

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091318\
 Data File : VV007525.D
 Acq On : 13 Sep 2018 22:25
 Operator : SY/MD
 Sample : J4864-04
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 14 05:12:02 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	134774	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.91	117	123063	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	67238	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	31202	4.43	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.60%
7) Chloroethane-d5	1.58	69	27124	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	2.13	63	53558	3.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.20%
20) 2-Butanone-d5	4.04	46	72759	74.10	ug/L	0.07
Spiked Amount	50.000	Range	40 - 130	Recovery	=	148.20%#
24) Chloroform-d	4.41	84	73044	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
26) 1,2-Dichloroethane-d4	5.09	65	32431	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
32) Benzene-d6	5.09	84	120601	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.40%
36) 1,2-Dichloropropane-d6	6.13	67	37441	4.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.00%
41) Toluene-d8	7.38	98	124094	4.27	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.40%
43) trans-1,3-Dichloropropene-	7.69	79	15731	4.09	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.80%
46) 2-Hexanone-d5	8.16	63	63059	102.58	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	205.16%#
57) 1,1,2,2-Tetrachloroethane-	10.27	84	28422	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.80%
64) 1,2-Dichlorobenzene-d4	11.68	152	51962	4.22	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.40%

Target Compounds

					Ovalue
3) Chloromethane	1.24	50	811	0.128 ug/L #	78
5) Vinyl chloride	1.32	62	18014	2.544 ug/L	96
8) Chloroethane	1.60	64	646	0.150 ug/L	93
12) 1,1-Dichloroethene	2.14	96	7428	1.086 ug/L #	1
14) Carbon disulfide	2.32	76	2125	0.106 ug/L #	61
16) Methylene chloride	2.54	84	22107	2.990 ug/L	96
18) trans-1,2-Dichloroethene	2.80	96	760	0.102 ug/L	95
19) 1,1-Dichloroethane	3.25	63	7078	0.652 ug/L #	93
21) 2-Butanone	4.13	43	27744	25.788 ug/L	75
22) cis-1,2-Dichloroethene	3.98	96	168414	22.960 ug/L #	92
29) 1,1,1-Trichloroethane	4.66	97	48361	4.041 ug/L	97
31) Carbon tetrachloride	4.65	117	6925	0.617 ug/L	97
34) Trichloroethene	5.96	95	361056	46.326 ug/L	98
35) Methylcyclohexane	6.14	83	9959	0.827 ug/L #	24
37) 1,2-Dichloropropane	6.13	63	4521	0.722 ug/L #	85
39) cis-1,3-Dichloropropene	7.06	75	1232	0.124 ug/L #	46
42) Toluene	7.45	91	5907	0.201 ug/L	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091318\
 Data File : VV007525.D
 Acq On : 13 Sep 2018 22:25
 Operator : SY/MD
 Sample : J4864-04
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 14 05:12:02 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

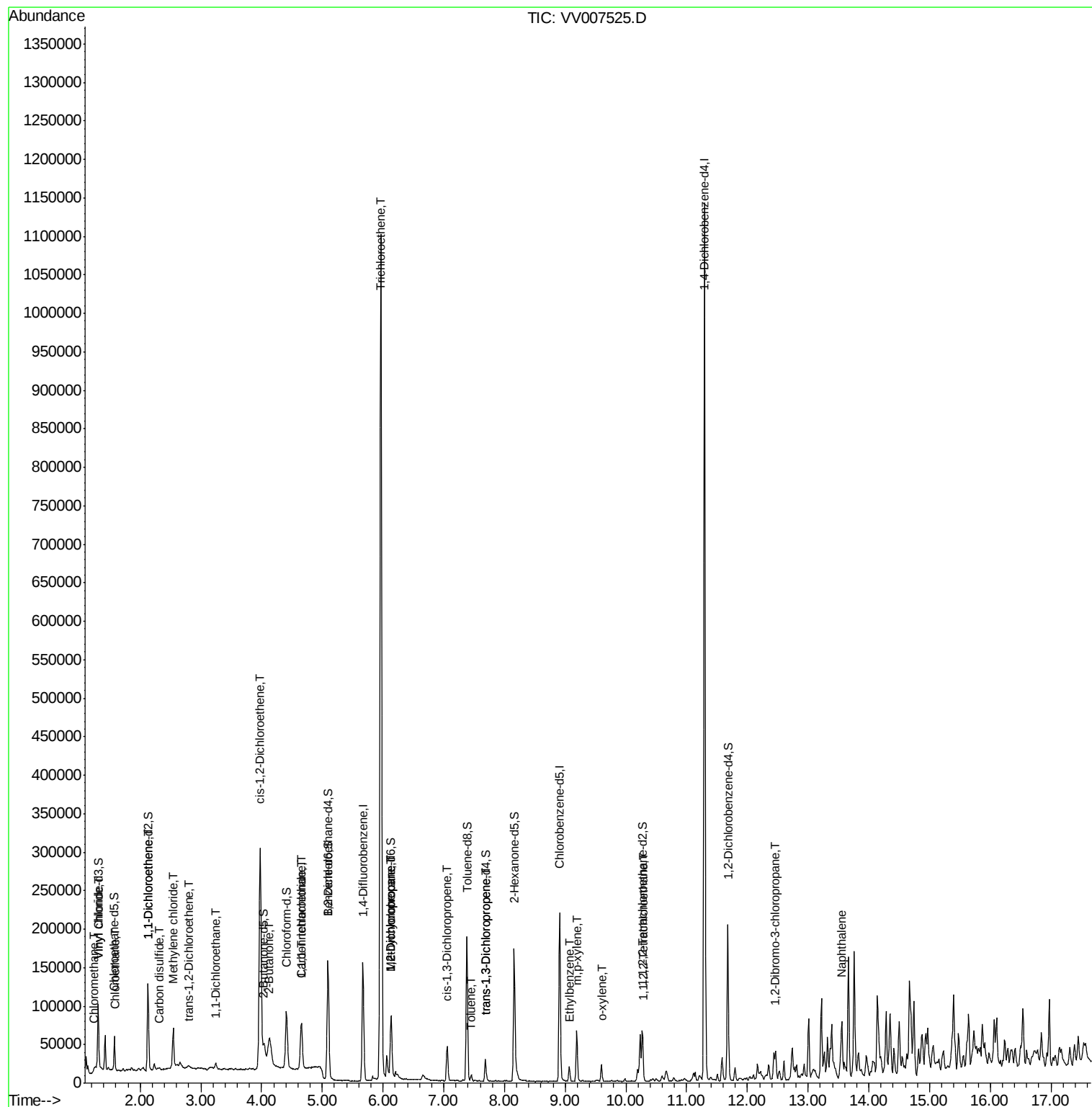
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.69	75	817	0.100	ug/L #	43
52) Ethylbenzene	9.07	91	13342	0.403	ug/L	97
53) m,p-xylene	9.19	106	18142	1.416	ug/L	96
54) o-xylene	9.60	106	5811	0.463	ug/L	92
58) 1,1,2,2-Tetrachloroethane	10.29	83	392	0.086	ug/L #	27
66) 1,2-Dibromo-3-chloropropan	12.47	75	68	0.084	ug/L #	1
69) Naphthalene	13.56	128	50006	4.327	ug/L #	94

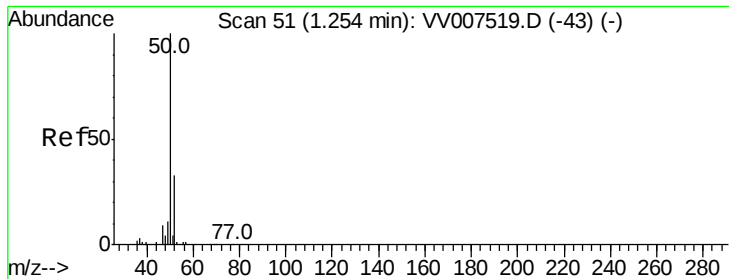
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV091318\
Data File : VV007525.D
Acq On : 13 Sep 2018 22:25
Operator : SY/MD
Sample : J4864-04
Misc : 25.0 mL/MSVOA V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Sep 14 05:12:02 2018
Quant Method : Z:\V0ASRV\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





