

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV083118\
 Data File : VV007305.D
 Acq On : 31 Aug 2018 17:04
 Operator : SY/MD
 Sample : J4665-09MS
 Misc : 5.0 mL/MSVOA V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MS

Quant Time: Sep 01 00:03:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM083118WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 31 23:57:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	617923	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	589593	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	294805	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	195832	52.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.88%
7) Chloroethane-d5	1.58	69	108929	46.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.66%
11) 1,1-Dichloroethene-d2	2.13	63	338962	48.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.78%
21) 2-Butanone-d5	3.96	46	367844	121.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	121.81%
24) Chloroform-d	4.41	84	388303	48.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.09	65	230964	47.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.44%
32) Benzene-d6	5.10	84	786572	49.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.28%
36) 1,2-Dichloropropane-d6	6.12	67	256887	48.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.80%
41) Toluene-d8	7.36	98	719726	50.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.60%
43) trans-1,3-Dichloropropene-	7.67	79	113224	48.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.64%
47) 2-Hexanone-d5	8.14	63	244625	124.98	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	124.98%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	373505	52.20	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	296547	50.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.14%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.14	85	241186	49.67	ug/L	# 86
3) Chloromethane	1.25	50	253139	47.49	ug/L	98
5) Vinyl chloride	1.32	62	2688005	536.71	ug/L	100
6) Bromomethane	1.54	94	123155	50.92	ug/L	99
8) Chloroethane	1.59	64	107732	47.28	ug/L	99
9) Trichlorofluoromethane	1.76	101	317715	49.94	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	199944	50.19	ug/L	99
12) 1,1-Dichloroethene	2.14	96	188310	50.64	ug/L	95
13) Acetone	2.21	43	210622	80.90	ug/L	99
14) Carbon disulfide	2.32	76	524993	46.95	ug/L	100
15) Methyl Acetate	2.47	43	230837	54.90	ug/L	100
16) Methylene chloride	2.54	84	209774	48.14	ug/L	98
17) trans-1,2-Dichloroethene	2.79	96	226304	56.03	ug/L	99
18) Methyl tert-butyl Ether	2.82	73	612797	49.55	ug/L	100
19) 1,1-Dichloroethane	3.23	63	450051	55.10	ug/L	99
20) cis-1,2-Dichloroethene	3.97	96	1205322	259.23	ug/L	99
22) 2-Butanone	4.05	43	400313	110.40	ug/L	95

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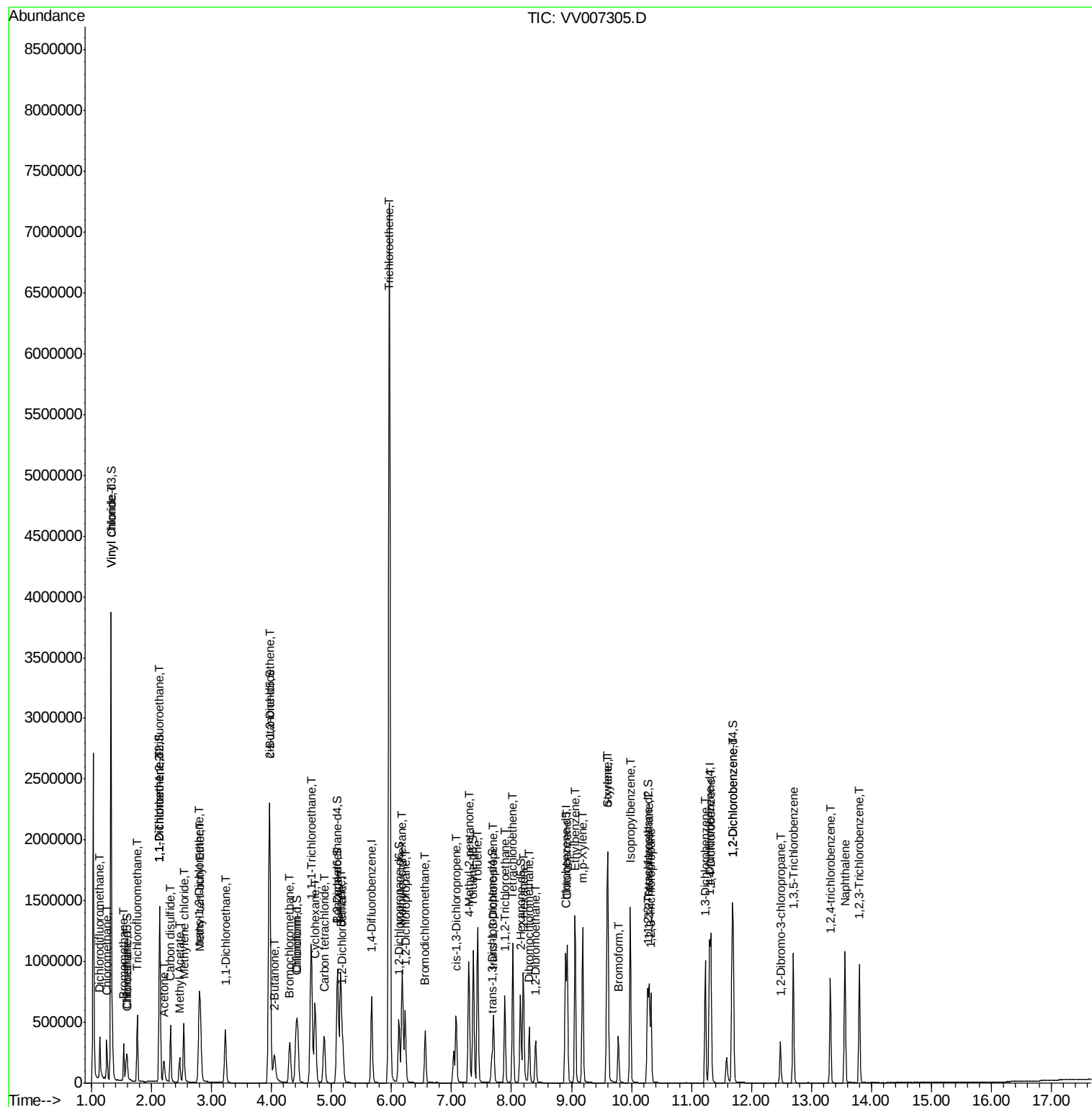
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	118932	49.32	ug/L	98
25) Chloroform	4.43	83	402692	50.11	ug/L	97
27) 1,2-Dichloroethane	5.19	62	302181	50.54	ug/L	98
29) Cyclohexane	4.73	56	342365	53.76	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	921634	137.34	ug/L	100
31) Carbon tetrachloride	4.88	117	292682	50.53	ug/L	100
33) Benzene	5.15	78	921392	51.59	ug/L	100
34) Trichloroethene	5.96	95	2507201	579.45	ug/L	99
35) Methylcyclohexane	6.18	83	382903	55.97	ug/L	99
37) 1,2-Dichloropropane	6.23	63	244575	50.73	ug/L	100
38) Bromodichloromethane	6.56	83	291319	49.29	ug/L	98
39) cis-1,3-Dichloropropene	7.08	75	336307	50.02	ug/L	100
40) 4-Methyl-2-pentanone	7.29	43	698155	127.00	ug/L	98
42) Toluene	7.44	91	927801	52.61	ug/L	99
44) trans-1,3-Dichloropropene	7.70	75	318088	50.94	ug/L	99
45) 1,1,2-Trichloroethane	7.89	97	231861	51.66	ug/L	99
46) Tetrachloroethene	8.02	164	266895	73.58	ug/L	99
48) 2-Hexanone	8.20	43	574693	129.13	ug/L	99
49) Dibromochloromethane	8.30	129	234995	49.88	ug/L	99
50) 1,2-Dibromoethane	8.40	107	226513	50.54	ug/L	99
51) Chlorobenzene	8.93	112	589959	49.80	ug/L	100
52) Ethylbenzene	9.06	91	942464	51.67	ug/L	99
53) m,p-Xylene	9.19	106	370517	53.81	ug/L	97
54) o-xylene	9.59	106	350709	52.46	ug/L	99
55) Styrene	9.61	104	647593	55.64	ug/L	99
56) Isopropylbenzene	9.98	105	911073	53.68	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	386911	53.44	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	311556	54.45	ug/L	100
61) Bromoform	9.78	173	175722	48.37	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	422314	48.59	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	463413	49.19	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	485824	51.19	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	82539	53.60	ug/L	92
67) 1,3,5-Trichlorobenzene	12.70	180	339182	50.46	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	270406	50.36	ug/L	100
69) Naphthalene	13.56	128	856588	57.21	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	310325	53.26	ug/L	100

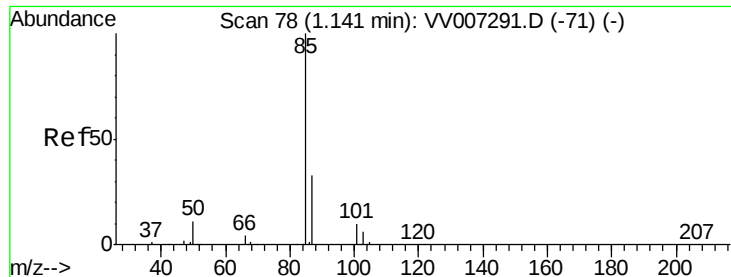
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 49.67 ug/L

RT: 1.14 min Scan# 77

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

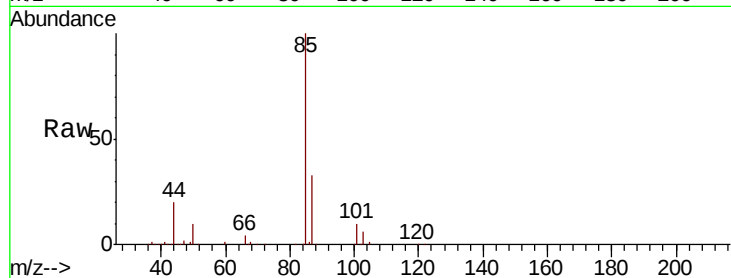
E0AA4MS

Tot Ion: 85 Resp: 241186

Ion Ratio Lower Upper

85 100

87 32.6 20.3 30.5#



Abundance Ion 85.00 (84.70 to 85.70): VV007291.D (-71) (-)

Ion 87.00 (86.70 to 87.70): VV007291.D (-71) (-)

1.14

200000

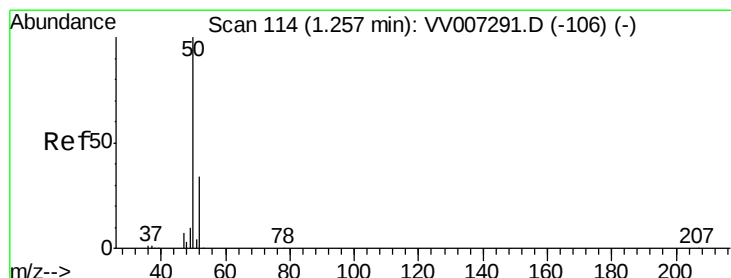
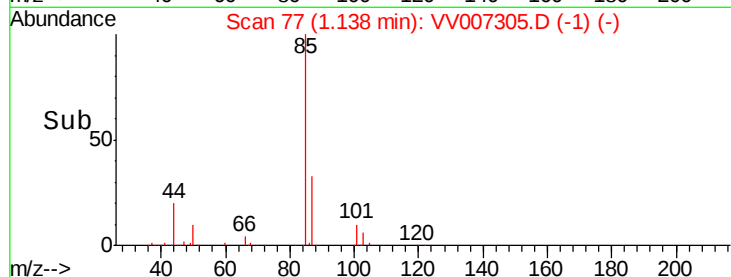
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 47.49 ug/L

RT: 1.25 min Scan# 113

Delta R.T. -0.00 min

Lab File: VV007305.D

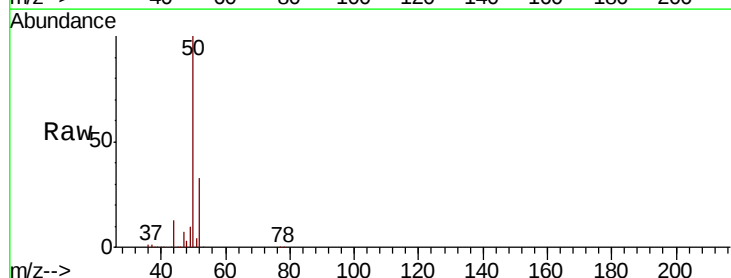
Acq: 31 Aug 2018 17:04

Tgt Ion: 50 Resp: 253139

Ion Ratio Lower Upper

50 100

52 32.8 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VV007291.D (-106) (-)

Ion 52.00 (51.70 to 52.70): VV007291.D (-106) (-)

1.25

200000

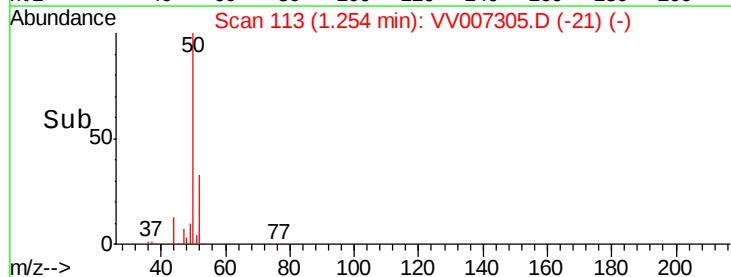
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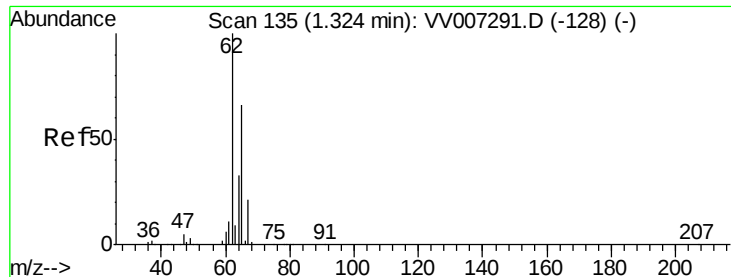
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 536.71 ug/L

RT: 1.32 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

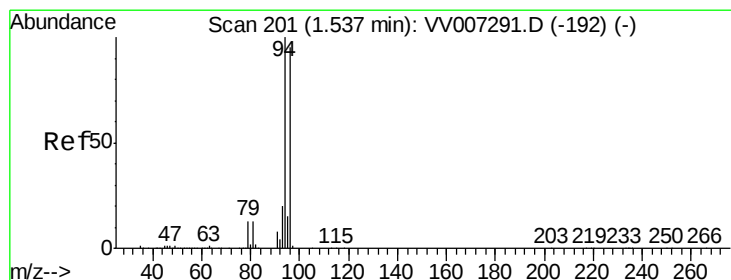
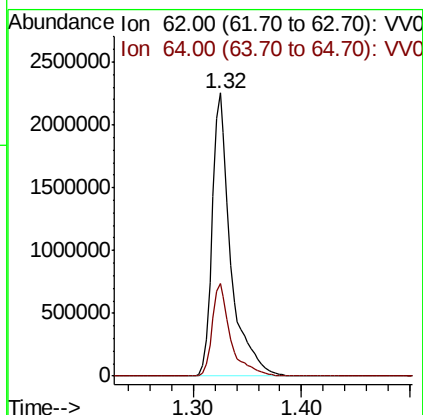
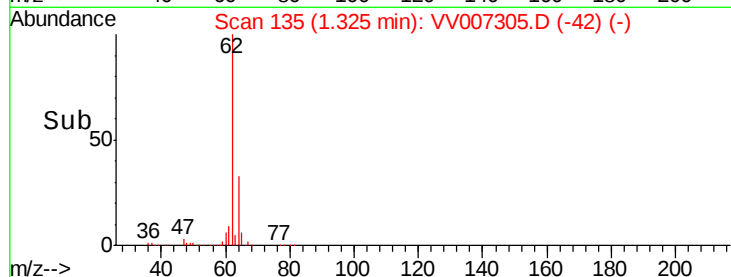
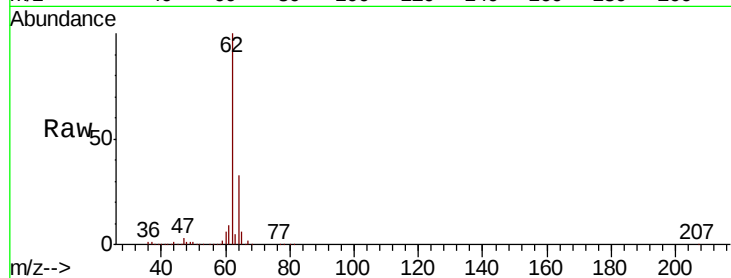
E0AA4MS

