

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091318\
 Data File : VV007526.D
 Acq On : 13 Sep 2018 22:52
 Operator : SY/MD
 Sample : J4864-05
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 14 05:12:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091318WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 14 05:10:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	138701	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	124253	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	68408	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	30219	4.17	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.40%
7) Chloroethane-d5	1.58	69	26759	4.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.00%
11) 1,1-Dichloroethene-d2	2.13	63	54672	3.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.60%
20) 2-Butanone-d5	4.02	46	66668	65.97	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	131.94%#
24) Chloroform-d	4.40	84	62138	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.60%
26) 1,2-Dichloroethane-d4	5.09	65	32165	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
32) Benzene-d6	5.10	84	125055	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.80%
36) 1,2-Dichloropropane-d6	6.14	67	37494	4.46	ug/L	0.02
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.20%
41) Toluene-d8	7.37	98	125386	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.40%
43) trans-1,3-Dichloropropene-	7.68	79	15230	3.92	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.40%
46) 2-Hexanone-d5	8.15	63	65440	105.43	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	210.86%#
57) 1,1,2,2-Tetrachloroethane-	10.27	84	28646	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	52142	4.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.20%

Target Compounds

					Ovalue
3) Chloromethane	1.24	50	926	0.142	ug/L 89
5) Vinyl chloride	1.32	62	10219	1.403	ug/L # 80
8) Chloroethane	1.60	64	813	0.183	ug/L 94
12) 1,1-Dichloroethene	2.14	96	8082	1.148	ug/L # 1
13) Acetone	2.28	43	5940	9.000	ug/L 76
14) Carbon disulfide	2.32	76	12940	0.628	ug/L # 95
15) Methyl Acetate	2.46	43	272	0.150	ug/L # 71
16) Methylene chloride	2.54	84	17871	2.349	ug/L 97
19) 1,1-Dichloroethane	3.23	63	5432	0.486	ug/L 94
22) cis-1,2-Dichloroethene	3.96	96	71935	9.529	ug/L 97
29) 1,1,1-Trichloroethane	4.66	97	50015	4.139	ug/L 100
31) Carbon tetrachloride	4.66	117	6353	0.560	ug/L 92
34) Trichloroethene	5.98	95	437619	55.611	ug/L 97
35) Methylcyclohexane	6.19	83	3719	0.306	ug/L 94
37) 1,2-Dichloropropane	6.14	63	4488	0.710	ug/L # 85
39) cis-1,3-Dichloropropene	7.05	75	1364	0.136	ug/L # 2
42) Toluene	7.44	91	8497	0.287	ug/L 96

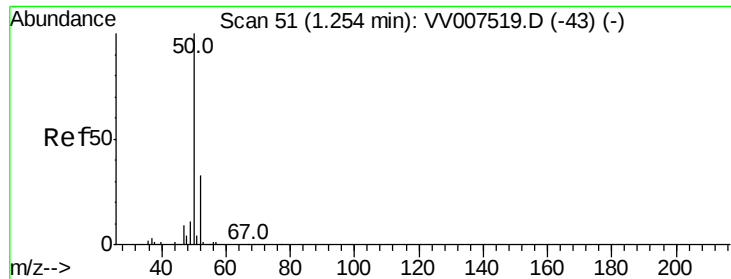
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091318\
Data File : VV007526.D
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Operator : SY/MD
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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Sep 14 05:10:24 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.68	75	883	0.107	ug/L #	66
47) Tetrachloroethene	8.03	164	2483	0.351	ug/L	90
49) Dibromochloromethane	8.03	129	2145	0.319	ug/L #	11
52) Ethylbenzene	9.06	91	17939	0.537	ug/L	97
53) m,p-xylene	9.19	106	28015	2.166	ug/L	99
54) o-xylene	9.59	106	9761	0.771	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.46	75	288	0.348	ug/L #	1
69) Naphthalene	13.56	128	15858	1.349	ug/L #	81

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



#3

Chloromethane

Concen: 0.142 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

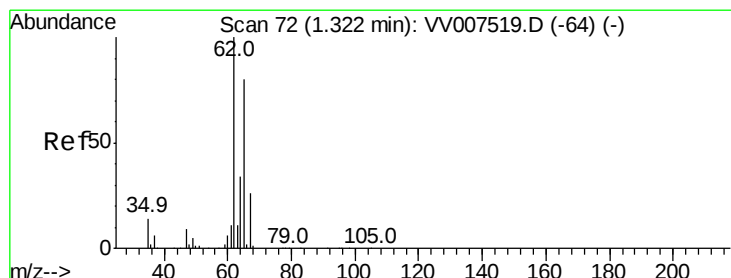
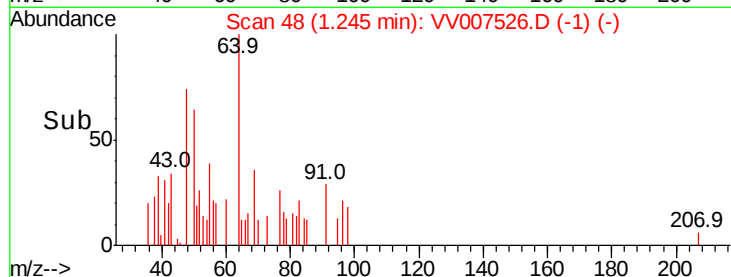
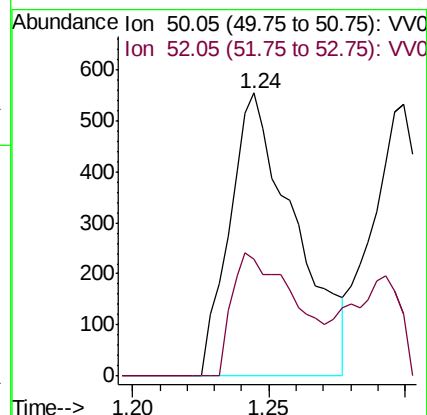
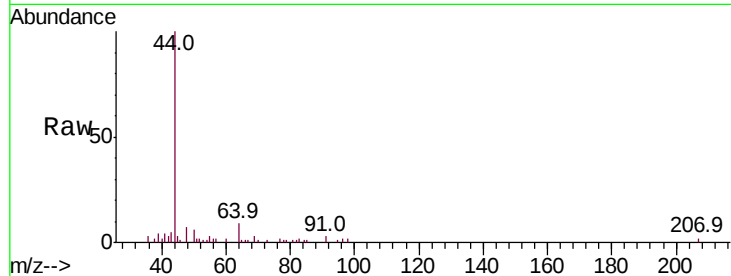
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 50 Resp: 926

Ion Ratio Lower Upper

50 100

52 41.2 24.3 45.1



#5

Vinyl chloride

Concen: 1.403 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV007526.D

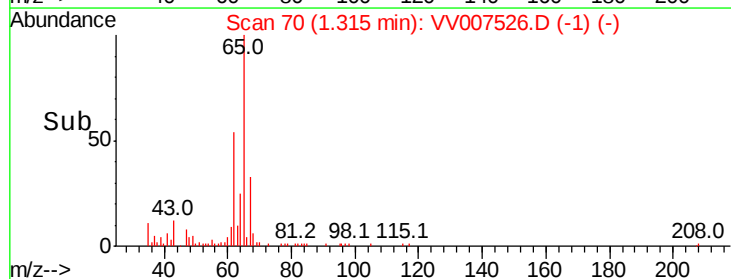
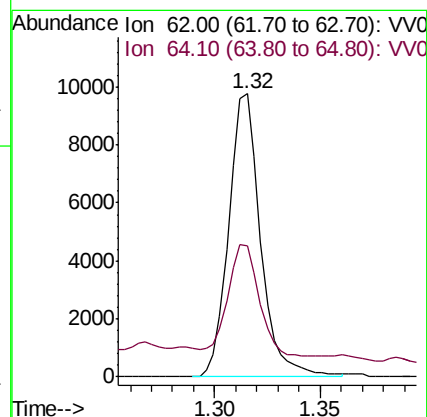
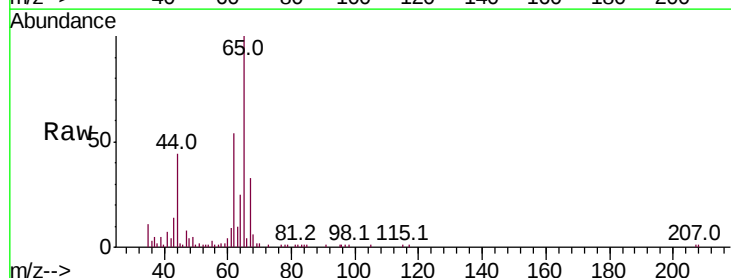
Acq: 13 Sep 2018 22:52

