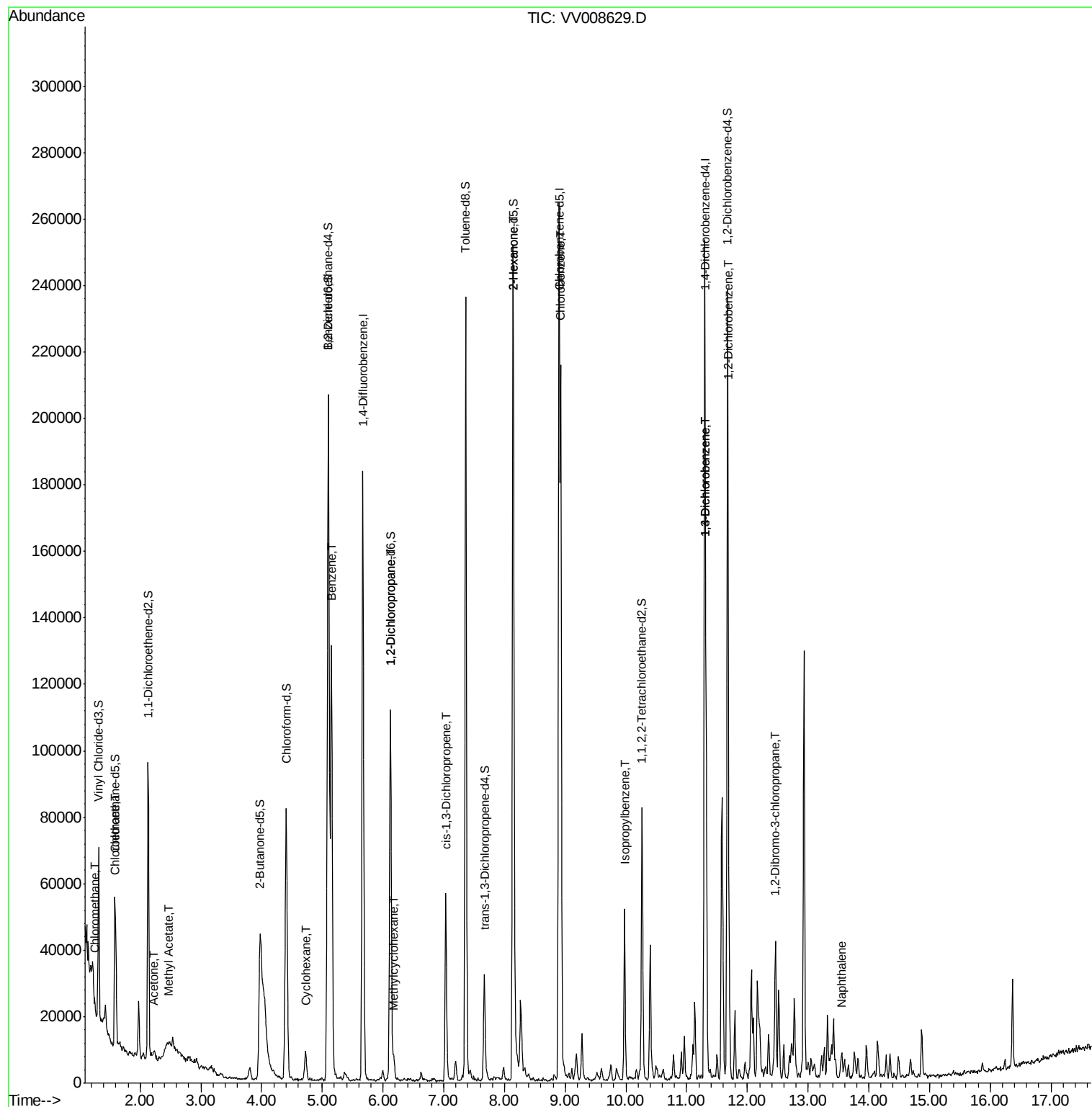
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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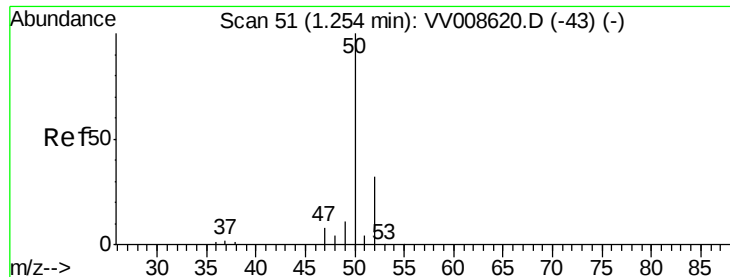
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Chloromethane

Concen: 0.162 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

Instrument :

MSVOA_V

ClientSampled :