#3

Chloromethane

Concen: 0.128 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

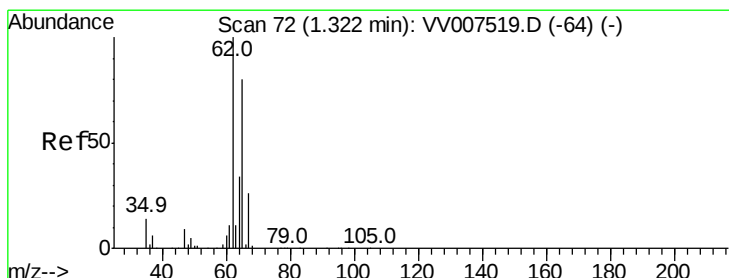
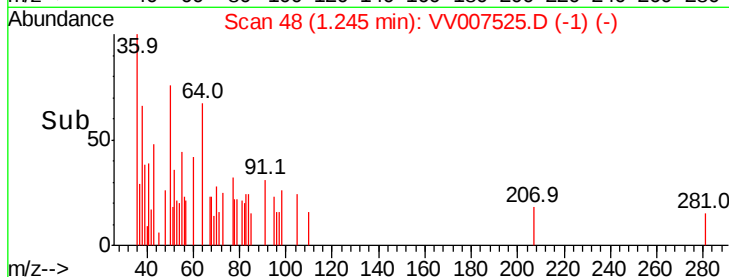
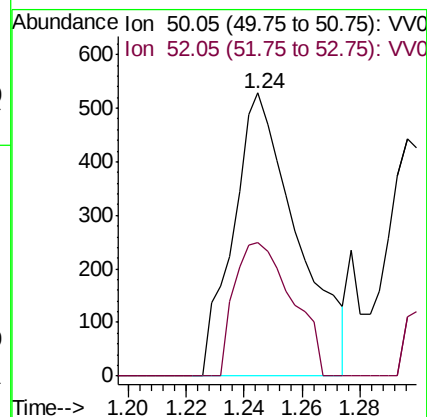
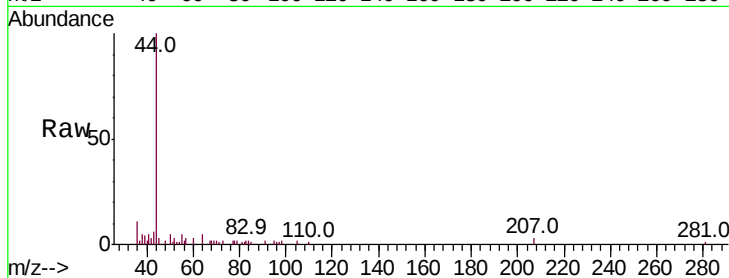
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 50 Resp: 811

Ion Ratio Lower Upper

50 100

52 47.2 24.3 45.1#



#5

Vinyl chloride

Concen: 2.544 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV007525.D

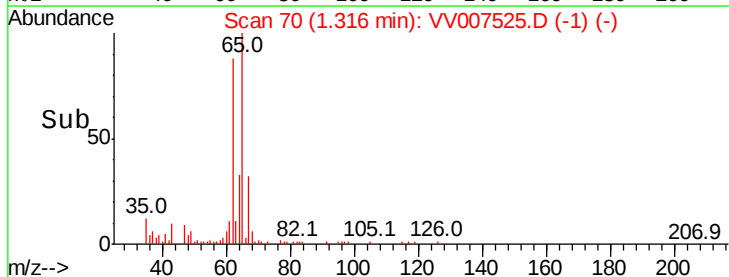
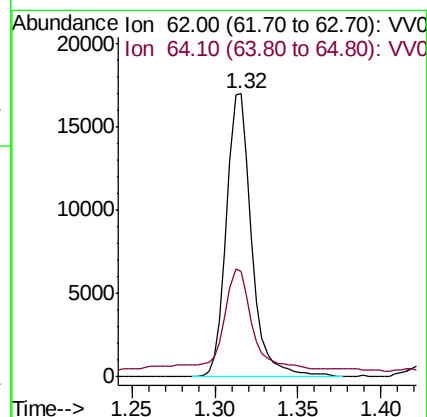
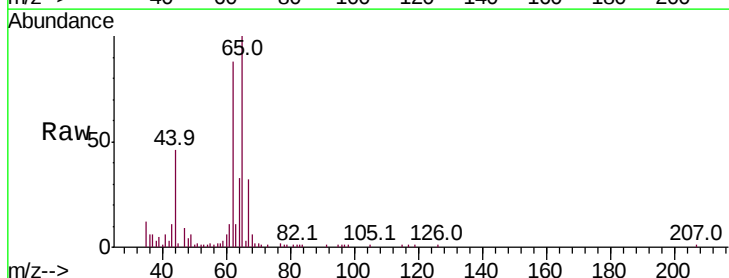
Acq: 13 Sep 2018 22:25

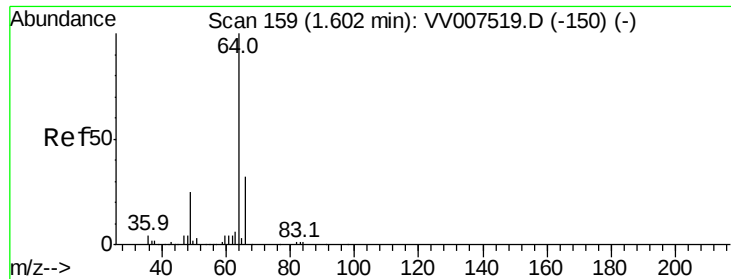
Tgt Ion: 62 Resp: 18014

Ion Ratio Lower Upper

62 100

64 37.1 24.4 45.2





#8

Chloroethane

Concen: 0.150 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

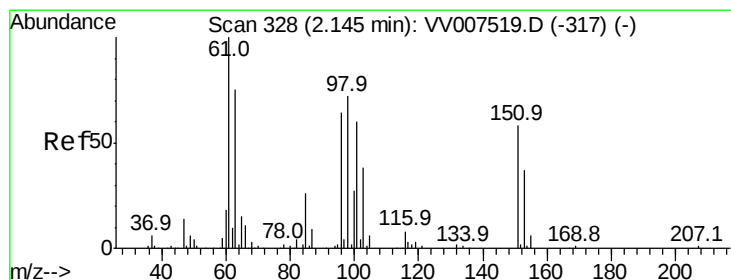
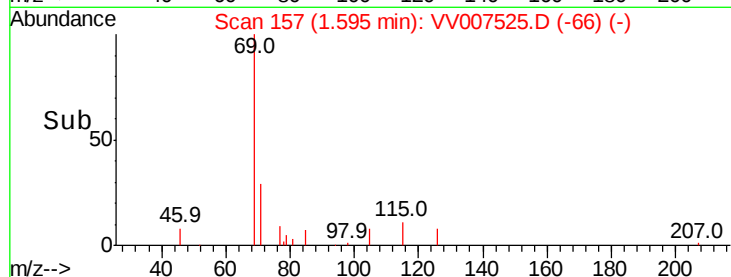
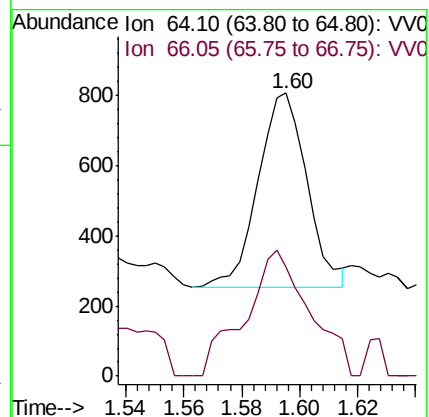
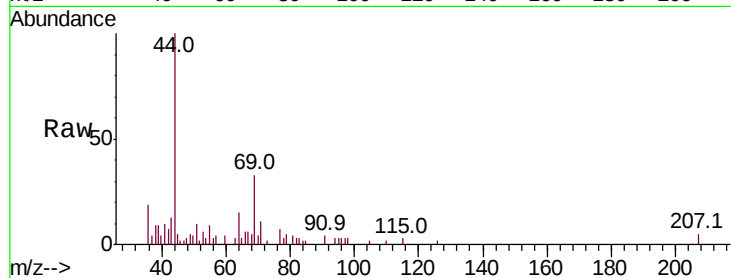
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 646

Ion Ratio Lower Upper

64 100

66 38.7 24.3 45.1



#12

1,1-Dichloroethene

Concen: 1.086 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

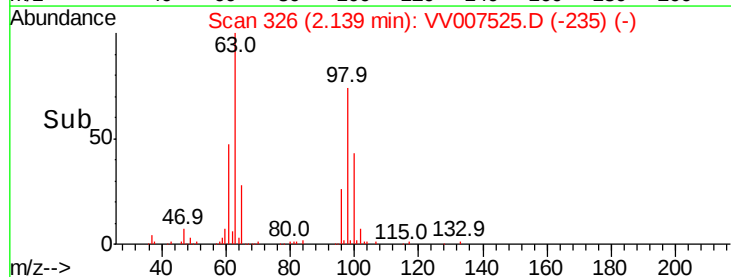
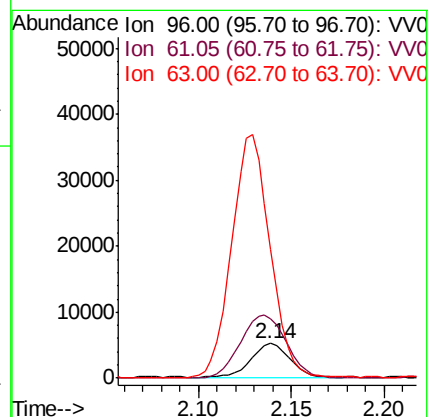
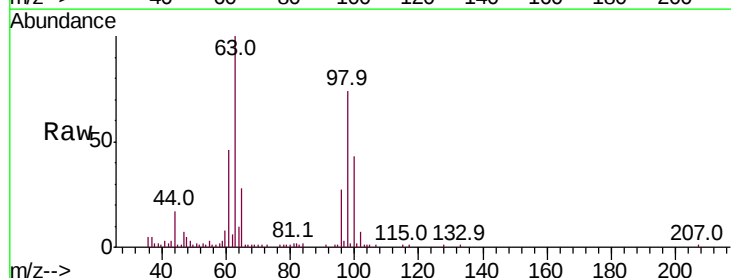
Tgt Ion: 96 Resp: 7428

