

Data File : VV008065.D
Acq On : 04 Oct 2018 16:23
Operator : SY/MD
Sample : J5246-07
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0J75

Quant Time: Oct 05 05:22:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 05 05:20:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	81684	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	76494	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	37978	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	18463	4.22	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.40%
7) Chloroethane-d5	1.59	69	17003	4.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.80%
11) 1,1-Dichloroethene-d2	2.15	63	164113	16.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	332.00%#
20) 2-Butanone-d5	3.96	46	72158	54.78	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.56%
24) Chloroform-d	4.41	84	49880	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.00%
26) 1,2-Dichloroethane-d4	5.09	65	26995	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
32) Benzene-d6	5.10	84	92444	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
36) 1,2-Dichloropropane-d6	6.12	67	31057	5.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.20%
41) Toluene-d8	7.36	98	83098	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
43) trans-1,3-Dichloropropene-	7.67	79	10240	4.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.80%
46) 2-Hexanone-d5	8.14	63	49269	50.07	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.14%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	22922	5.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	36109	4.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds

						Qvalue
5) Vinyl chloride	1.33	62	3731	0.572	ug/L	94
8) Chloroethane	1.33	64	1353	0.344	ug/L	88
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	915	0.151	ug/L #	22
12) 1,1-Dichloroethene	2.15	96	263761	48.851	ug/L #	76
13) Acetone	2.21	43	3329	3.469	ug/L	99
17) Methyl tert-butyl Ether	2.82	73	3919	0.294	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	1236	0.208	ug/L	83
19) 1,1-Dichloroethane	3.23	63	23171	2.282	ug/L	100
22) cis-1,2-Dichloroethene	3.97	96	57878	9.604	ug/L	98
25) Chloroform	4.43	83	3856	0.351	ug/L	95
27) 1,2-Dichloroethane	5.18	62	1117	0.158	ug/L #	77
29) 1,1,1-Trichloroethane	4.67	97	15733	1.710	ug/L	98
31) Carbon tetrachloride	4.66	117	2051	0.253	ug/L	95
34) Trichloroethene	5.96	95	106174	16.928	ug/L	95
35) Methylcyclohexane	6.13	83	7406	0.787	ug/L #	18
37) 1,2-Dichloropropane	6.13	63	3553	0.635	ug/L #	87
39) cis-1,3-Dichloropropene	7.04	75	839	0.112	ug/L #	52

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV100418\
Quantitation Report (Not Reviewed)

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Oct 05 05:20:32 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	7.89	97	1322	0.327	ug/L	93
47) Tetrachloroethene	8.02	164	78136	13.444	ug/L	95
49) Dibromochloromethane	8.02	129	66022	14.322	ug/L #	12
66) 1,2-Dibromo-3-chloropropan	12.30	75	171	0.284	ug/L #	1

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

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Acq On : 04 Oct 2018 16:23

Operator : SY/MD

Sample : J5246-07

Misc : 25.0 mL/MSVOA_V/WATER

```
ALS Vial      : 12      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