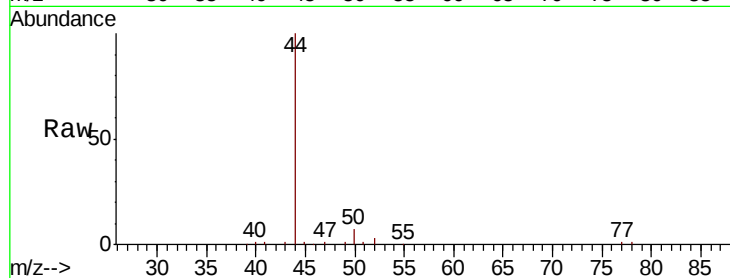
ETO79

Tot Ion: 50 Resp: 1731

Ion Ratio Lower Upper

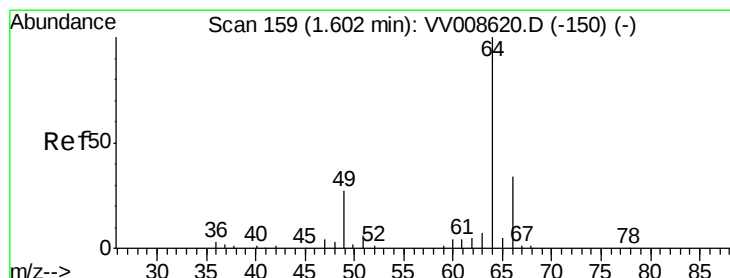
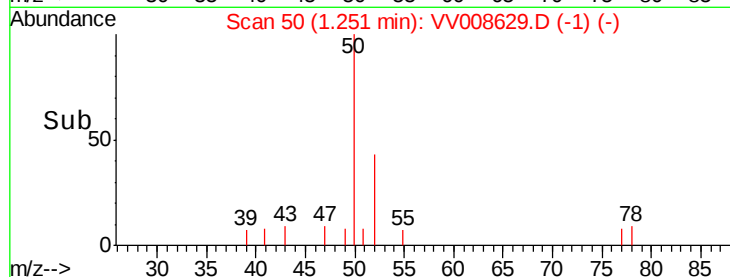
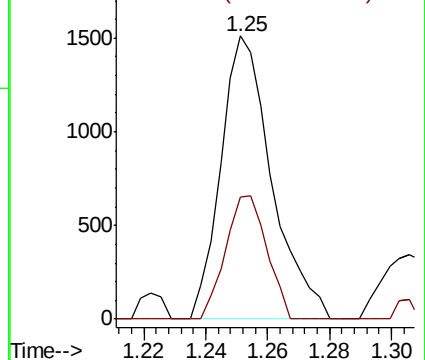
50 100

52 43.3 23.3 43.3#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#8

Chloroethane

Concen: 3.064 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV008629.D

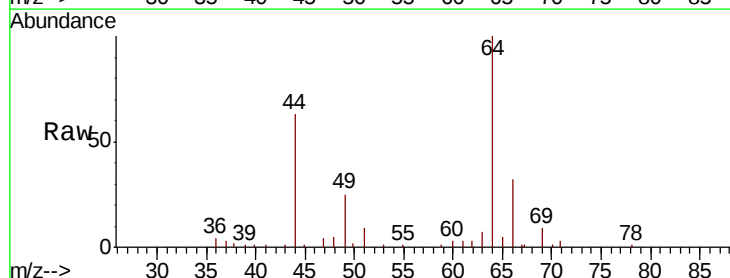
Acq: 17 Nov 2018 15:13

Tgt Ion: 64 Resp: 17638

Ion Ratio Lower Upper

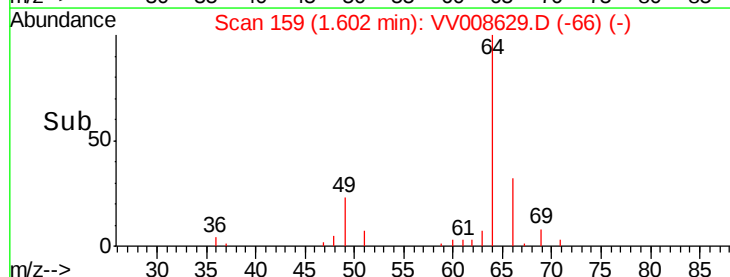
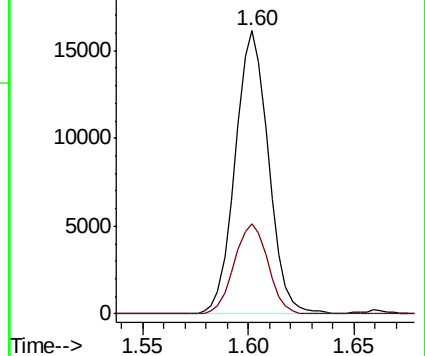
64 100

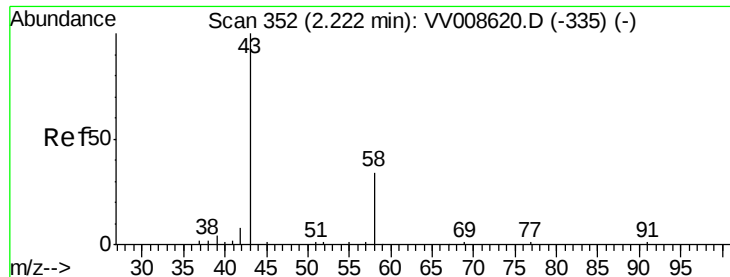
66 31.7 22.7 42.3



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#13

Acetone

Concen: 1.883 ug/L

RT: 2.23 min Scan# 355

Delta R.T. 0.01 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

Instrument :

MSVOA_V

ClientSampled :

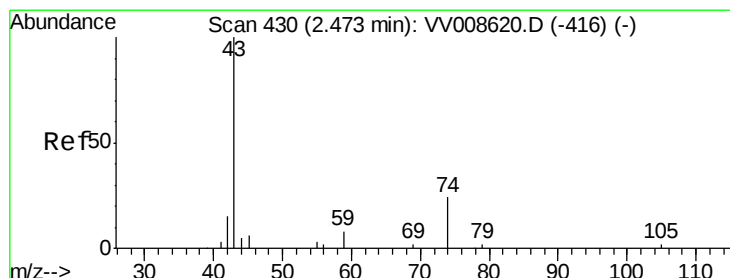
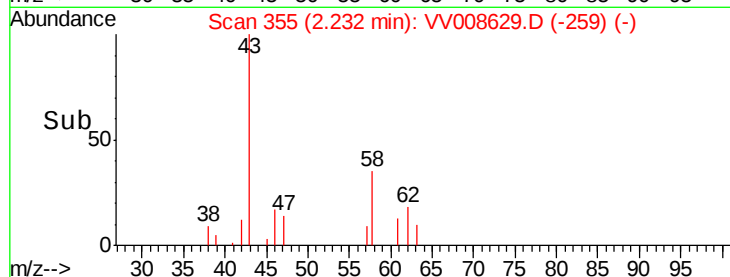
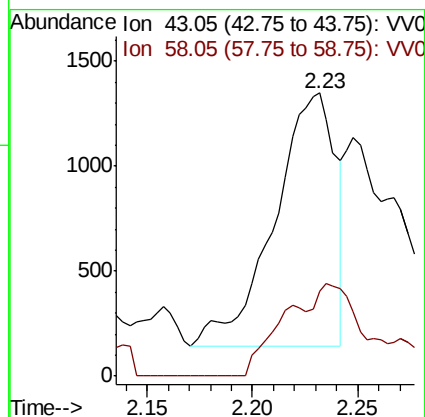
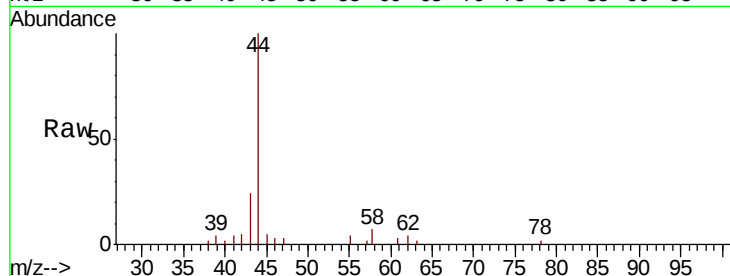
ETO79