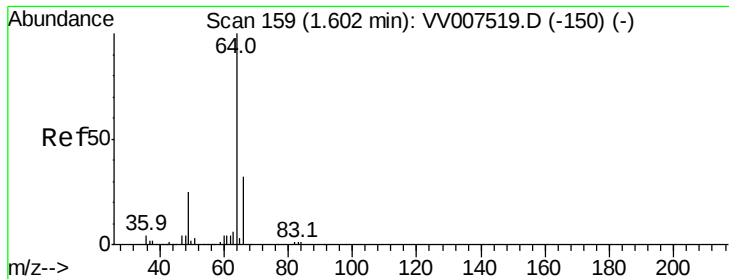
Tgt Ion: 62 Resp: 10219

Ion Ratio Lower Upper

62 100

64 46.3 24.4 45.2#





#8

Chloroethane

Concen: 0.183 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.01 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

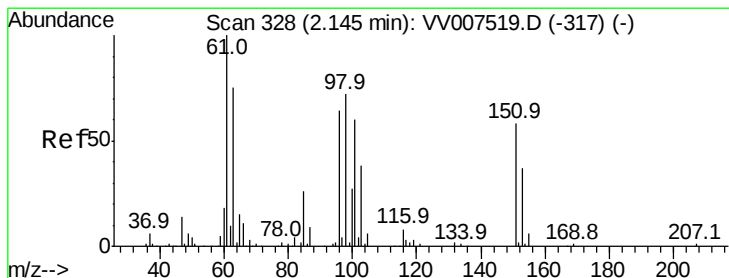
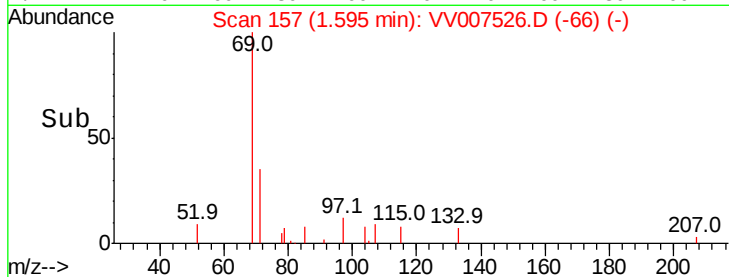
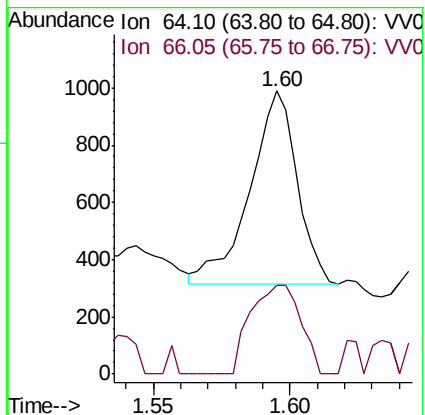
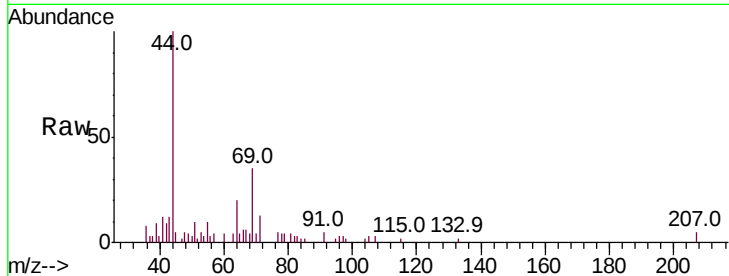
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 813

Ion Ratio Lower Upper

64 100

66 31.1 24.3 45.1



#12

1,1-Dichloroethene

Concen: 1.148 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

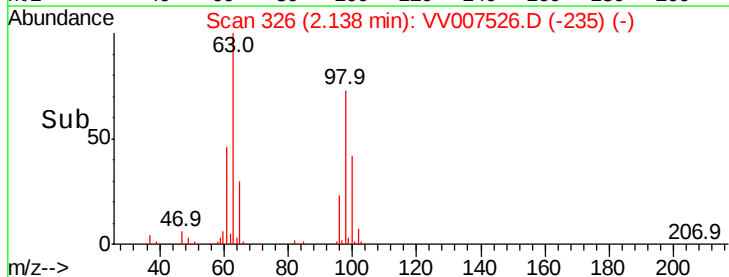
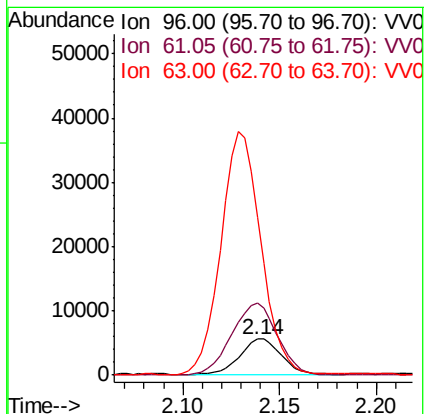
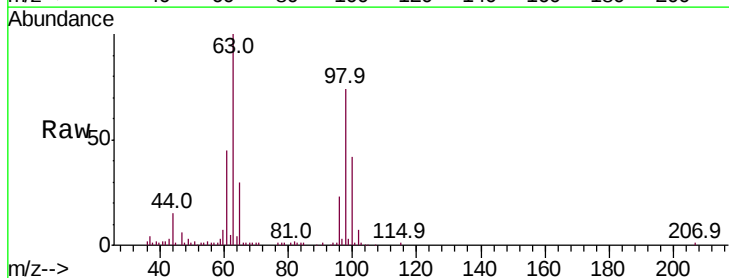
Tgt Ion: 96 Resp: 8082

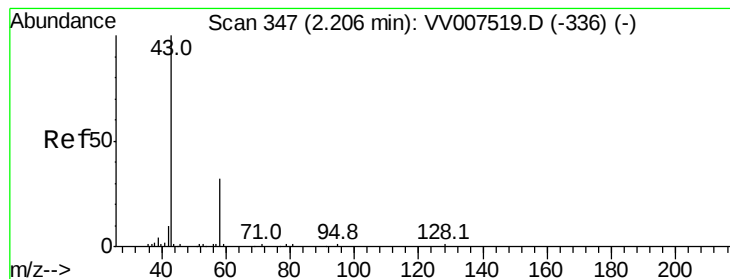
Ion Ratio Lower Upper

96 100

61 198.4 114.8 213.2

63 437.3 81.8 151.8#





#13

Acetone

Concen: 9.000 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.07 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

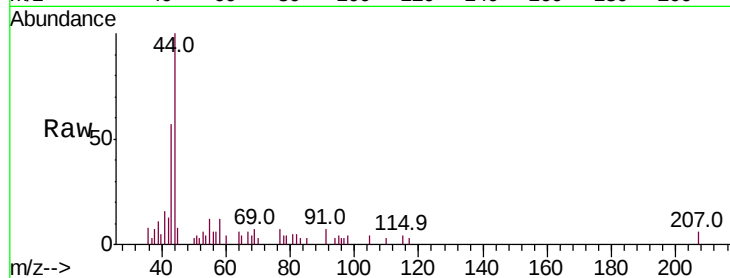
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 5940

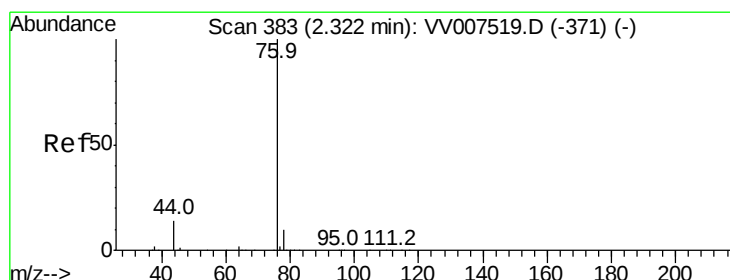
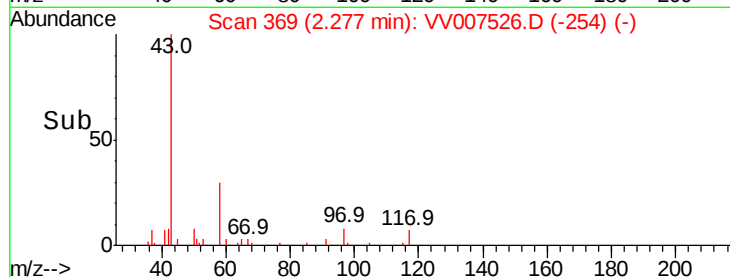
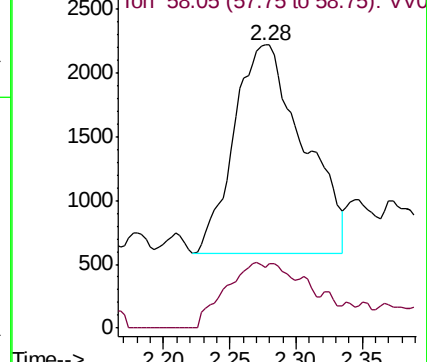
Ion Ratio Lower Upper

43 100

58 18.1 0.0 63.4



Abundance Ion 43.05 (42.75 to 43.75): VV007519.D (-336) (-)