C0J75

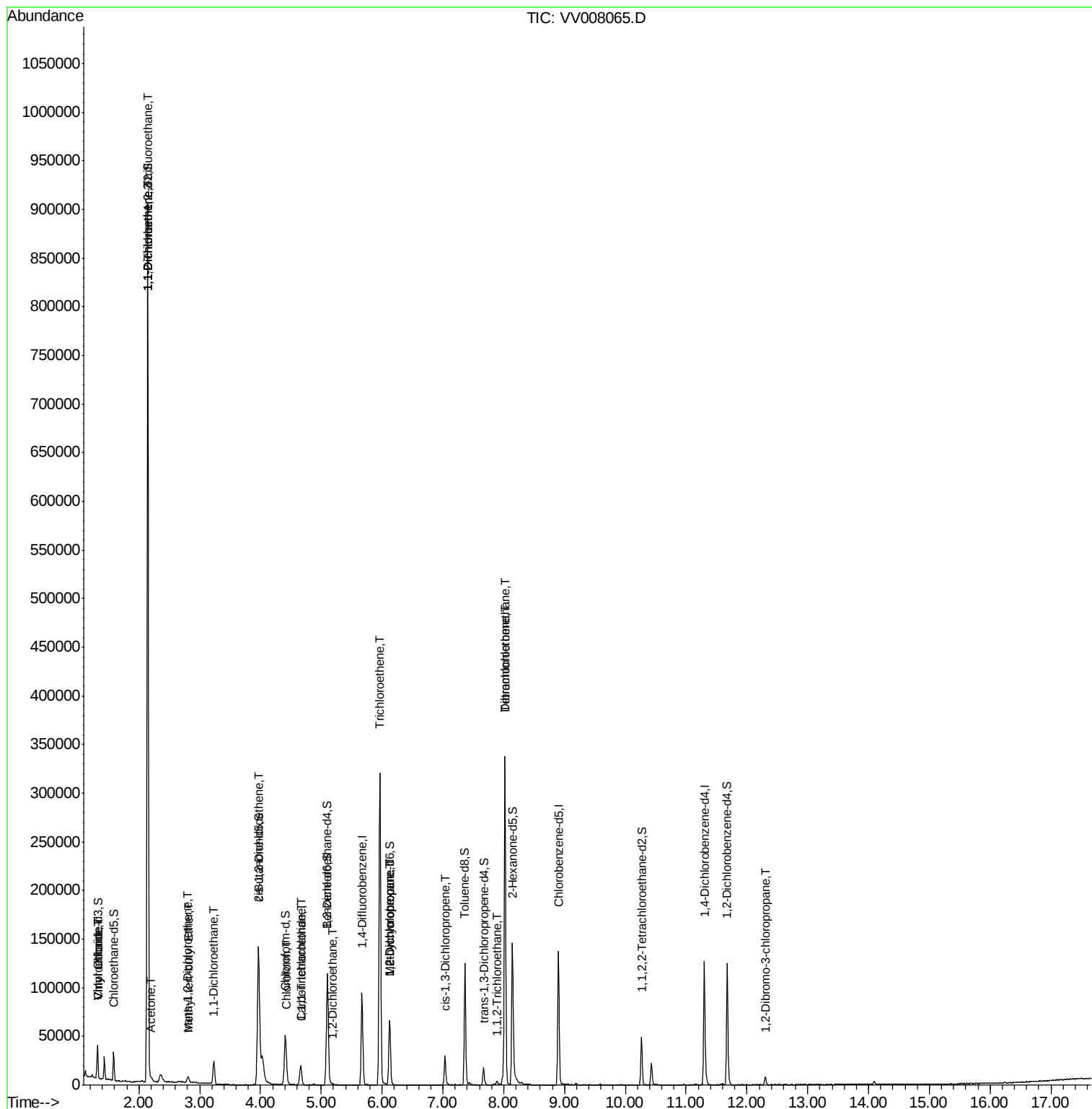
Quant Time: Oct 05 05:22:26 2018

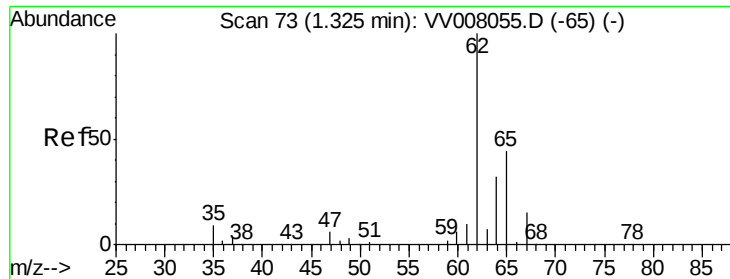
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Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Oct 05 05:20:32 2018

Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.572 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Instrument :

MSVOA_V

ClientSampleId :

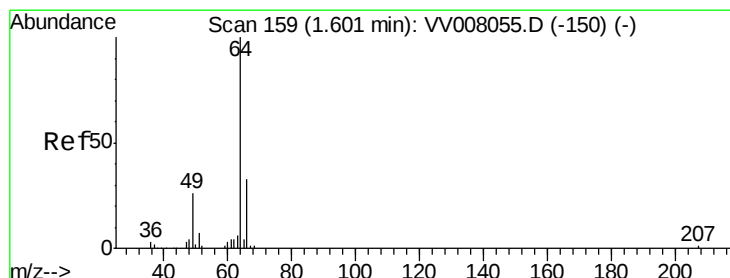
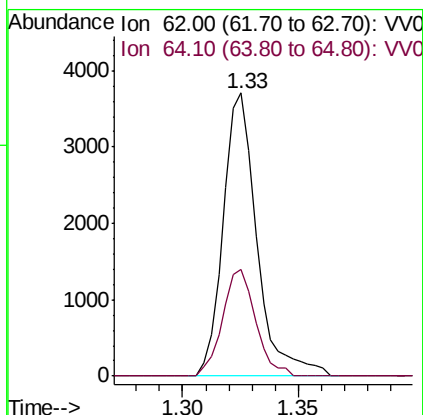
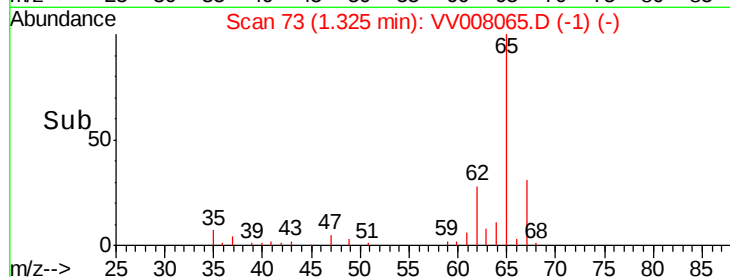
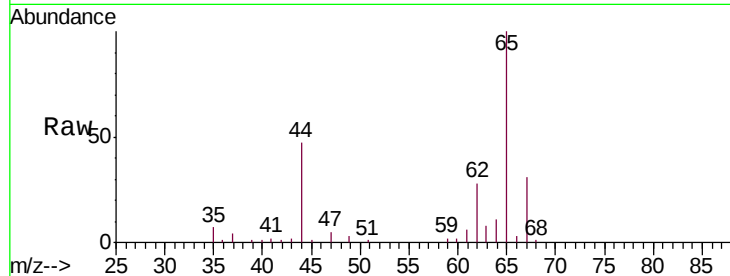
C0J75

Tgt Ion: 62 Resp: 3731

Ion Ratio Lower Upper

62 100

64 37.5 24.0 44.6



#8

Chloroethane

Concen: 0.344 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.28 min

Lab File: VV008065.D

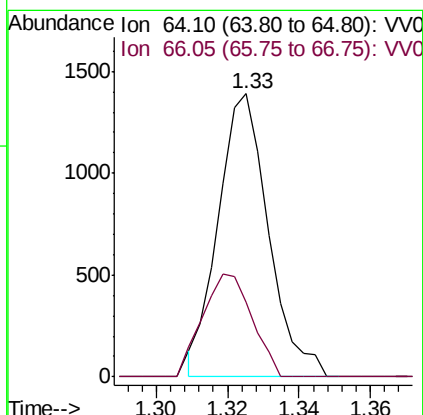
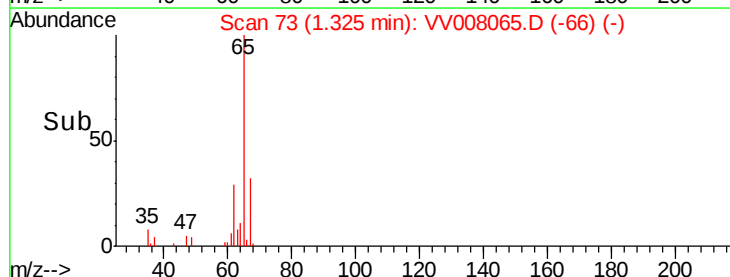
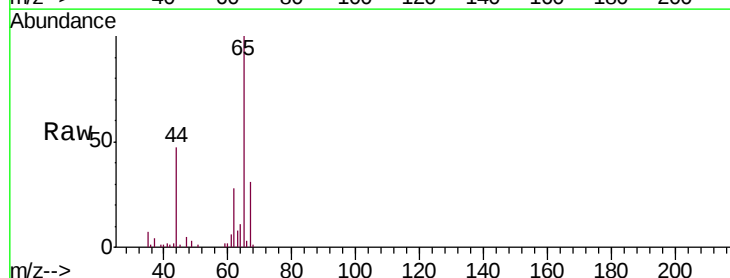
Acq: 04 Oct 2018 16:23

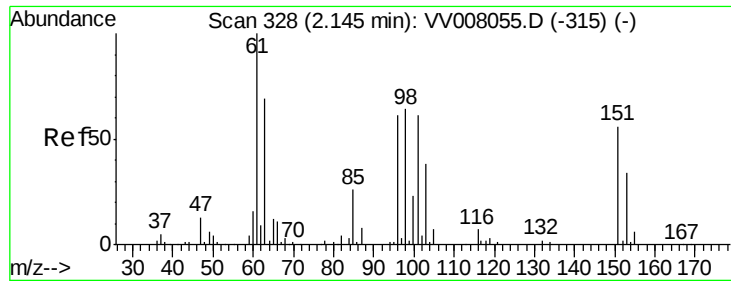
Tgt Ion: 64 Resp: 1353

Ion Ratio Lower Upper

64 100

66 26.3 23.1 42.9





#10

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

Concen: 0.151 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Instrument :

MSVOA_V

ClientSampleId :

C0J75

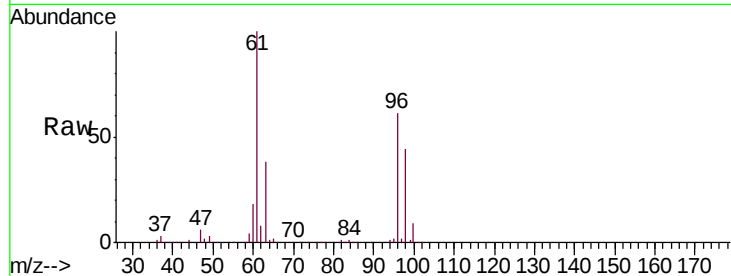
Tgt Ion: 101 Resp: 915

Ion Ratio Lower Upper

101 100

85 17.2 34.7 52.1#

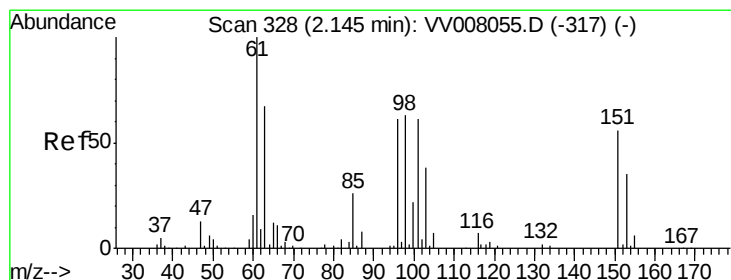
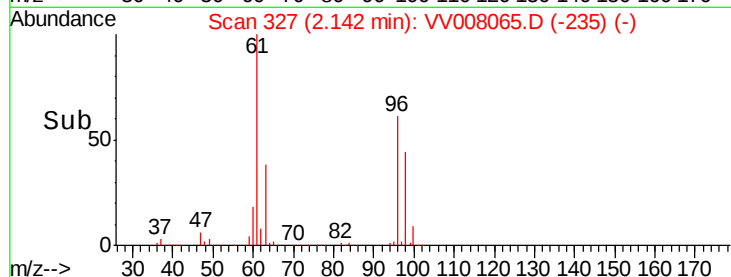
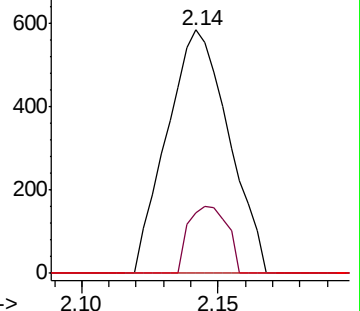
151 0.0 72.2 108.2#



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: 48.851 ug/L

RT: 2.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