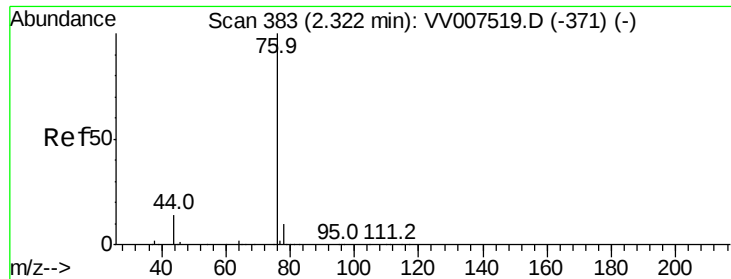
Ion Ratio Lower Upper

96 100

61 171.8 114.8 213.2

63 371.4 81.8 151.8#





#14

Carbon disulfide

Concen: 0.106 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

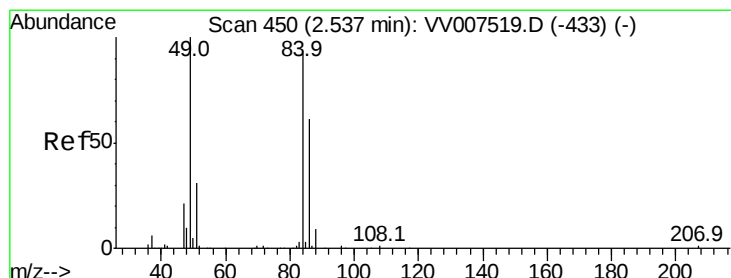
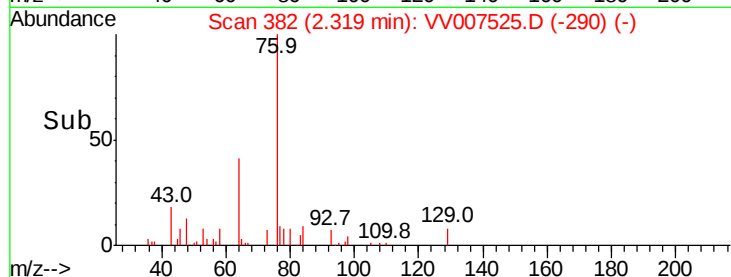
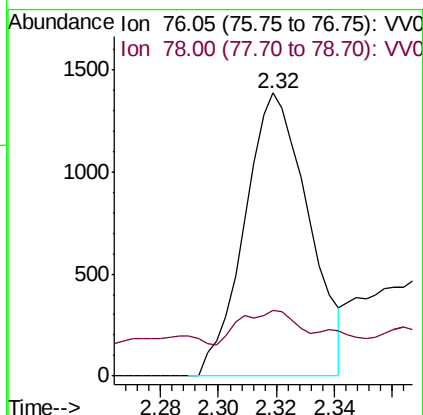
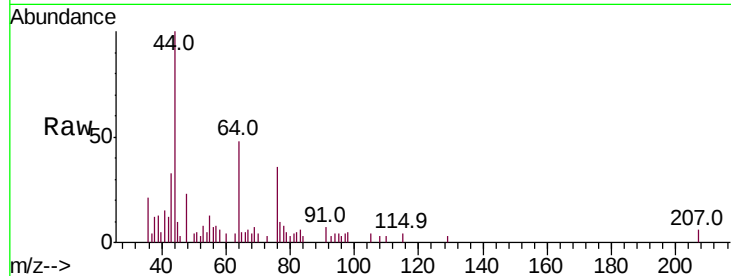
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 76 Resp: 2125

Ion Ratio Lower Upper

76 100

78 23.2 7.4 11.0#



#16

Methylene chloride

Concen: 2.990 ug/L

RT: 2.54 min Scan# 452

Delta R.T. 0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

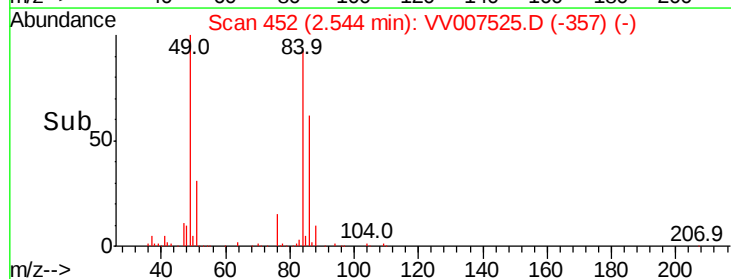
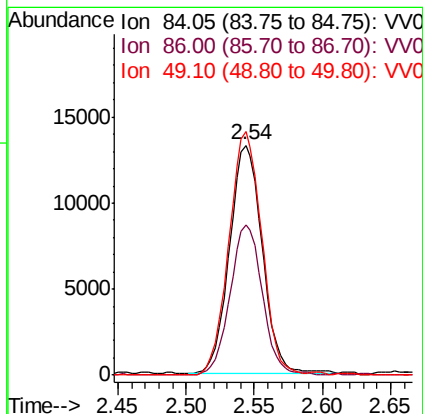
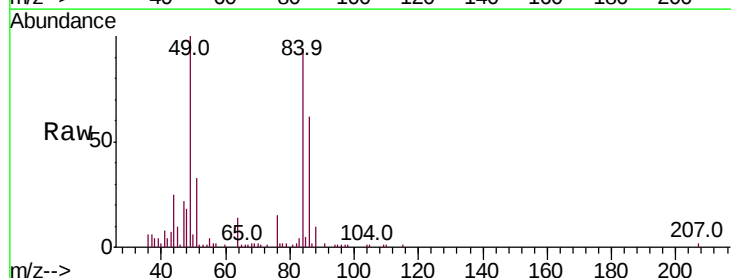
Tgt Ion: 84 Resp: 22107

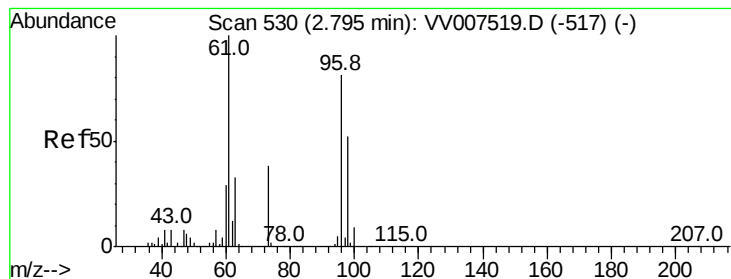
Ion Ratio Lower Upper

84 100

86 65.3 43.7 81.1

49 106.0 76.8 142.6





#18

trans-1,2-Dichloroethene

Concen: 0.102 ug/L

RT: 2.80 min Scan# 531

Delta R.T. 0.00 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

Instrument :
MSVOA_V
ClientSampled :

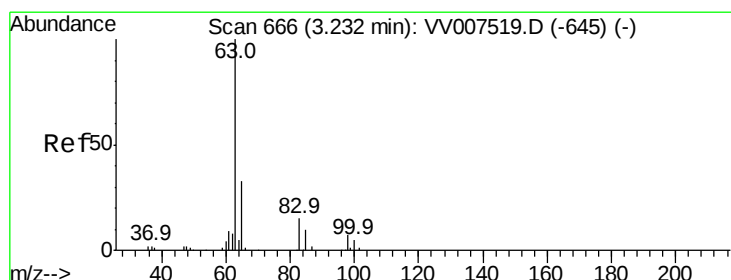
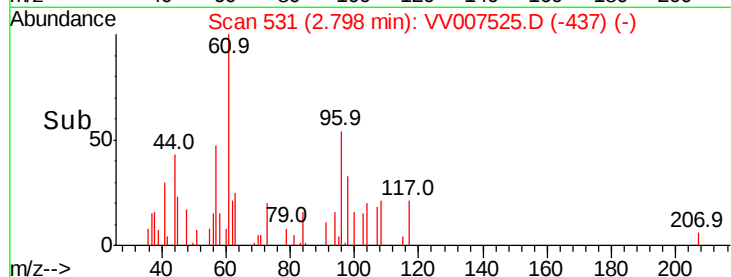
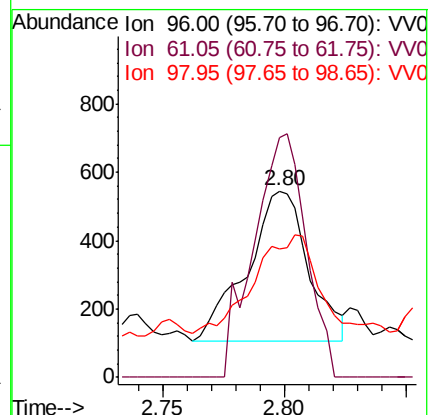
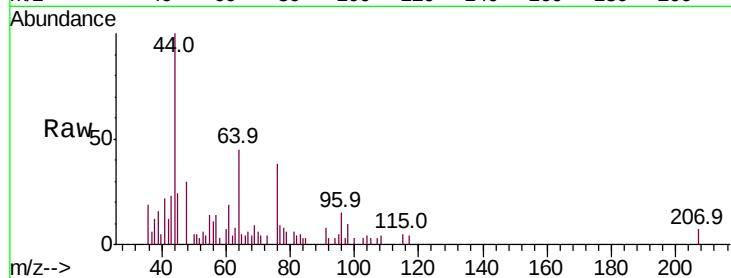
Tot Ion: 96 Resp: 760