#14

Carbon disulfide

Concen: 0.628 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV007526.D

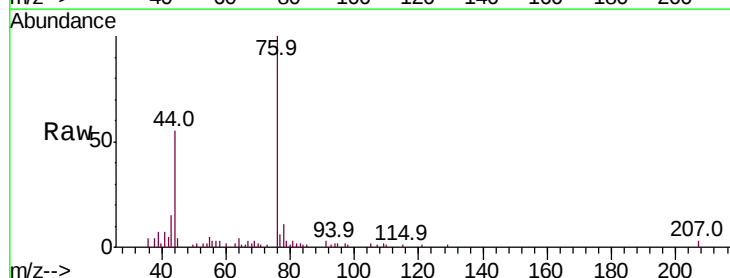
Acq: 13 Sep 2018 22:52

Tgt Ion: 76 Resp: 12940

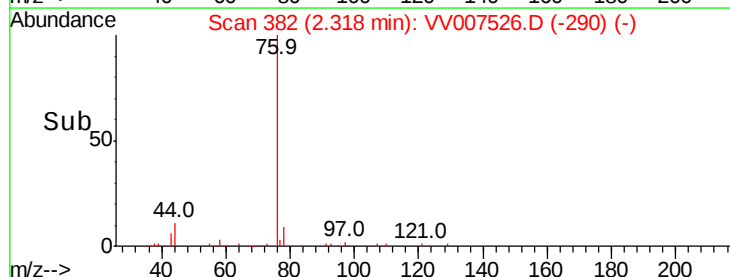
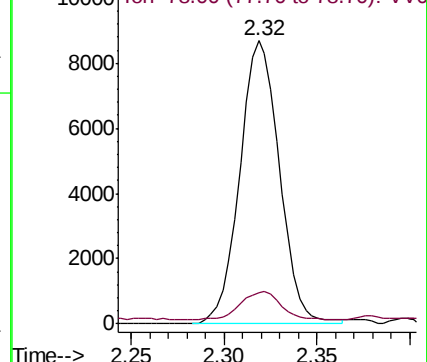
Ion Ratio Lower Upper

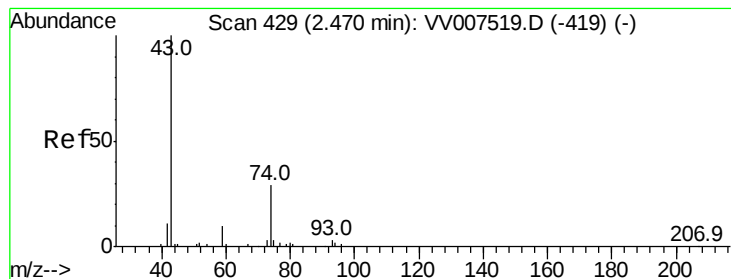
76 100

78 11.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV007519.D (-371) (-)





#15

Methvl Acetate

Concen: 0.150 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.01 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

Instrument :

MSVOA_V

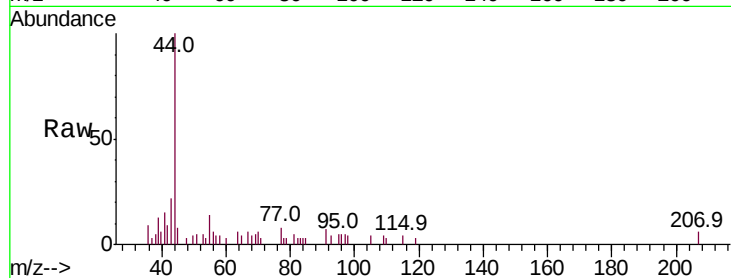
ClientSampled :

Tot Ion: 43 Resp: 272

Ion Ratio Lower Upper

43 100

74 15.4 25.4 38.2#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.46

800

600

400

200

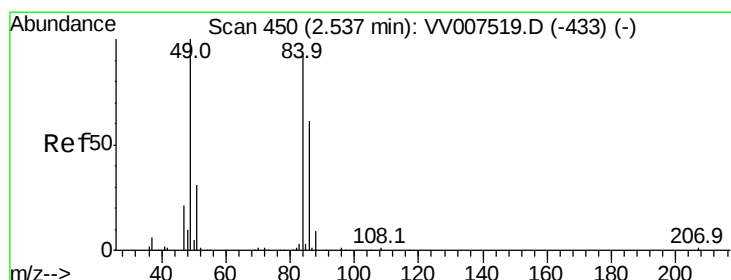
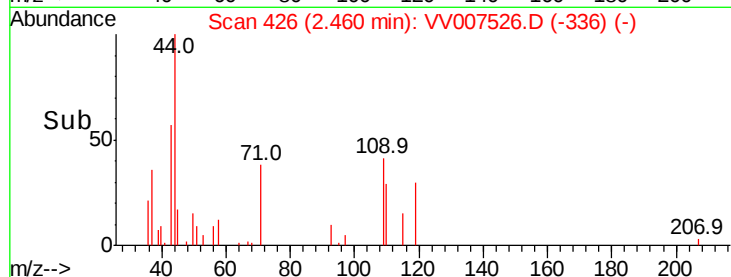
0

Time-->

2.44

2.46

2.48



#16

Methylene chloride

Concen: 2.349 ug/L

RT: 2.54 min Scan# 452

Delta R.T. 0.01 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

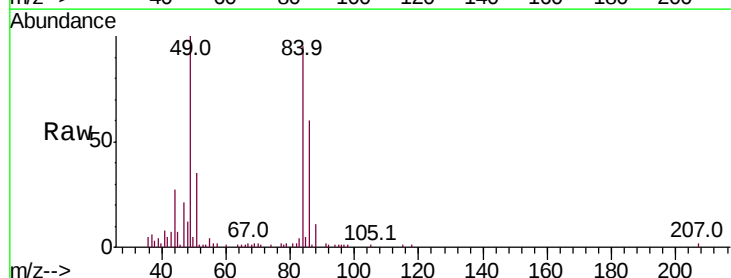
Tgt Ion: 84 Resp: 17871

Ion Ratio Lower Upper

84 100

86 63.1 43.7 81.1

49 105.3 76.8 142.6



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

15000

10000

5000

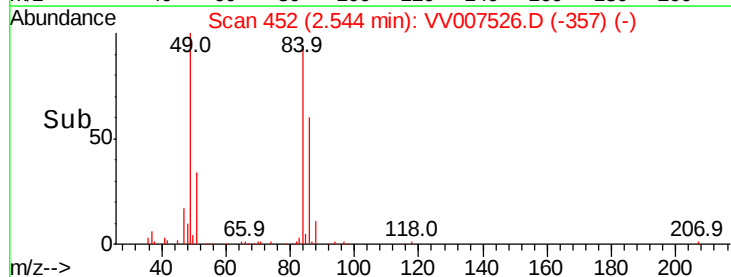
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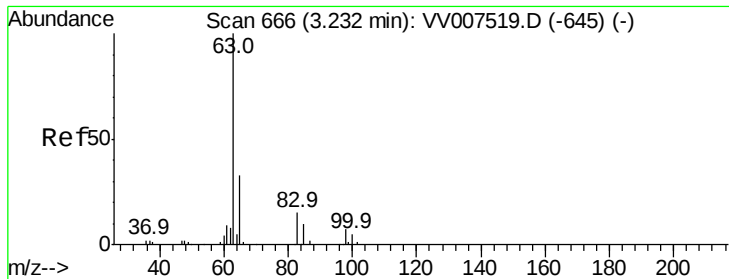
Time-->

2.50

2.55

2.60





#19

1,1-Dichloroethane

Concen: 0.486 ug/L

RT: 3.23 min Scan# 667

Delta R.T. 0.00 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

Instrument :
MSVOA_V
ClientSampleId :

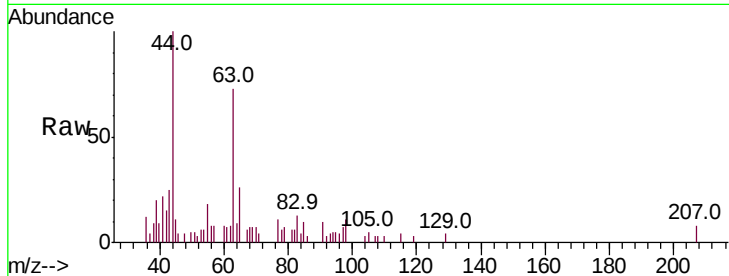
Tot Ion: 63 Resp: 5432

Ion Ratio Lower Upper

63 100

65 35.3 22.5 41.9

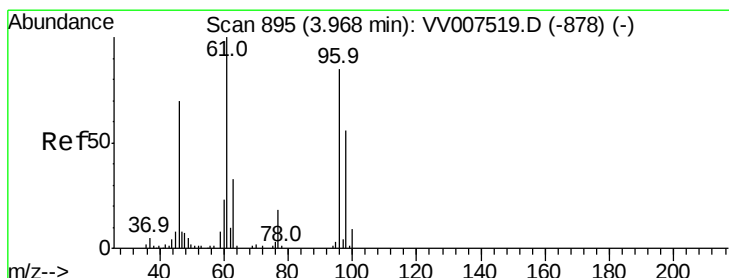
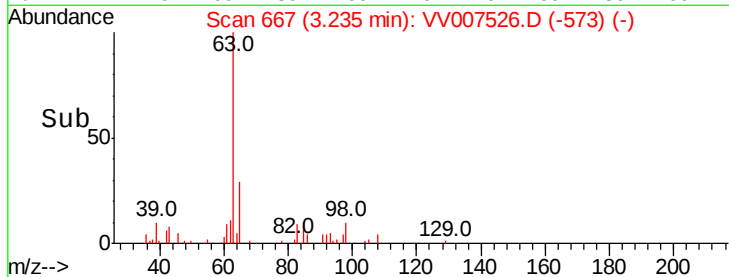
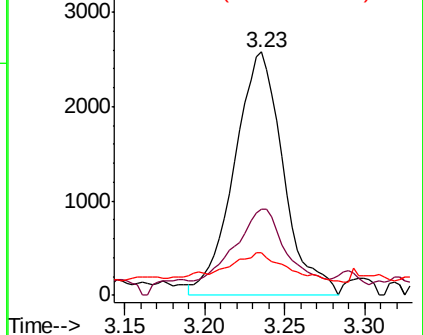
83 17.6 10.4 19.2