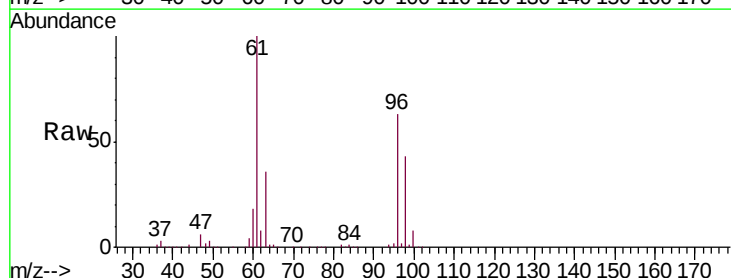
Tgt Ion: 96 Resp: 263761

Ion Ratio Lower Upper

96 100

61 159.0 114.1 211.9

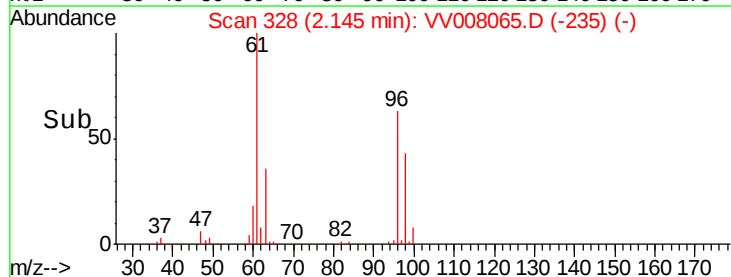
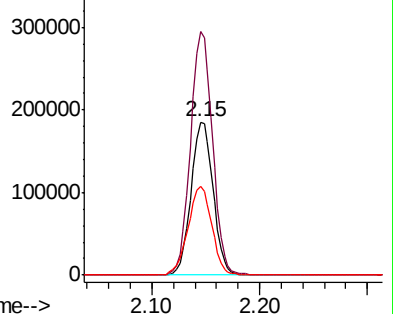
63 57.6 81.5 151.3#

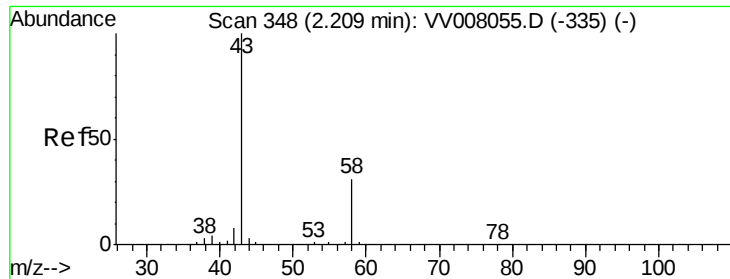


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 3.469 ug/L

RT: 2.21 min Scan# 347

Delta R.T. -0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Instrument :

MSVOA_V

ClientSampleId :

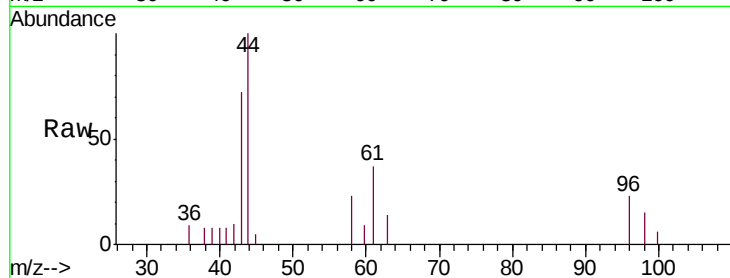
C0J75

Tgt Ion: 43 Resp: 3329

Ion Ratio Lower Upper

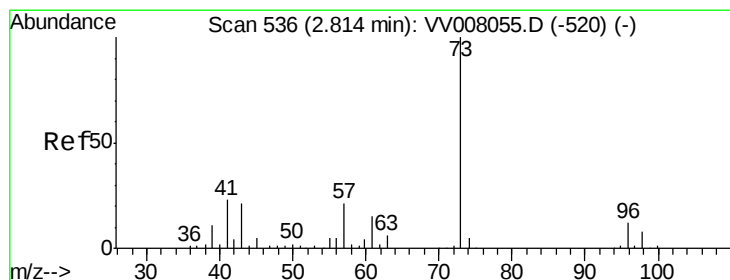
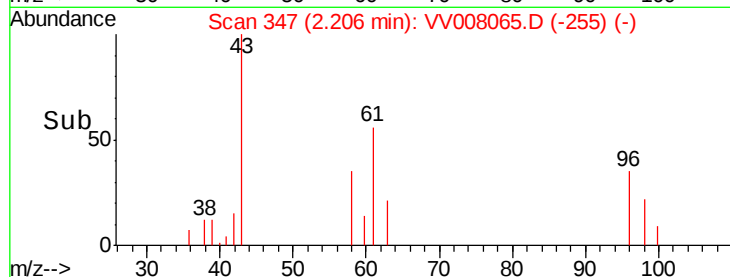
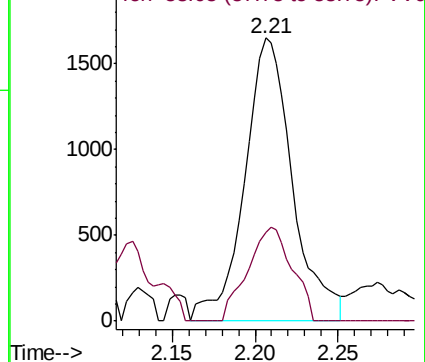
43 100

58 30.5 0.0 62.0



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#17

Methyl tert-butyl Ether

Concen: 0.294 ug/L

RT: 2.82 min Scan# 537

Delta R.T. 0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

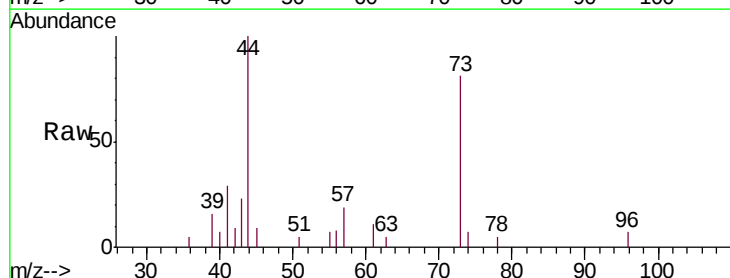
Tgt Ion: 73 Resp: 3919

Ion Ratio Lower Upper

73 100

43 22.9 16.8 25.2

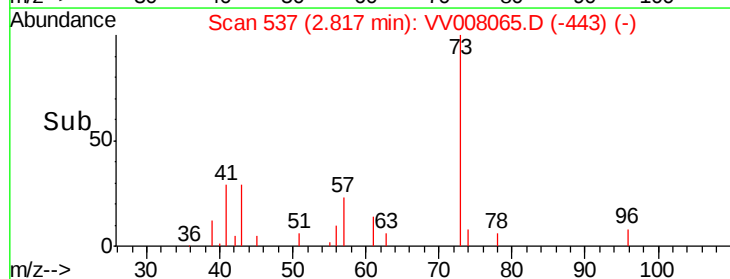
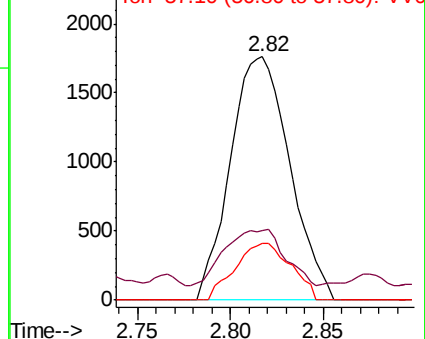
57 21.8 17.6 26.4

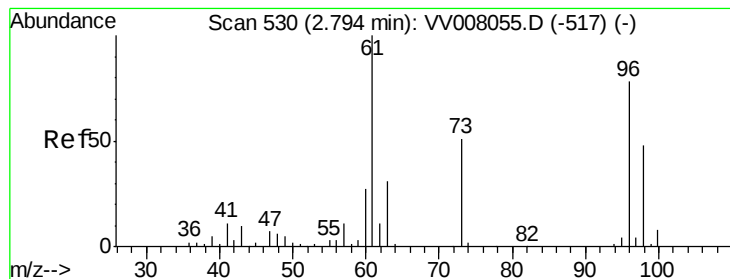


Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0





#18

trans-1,2-Dichloroethene

Concen: 0.208 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Instrument :

MSVOA_V

ClientSampleId :

C0J75

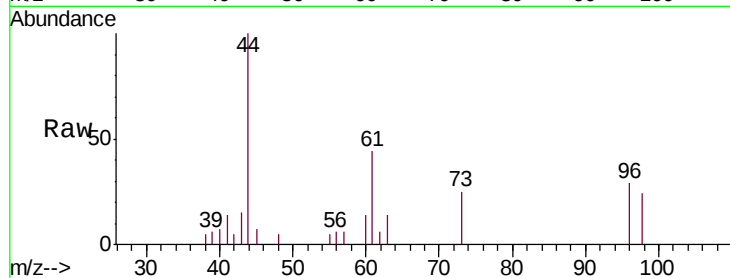
Tgt Ion: 96 Resp: 1236

Ion Ratio Lower Upper

96 100

61 151.6 94.2 175.0

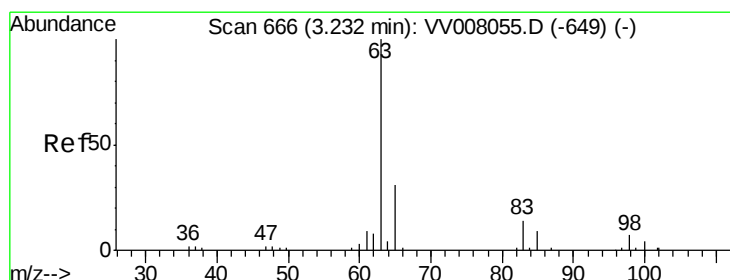
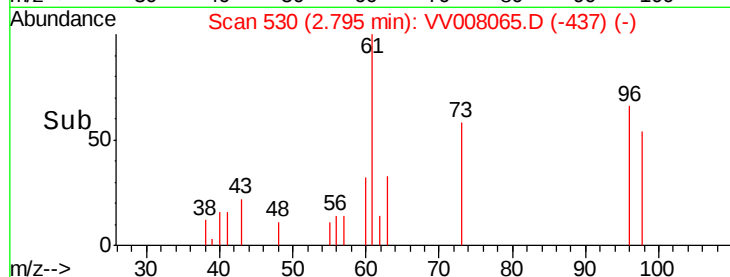
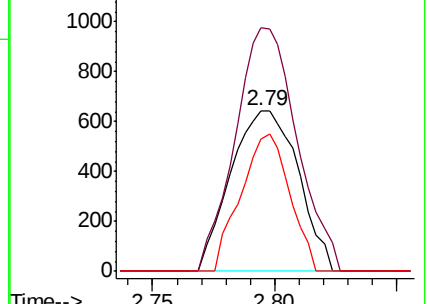