Tot Ion: 43 Resp: 2425

Ion Ratio Lower Upper

43 100

58 28.5 0.0 56.4



#15

Methyl Acetate

Concen: 0.627 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.01 min

Lab File: VV008629.D

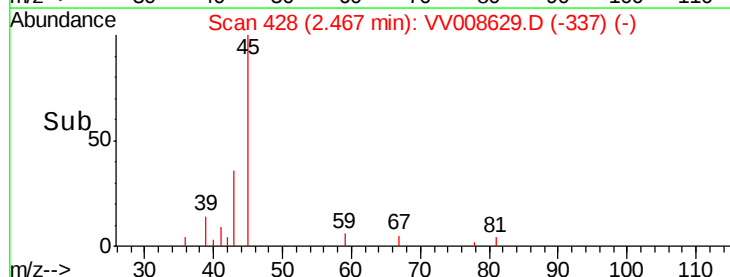
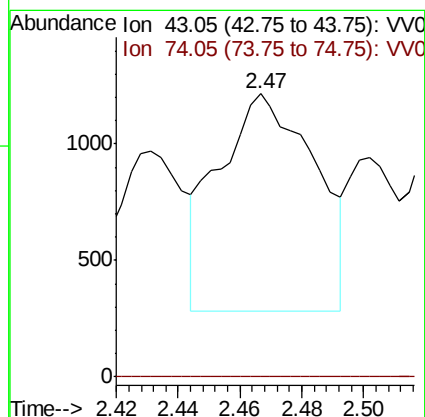
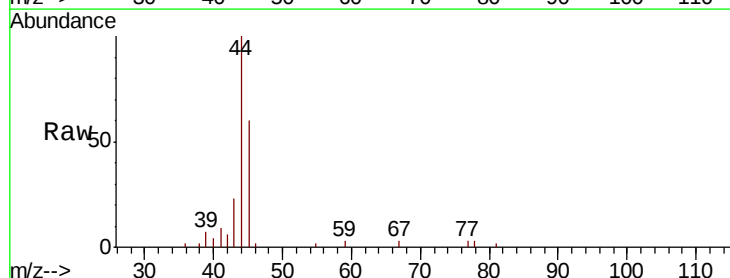
Acq: 17 Nov 2018 15:13

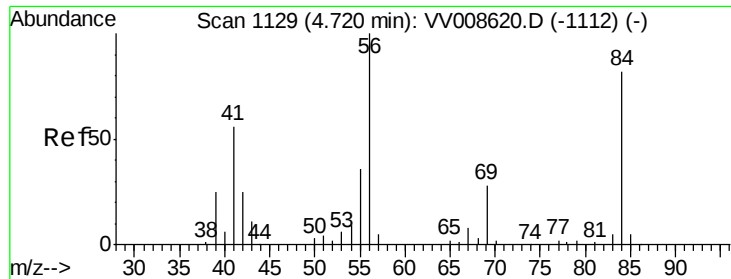
Tgt Ion: 43 Resp: 2021

Ion Ratio Lower Upper

43 100

74 0.0 17.6 26.4#

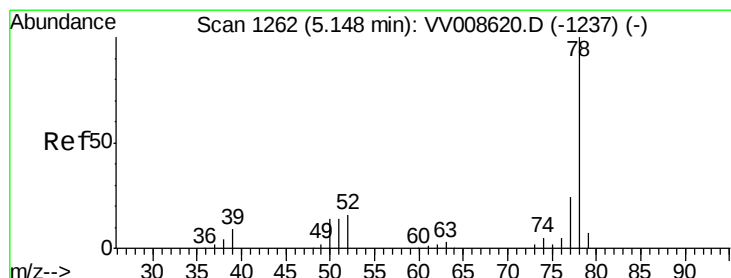
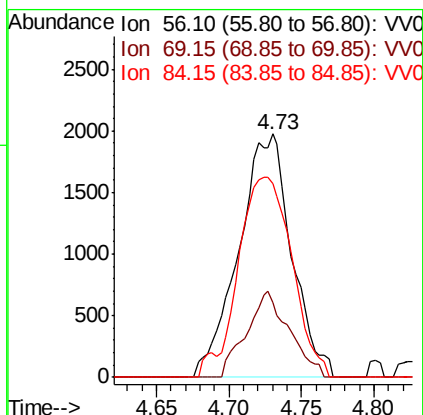
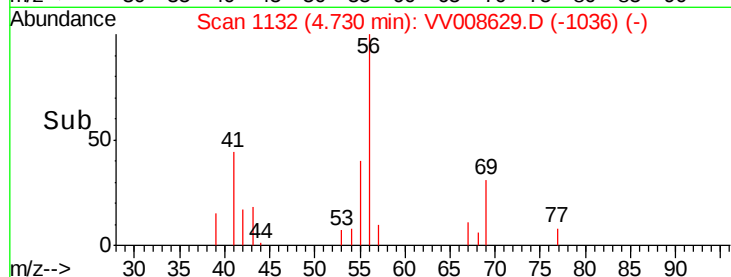
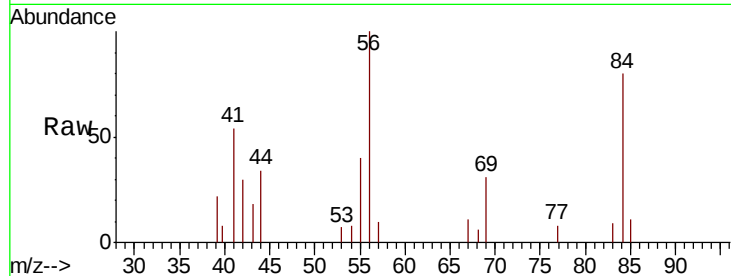




#30
Cyclohexane
Concen: 0.253 ug/L
RT: 4.73 min Scan# 1132
Delta R.T. 0.01 min
Lab File: VV008629.D
Acq: 17 Nov 2018 15:13