Abundance Ion 63.10 (62.80 to 63.80): VV007519.D (-645) (-)

Ion 65.10 (64.80 to 65.80): VV007519.D (-645) (-)

Ion 83.05 (82.75 to 83.75): VV007519.D (-645) (-)



#22

cis-1,2-Dichloroethene

Concen: 9.529 ug/L

RT: 3.96 min Scan# 893

Delta R.T. -0.01 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

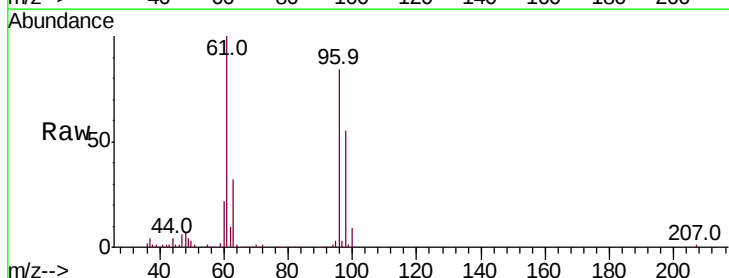
Tgt Ion: 96 Resp: 71935

Ion Ratio Lower Upper

96 100

61 118.4 85.3 158.5

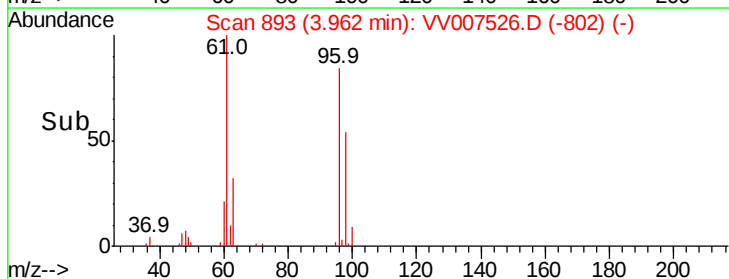
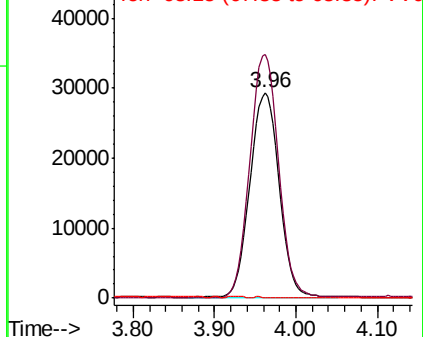
68 0.0 0.0 0.0

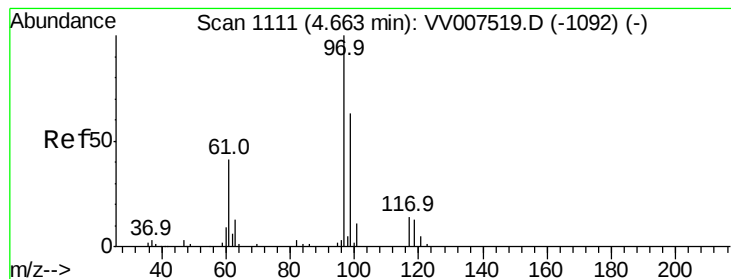


Abundance Ion 96.00 (95.70 to 96.70): VV007519.D (-878) (-)

Ion 61.05 (60.75 to 61.75): VV007519.D (-878) (-)

Ion 68.15 (67.85 to 68.85): VV007519.D (-878) (-)





#29

1,1,1-Trichloroethane

Concen: 4.139 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

Instrument :
MSVOA_V
ClientSampled :

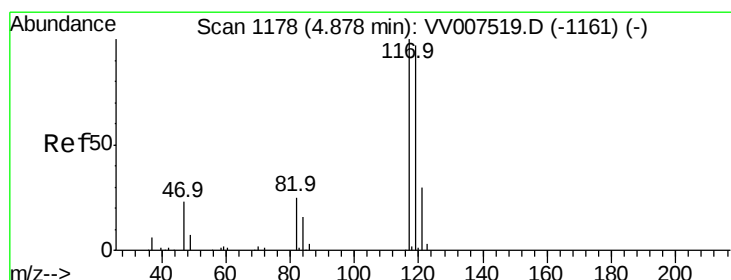
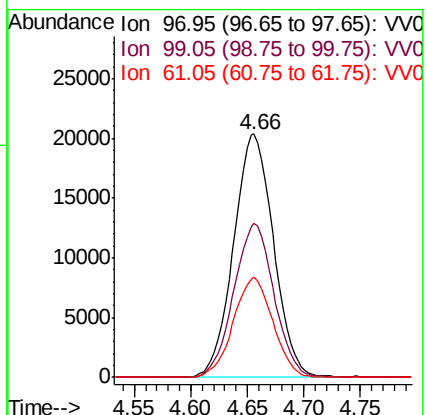
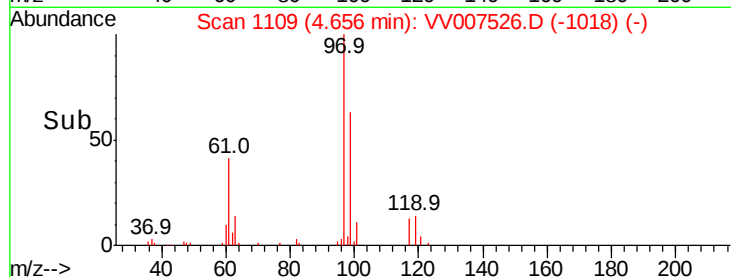
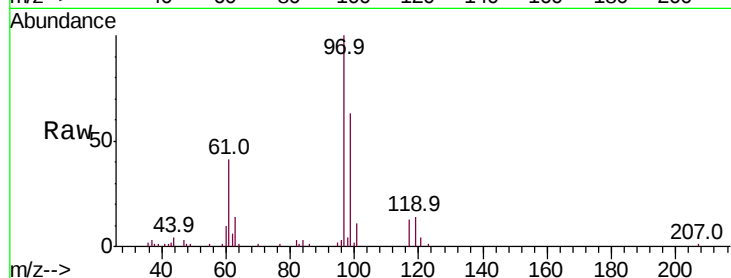
Tot Ion: 97 Resp: 50015

Ion Ratio Lower Upper

97 100

99 63.7 50.7 76.1

61 40.6 32.5 48.7



#31

Carbon tetrachloride

Concen: 0.560 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.22 min

Lab File: VV007526.D

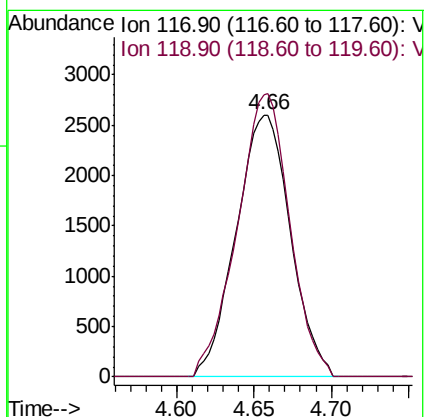
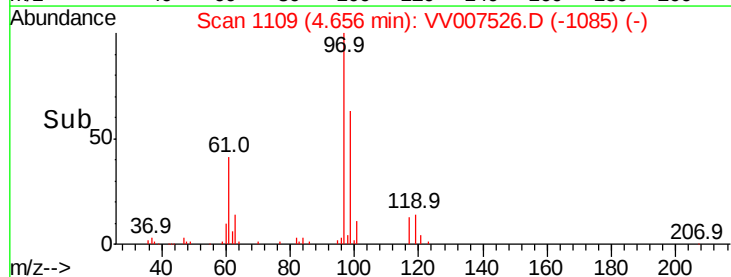
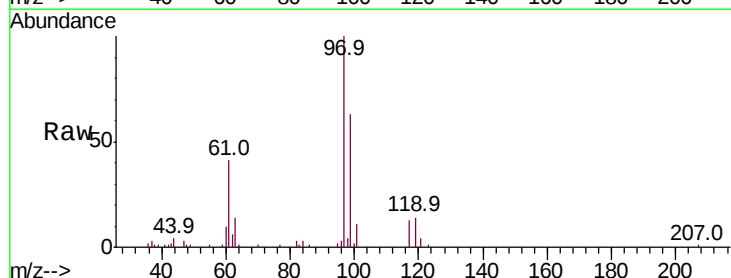
Acq: 13 Sep 2018 22:52