Ion Ratio Lower Upper

96 100

61 128.4 86.8 161.2

98 69.0 44.4 82.4



#19

1,1-Dichloroethane

Concen: 0.652 ug/L

RT: 3.25 min Scan# 671

Delta R.T. 0.02 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

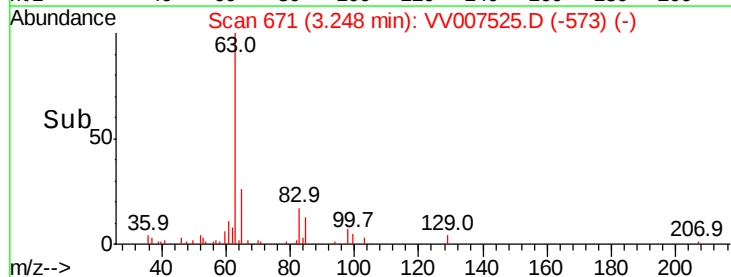
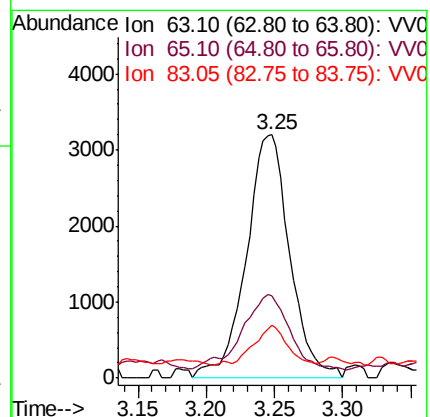
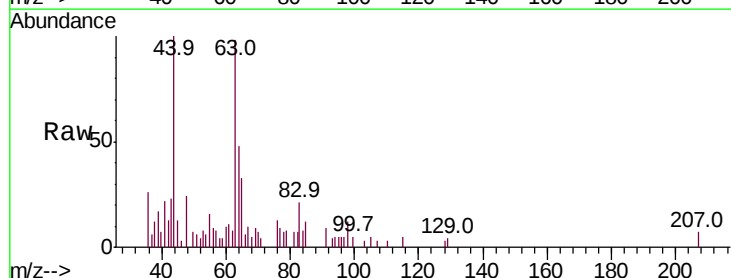
Tgt Ion: 63 Resp: 7078

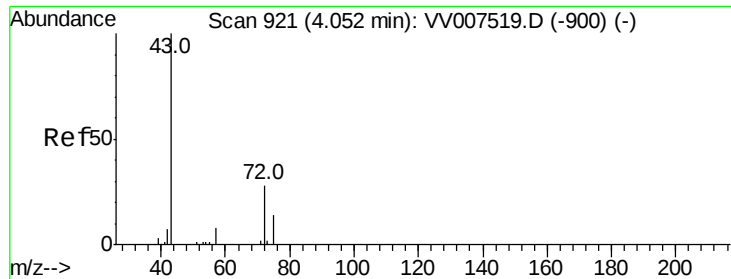
Ion Ratio Lower Upper

63 100

65 33.6 22.5 41.9

83 21.8 10.4 19.2#





#21

2-Butanone

Concen: 25.788 ug/L

RT: 4.13 min Scan# 944

Delta R.T. 0.07 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

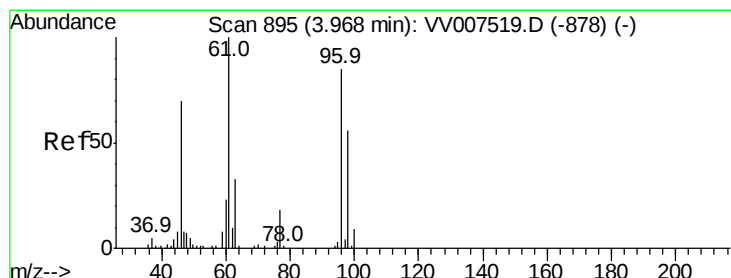
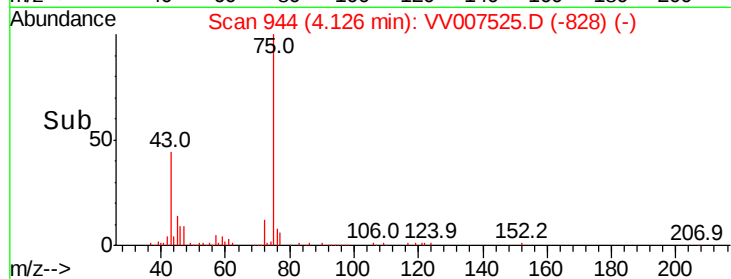
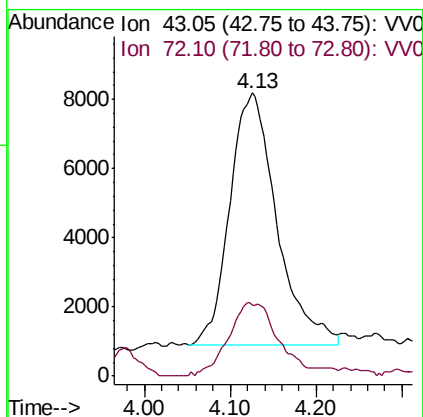
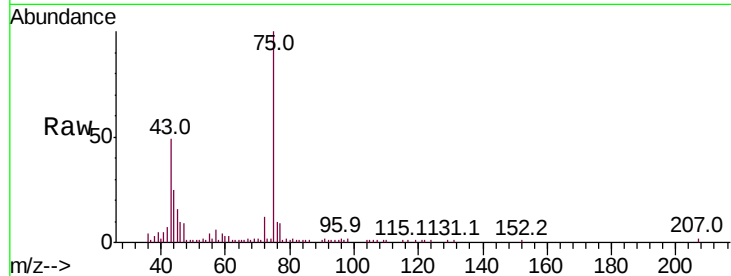
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 27744

Ion Ratio Lower Upper

43 100

72 15.2 14.2 42.6



#22

cis-1,2-Dichloroethene

Concen: 22.960 ug/L

RT: 3.98 min Scan# 898

Delta R.T. 0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

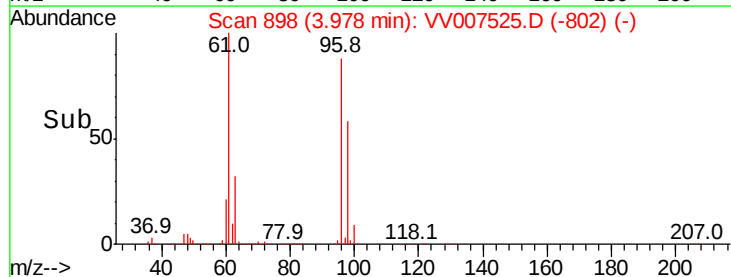
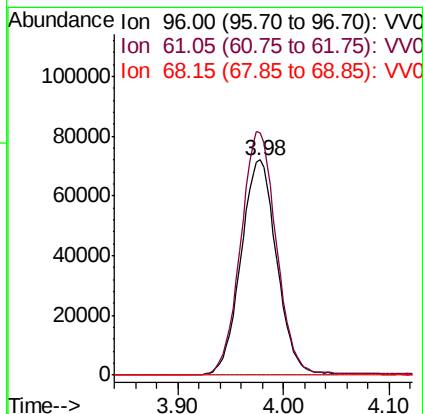
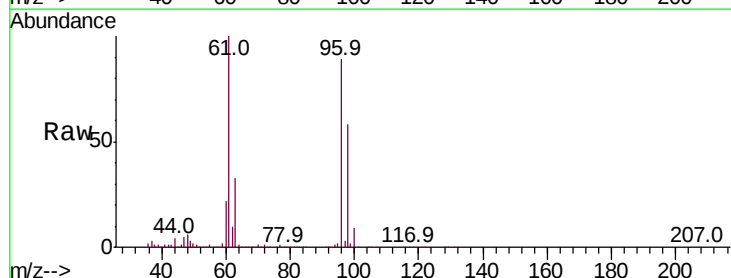
Tgt Ion: 96 Resp: 168414