Tot Ion: 62 Resp: 2688005

Ion Ratio Lower Upper

62 100

64 32.9 23.2 43.0



#6

Bromomethane

Concen: 50.92 ug/L

RT: 1.54 min Scan# 201

Delta R.T. 0.00 min

Lab File: VV007305.D

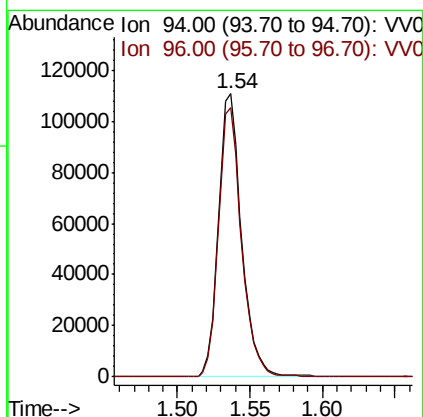
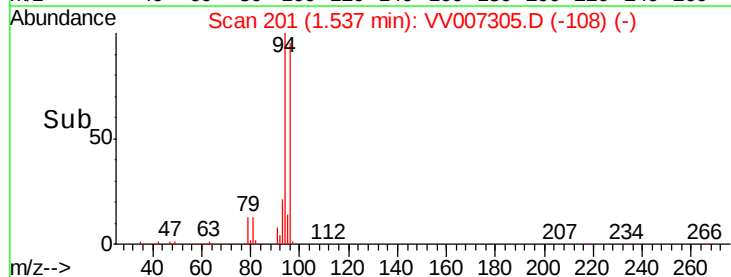
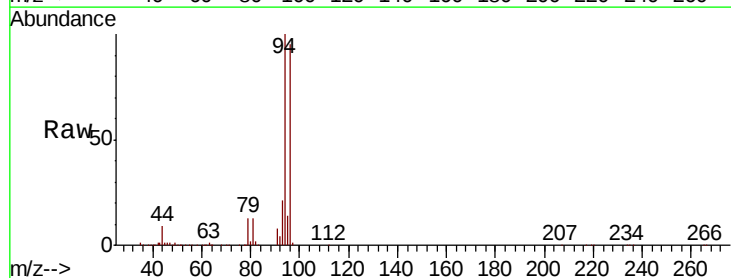
Acq: 31 Aug 2018 17:04

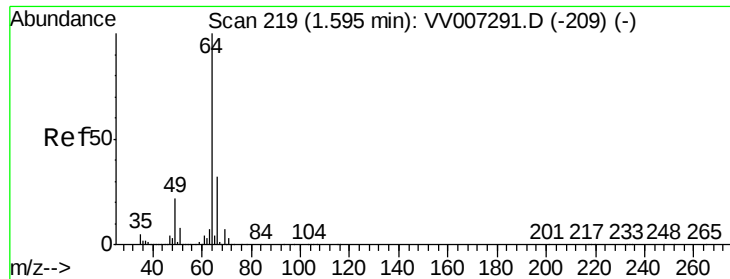
Tgt Ion: 94 Resp: 123155

Ion Ratio Lower Upper

94 100

96 95.0 66.1 122.7

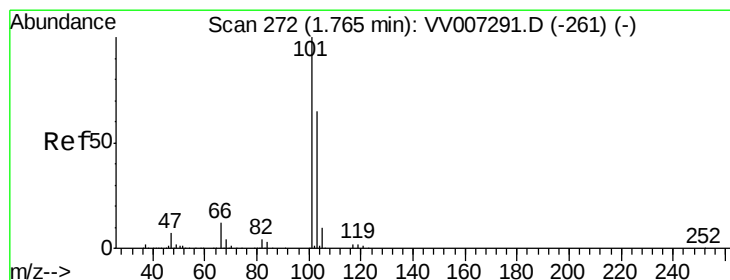
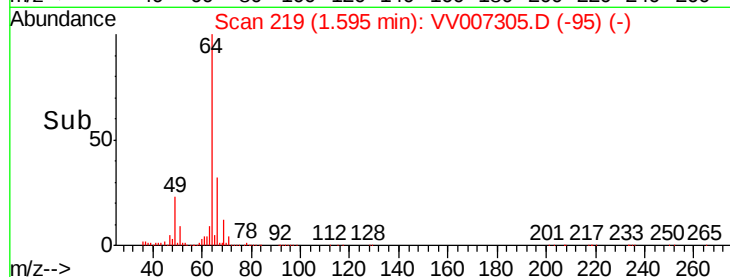
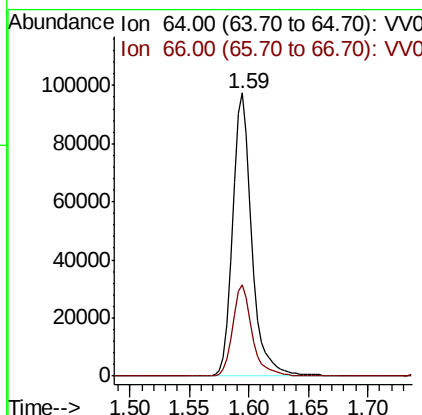
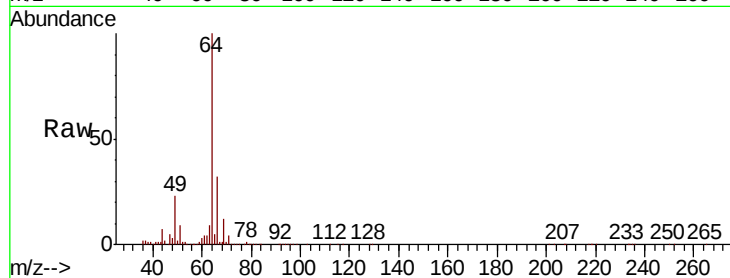




#8
Chloroethane
Concen: 47.28 ug/L
RT: 1.59 min Scan# 219
Delta R.T. 0.00 min
Lab File: VV007305.D
Acq: 31 Aug 2018 17:04

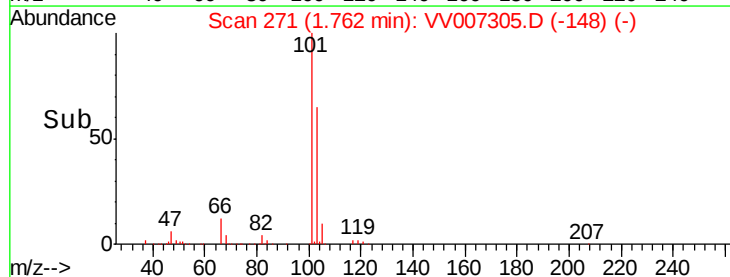
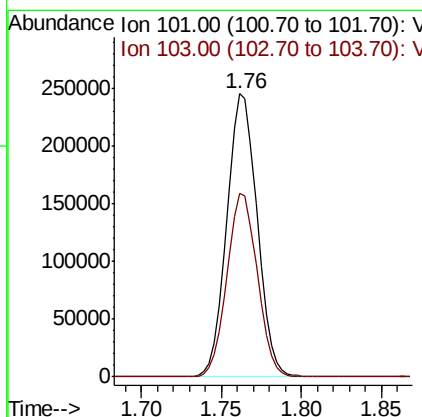
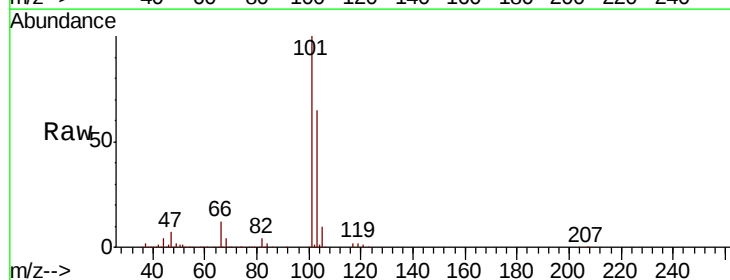
Instrument :
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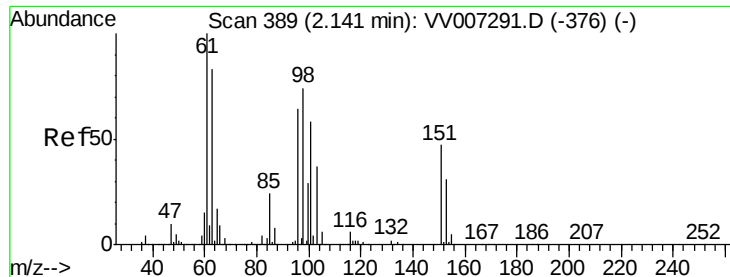
Tot Ion: 64 Resp: 107732
Ion Ratio Lower Upper
64 100
66 32.2 22.3 41.3



#9
Trichlorofluoromethane
Concen: 49.94 ug/L
RT: 1.76 min Scan# 271
Delta R.T. -0.00 min
Lab File: VV007305.D
Acq: 31 Aug 2018 17:04

Tgt Ion: 101 Resp: 317715
Ion Ratio Lower Upper
101 100
103 65.0 52.3 78.5





#10

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

Concen: 50.19 ug/L

RT: 2.14 min Scan# 388

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MS

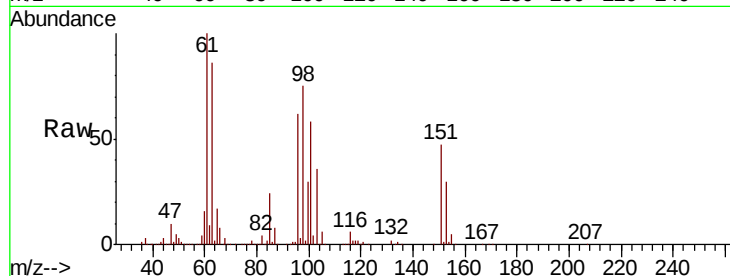
Tot Ion:101 Resp: 199944

Ion Ratio Lower Upper

101 100

85 41.1 32.8 49.2

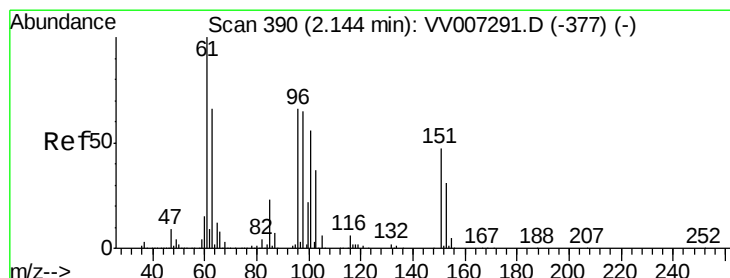
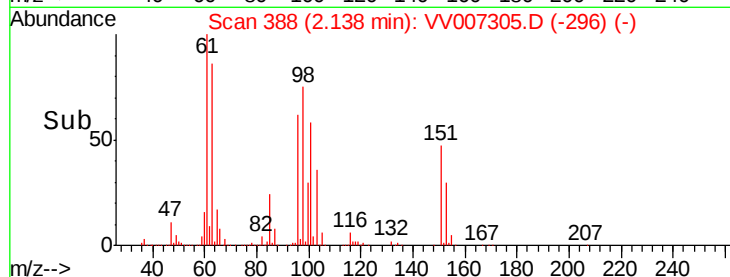
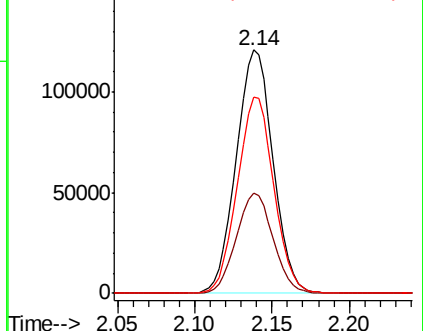
151 80.0 64.8 97.2



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: 50.64 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

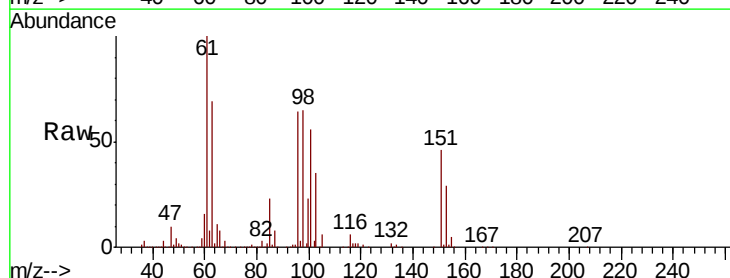
Tgt Ion: 96 Resp: 188310

Ion Ratio Lower Upper

96 100

61 157.1 106.3 197.5

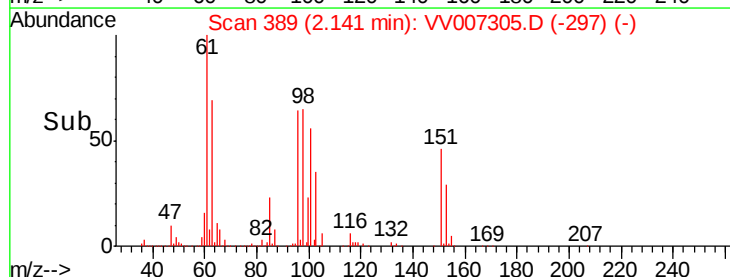
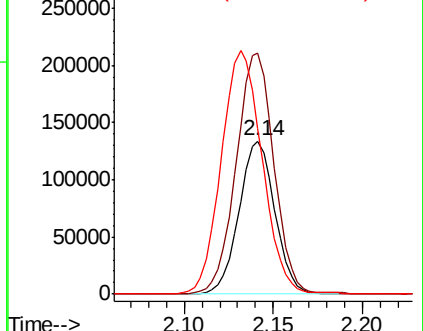
63 108.4 71.0 131.8

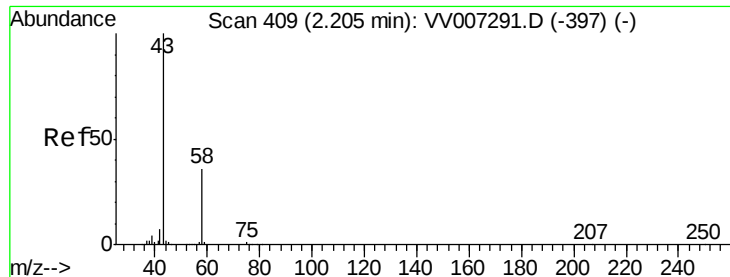


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 80.90 ug/L

RT: 2.21 min Scan# 410

Delta R.T. 0.00 min

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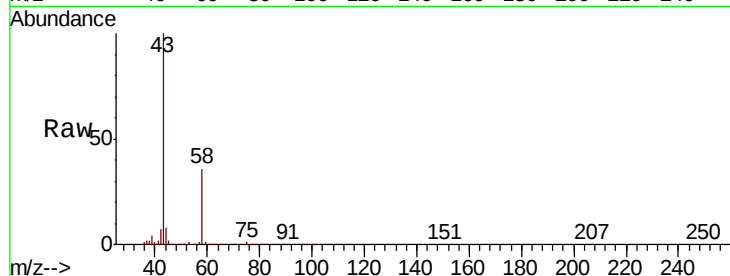
E0AA4MS