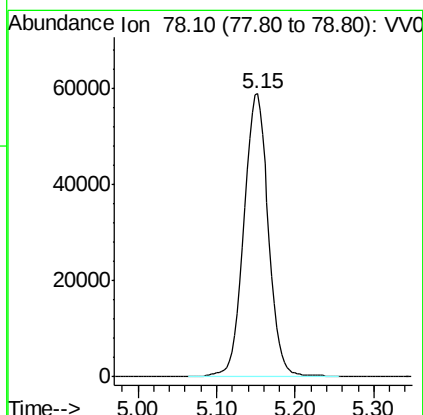
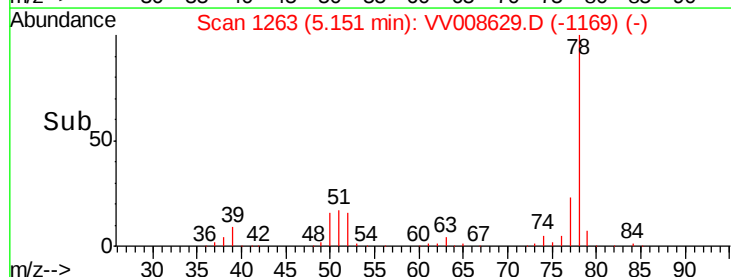
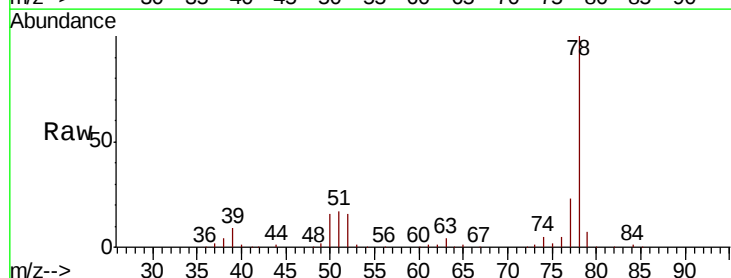
Instrument :
MSVOA_V
ClientSampleId :
ETO79

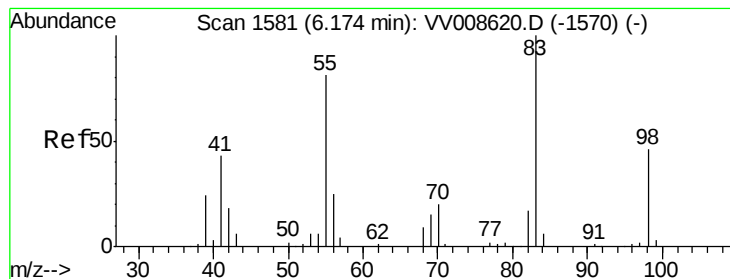
Tot Ion: 56 Resp: 5010
Ion Ratio Lower Upper
56 100
69 28.7 24.2 36.4
84 83.8 65.7 98.5



#33
Benzene
Concen: 2.904 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VV008629.D
Acq: 17 Nov 2018 15:13

Tgt Ion: 78 Resp: 129635





#35

Methylcyclohexane

Concen: 0.119 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.01 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

Instrument :

MSVOA_V

ClientSampleId :

ETO79

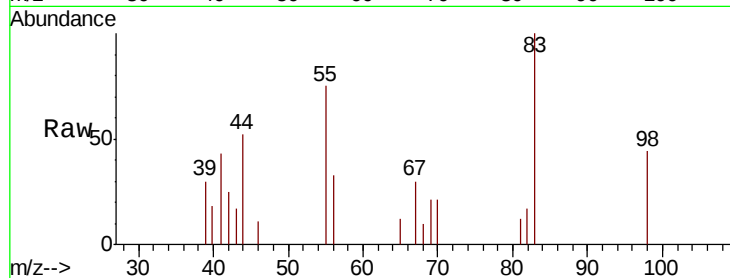
Tot Ion: 83 Resp: 2371

Ion Ratio Lower Upper

83 100

55 104.6 65.6 98.4#

98 43.1 36.4 54.6

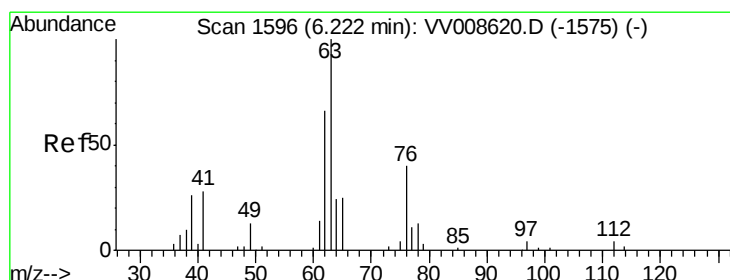
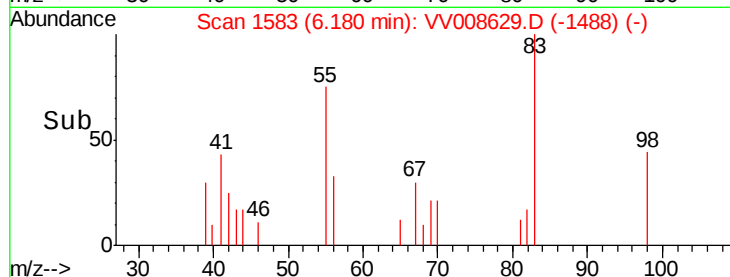


Abundance Ion 83.15 (82.85 to 83.85): VV008629.D (-1570) (-)

Ion 55.10 (54.80 to 55.80): VV008629.D (-1570) (-)

Ion 98.15 (97.85 to 98.85): VV008629.D (-1570) (-)