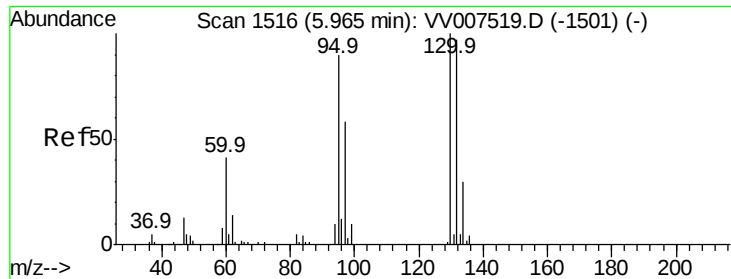
Tgt Ion: 117 Resp: 6353

Ion Ratio Lower Upper

117 100

119 104.3 77.5 116.3

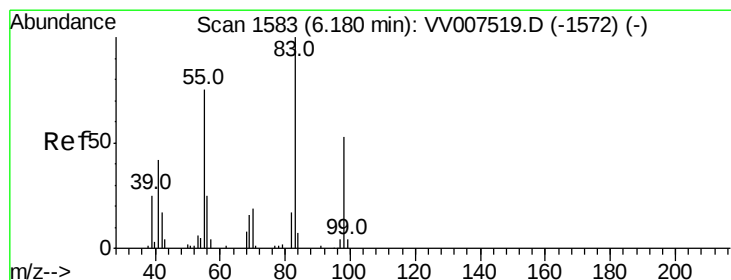
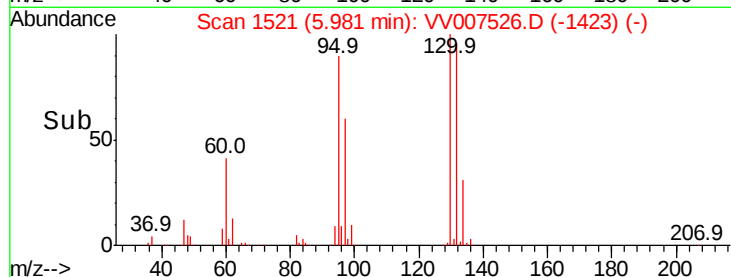
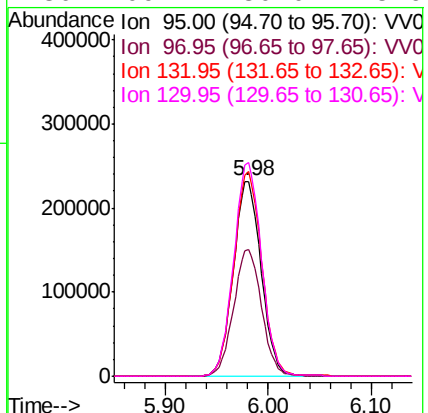
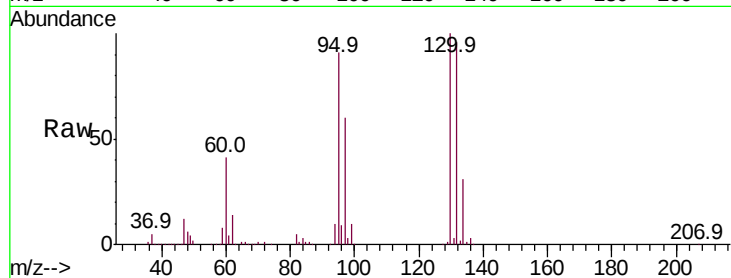




#34
 Trichloroethene
 Concen: 55.611 ug/L
 RT: 5.98 min Scan# 1521
 Delta R.T. 0.02 min
 Lab File: VV007526.D
 Acq: 13 Sep 2018 22:52

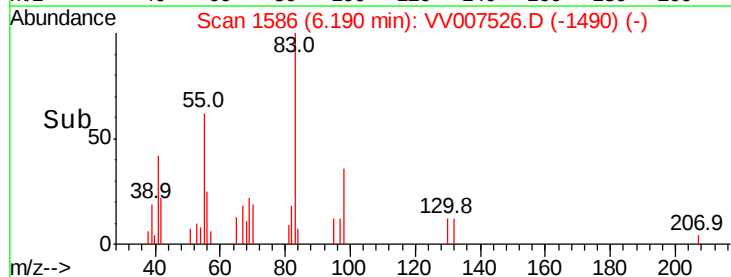
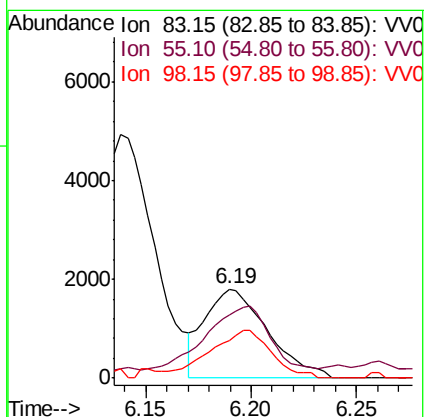
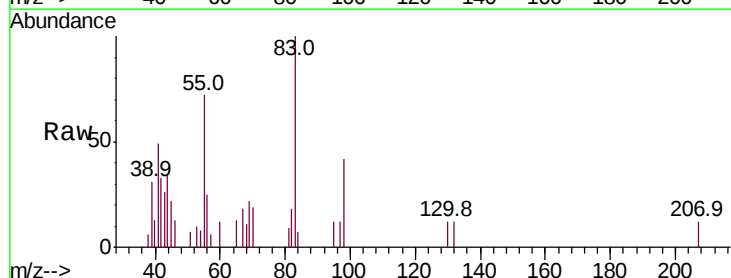
Instrument :
 MSVOA_V
 ClientSampleId :

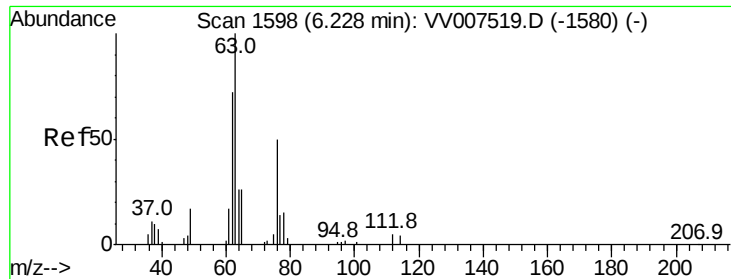
Tot Ion: 95 Resp: 437619
 Ion Ratio Lower Upper
 95 100
 97 65.4 45.5 84.5
 132 104.9 74.9 139.1
 130 109.7 80.0 148.6



#35
 Methylcyclohexane
 Concen: 0.306 ug/L
 RT: 6.19 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VV007526.D
 Acq: 13 Sep 2018 22:52

Tgt Ion: 83 Resp: 3719
 Ion Ratio Lower Upper
 83 100
 55 71.8 55.0 82.4
 98 53.3 37.6 56.4





#37

1,2-Dichloropropane

Concen: 0.710 ug/L

RT: 6.14 min Scan# 1570

Delta R.T. -0.09 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

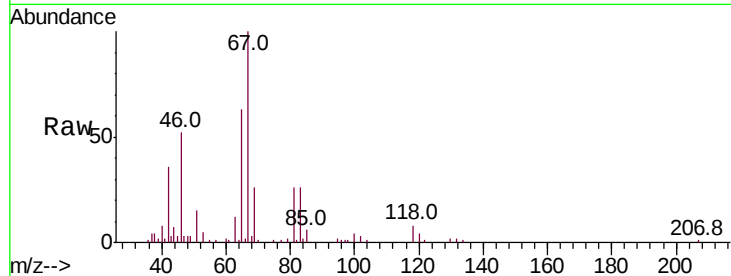
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 63 Resp: 4488