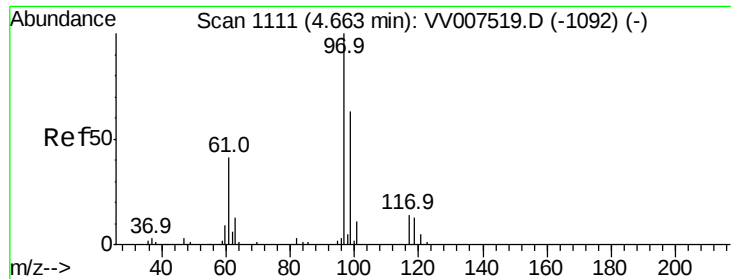
Ion Ratio Lower Upper

96 100

61 112.9 85.3 158.5

68 0.3 0.0 0.0#

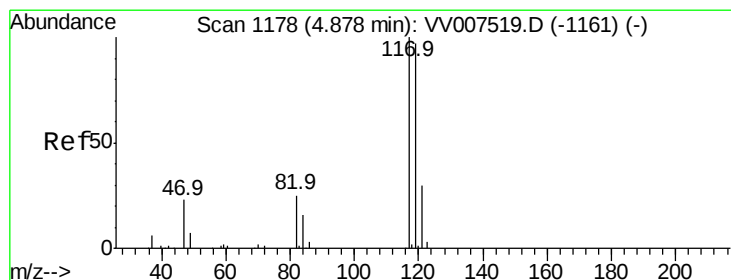
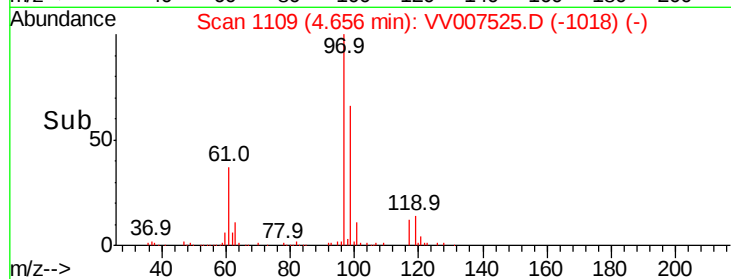
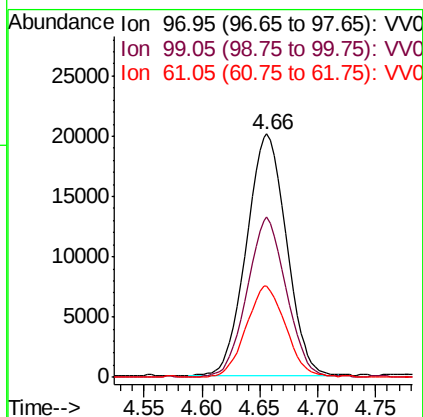
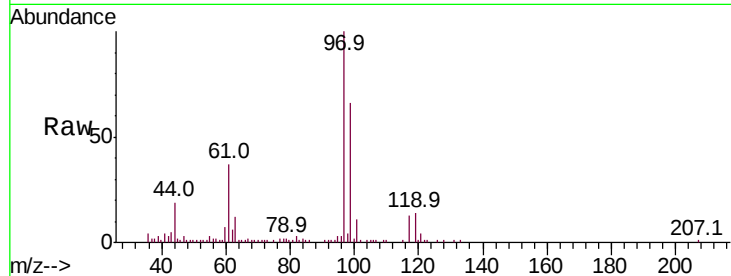




#29
 1,1,1-Trichloroethane
 Concen: 4.041 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. -0.01 min
 Lab File: VV007525.D
 Acq: 13 Sep 2018 22:25

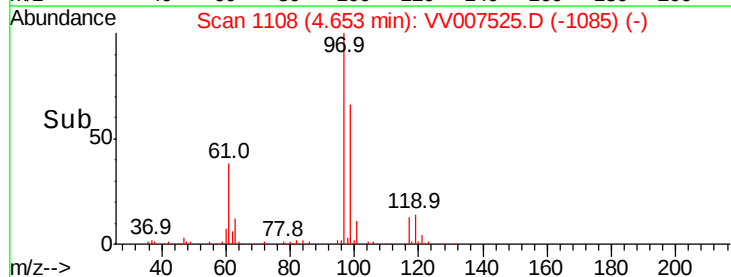
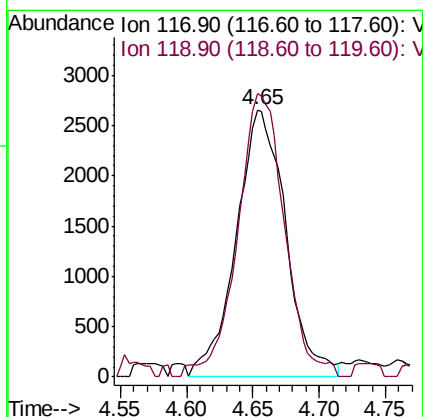
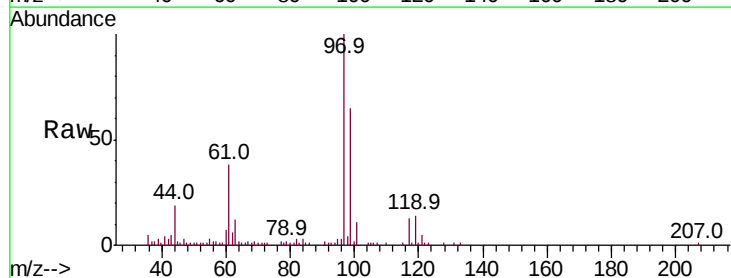
Instrument :
 MSVOA_V
 ClientSampled :

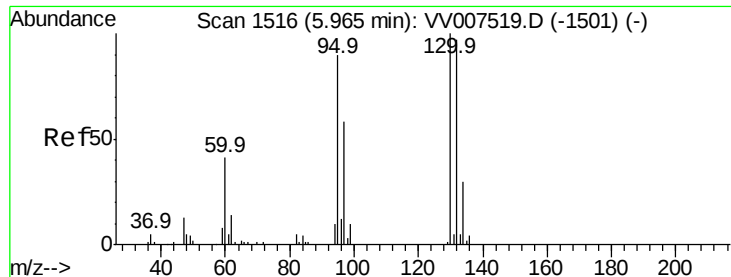
Tot Ion: 97 Resp: 48361
 Ion Ratio Lower Upper
 97 100
 99 64.8 50.7 76.1
 61 37.2 32.5 48.7



#31
 Carbon tetrachloride
 Concen: 0.617 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. -0.23 min
 Lab File: VV007525.D
 Acq: 13 Sep 2018 22:25

Tgt Ion: 117 Resp: 6925
 Ion Ratio Lower Upper
 117 100
 119 100.3 77.5 116.3

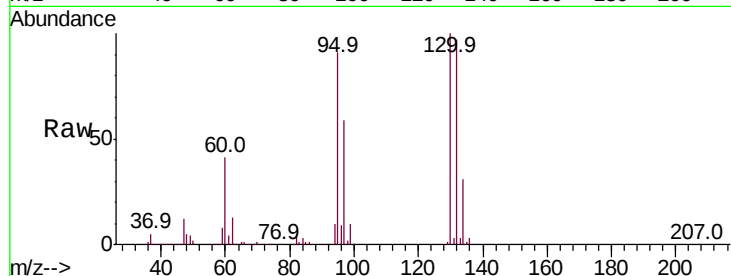




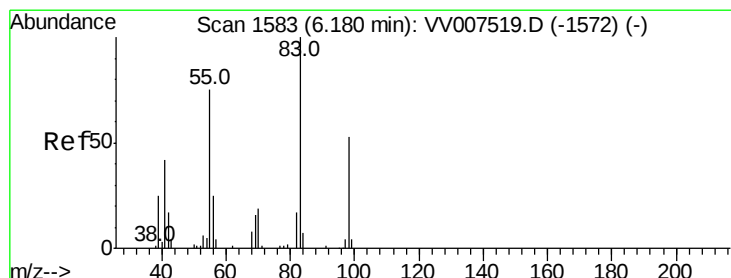
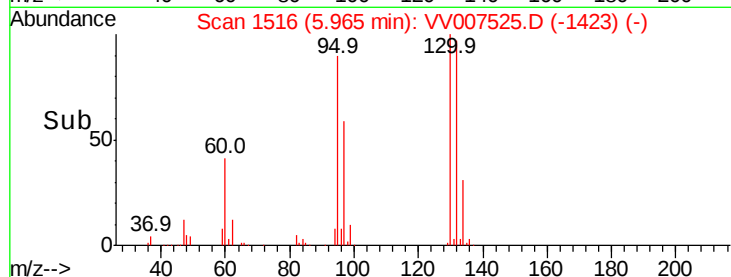
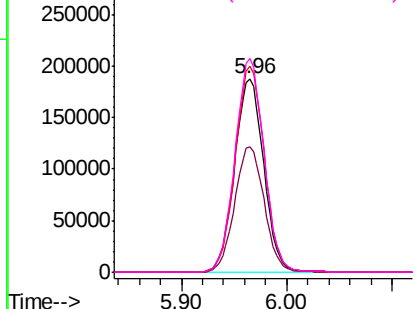
#34
 Trichloroethene
 Concen: 46.326 ug/L
 RT: 5.96 min Scan# 1516
 Delta R.T. 0.00 min
 Lab File: VV007525.D
 Acq: 13 Sep 2018 22:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 361056
 Ion Ratio Lower Upper
 95 100
 97 64.8 45.5 84.5
 132 106.4 74.9 139.1
 130 110.2 80.0 148.6

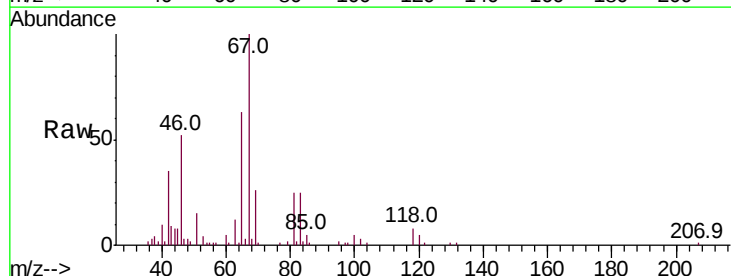


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

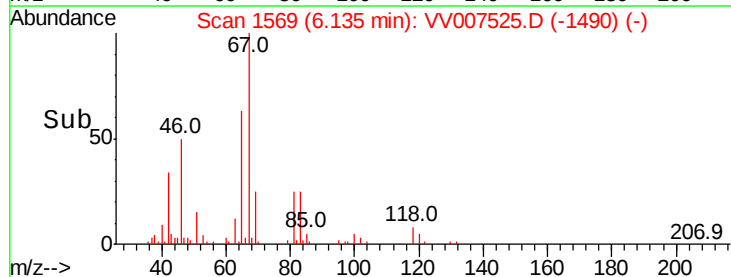
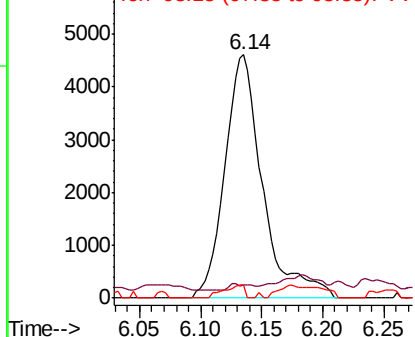