Tot Ion: 43 Resp: 210622

Ion Ratio Lower Upper

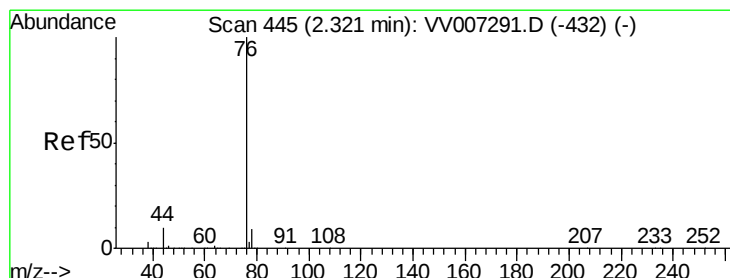
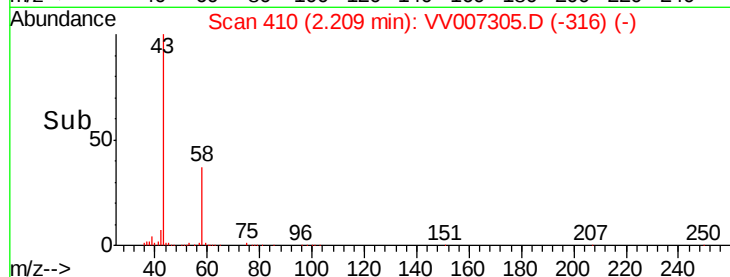
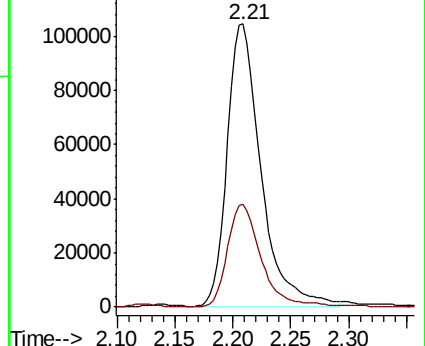
43 100

58 35.4 0.0 72.2



Abundance Ion 43.00 (42.70 to 43.70): VV007291.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VV007291.D (-397) (-)



#14

Carbon disulfide

Concen: 46.95 ug/L

RT: 2.32 min Scan# 444

Delta R.T. -0.00 min

Lab File: VV007305.D

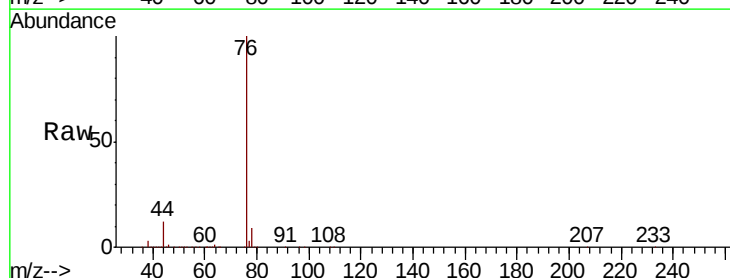
Acq: 31 Aug 2018 17:04

Tgt Ion: 76 Resp: 524993

Ion Ratio Lower Upper

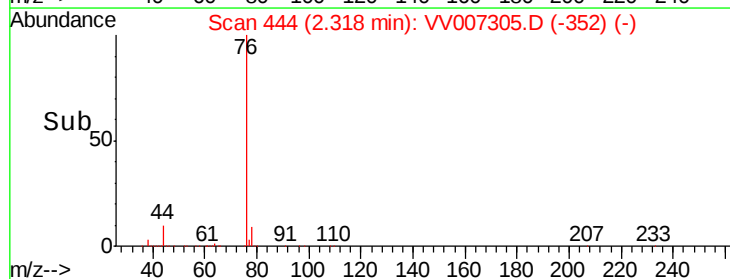
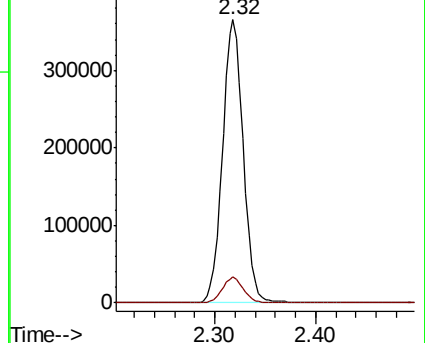
76 100

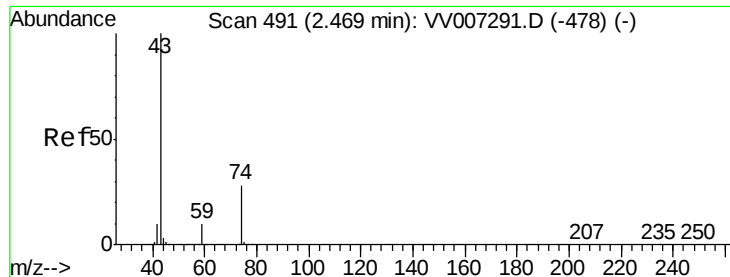
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV007291.D (-432) (-)

Ion 78.00 (77.70 to 78.70): VV007291.D (-432) (-)





#15

Methvl Acetate

Concen: 54.90 ug/L

RT: 2.47 min Scan# 491

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

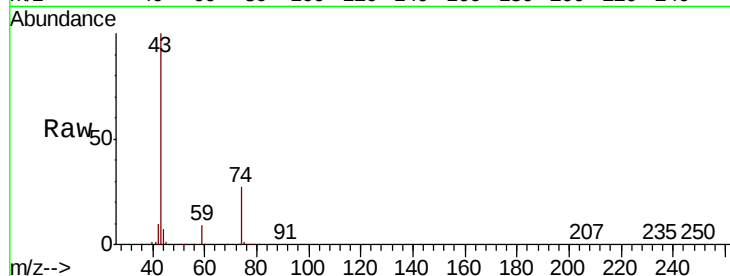
E0AA4MS

Tot Ion: 43 Resp: 230837

Ion Ratio Lower Upper

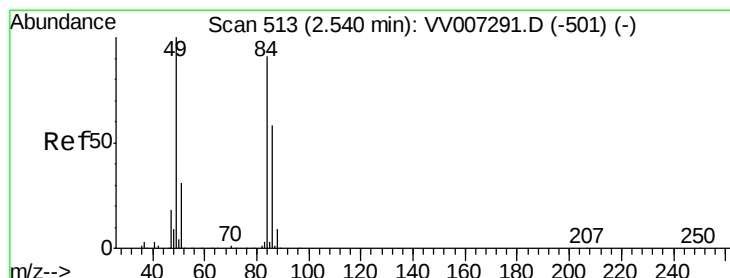
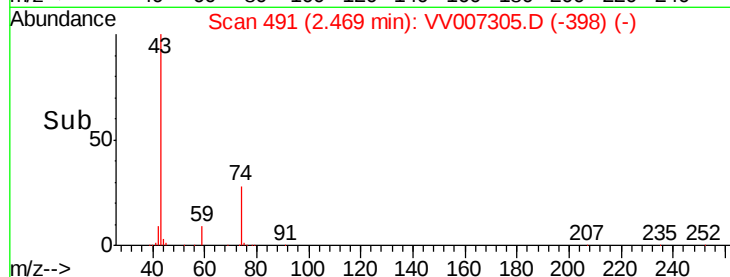
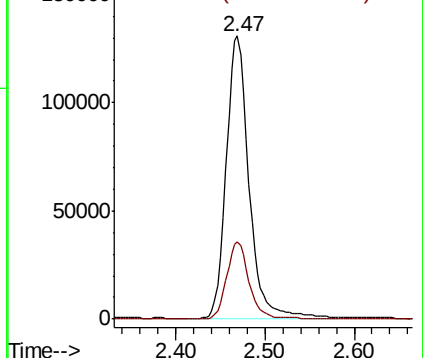
43 100

74 26.7 21.4 32.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 48.14 ug/L

RT: 2.54 min Scan# 513

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

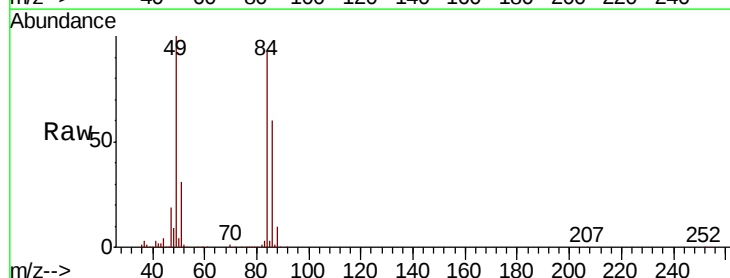
Tgt Ion: 84 Resp: 209774

Ion Ratio Lower Upper

84 100

86 64.2 44.9 83.3

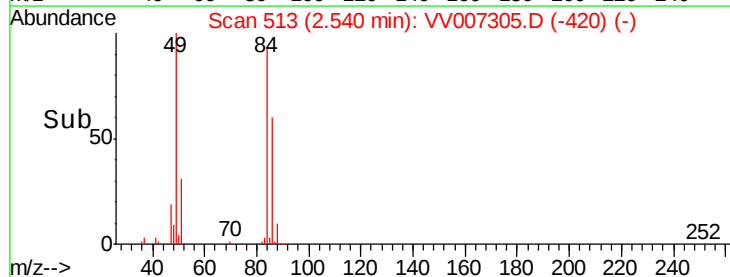
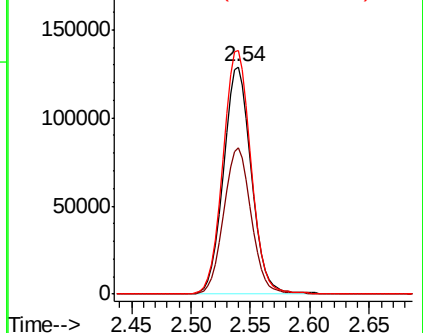
49 107.2 77.0 143.0

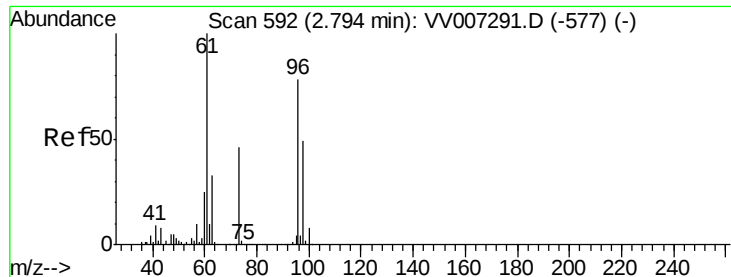


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 56.03 ug/L

RT: 2.79 min Scan# 591

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MS

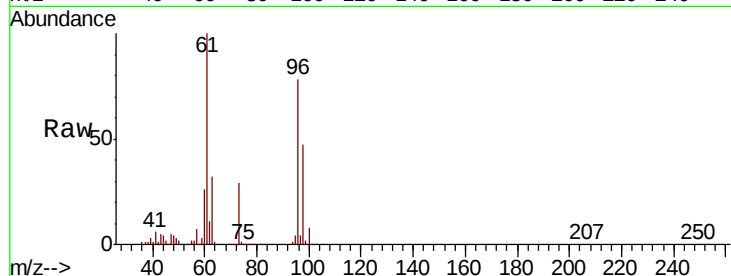
Tot Ion: 96 Resp: 226304

Ion Ratio Lower Upper

96 100

61 128.8 90.4 167.8

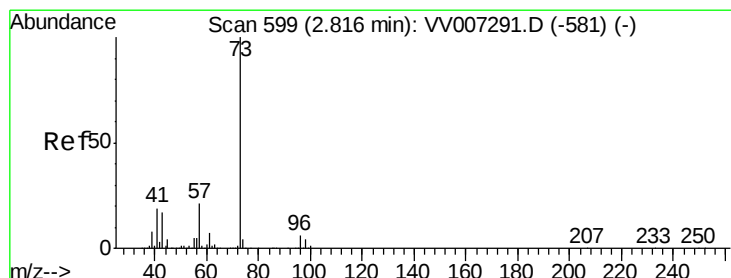
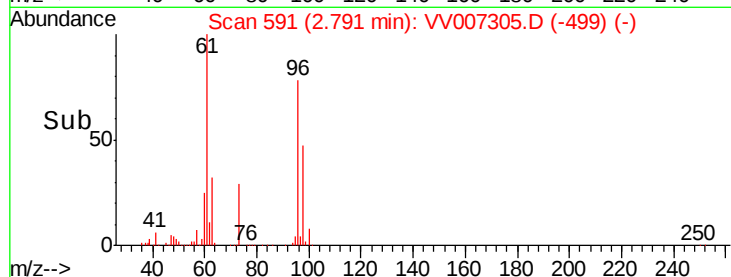
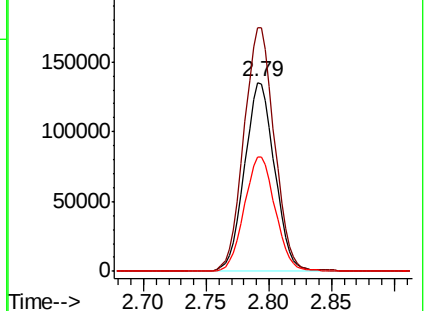
98 60.5 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 49.55 ug/L

RT: 2.82 min Scan# 599

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

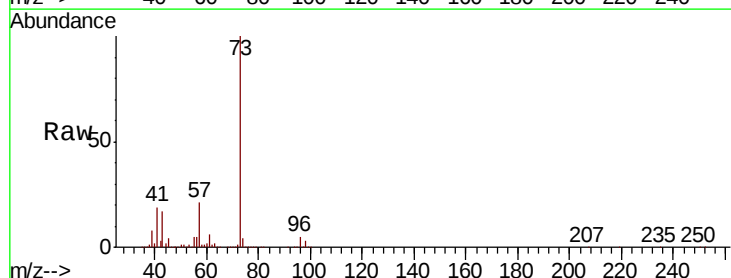
Tgt Ion: 73 Resp: 612797

Ion Ratio Lower Upper

73 100

43 16.8 13.4 20.2

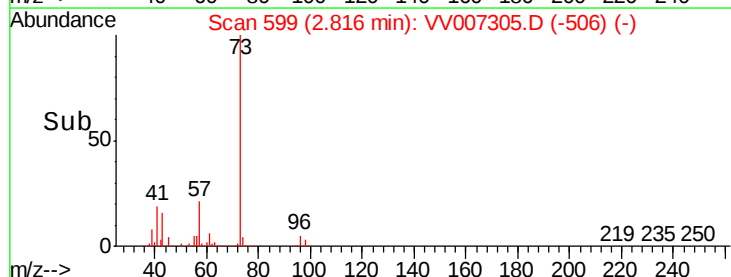
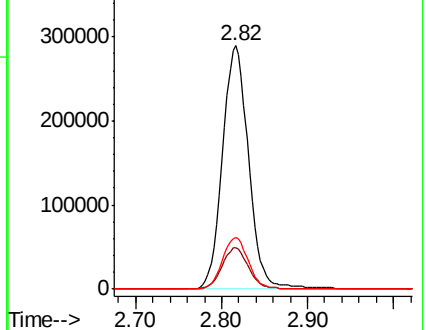
57 21.4 16.8 25.2