Time-->



#37

1,2-Dichloropropane

Concen: 0.523 ug/L

RT: 6.12 min Scan# 1565

Delta R.T. -0.10 min

Lab File: VV008629.D

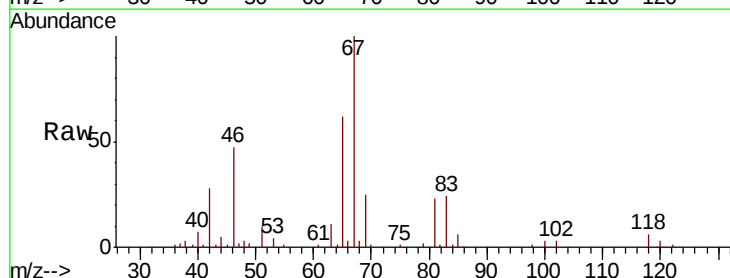
Acq: 17 Nov 2018 15:13

Tgt Ion: 63 Resp: 6136

Ion Ratio Lower Upper

63 100

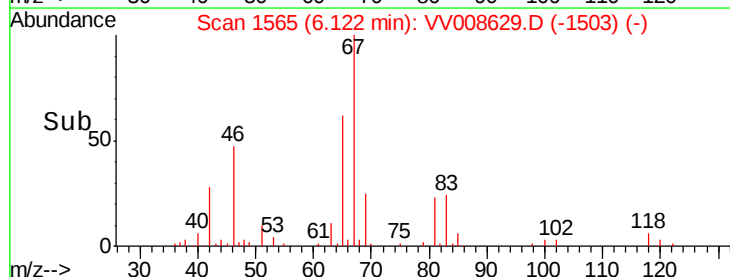
112 0.0 2.8 4.2#



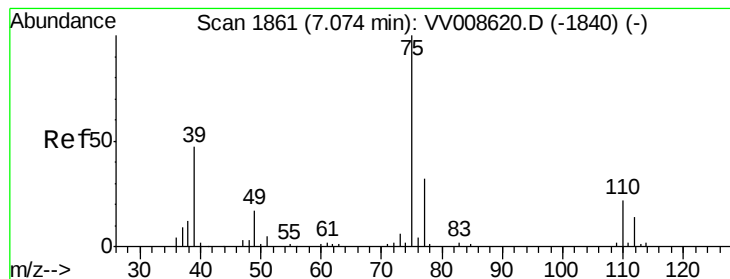
Abundance Ion 63.10 (62.80 to 63.80): VV008629.D (-1503) (-)

Ion 112.10 (111.80 to 112.80): VV008629.D (-1503) (-)

Time-->



Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.103 ug/L

RT: 7.03 min Scan# 1848

Delta R.T. -0.04 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

Instrument :

MSVOA_V

ClientSampleId :

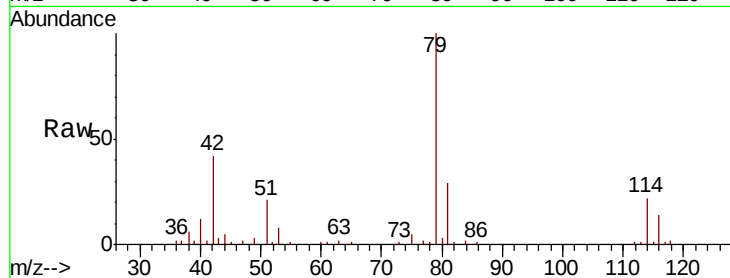
ETO79

Tot Ion: 75 Resp: 1625

Ion Ratio Lower Upper

75 100

77 52.4 23.0 42.8#



Abundance Ion 75.05 (74.75 to 75.75): VV008629.D (-1768) (-)

Ion 77.05 (76.75 to 77.75): VV008629.D (-1768) (-)

7.03

800

600

400

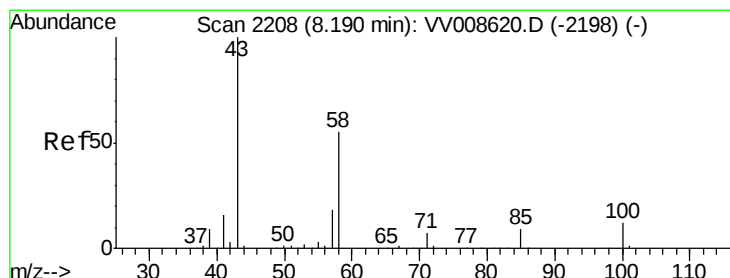
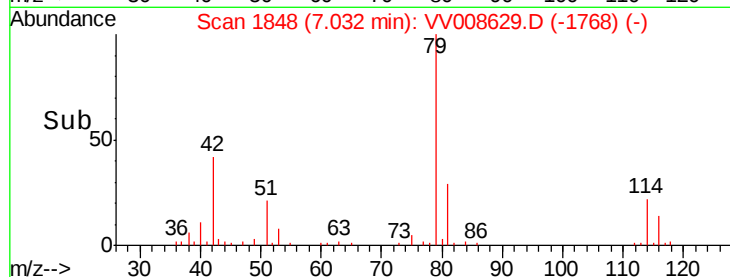
200

0

7.00

7.05

Time-->



#48

2-Hexanone

Concen: 2.776 ug/L

RT: 8.14 min Scan# 2193

Delta R.T. -0.05 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

Tgt Ion: 43 Resp: 12868

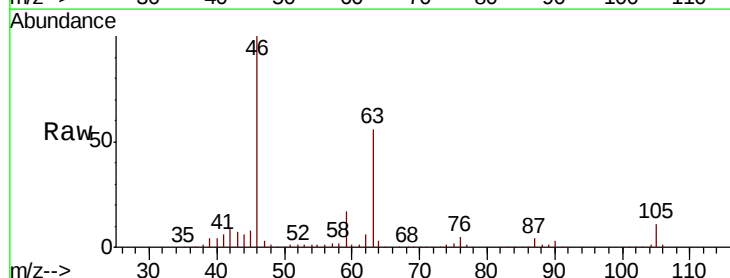
Ion Ratio Lower Upper

43 100

58 25.7 41.8 62.8#

57 25.5 15.4 23.0#

100 0.0 8.7 13.1#



Abundance Ion 43.05 (42.75 to 43.75): VV008629.D (-2115) (-)

Ion 58.05 (57.75 to 58.75): VV008629.D (-2115) (-)

Ion 57.20 (56.90 to 57.90): VV008629.D (-2115) (-)

Ion 100.15 (99.85 to 100.85): VV008629.D (-2115) (-)