Ion Ratio Lower Upper

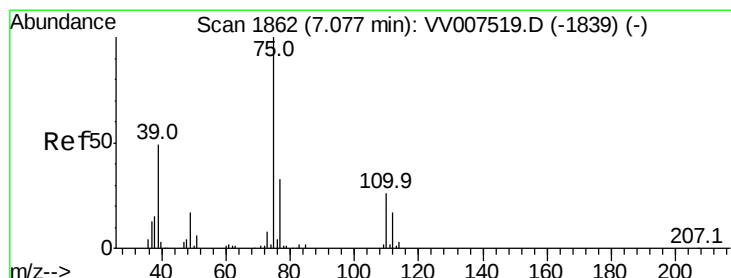
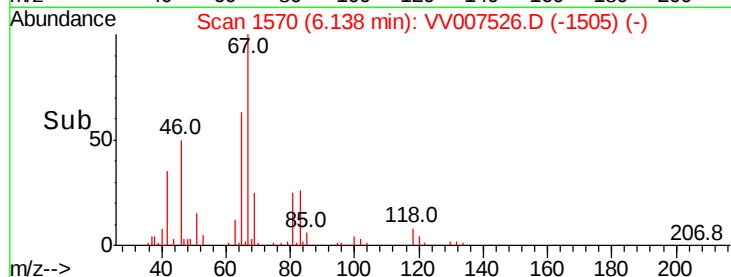
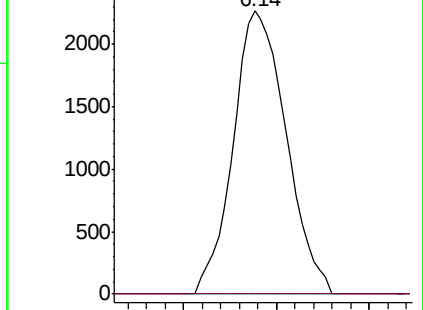
63 100

112 0.0 4.1 6.1#



Abundance Ion 63.10 (62.80 to 63.80): VV007519.D (-1580) (-)

Ion 112.10 (111.80 to 112.80): VV007519.D (-1580) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.136 ug/L

RT: 7.05 min Scan# 1853

Delta R.T. -0.03 min

Lab File: VV007526.D

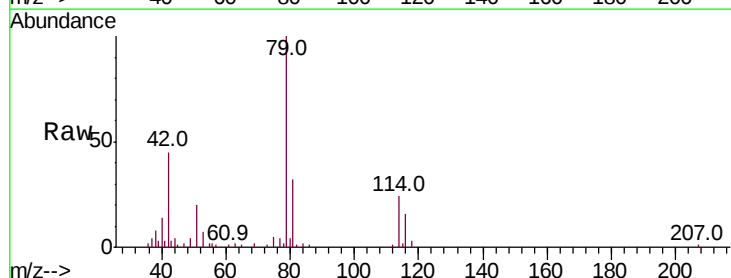
Acq: 13 Sep 2018 22:52

Tgt Ion: 75 Resp: 1364

Ion Ratio Lower Upper

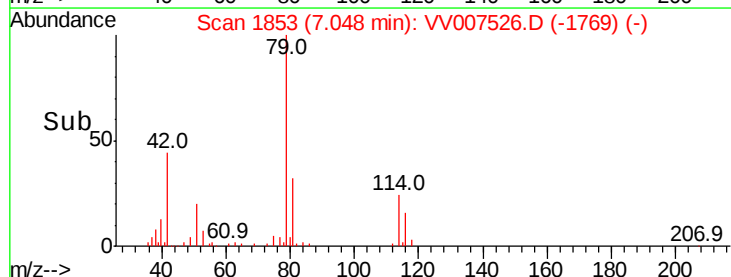
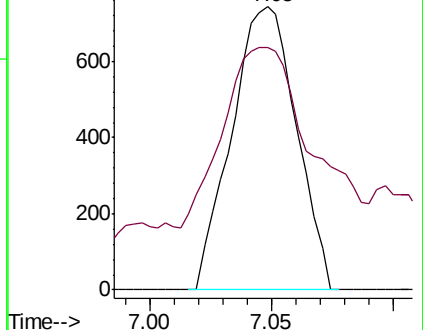
75 100

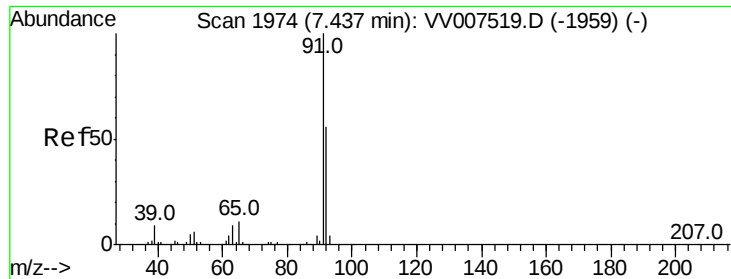
77 85.9 22.0 41.0#



Abundance Ion 75.05 (74.75 to 75.75): VV007519.D (-1839) (-)

Ion 77.05 (76.75 to 77.75): VV007519.D (-1839) (-)





#42

Toluene

Concen: 0.287 ug/L

RT: 7.44 min Scan# 1976

Delta R.T. 0.01 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

Instrument :

MSVOA_V

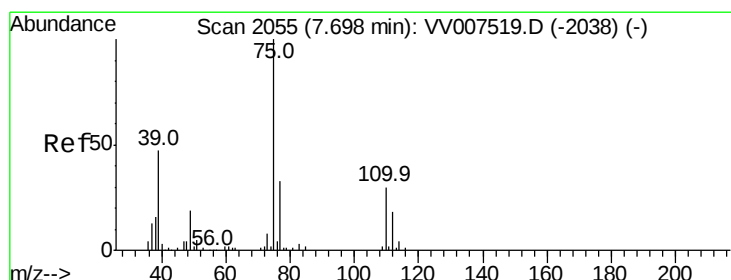
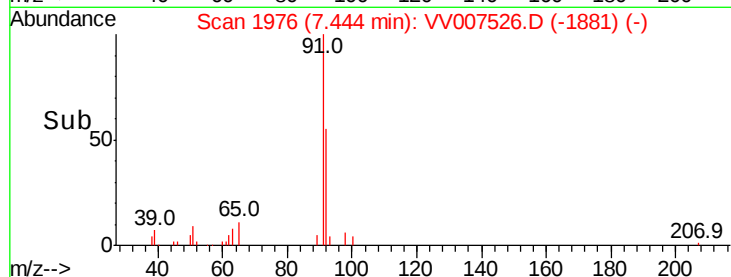
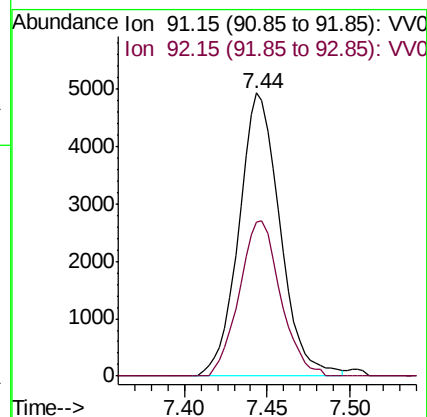
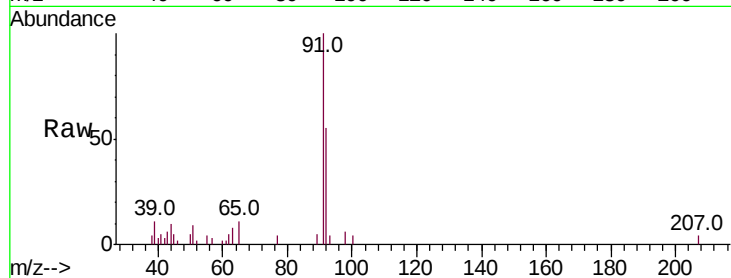
ClientSampled :

Tot Ion: 91 Resp: 8497

Ion Ratio Lower Upper

91 100

92 54.6 40.3 74.8



#44

trans-1,3-Dichloropropene

Concen: 0.107 ug/L

RT: 7.68 min Scan# 2049

Delta R.T. -0.02 min

Lab File: VV007526.D

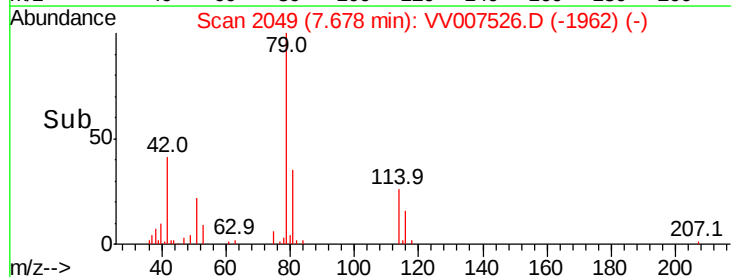
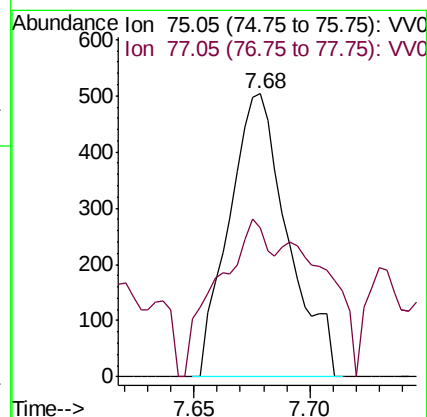
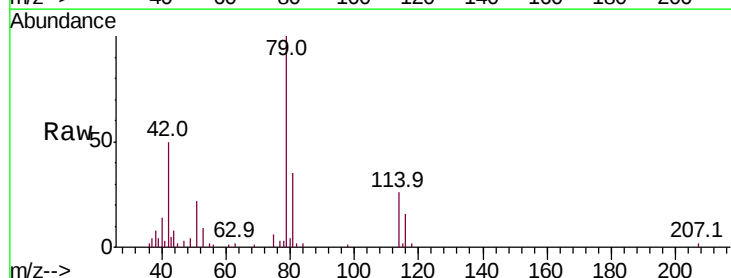
Acq: 13 Sep 2018 22:52