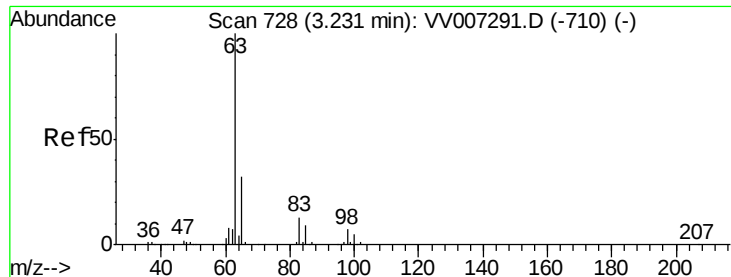


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 55.10 ug/L

RT: 3.23 min Scan# 728

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MS

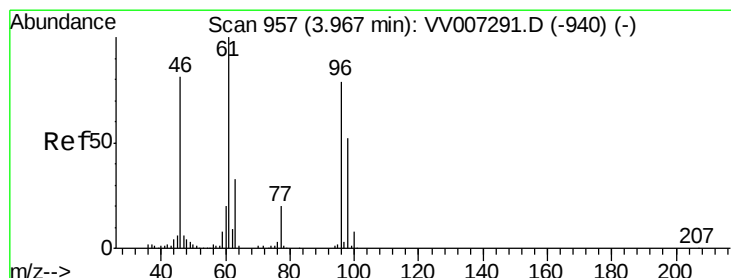
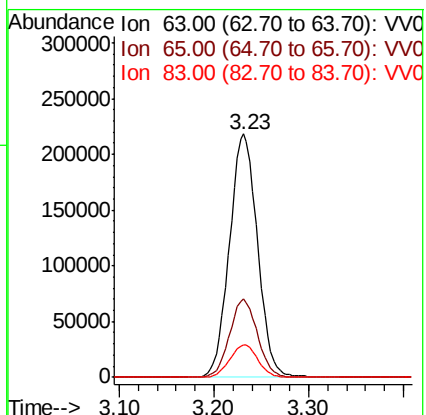
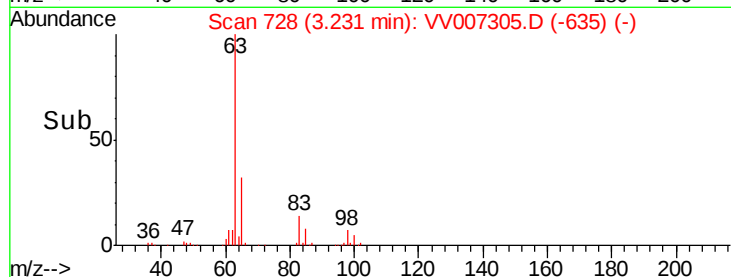
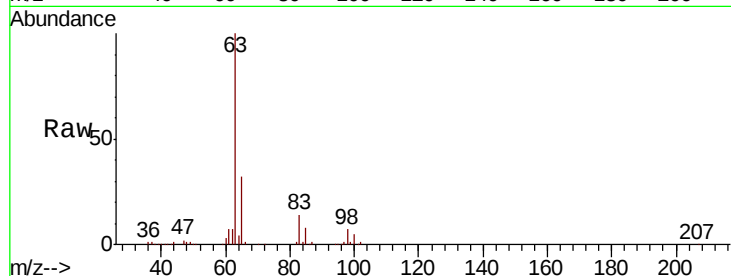
Tot Ion: 63 Resp: 450051

Ion Ratio Lower Upper

63 100

65 32.1 22.0 41.0

83 13.6 8.8 16.4



#20

cis-1,2-Dichloroethene

Concen: 259.23 ug/L

RT: 3.97 min Scan# 957

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

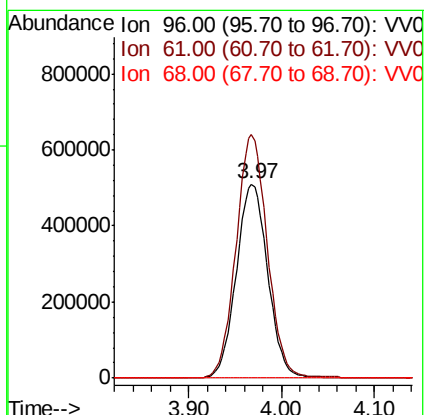
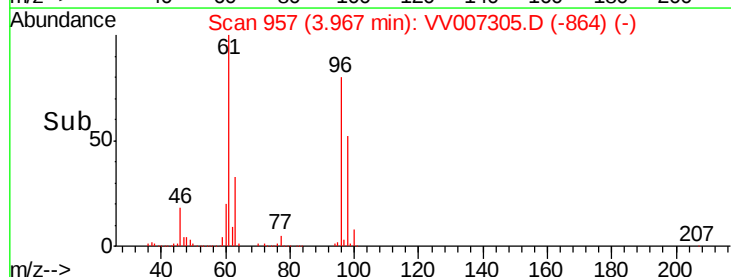
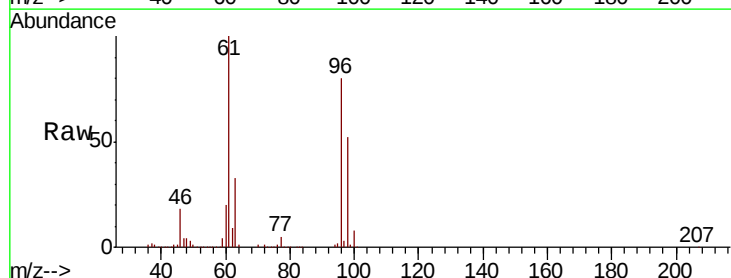
Tgt Ion: 96 Resp: 1205322

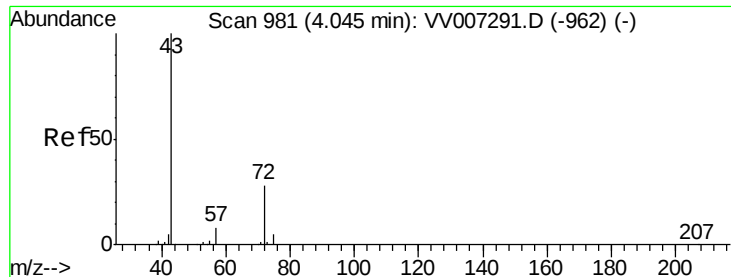
Ion Ratio Lower Upper

96 100

61 125.3 88.4 164.2

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 110.40 ug/L

RT: 4.05 min Scan# 982

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

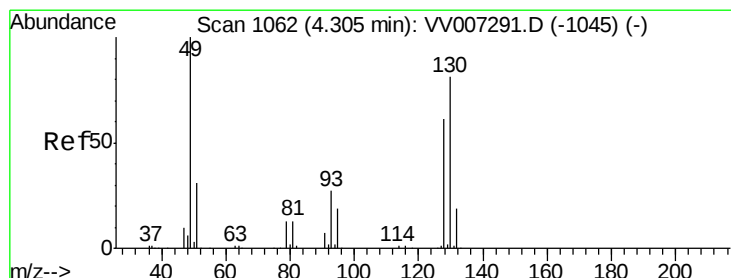
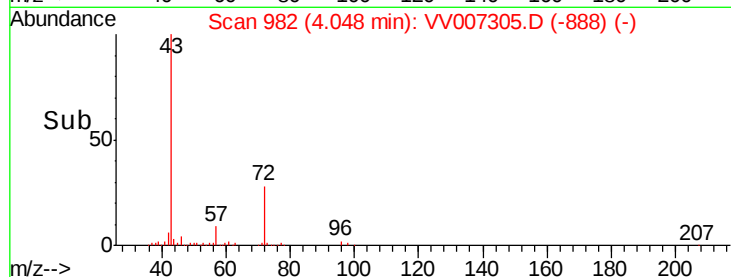
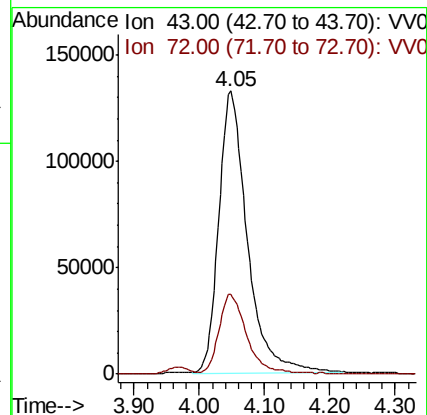
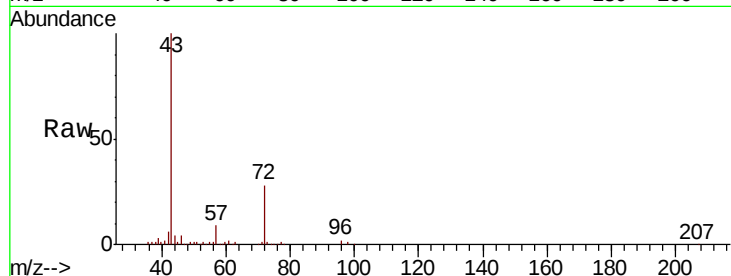
E0AA4MS

Tot Ion: 43 Resp: 400313

Ion Ratio Lower Upper

43 100

72 25.6 14.1 42.2



#23

Bromochloromethane

Concen: 49.32 ug/L

RT: 4.31 min Scan# 1062

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Tgt Ion: 128 Resp: 118932

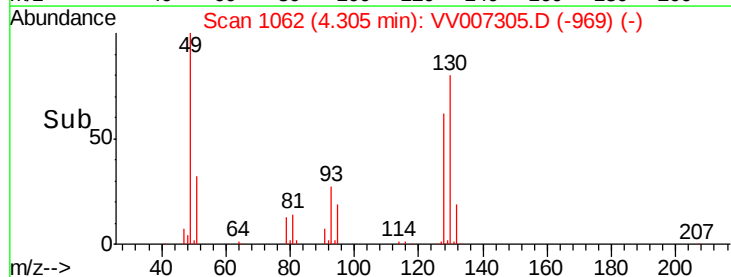
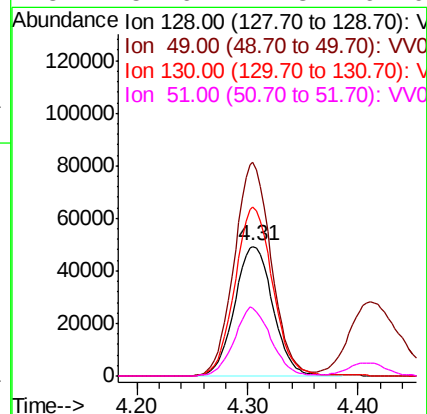
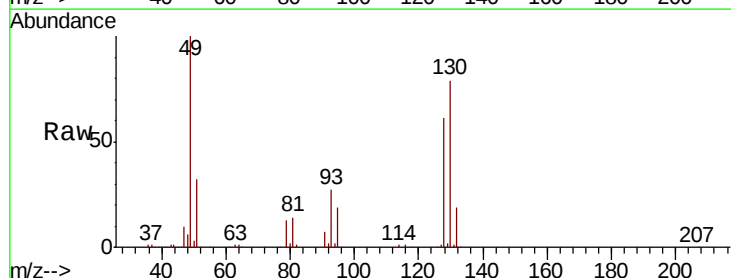
Ion Ratio Lower Upper

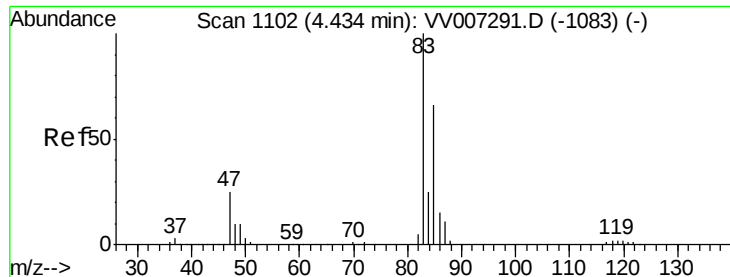
128 100

49 164.6 115.6 214.8

130 130.1 93.7 173.9

51 52.6 41.3 61.9

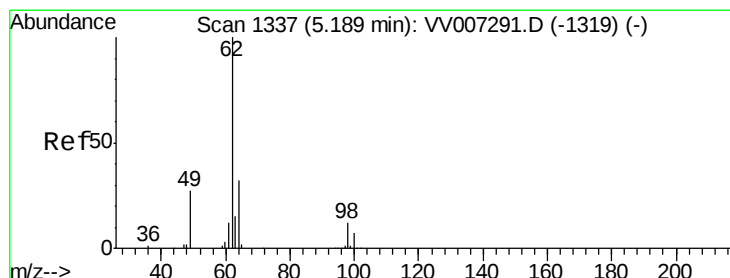
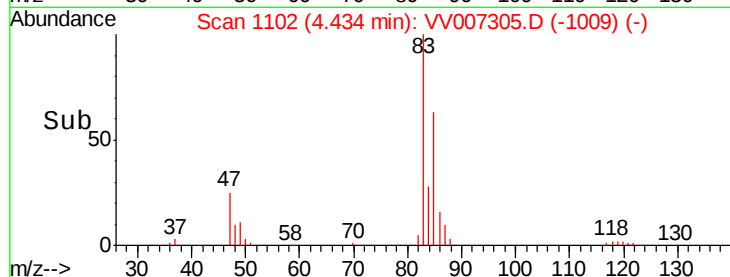
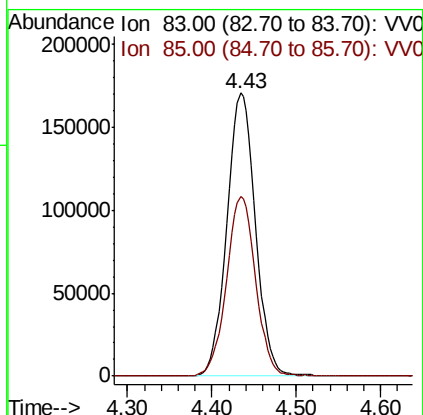
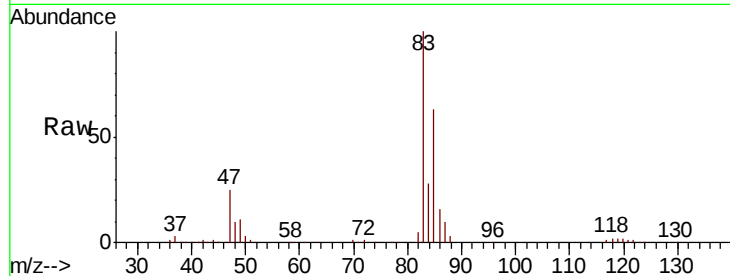




#25
Chloroform
Concen: 50.11 ug/L
RT: 4.43 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VV007305.D
Acq: 31 Aug 2018 17:04