8.14

8000

6000

4000

2000

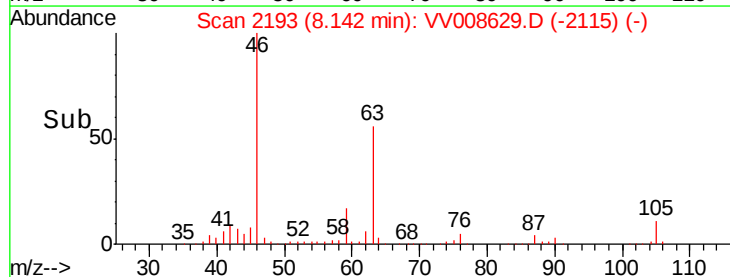
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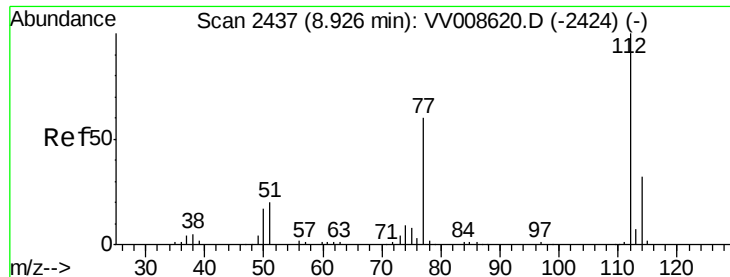
8.10

8.15

8.20

Time-->





#51

Chlorobenzene

Concen: 3.686 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

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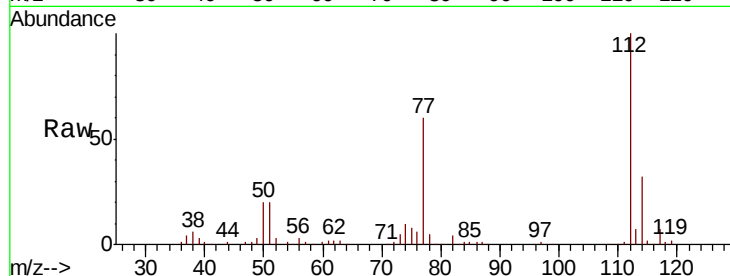
Tot Ion:112 Resp: 105782

Ion Ratio Lower Upper

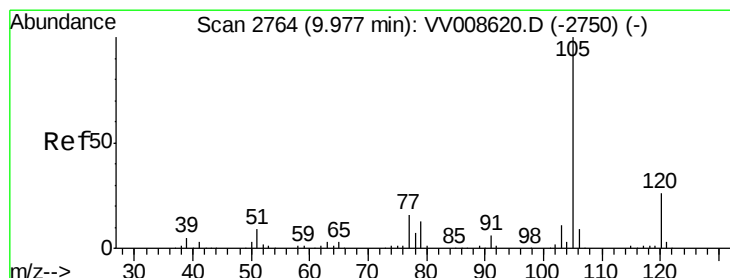
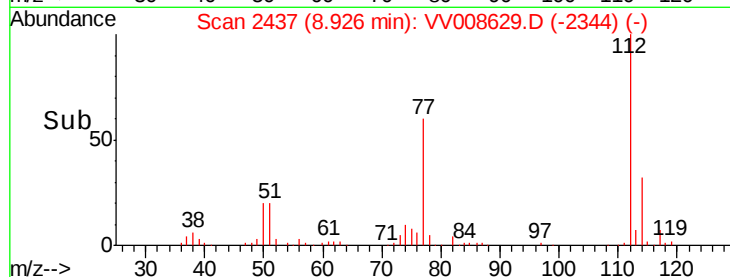
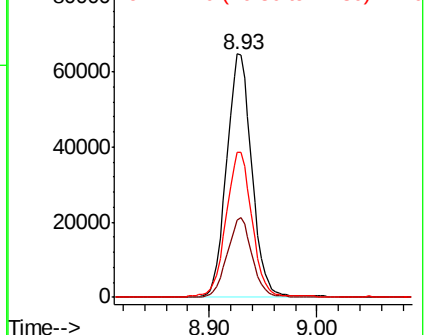
112 100

114 31.9 21.9 40.7

77 59.7 47.9 71.9



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VV0



#56

Isopropylbenzene

Concen: 0.630 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

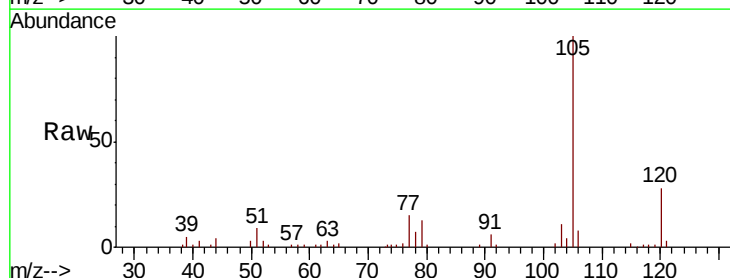
Tgt Ion:105 Resp: 31139

Ion Ratio Lower Upper

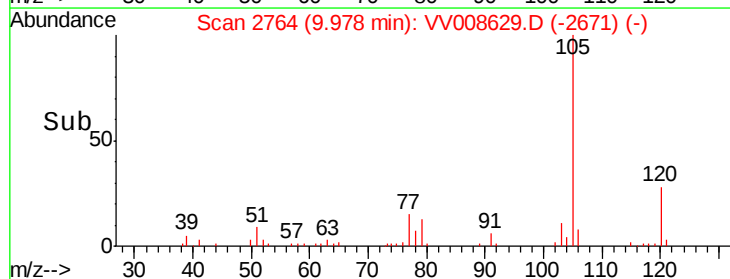
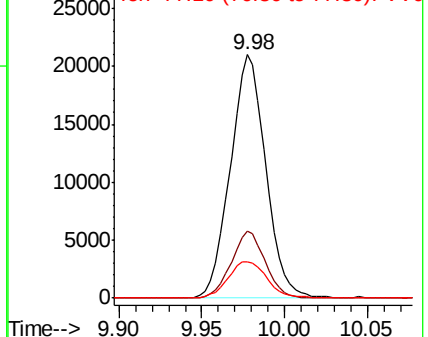
105 100

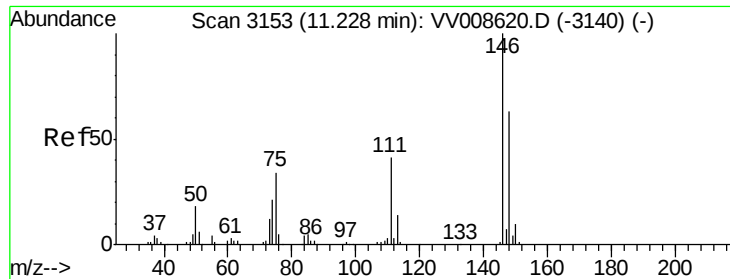
120 26.2 21.0 31.6

77 16.3 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VV0





#62

1,3-Dichlorobenzene

Concen: 1.708 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.09 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