98 82.5 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0



#19

1,1-Dichloroethane

Concen: 2.282 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

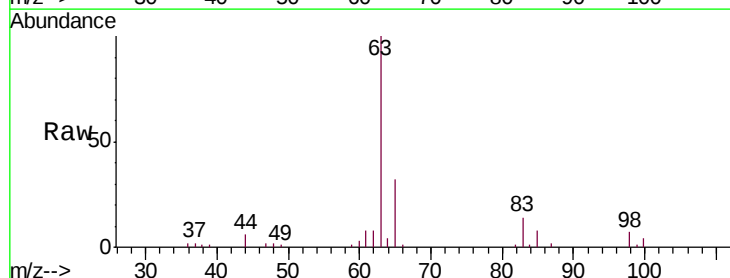
Tgt Ion: 63 Resp: 23171

Ion Ratio Lower Upper

63 100

65 31.7 22.3 41.5

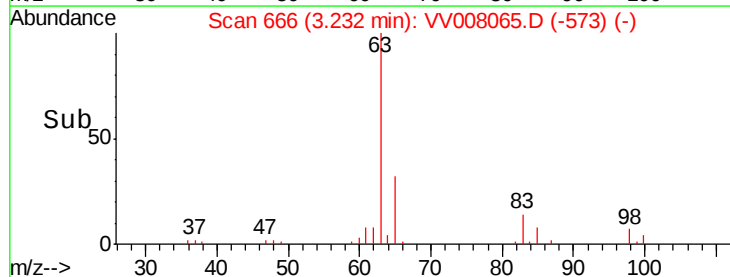
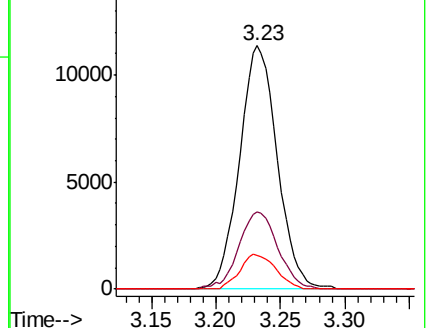
83 14.1 9.8 18.2

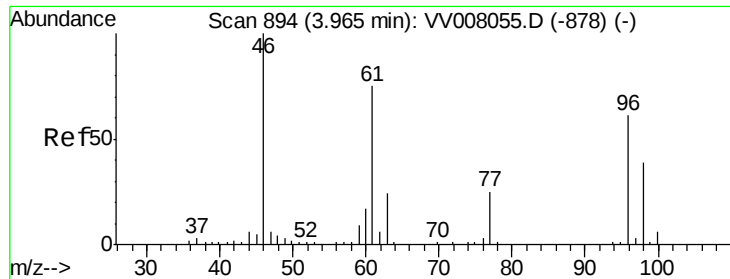


Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



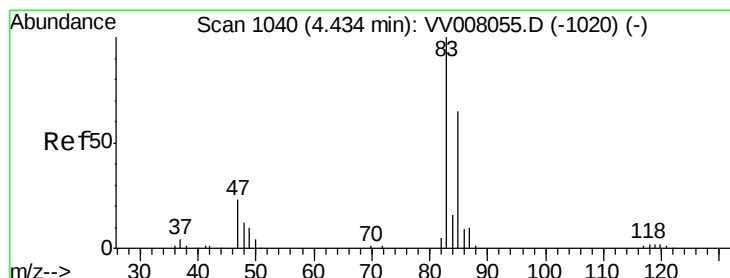
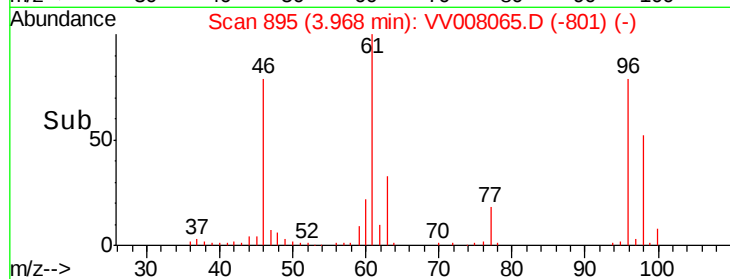
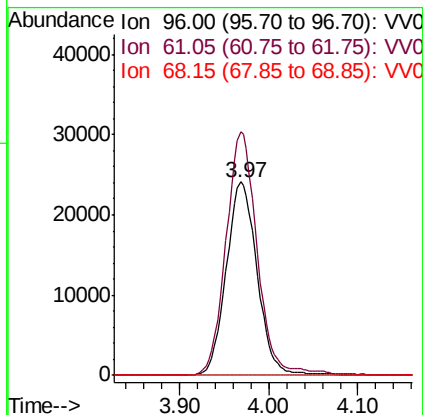
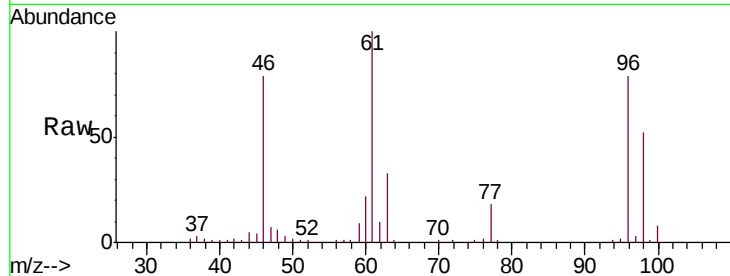


#22

cis-1,2-Dichloroethene
 Concen: 9.604 ug/L
 RT: 3.97 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VV008065.D
 Acq: 04 Oct 2018 16:23

Instrument :
 MSVOA_V
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 C0J75

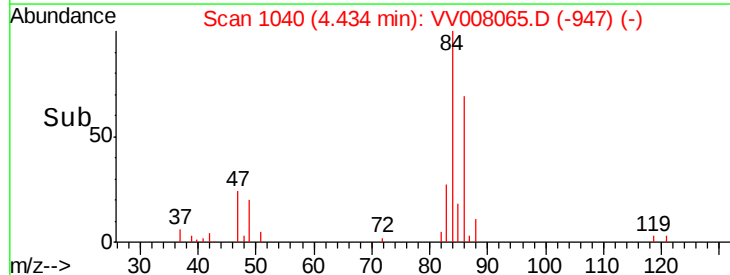
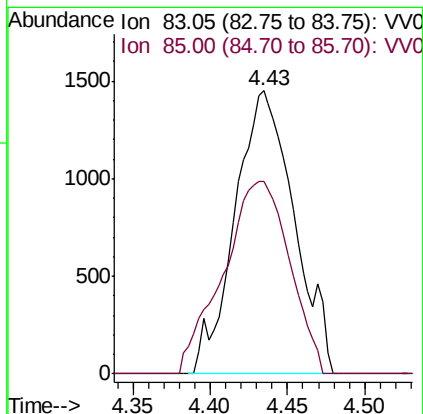
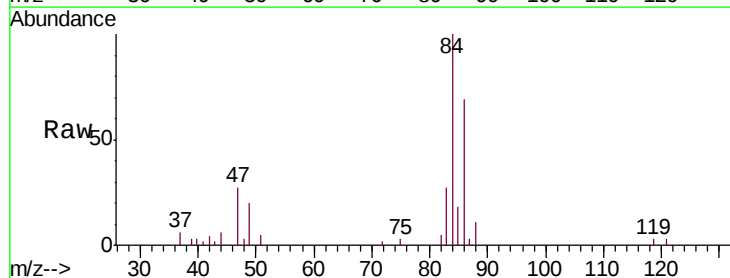
Tgt Ion: 96 Resp: 57878
 Ion Ratio Lower Upper
 96 100
 61 125.8 89.5 166.1
 68 0.0 0.0 0.0

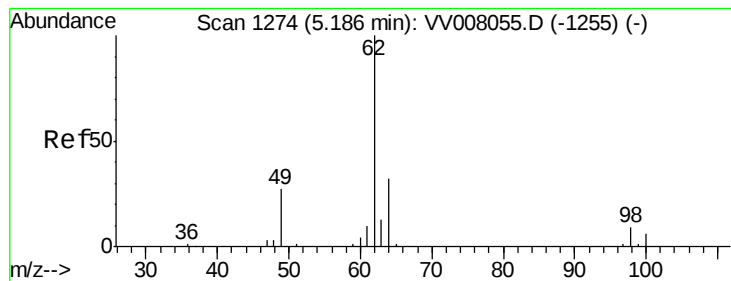


#25

Chloroform
 Concen: 0.351 ug/L
 RT: 4.43 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VV008065.D
 Acq: 04 Oct 2018 16:23

Tgt Ion: 83 Resp: 3856
 Ion Ratio Lower Upper
 83 100
 85 68.0 44.8 83.2





#27

1,2-Dichloroethane

Concen: 0.158 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Instrument :

MSVOA_V

ClientSampleId :

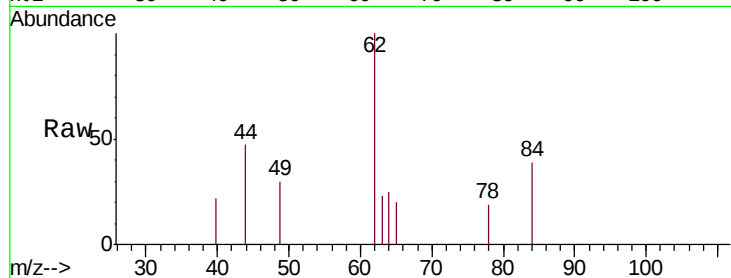
C0J75

Tgt Ion: 62 Resp: 1117

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VV008055.D (-1255) (-)