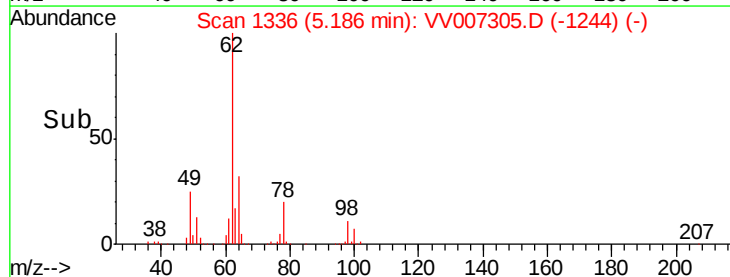
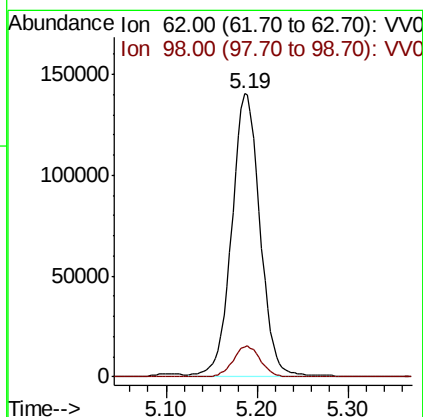
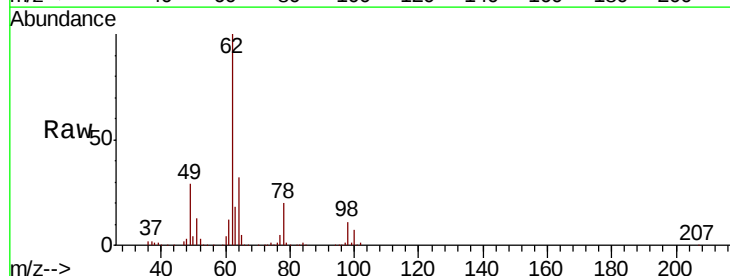
Instrument :
MSVOA_V
ClientSampleId :
E0AA4MS

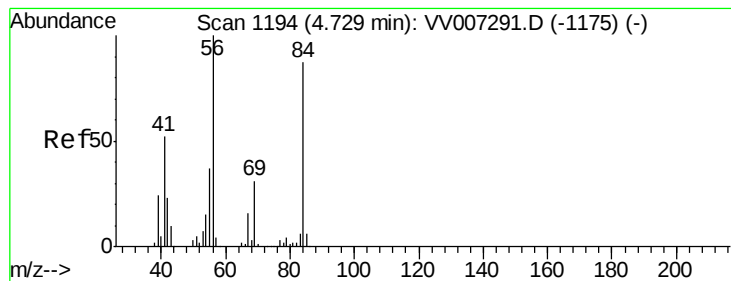
Tot Ion: 83 Resp: 402692
Ion Ratio Lower Upper
83 100
85 63.4 46.1 85.7



#27
1,2-Dichloroethane
Concen: 50.54 ug/L
RT: 5.19 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VV007305.D
Acq: 31 Aug 2018 17:04

Tgt Ion: 62 Resp: 302181
Ion Ratio Lower Upper
62 100
98 10.8 9.1 13.7





#29

Cyclohexane

Concen: 53.76 ug/L

RT: 4.73 min Scan# 1193

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MS

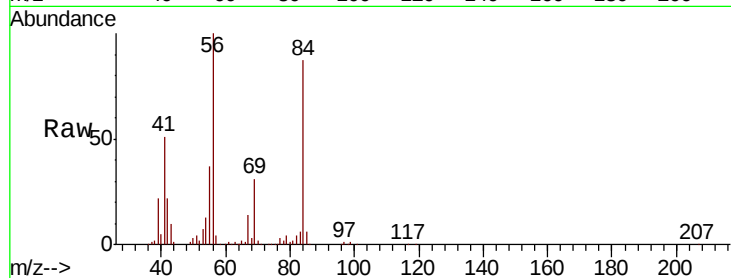
Tot Ion: 56 Resp: 342365

Ion Ratio Lower Upper

56 100

69 30.7 24.7 37.1

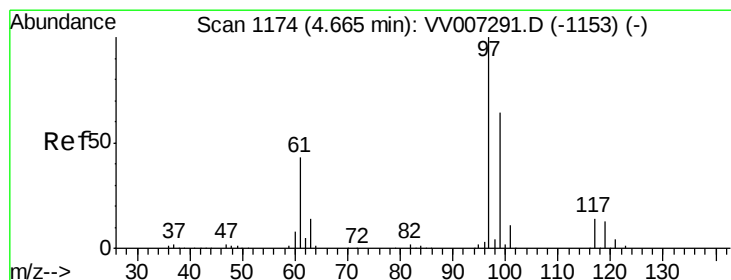
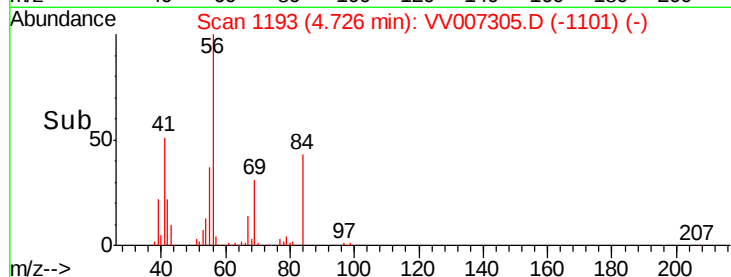
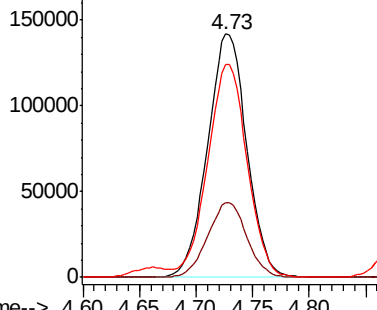
84 87.9 70.8 106.2



Abundance Ion 56.00 (55.70 to 56.70): VV007291.D (-1175) (-)

Ion 69.00 (68.70 to 69.70): VV007291.D (-1175) (-)

Ion 84.00 (83.70 to 84.70): VV007291.D (-1175) (-)



#30

1,1,1-Trichloroethane

Concen: 137.34 ug/L

RT: 4.66 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

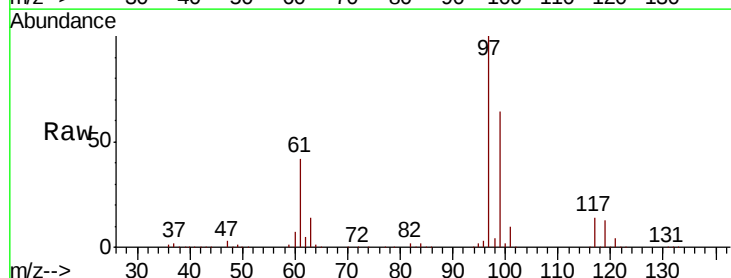
Tgt Ion: 97 Resp: 921634

Ion Ratio Lower Upper

97 100

99 64.6 51.4 77.0

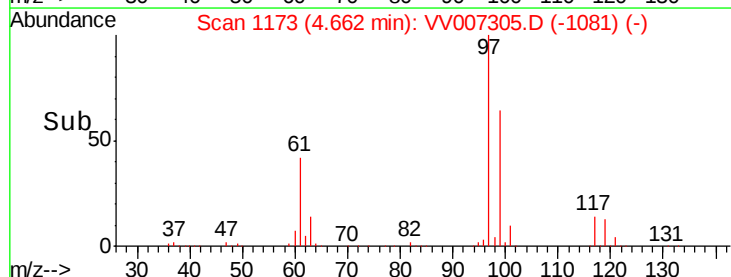
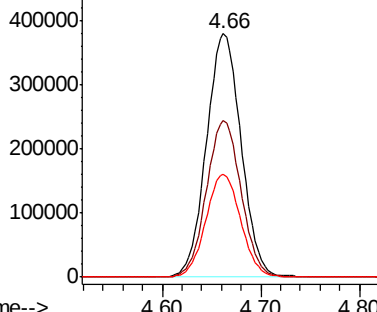
61 43.0 34.6 51.8

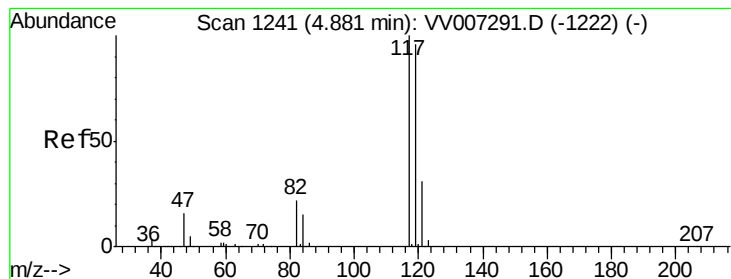


Abundance Ion 97.00 (96.70 to 97.70): VV007291.D (-1153) (-)

Ion 99.00 (98.70 to 99.70): VV007291.D (-1153) (-)

Ion 61.05 (60.75 to 61.75): VV007291.D (-1153) (-)





#31

Carbon tetrachloride

Concen: 50.53 ug/L

RT: 4.88 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

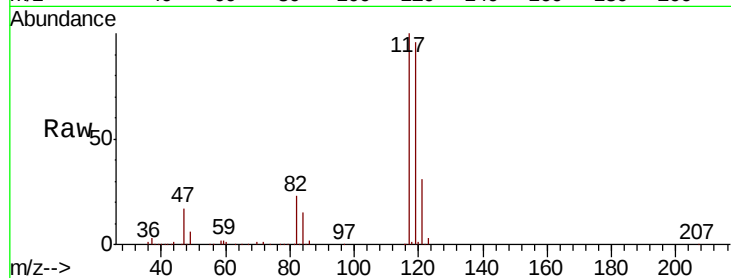
E0AA4MS

Tot Ion:117 Resp: 292682

Ion Ratio Lower Upper

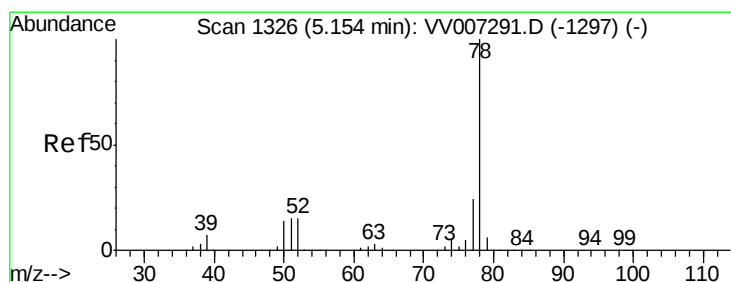
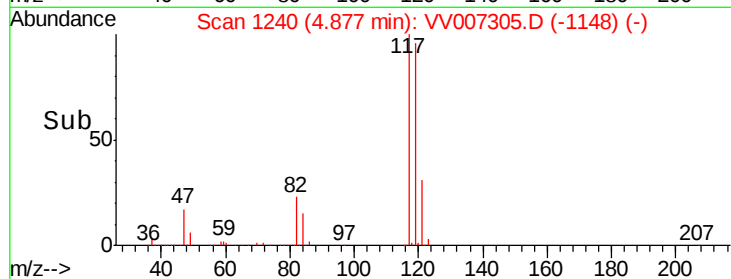
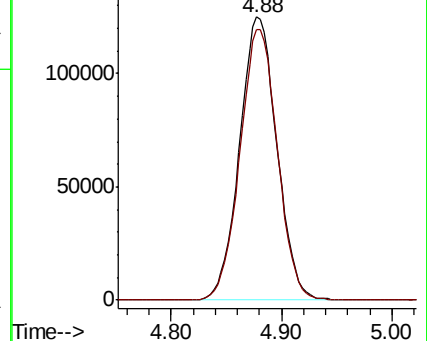
117 100

119 96.3 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.59 ug/L

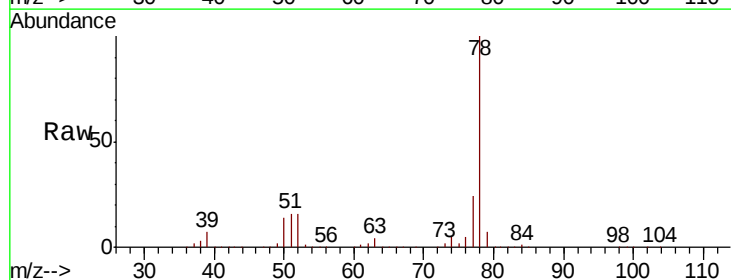
RT: 5.15 min Scan# 1325

Delta R.T. -0.00 min

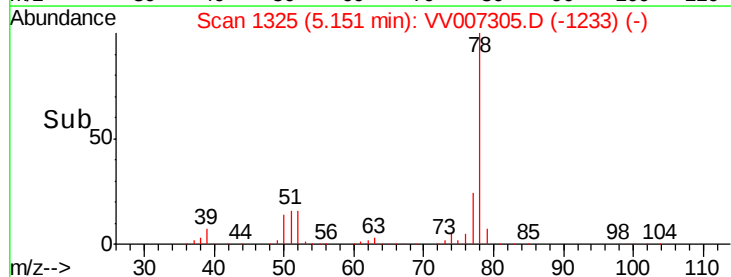
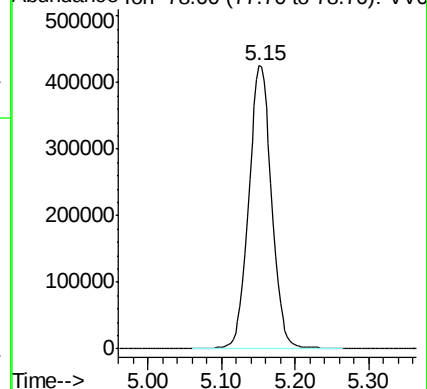
Lab File: VV007305.D

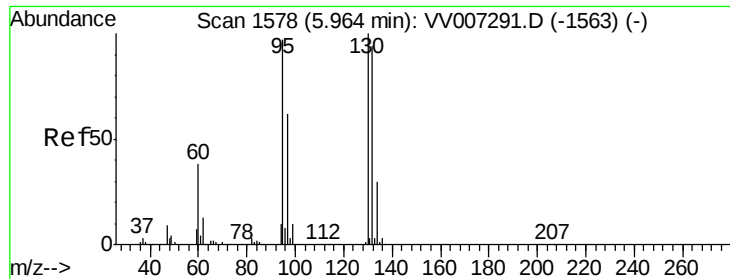
Acq: 31 Aug 2018 17:04

Tgt Ion: 78 Resp: 921392



Abundance Ion 78.00 (77.70 to 78.70): VV0

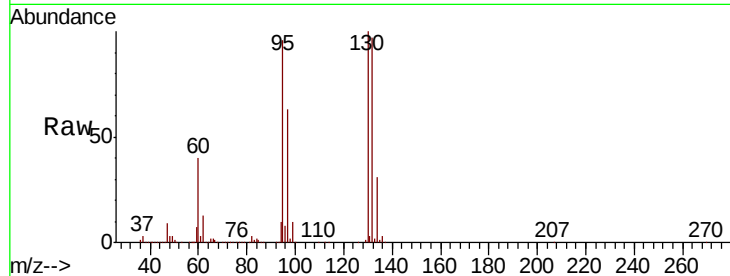




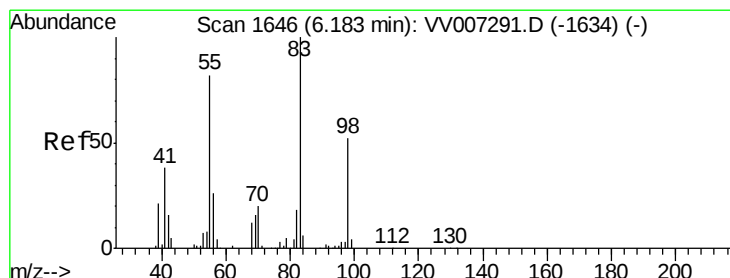
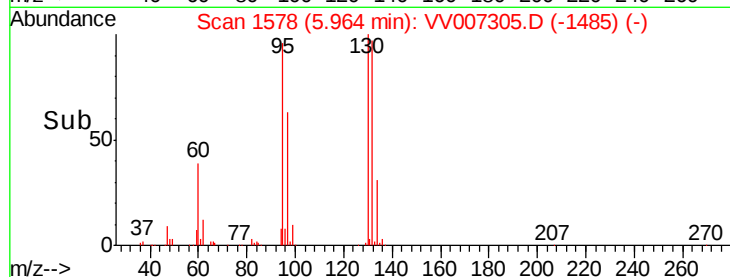
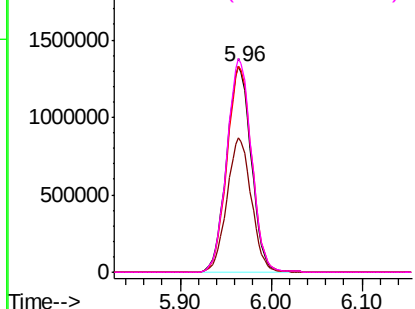
#34
 Trichloroethene
 Concen: 579.45 ug/L
 RT: 5.96 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MS