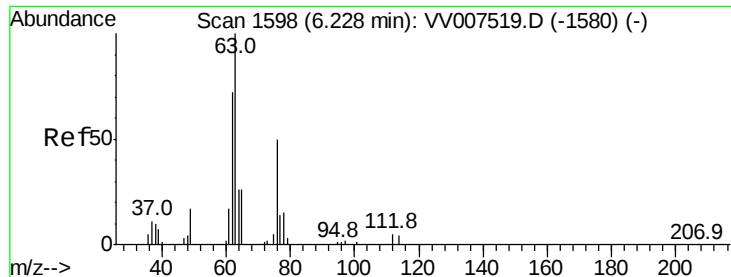
#35
 Methylcyclohexane
 Concen: 0.827 ug/L
 RT: 6.14 min Scan# 1569
 Delta R.T. -0.04 min
 Lab File: VV007525.D
 Acq: 13 Sep 2018 22:25

Tgt Ion: 83 Resp: 9959
 Ion Ratio Lower Upper
 83 100
 55 1.7 55.0 82.4#
 98 3.0 37.6 56.4#



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: 0.722 ug/L

RT: 6.13 min Scan# 1568

Delta R.T. -0.10 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

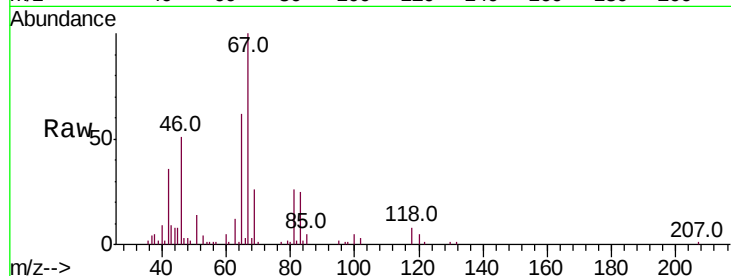
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 63 Resp: 4521

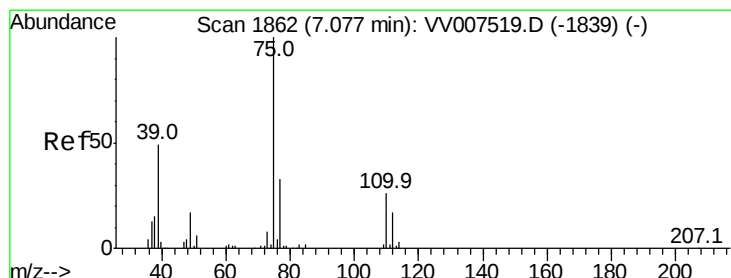
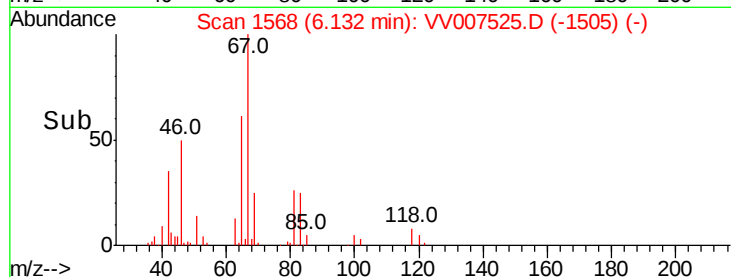
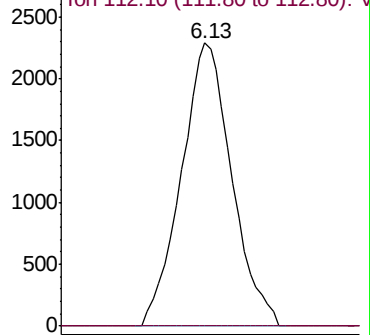
Ion Ratio Lower Upper

63 100

112 0.0 4.1 6.1#



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



#39

cis-1,3-Dichloropropene

Concen: 0.124 ug/L

RT: 7.06 min Scan# 1856

Delta R.T. -0.02 min

Lab File: VV007525.D

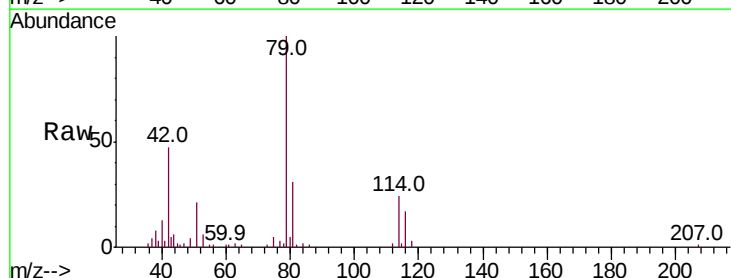
Acq: 13 Sep 2018 22:25

Tgt Ion: 75 Resp: 1232

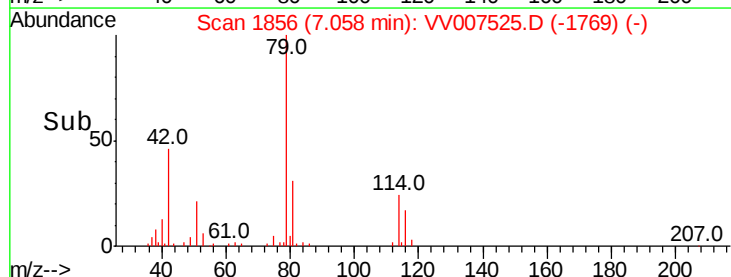
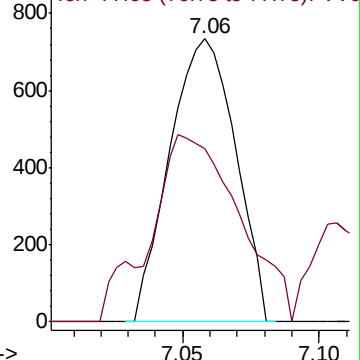
Ion Ratio Lower Upper

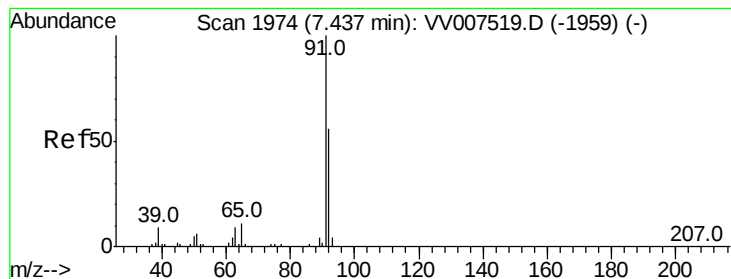
75 100

77 61.4 22.0 41.0#



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





#42

Toluene

Concen: 0.201 ug/L

RT: 7.45 min Scan# 1979

Delta R.T. 0.02 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

Instrument :

MSVOA_V

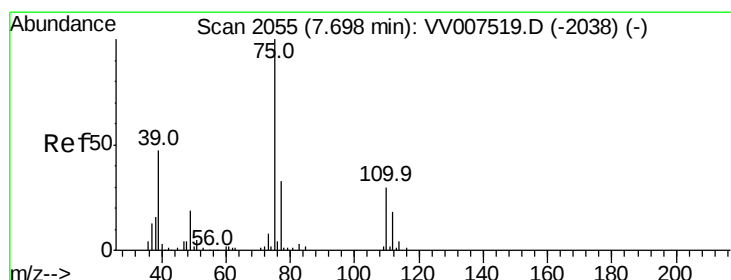
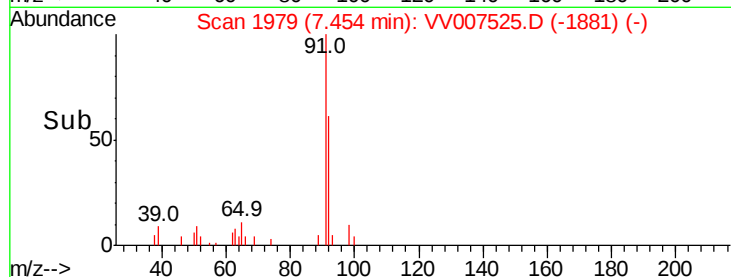
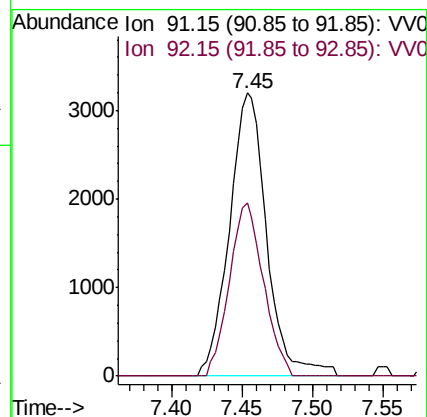
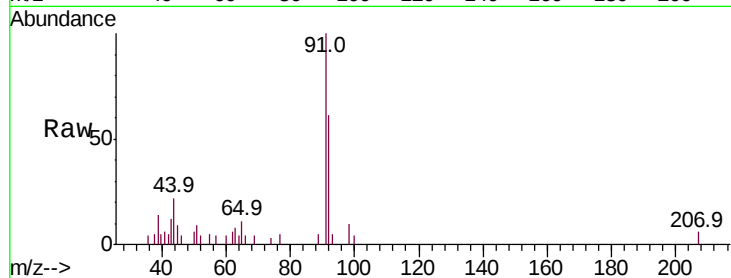
ClientSampleId :