Ion 98.05 (97.75 to 98.75): VV008055.D (-1255) (-)

5.18

600

500

400

300

200

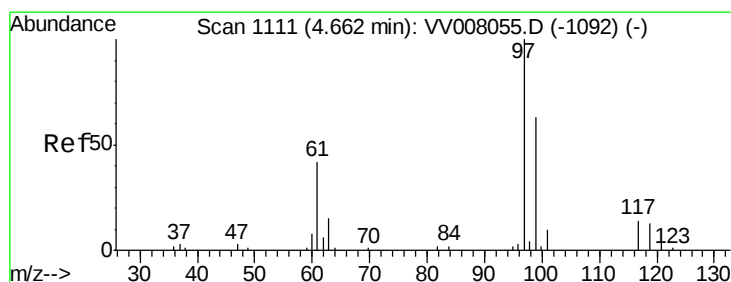
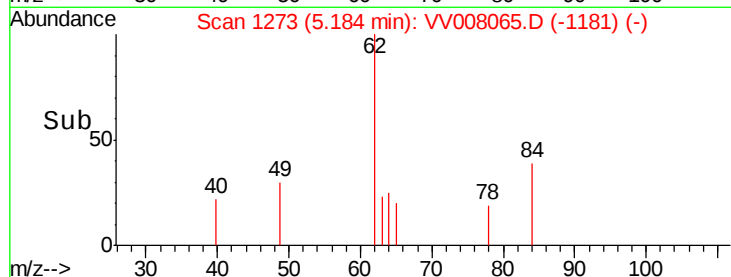
100

0

5.15

5.20

Time-->



#29

1,1,1-Trichloroethane

Concen: 1.710 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. 0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

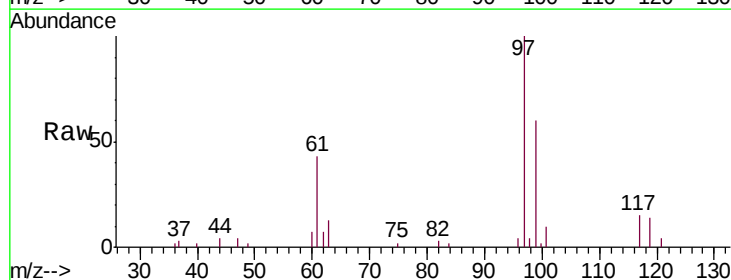
Tgt Ion: 97 Resp: 15733

Ion Ratio Lower Upper

97 100

99 63.0 51.2 76.8

61 41.7 34.6 52.0



Abundance Ion 96.95 (96.65 to 97.65): VV008055.D (-1092) (-)

Ion 99.05 (98.75 to 99.75): VV008055.D (-1092) (-)

Ion 61.05 (60.75 to 61.75): VV008055.D (-1092) (-)

4.67

8000

6000

4000

2000

0

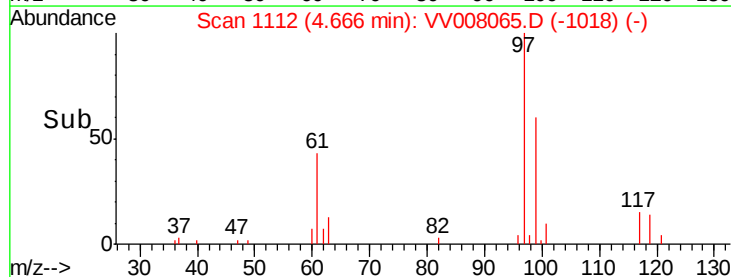
4.60

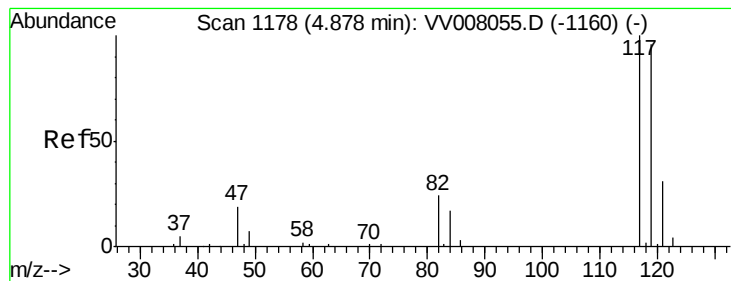
4.65

4.70

4.75

Time-->





#31

Carbon tetrachloride

Concen: 0.253 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.22 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Instrument :

MSVOA_V

ClientSampleId :

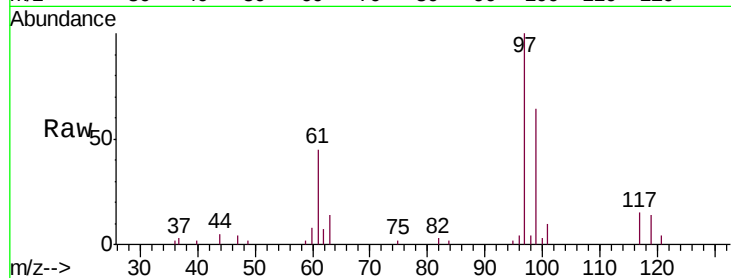
C0J75

Tgt Ion: 117 Resp: 2051

Ion Ratio Lower Upper

117 100

119 102.6 77.8 116.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.66

800

600

400

200

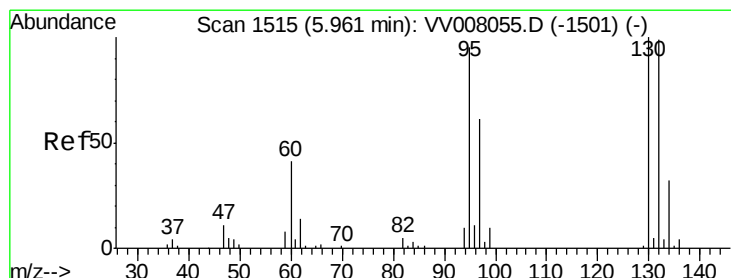
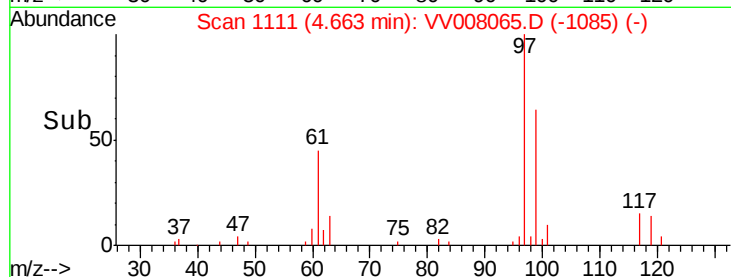
0

4.60

4.65

4.70

Time-->



#34

Trichloroethene

Concen: 16.928 ug/L

RT: 5.96 min Scan# 1516

Delta R.T. 0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Tgt Ion: 95 Resp: 106174

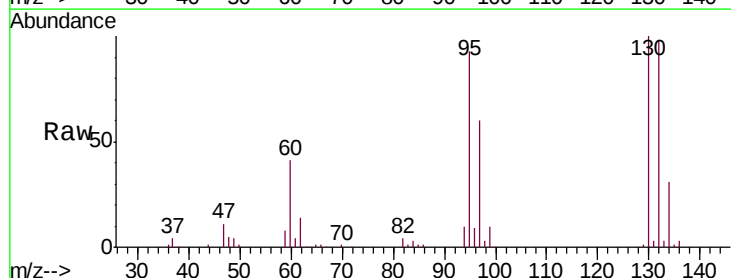
Ion Ratio Lower Upper

95 100

97 65.3 43.6 81.0

132 105.8 69.9 129.9

130 108.1 71.7 133.3



Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

80000

60000

40000

20000

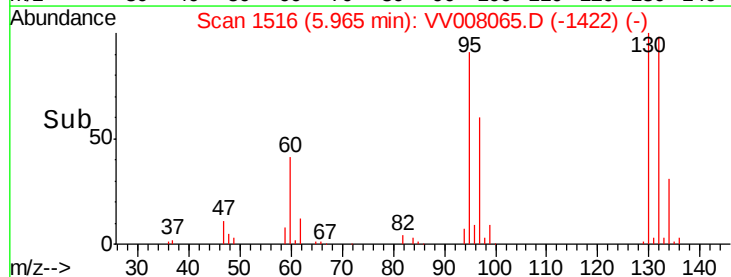
0

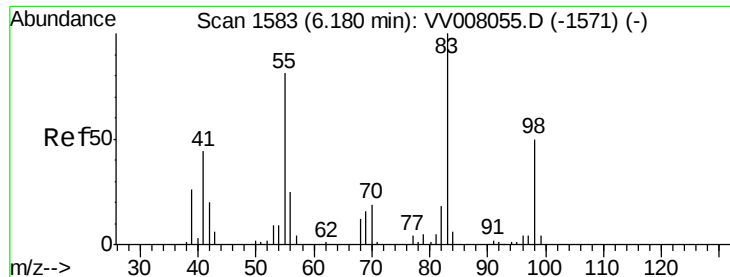
5.90

6.00

6.10

Time-->





#35

Methylcyclohexane

Concen: 0.787 ug/L

RT: 6.13 min Scan# 1566

Delta R.T. -0.05 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Instrument :

MSVOA_V

ClientSampleId :

C0J75

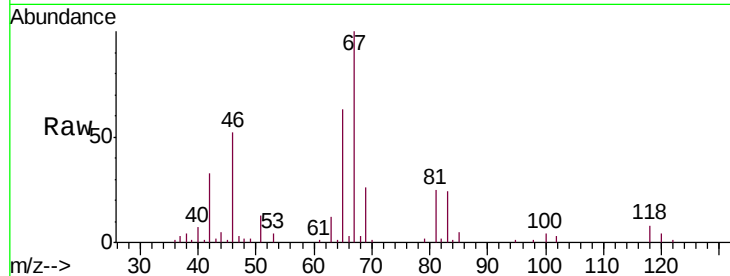
Tgt Ion: 83 Resp: 7406

Ion Ratio Lower Upper

83 100

55 0.0 62.2 93.2#

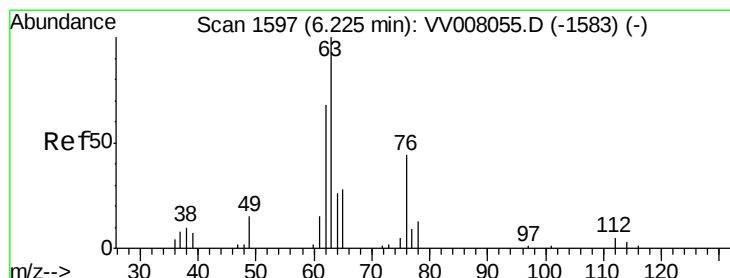
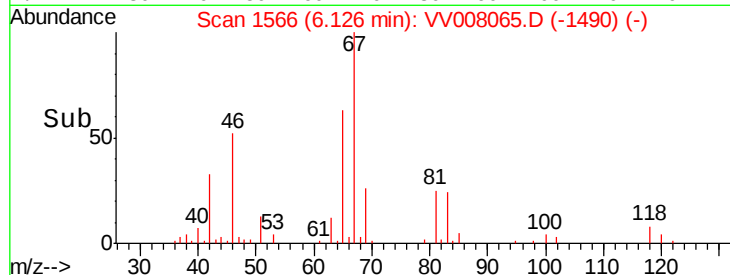
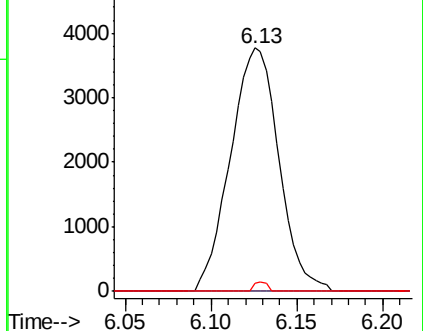
98 1.5 38.0 57.0#



Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0



#37

1,2-Dichloropropane

Concen: 0.635 ug/L

RT: 6.13 min Scan# 1566

Delta R.T. -0.10 min

Lab File: VV008065.D

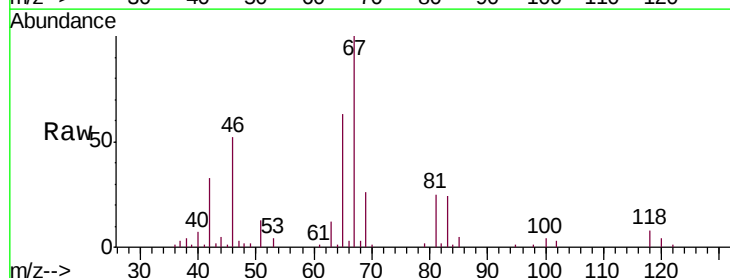
Acq: 04 Oct 2018 16:23

Tgt Ion: 63 Resp: 3553

Ion Ratio Lower Upper

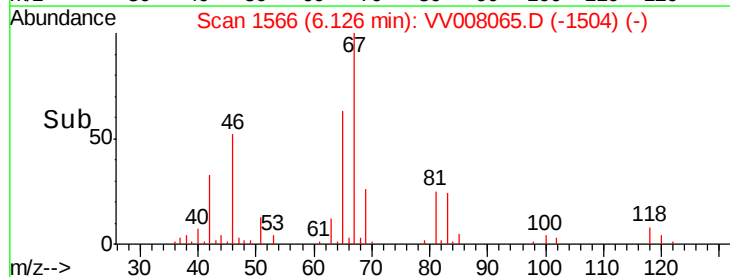
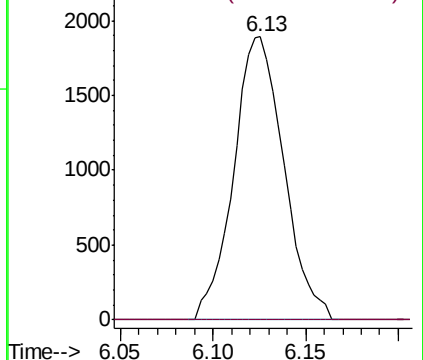
63 100

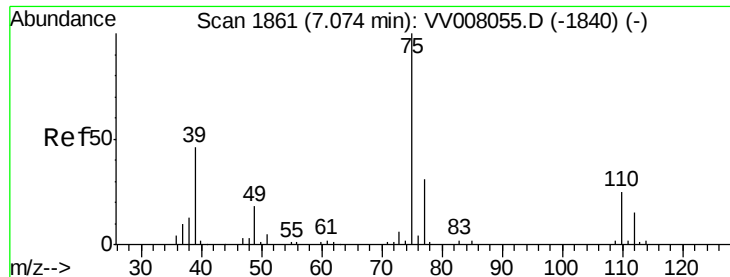
112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): V

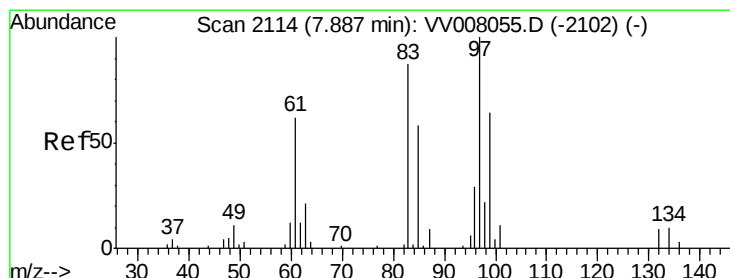
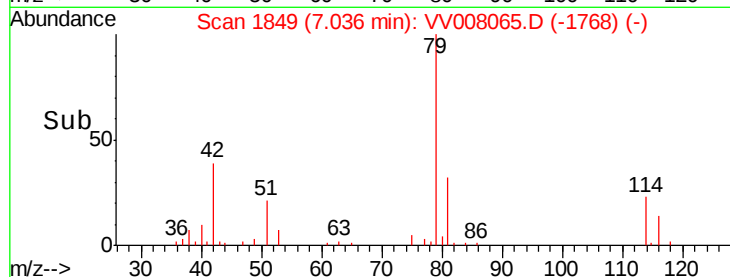
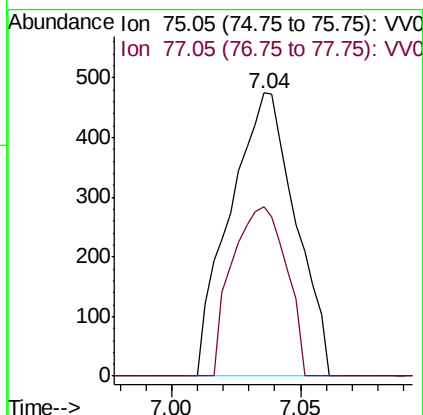
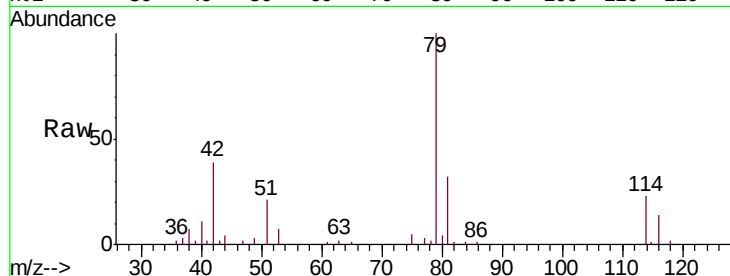




#39
 cis-1,3-Dichloropropene
 Concen: 0.112 ug/L
 RT: 7.04 min Scan# 1849
 Delta R.T. -0.04 min
 Lab File: VV008065.D
 Acq: 04 Oct 2018 16:23

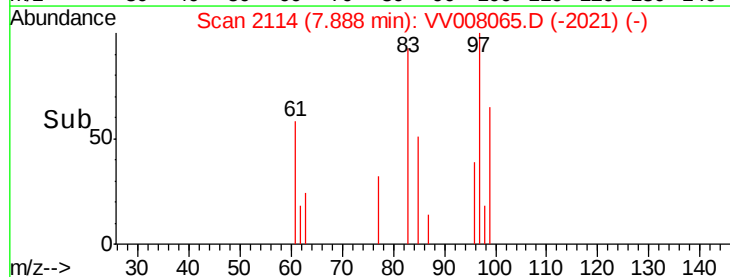
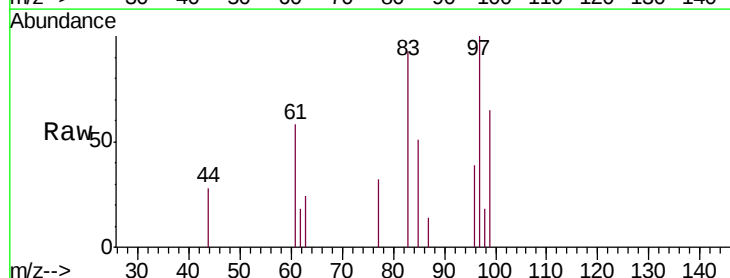
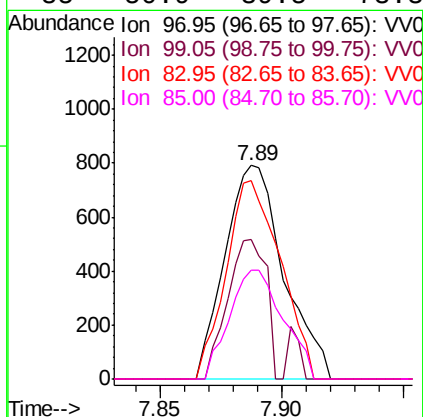
Instrument :
 MSVOA_V
 ClientSampled :
 C0J75

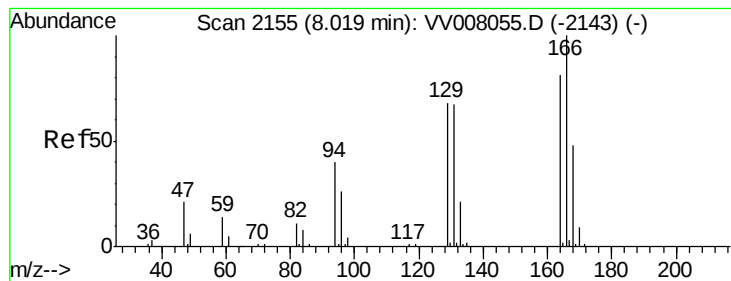