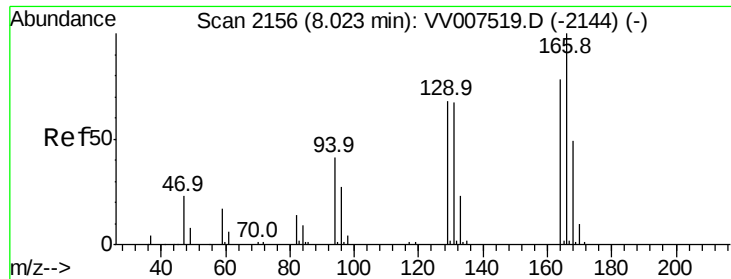
Tgt Ion: 75 Resp: 883

Ion Ratio Lower Upper

75 100

77 52.7 23.4 43.4#

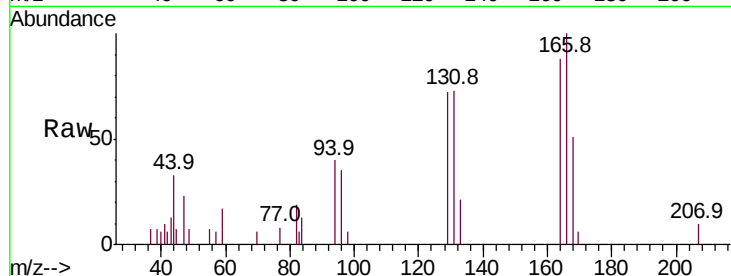




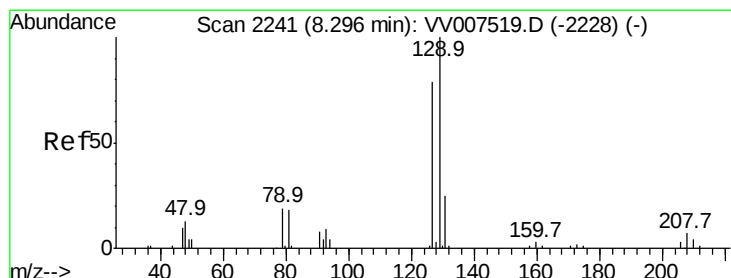
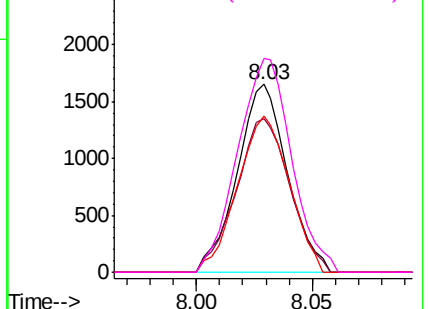
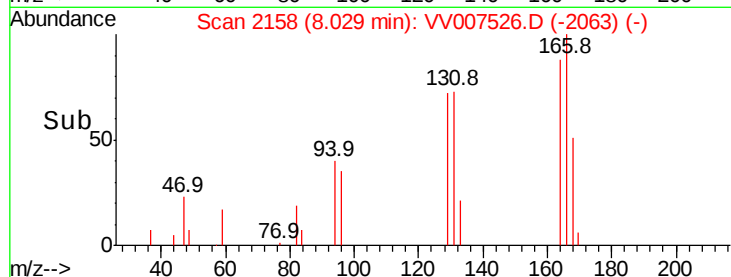
#47
Tetrachloroethene
Concen: 0.351 ug/L
RT: 8.03 min Scan# 2158
Delta R.T. 0.01 min
Lab File: VV007526.D
Acq: 13 Sep 2018 22:52

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 2483
Ion Ratio Lower Upper
164 100
129 81.6 61.9 115.1
131 82.9 62.1 115.3
166 113.6 90.4 167.8

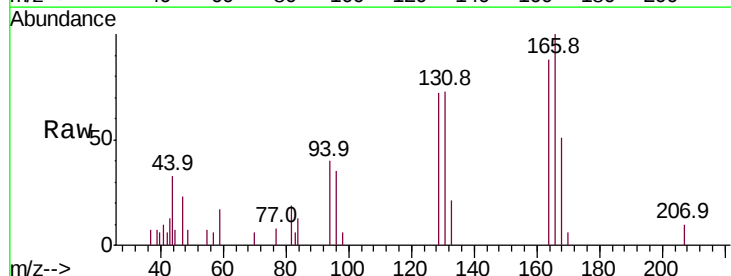


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

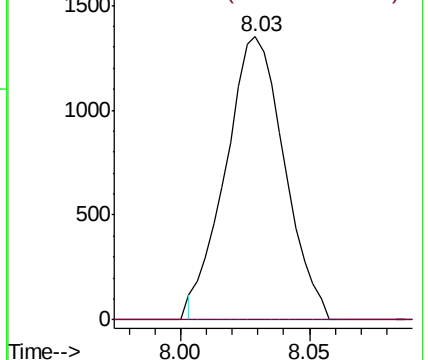
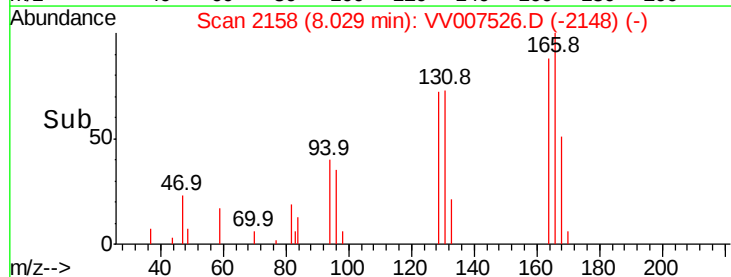


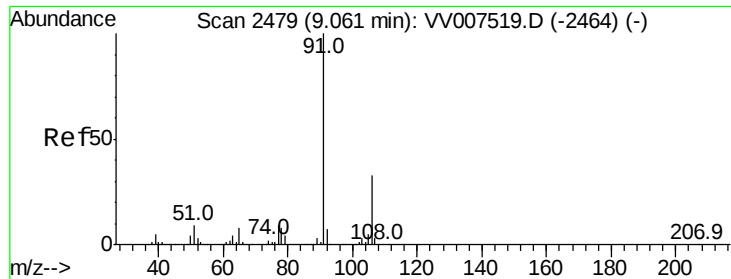
#49
Dibromochloromethane
Concen: 0.319 ug/L
RT: 8.03 min Scan# 2158
Delta R.T. -0.27 min
Lab File: VV007526.D
Acq: 13 Sep 2018 22:52

Tgt Ion:129 Resp: 2145
Ion Ratio Lower Upper
129 100
127 0.0 53.8 100.0#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#52

Ethylbenzene

Concen: 0.537 ug/L

RT: 9.06 min Scan# 2480

Delta R.T. 0.00 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

Instrument :

MSVOA_V

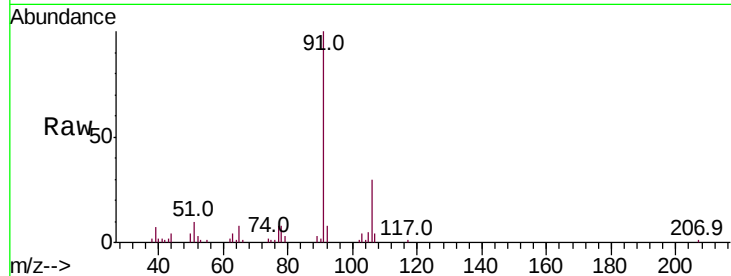
ClientSampleId :

Tot Ion: 91 Resp: 17939

Ion Ratio Lower Upper

91 100

106 30.0 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VV007519.D (-2464) (-)

Ion 106.15 (105.85 to 106.85): VV007519.D (-2464) (-)

9.06

12000

10000

8000

6000

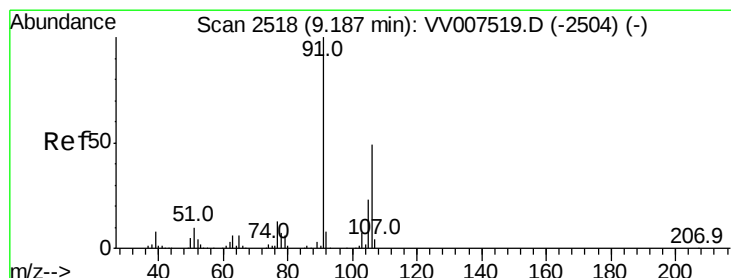
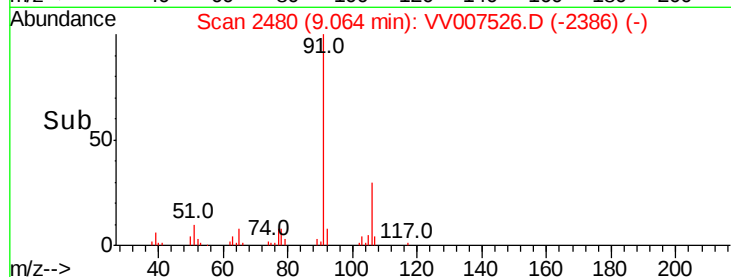
4000