Tot Ion: 91 Resp: 5907

Ion Ratio Lower Upper

91 100

92 61.1 40.3 74.8



#44

trans-1,3-Dichloropropene

Concen: 0.100 ug/L

RT: 7.69 min Scan# 2051

Delta R.T. -0.01 min

Lab File: VV007525.D

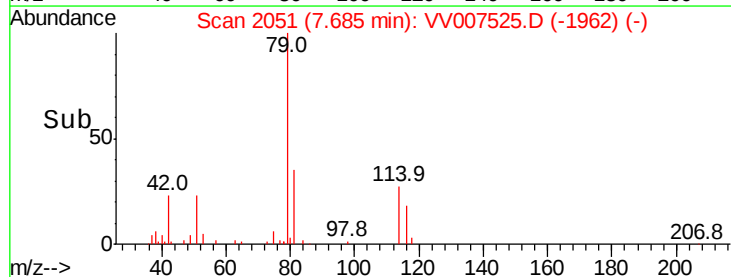
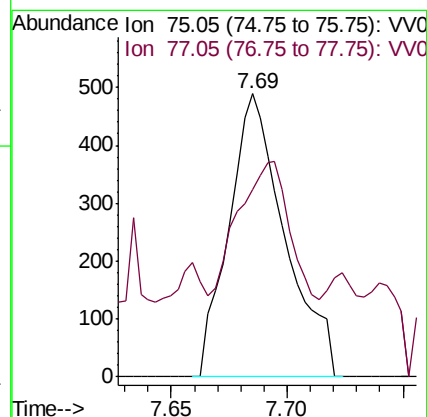
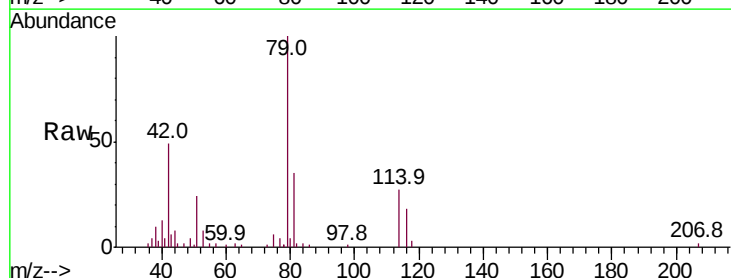
Acq: 13 Sep 2018 22:25

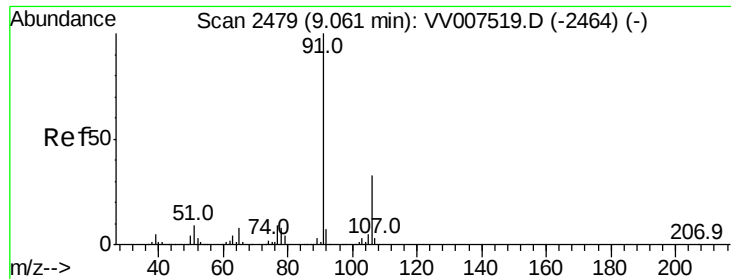
Tgt Ion: 75 Resp: 817

Ion Ratio Lower Upper

75 100

77 66.1 23.4 43.4#





#52

Ethylbenzene

Concen: 0.403 ug/L

RT: 9.07 min Scan# 2481

Delta R.T. 0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

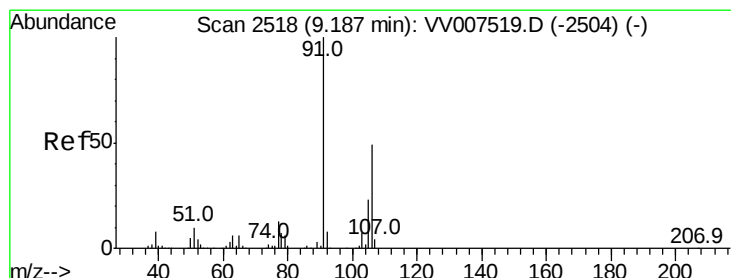
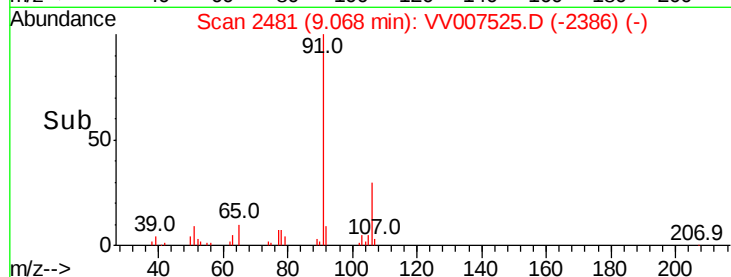
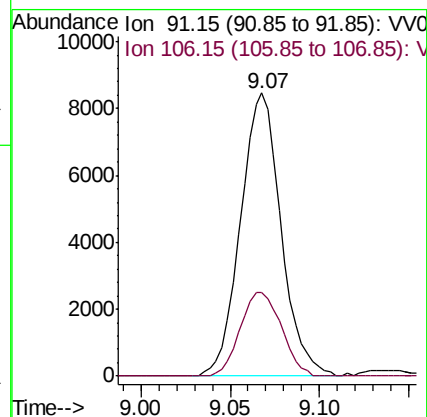
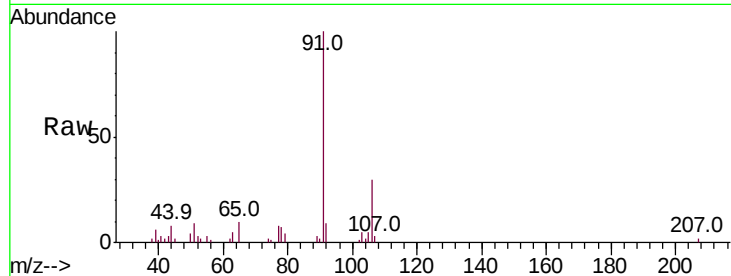
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 13342

Ion Ratio Lower Upper

91 100

106 29.7 22.0 41.0



#53

m,p-xylene

Concen: 1.416 ug/L

RT: 9.19 min Scan# 2519

Delta R.T. 0.00 min

Lab File: VV007525.D

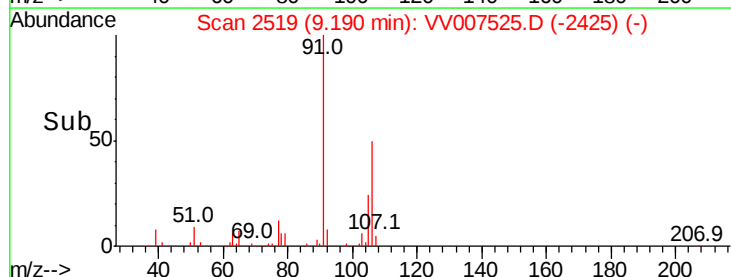
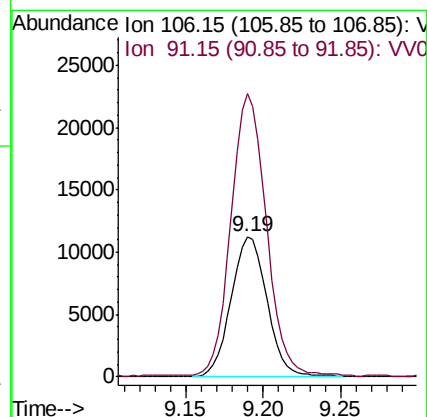
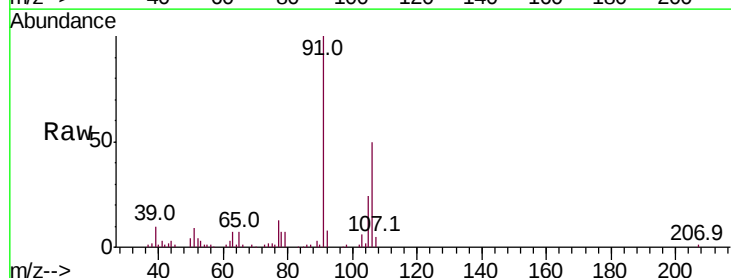
Acq: 13 Sep 2018 22:25