Tot Ion: 95 Resp: 2507201
 Ion Ratio Lower Upper
 95 100
 97 65.2 45.1 83.9
 132 100.2 68.3 126.9
 130 103.7 72.4 134.5

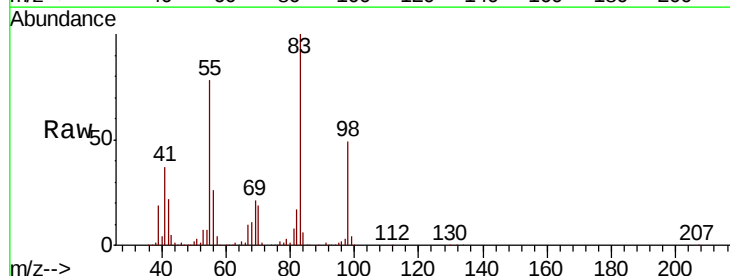


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

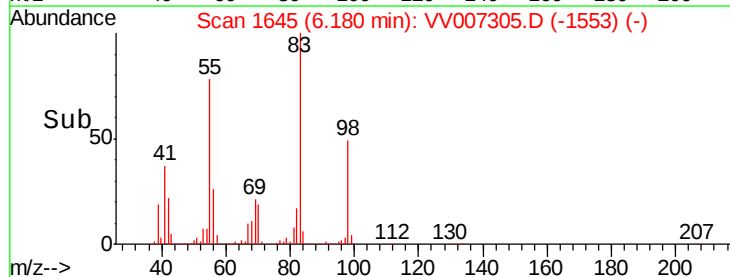
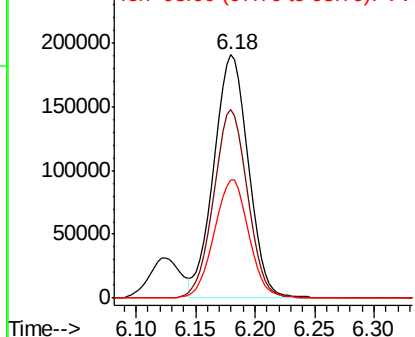


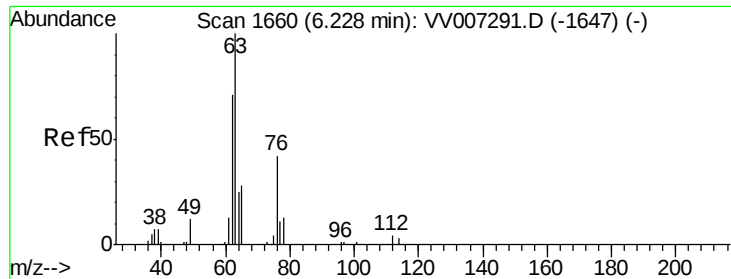
#35
 Methylcyclohexane
 Concen: 55.97 ug/L
 RT: 6.18 min Scan# 1645
 Delta R.T. -0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Tgt Ion: 83 Resp: 382903
 Ion Ratio Lower Upper
 83 100
 55 76.3 62.4 93.6
 98 49.2 39.0 58.4



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 50.73 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampled :

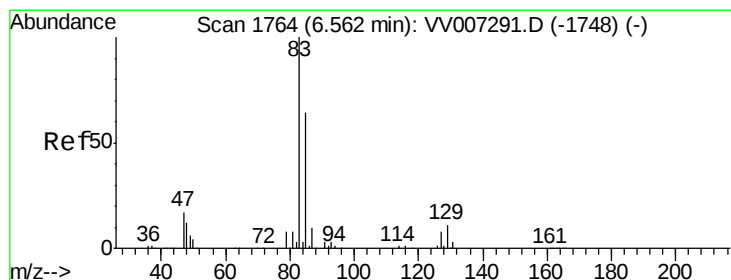
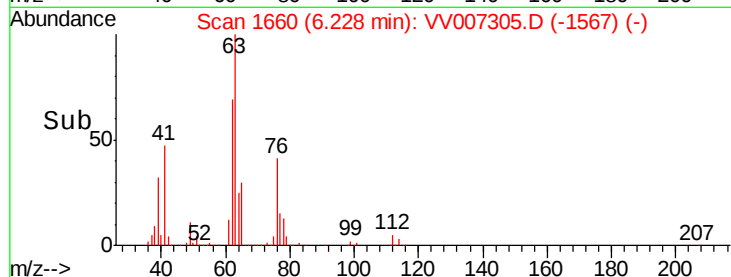
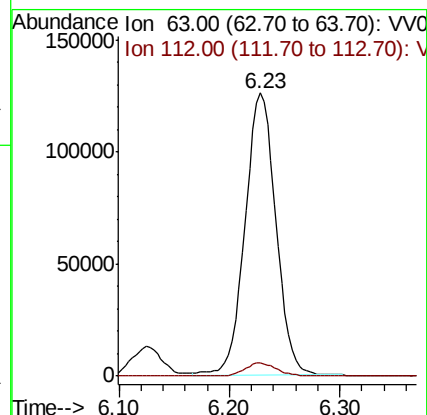
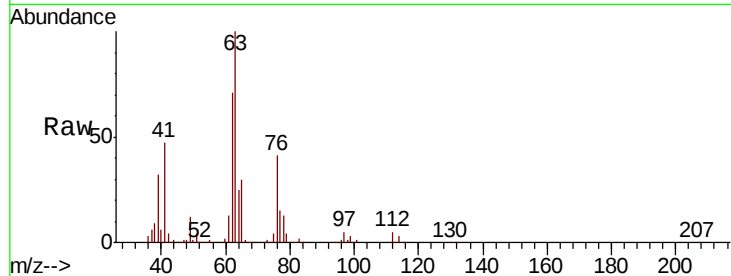
E0AA4MS

Tot Ion: 63 Resp: 244575

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.8



#38

Bromodichloromethane

Concen: 49.29 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

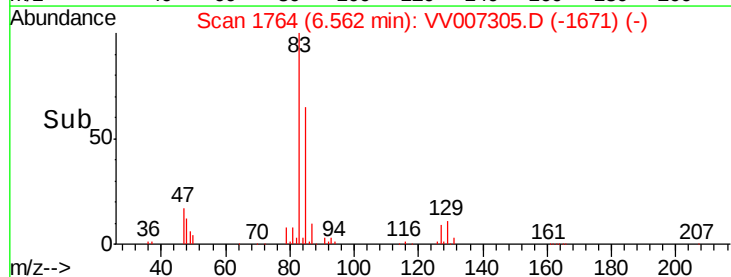
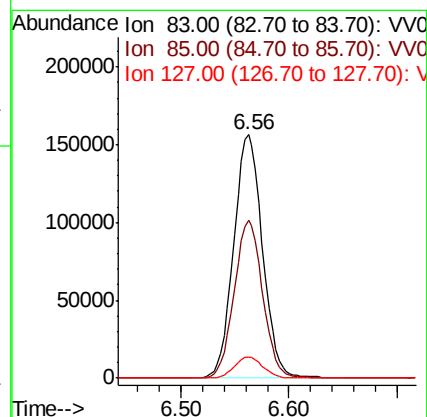
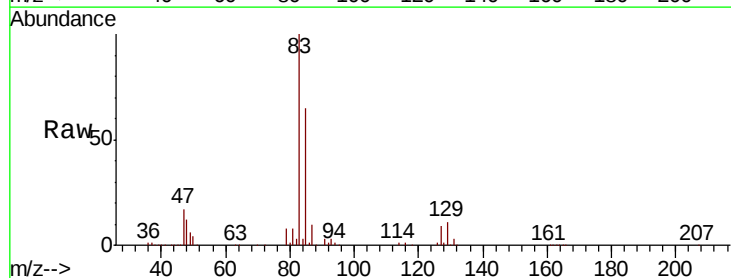
Tgt Ion: 83 Resp: 291319

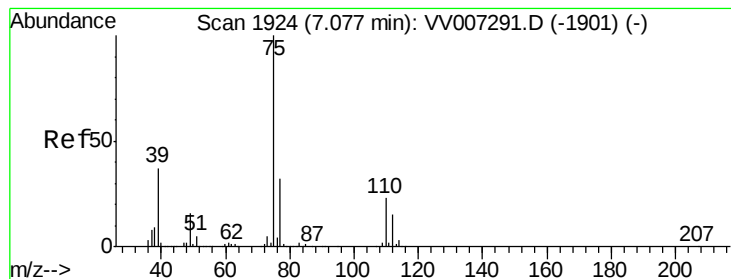
Ion Ratio Lower Upper

83 100

85 64.8 44.4 82.5

127 8.7 6.8 10.2



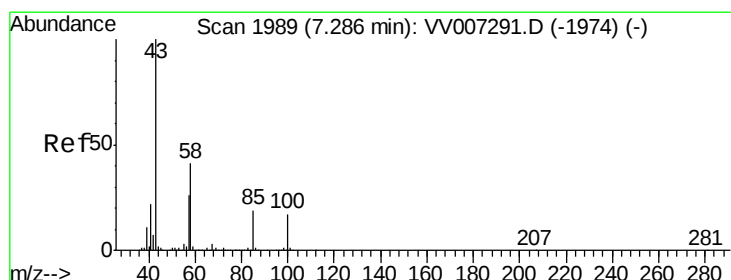
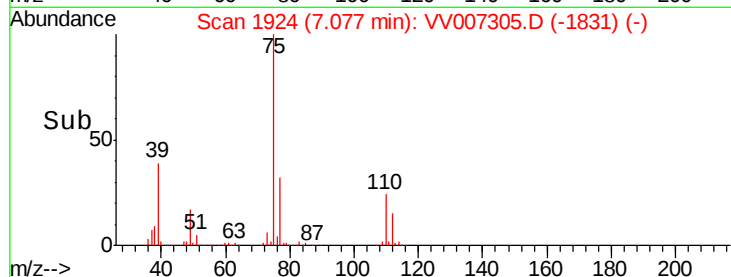
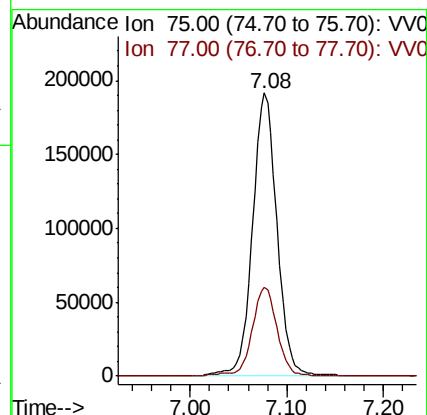
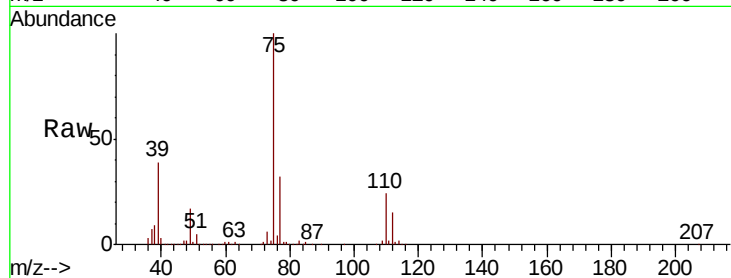


#39

cis-1,3-Dichloropropene
 Concen: 50.02 ug/L
 RT: 7.08 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MS

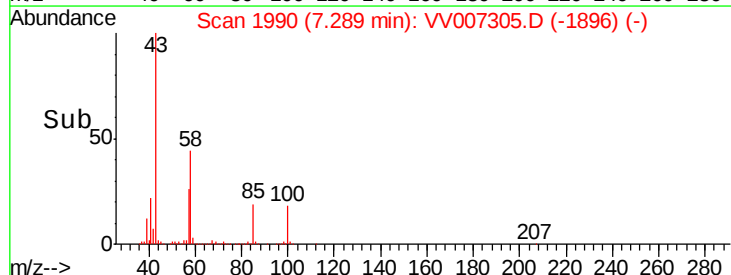
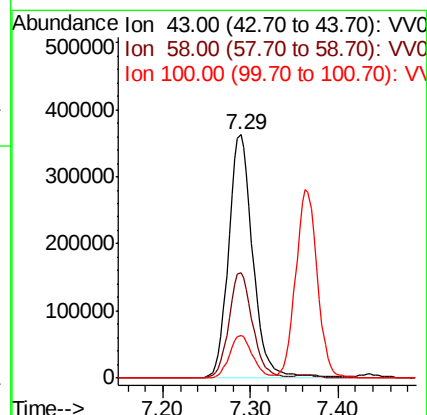
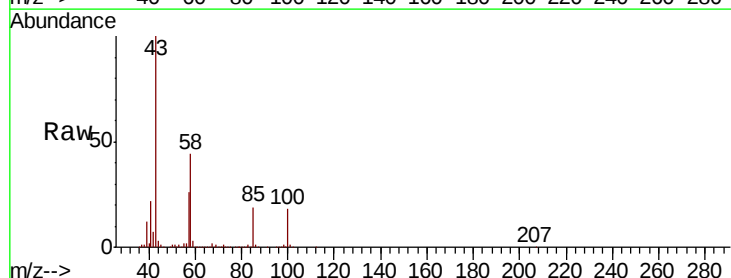
Tot Ion: 75 Resp: 336307
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.3 41.3

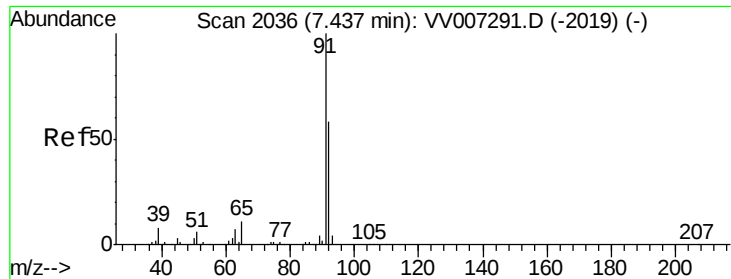


#40

4-Methyl-2-pentanone
 Concen: 127.00 ug/L
 RT: 7.29 min Scan# 1990
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Tgt Ion: 43 Resp: 698155
 Ion Ratio Lower Upper
 43 100
 58 42.0 32.6 49.0
 100 16.9 13.4 20.0