2000

0

9.00 9.05 9.10 9.15

Time-->



#53

m,p-xylene

Concen: 2.166 ug/L

RT: 9.19 min Scan# 2518

Delta R.T. -0.00 min

Lab File: VV007526.D

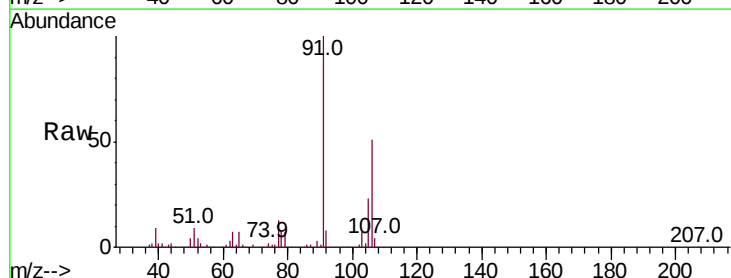
Acq: 13 Sep 2018 22:52

Tgt Ion:106 Resp: 28015

Ion Ratio Lower Upper

106 100

91 197.1 137.2 254.8



Abundance Ion 106.15 (105.85 to 106.85): VV007519.D (-2504) (-)

Ion 91.15 (90.85 to 91.85): VV007519.D (-2504) (-)

9.19

40000

30000

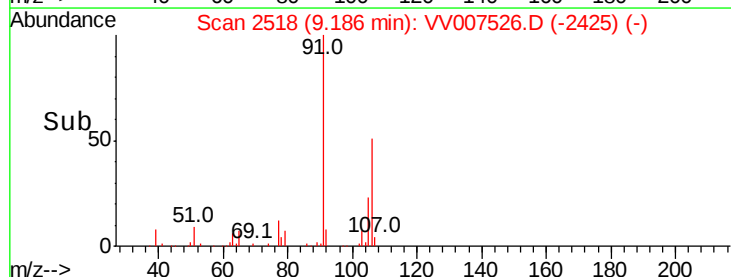
20000

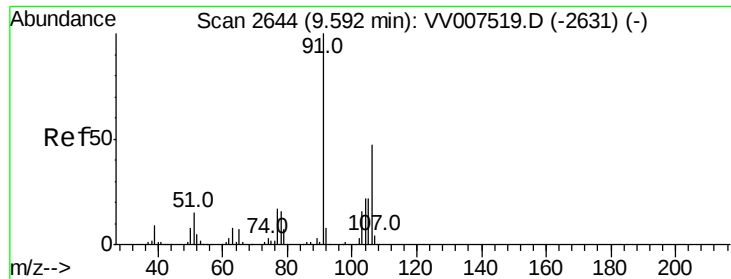
10000

0

9.10 9.15 9.20 9.25

Time-->





#54

o-xylene

Concen: 0.771 ug/L

RT: 9.59 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

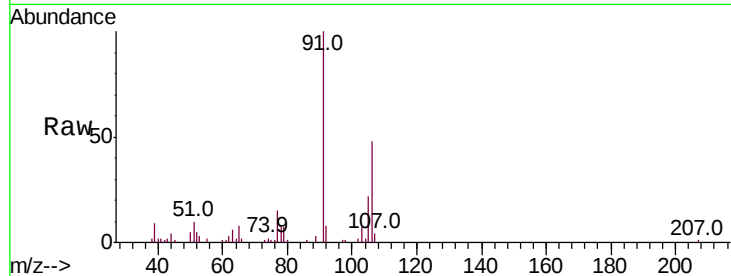
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 9761

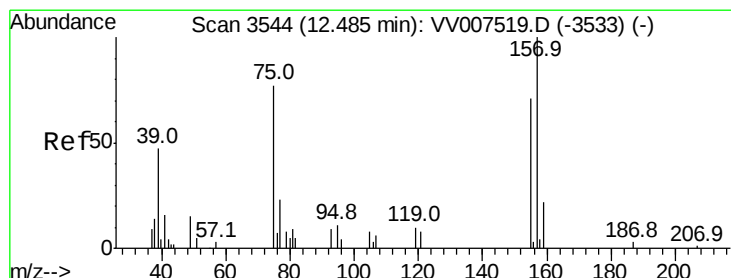
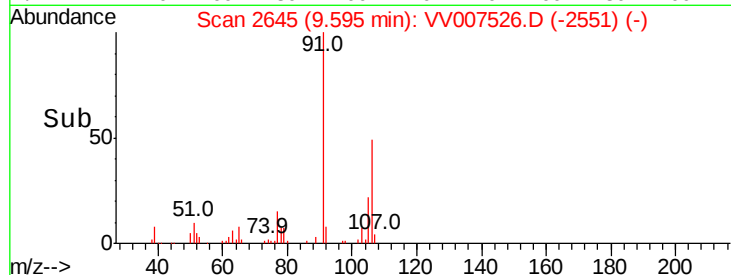
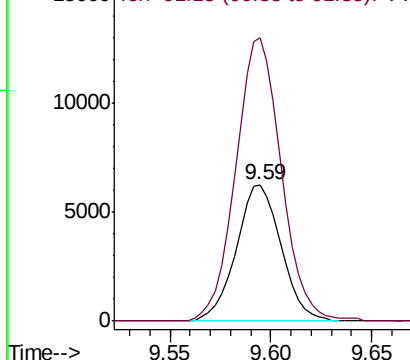
Ion Ratio Lower Upper

106 100

91 207.3 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0



#66

1,2-Dibromo-3-chloropropane

Concen: 0.348 ug/L

RT: 12.46 min Scan# 3537

Delta R.T. -0.02 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

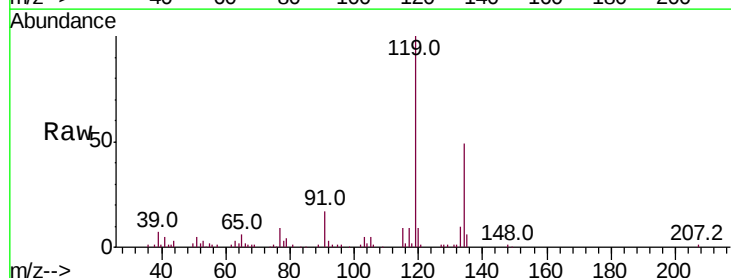
Tgt Ion: 75 Resp: 288

Ion Ratio Lower Upper

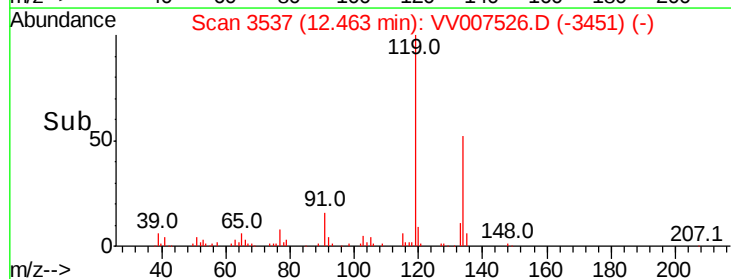
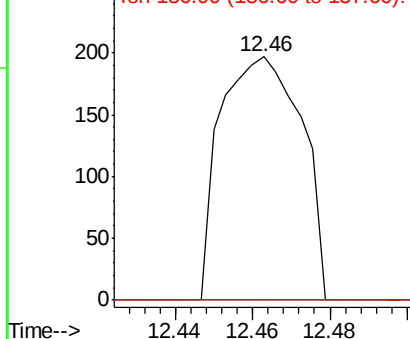
75 100

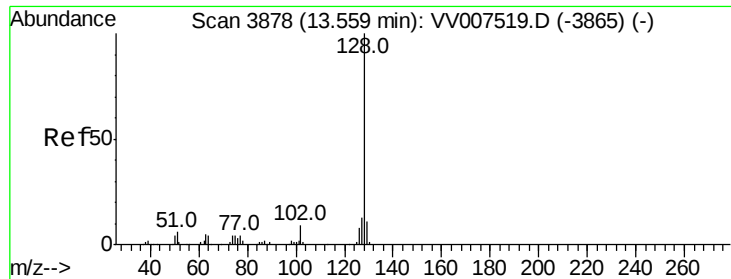
155 0.0 74.6 111.8#

157 0.0 97.4 146.2#



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: 1.349 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. -0.00 min

Lab File: VV007526.D

Acq: 13 Sep 2018 22:52

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:128 Resp: 15858

Ion Ratio Lower Upper

128 100

129 22.4 8.5 12.7#

127 17.0 10.5 15.7#