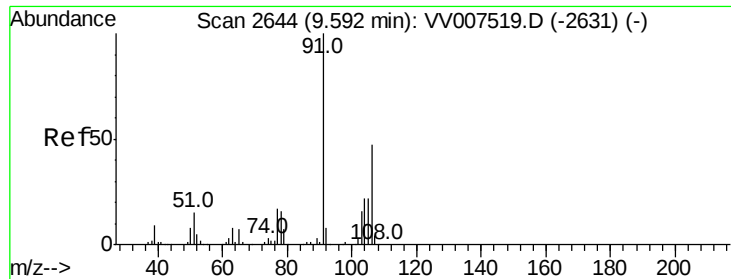
Tgt Ion: 106 Resp: 18142

Ion Ratio Lower Upper

106 100

91 201.6 137.2 254.8





#54

o-xylene

Concen: 0.463 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.01 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

Instrument :

MSVOA_V

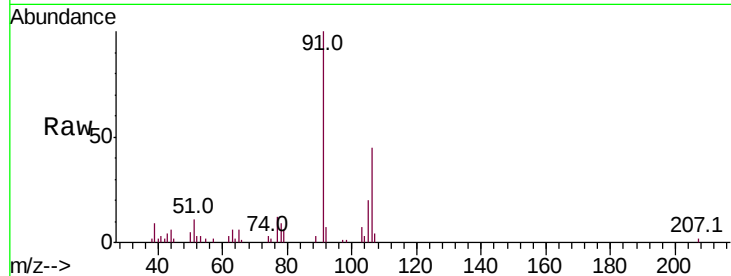
ClientSampleId :

Tot Ion:106 Resp: 5811

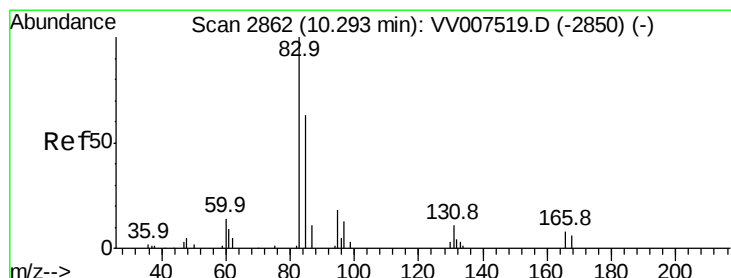
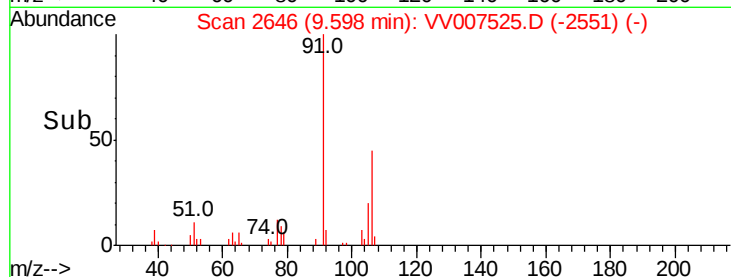
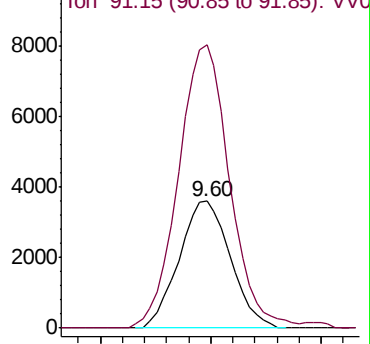
Ion Ratio Lower Upper

106 100

91 222.9 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VV007525.D (-2551) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 0.086 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV007525.D

Acq: 13 Sep 2018 22:25

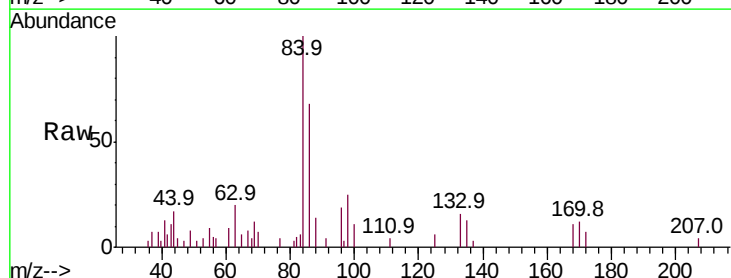
Tgt Ion: 83 Resp: 392

Ion Ratio Lower Upper

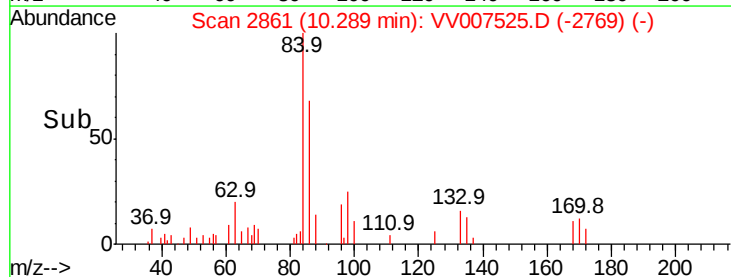
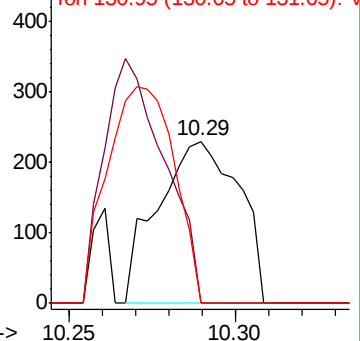
83 100

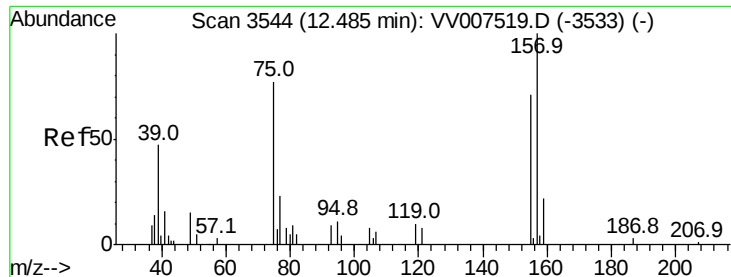
85 0.0 43.6 81.0#

131 0.0 9.2 13.8#



Abundance Ion 82.95 (82.65 to 83.65): VV007525.D (-2769) (-)

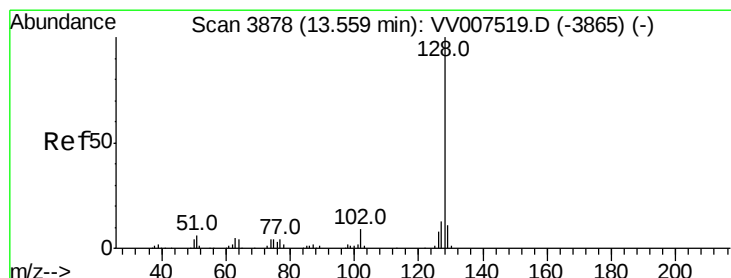
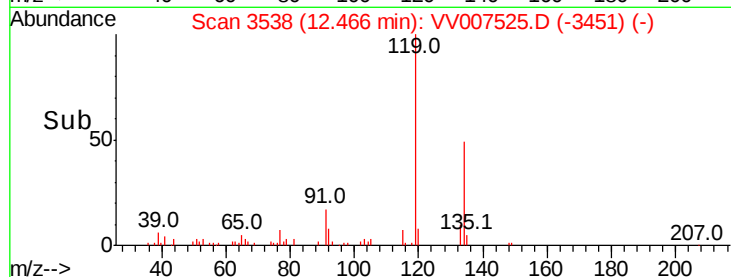
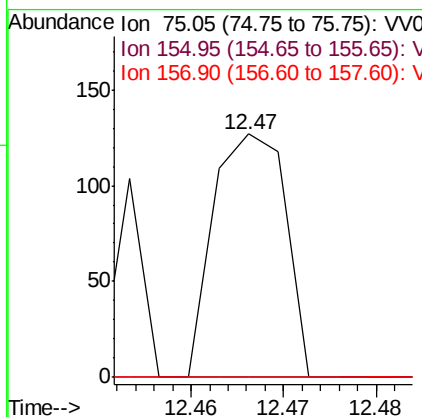
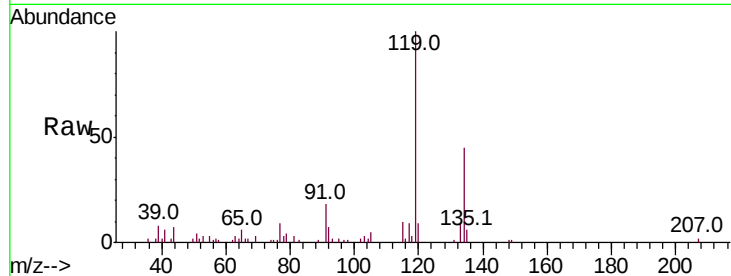




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.084 ug/L
 RT: 12.47 min Scan# 3538
 Delta R.T. -0.02 min
 Lab File: VV007525.D
 Acq: 13 Sep 2018 22:25

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 75 Resp: 68
 Ion Ratio Lower Upper
 75 100
 155 0.0 74.6 111.8#
 157 0.0 97.4 146.2#



#69
 Naphthalene
 Concen: 4.327 ug/L
 RT: 13.56 min Scan# 3877
 Delta R.T. -0.00 min
 Lab File: VV007525.D
 Acq: 13 Sep 2018 22:25

Tgt Ion: 128 Resp: 50006
 Ion Ratio Lower Upper
 128 100
 129 13.3 8.5 12.7#
 127 14.9 10.5 15.7