#42

Toluene

Concen: 52.61 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

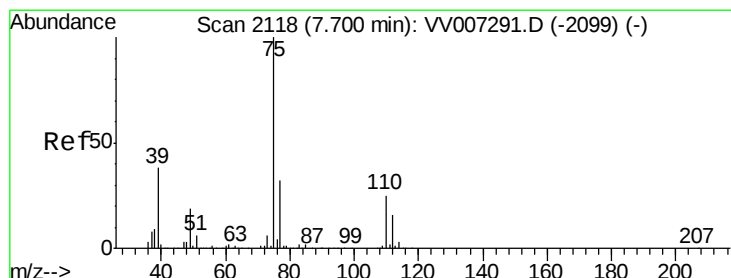
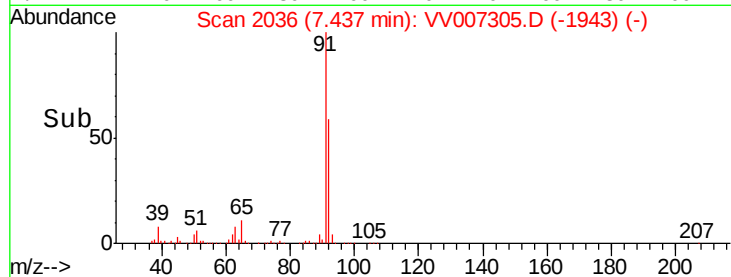
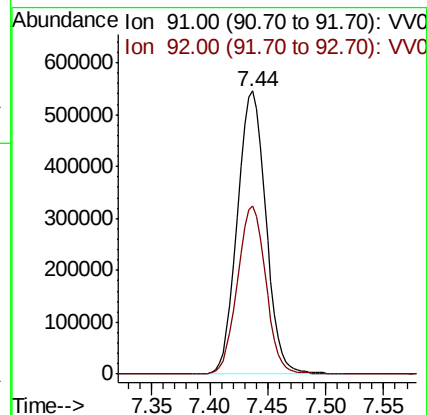
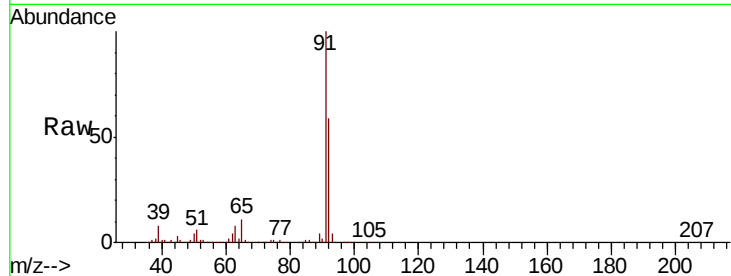
E0AA4MS

Tot Ion: 91 Resp: 927801

Ion Ratio Lower Upper

91 100

92 59.3 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 50.94 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VV007305.D

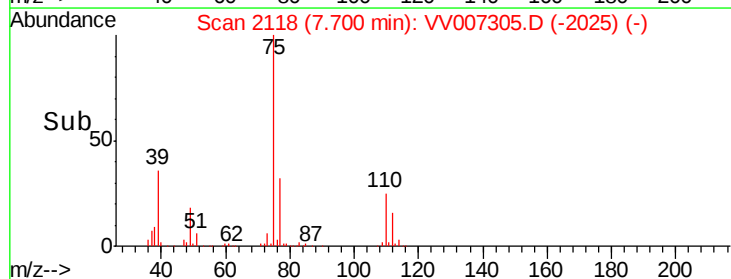
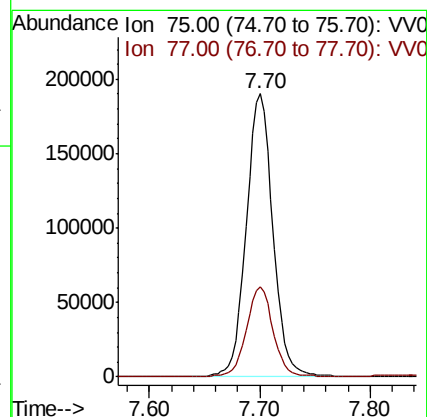
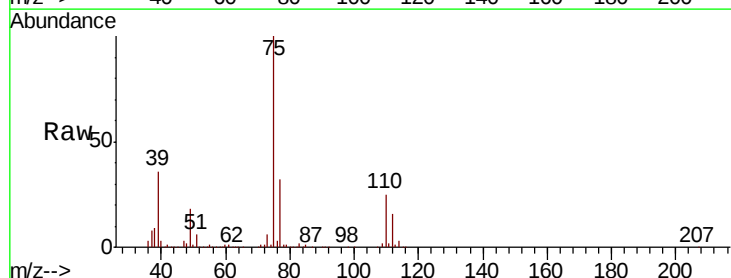
Acq: 31 Aug 2018 17:04

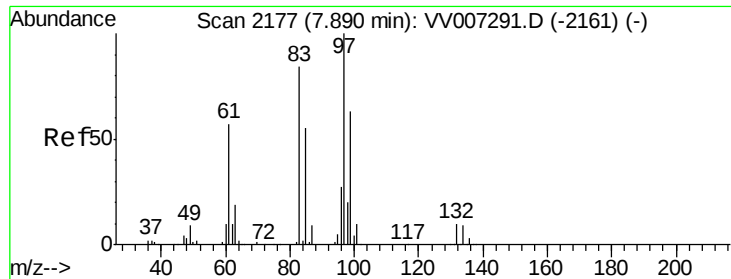
Tgt Ion: 75 Resp: 318088

Ion Ratio Lower Upper

75 100

77 31.7 22.7 42.1

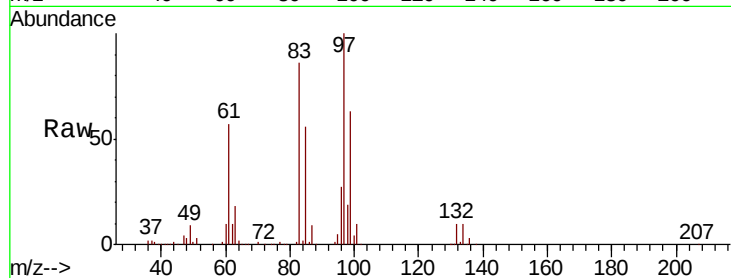




#45
 1,1,2-Trichloroethane
 Concen: 51.66 ug/L
 RT: 7.89 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MS

Tot Ion:	97	Resp:	231861
Ion	Ratio	Lower	Upper
97	100		
99	62.5	44.0	81.6
83	86.2	59.0	109.6
85	55.7	38.9	72.2



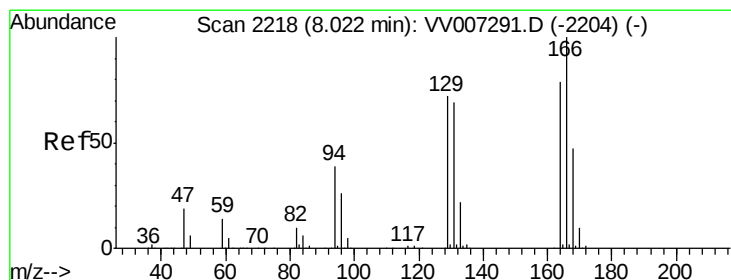
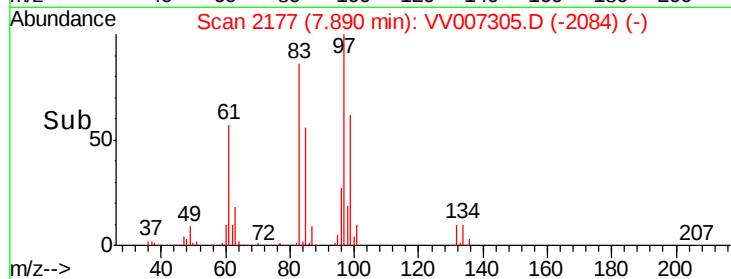
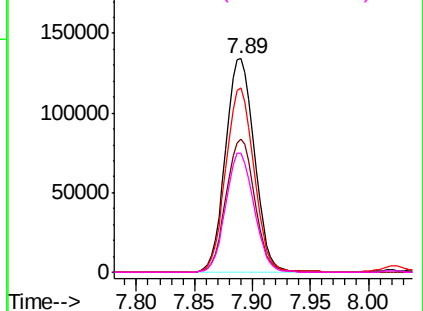
Abundance

Ion 97.00 (96.70 to 97.70): VV007305.D (-2084) (-)

Ion 99.00 (98.70 to 99.70): VV007305.D (-2084) (-)

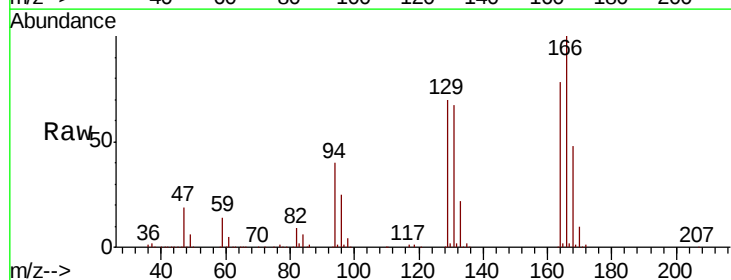
Ion 83.00 (82.70 to 83.70): VV007305.D (-2084) (-)

Ion 85.00 (84.70 to 85.70): VV007305.D (-2084) (-)



#46
 Tetrachloroethene
 Concen: 73.58 ug/L
 RT: 8.02 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Tgt Ion:	164	Resp:	266895
Ion	Ratio	Lower	Upper
164	100		
129	89.6	64.5	119.7
131	86.0	61.2	113.8
166	127.4	89.1	165.5



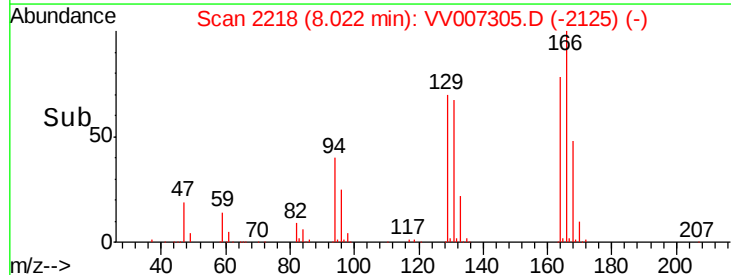
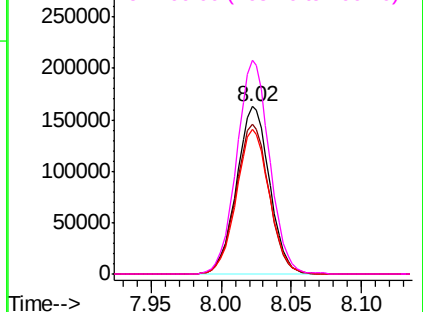
Abundance

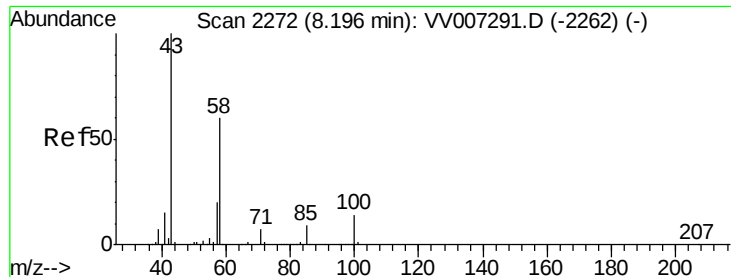
Ion 164.00 (163.70 to 164.70): VV007305.D (-2125) (-)

Ion 129.00 (128.70 to 129.70): VV007305.D (-2125) (-)

Ion 131.00 (130.70 to 131.70): VV007305.D (-2125) (-)

Ion 166.00 (165.70 to 166.70): VV007305.D (-2125) (-)

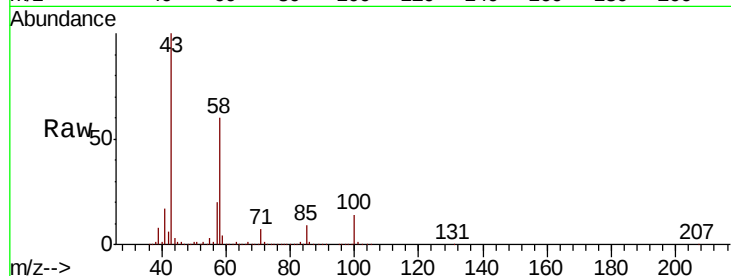




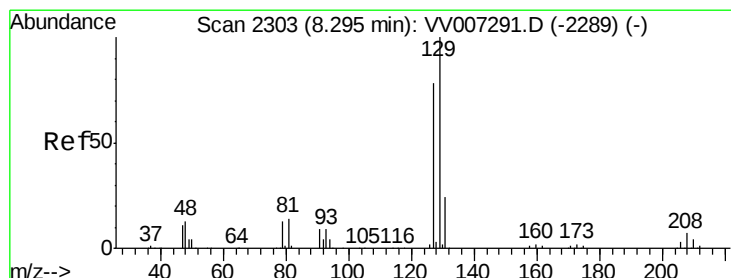
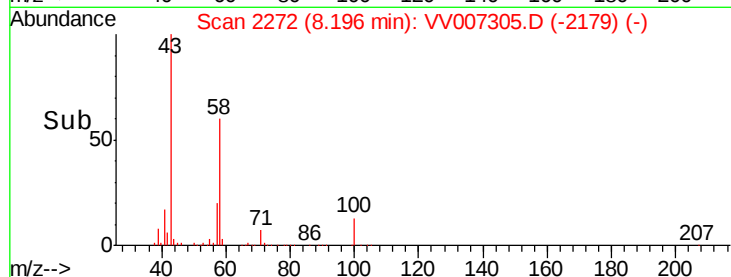
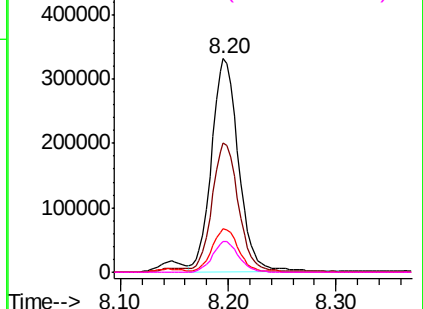
#48
2-Hexanone
Concen: 129.13 ug/L
RT: 8.20 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV007305.D
Acq: 31 Aug 2018 17:04

Instrument :
MSVOA_V
ClientSampleId :
E0AA4MS

Tot Ion:	43	Resp:	574693
Ion	Ratio	Lower	Upper
43	100		
58	59.7	48.2	72.4
57	19.7	15.9	23.9
100	13.6	11.0	16.4

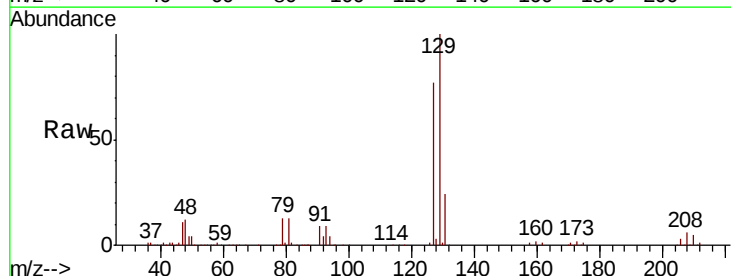


Abundance Ion 43.00 (42.70 to 43.70): VV007291.D (-2262) (-)
Ion 58.00 (57.70 to 58.70): VV007291.D (-2262) (-)
Ion 57.00 (56.70 to 57.70): VV007291.D (-2262) (-)
Ion 100.00 (99.70 to 100.70): VV007291.D (-2262) (-)