Tgt Ion: 75 Resp: 839
 Ion Ratio Lower Upper
 75 100
 77 59.9 22.9 42.5#



#45
 1,1,2-Trichloroethane
 Concen: 0.327 ug/L
 RT: 7.89 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VV008065.D
 Acq: 04 Oct 2018 16:23

Tgt Ion: 97 Resp: 1322
 Ion Ratio Lower Upper
 97 100
 99 65.0 43.5 80.9
 83 92.7 59.7 110.9
 85 50.9 39.5 73.3





#47

Tetrachloroethene

Concen: 13.444 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV008065.D

Acq: 04 Oct 2018 16:23

Instrument :

MSVOA_V

ClientSampleId :

C0J75

Tgt Ion:164 Resp: 78136

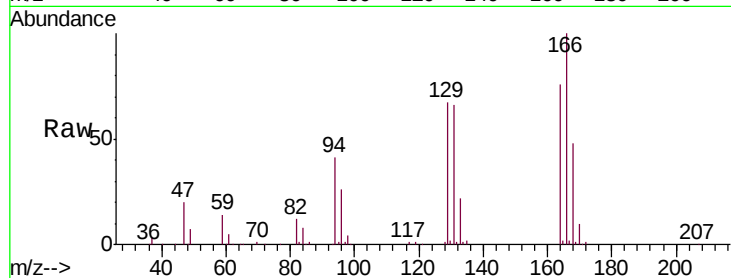
Ion Ratio Lower Upper

164 100

129 88.4 59.2 110.0

131 86.9 57.1 106.1

166 132.4 88.6 164.6

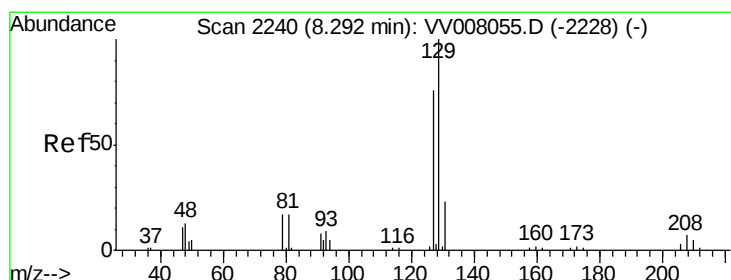
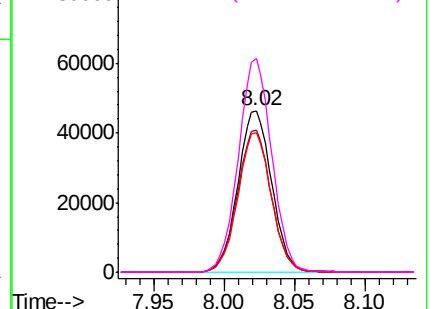
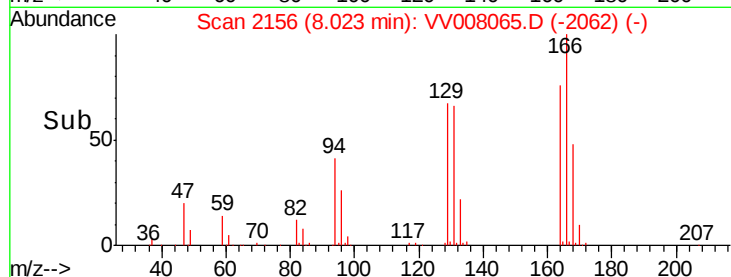


Abundance Ion 163.90 (163.60 to 164.60): V

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: 14.322 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. -0.27 min

Lab File: VV008065.D

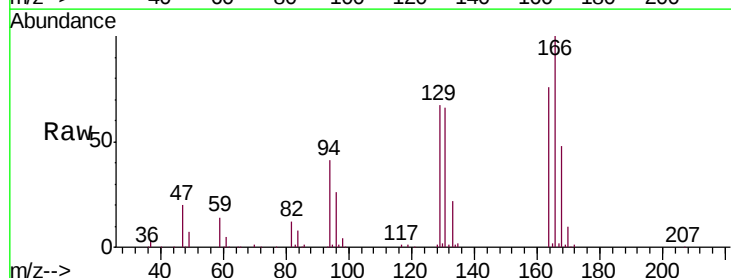
Acq: 04 Oct 2018 16:23

Tgt Ion:129 Resp: 66022

Ion Ratio Lower Upper

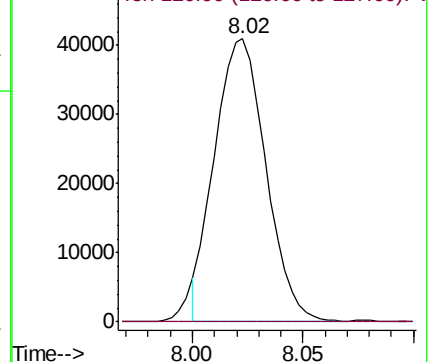
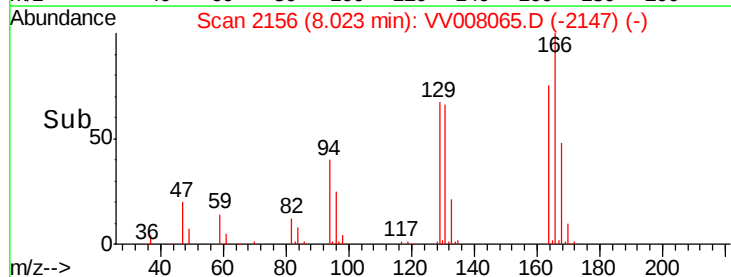
129 100

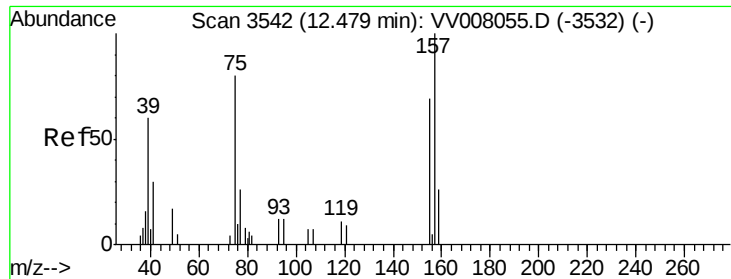
127 0.0 53.1 98.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V





#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.284 ug/L
 RT: 12.30 min Scan# 3486
 Delta R.T. -0.18 min
 Lab File: VV008065.D
 Acq: 04 Oct 2018 16:23

Instrument :
 MSVOA_V
 ClientSampleId :
 C0J75

Tgt Ion: 75 Resp: 171
 Ion Ratio Lower Upper
 75 100
 155 0.0 83.4 125.2#
 157 0.0 93.9 140.9#