Instrument :

MSVOA_V

ClientSampleId :

ETO79

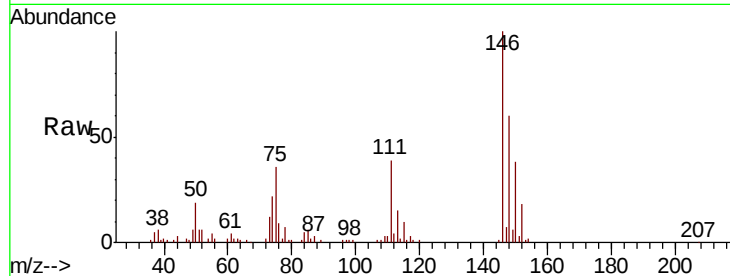
Tot Ion:146 Resp: 34100

Ion Ratio Lower Upper

146 100

111 39.5 28.1 52.1

148 60.0 43.0 80.0

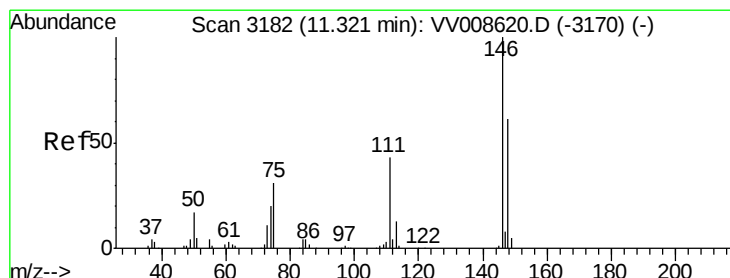
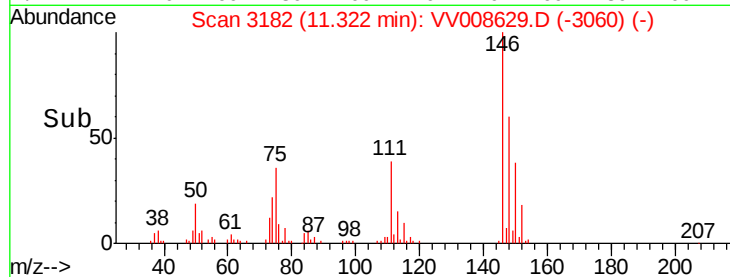
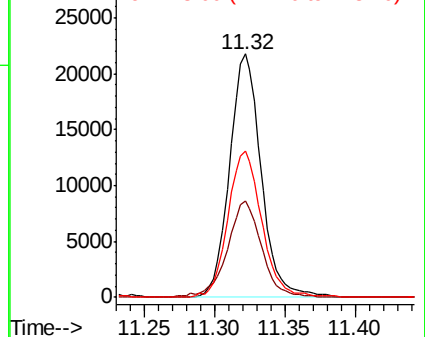


Abundance

Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 1.733 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

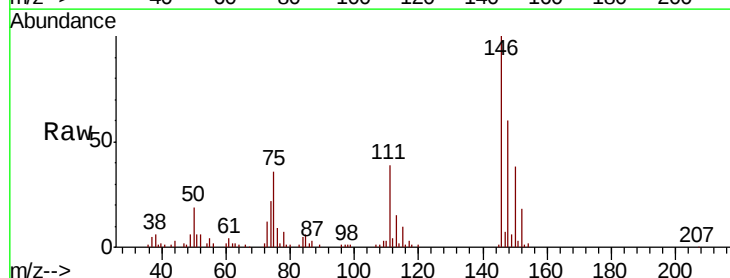
Tgt Ion:146 Resp: 34100

Ion Ratio Lower Upper

146 100

111 39.5 28.2 52.4

148 60.0 44.1 81.9

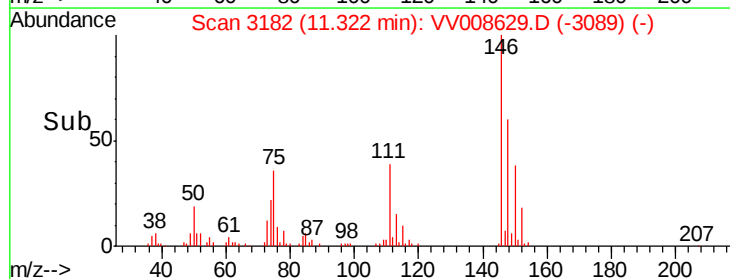
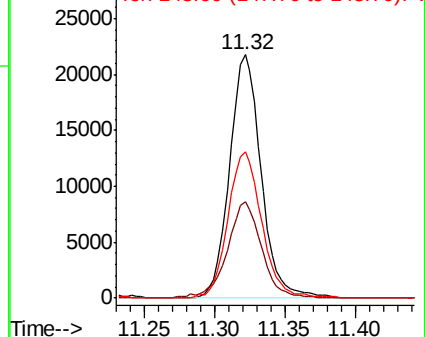


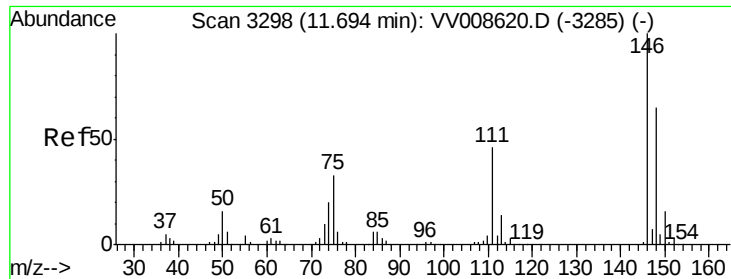
Abundance

Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.234 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

Instrument :

MSVOA_V

ClientSampleId :

ETO79

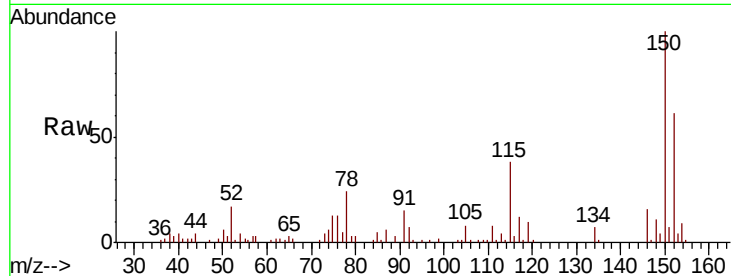
Tot Ion:146 Resp: 4445

Ion Ratio Lower Upper

146 100

111 53.0 33.5 50.3#

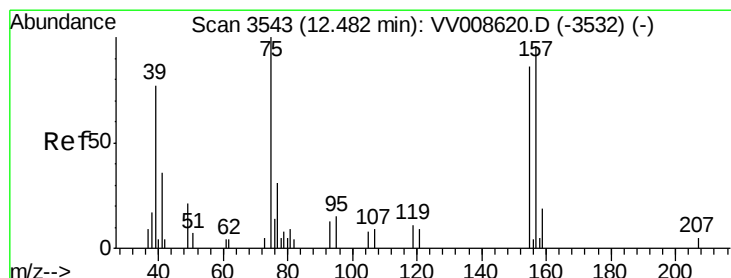
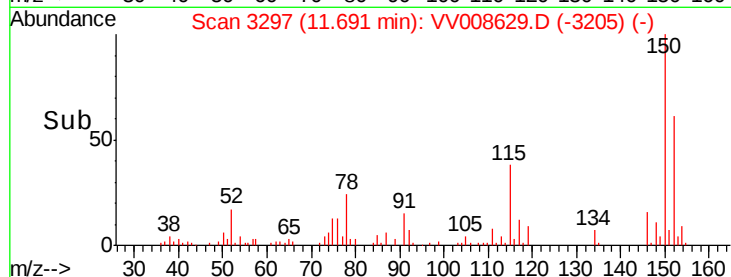
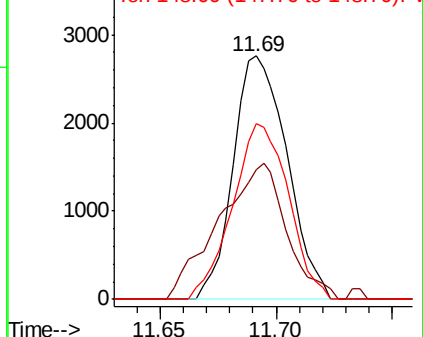
148 72.2 50.0 75.0



Abundance Ion 145.95 (145.65 to 146.65): 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: 0.086 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.01 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

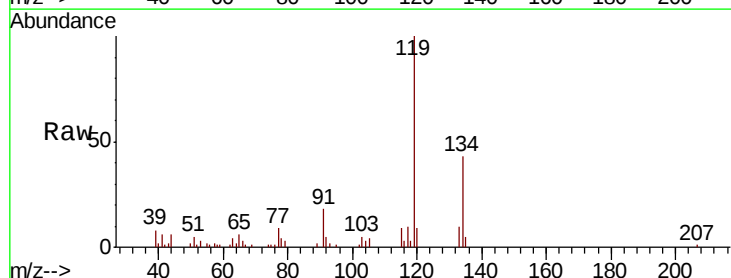
Tgt Ion: 75 Resp: 105

Ion Ratio Lower Upper

75 100

155 0.0 54.2 81.2#

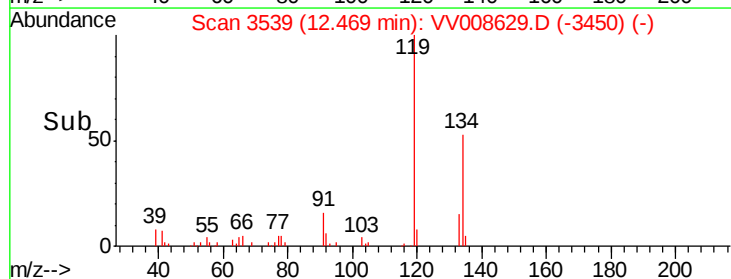
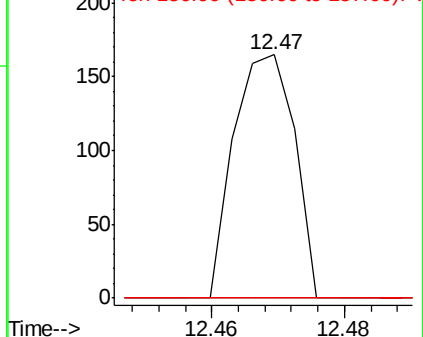
157 0.0 67.4 101.2#

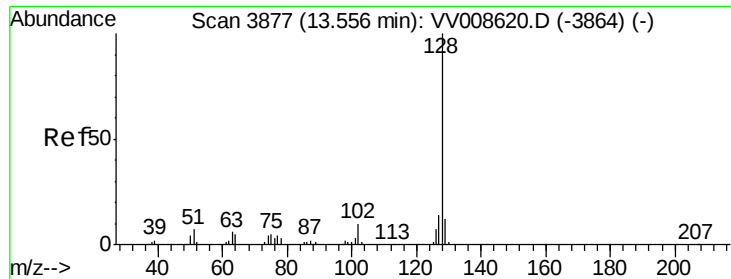


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#69

Naphthalene

Concen: 0.300 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008629.D

Acq: 17 Nov 2018 15:13

Instrument :

MSVOA_V

ClientSampleId :

ETO79

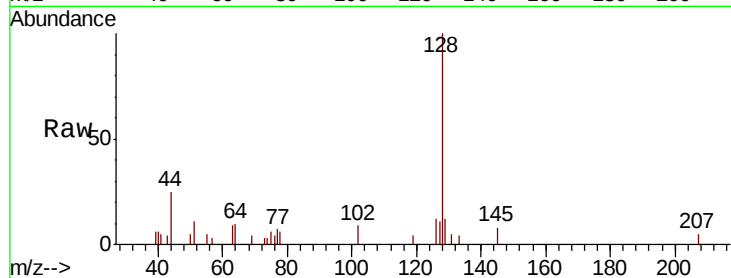
Tot Ion:128 Resp: 5671

Ion Ratio Lower Upper

128 100

129 14.8 8.8 13.2#

127 10.8 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