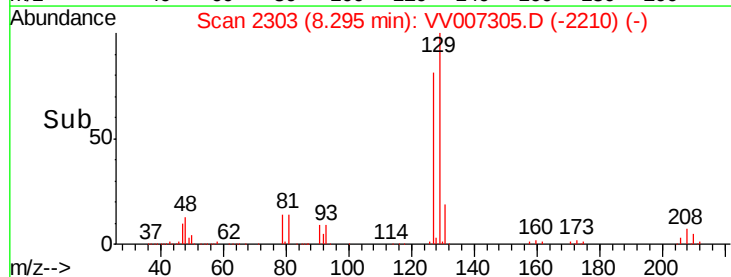
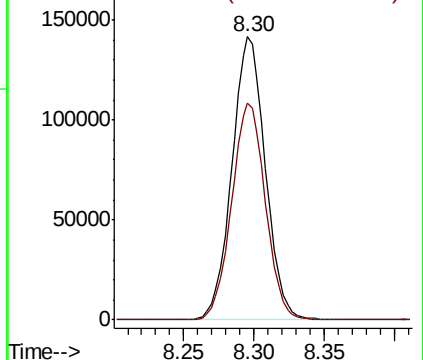


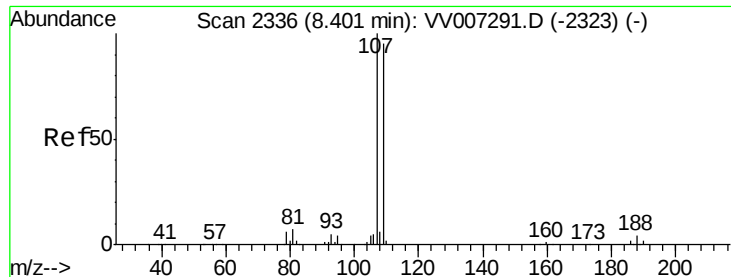
#49
Dibromochloromethane
Concen: 49.88 ug/L
RT: 8.30 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VV007305.D
Acq: 31 Aug 2018 17:04

Tgt Ion:	129	Resp:	234995
Ion	Ratio	Lower	Upper
129	100		
127	76.5	54.4	101.0



Abundance Ion 129.00 (128.70 to 129.70): VV007291.D (-2289) (-)
Ion 127.00 (126.70 to 127.70): VV007291.D (-2289) (-)

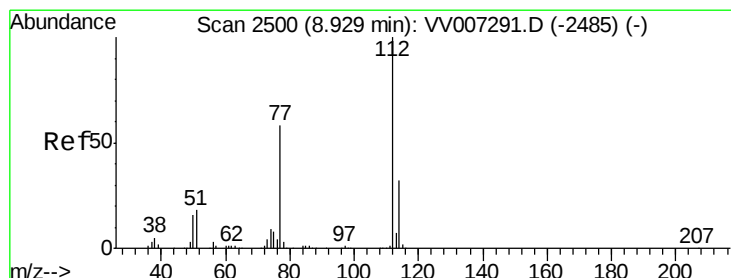
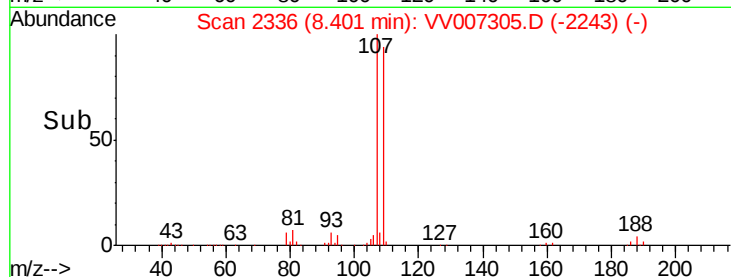
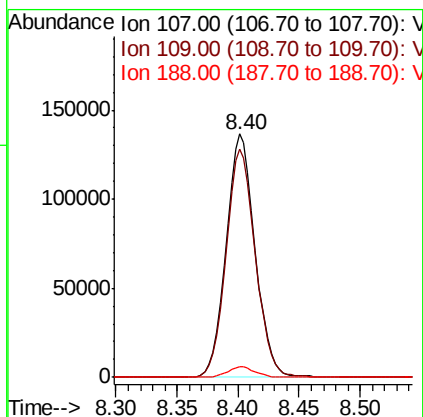
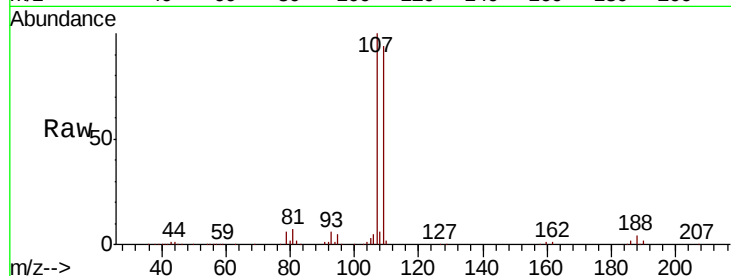




#50
 1,2-Dibromoethane
 Concen: 50.54 ug/L
 RT: 8.40 min Scan# 2336
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

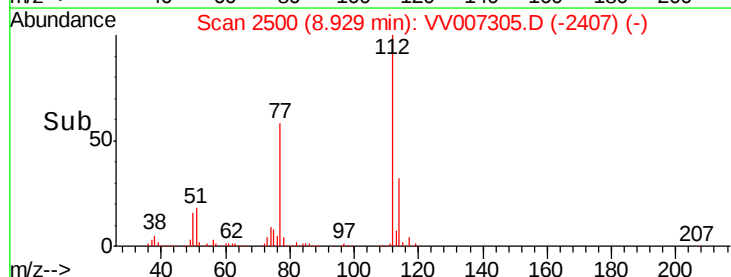
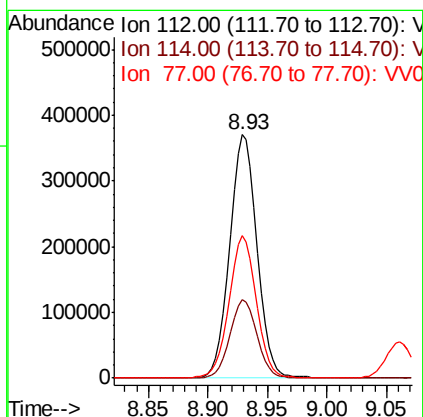
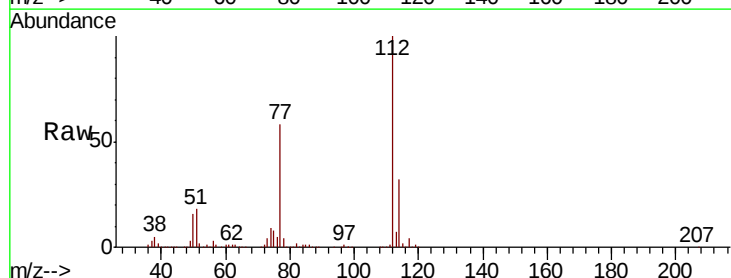
Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MS

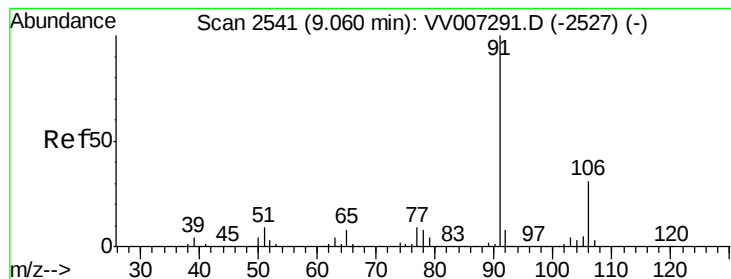
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	66.7	123.9
188	4.2	3.3	4.9



#51
 Chlorobenzene
 Concen: 49.80 ug/L
 RT: 8.93 min Scan# 2500
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.4	41.6
77	58.4	46.2	69.4





#52

Ethylbenzene

Concen: 51.67 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

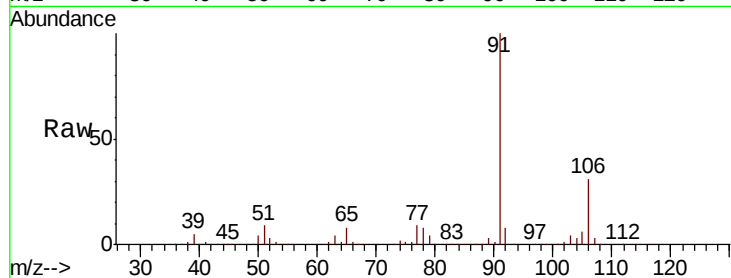
E0AA4MS

Tot Ion: 91 Resp: 942464

Ion Ratio Lower Upper

91 100

106 31.4 21.7 40.3



Abundance Ion 91.00 (90.70 to 91.70): VV007291.D (-2527) (-)

Ion 106.00 (105.70 to 106.70): VV007291.D (-2527) (-)

9.06

600000

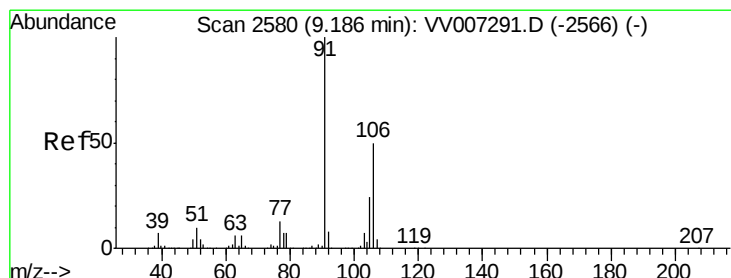
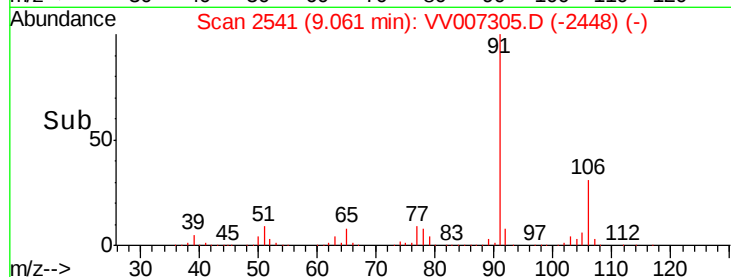
400000

200000

0

9.00 9.05 9.10 9.15

Time-->



#53

m,p-Xylene

Concen: 53.81 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. 0.00 min

Lab File: VV007305.D

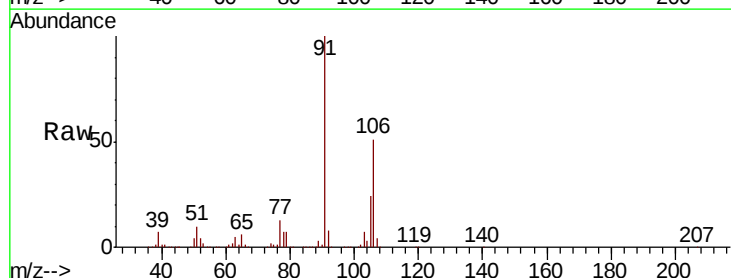
Acq: 31 Aug 2018 17:04

Tgt Ion:106 Resp: 370517

Ion Ratio Lower Upper

106 100

91 196.0 140.1 260.3



Abundance Ion 106.00 (105.70 to 106.70): VV007291.D (-2566) (-)

Ion 91.00 (90.70 to 91.70): VV007291.D (-2566) (-)

9.19

500000

400000

300000

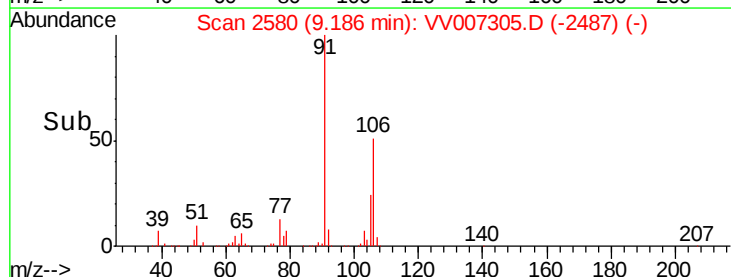
200000

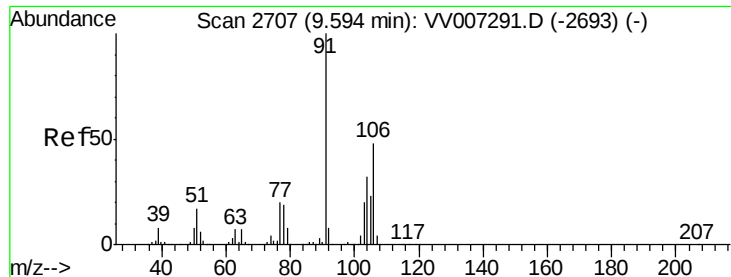
100000

0

9.10 9.15 9.20 9.25 9.30

Time-->





#54

o-xylene

Concen: 52.46 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

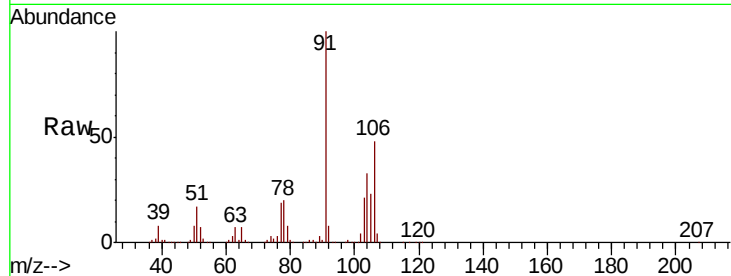
E0AA4MS

Tot Ion:106 Resp: 350709

Ion Ratio Lower Upper

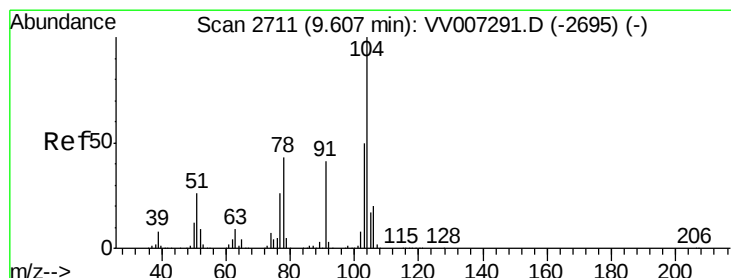
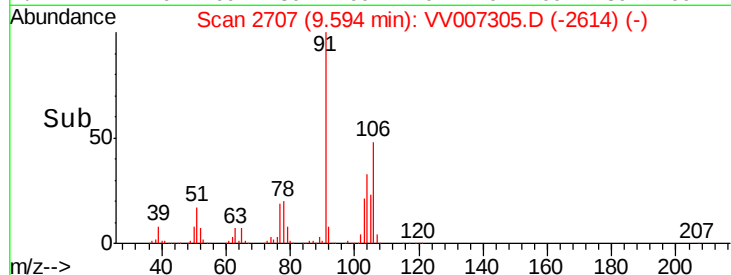
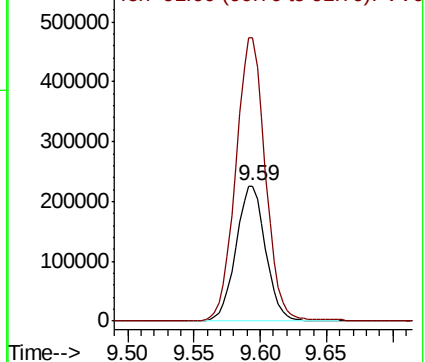
106 100

91 209.6 145.6 270.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 55.64 ug/L

RT: 9.61 min Scan# 2711

Delta R.T. 0.00 min

Lab File: VV007305.D

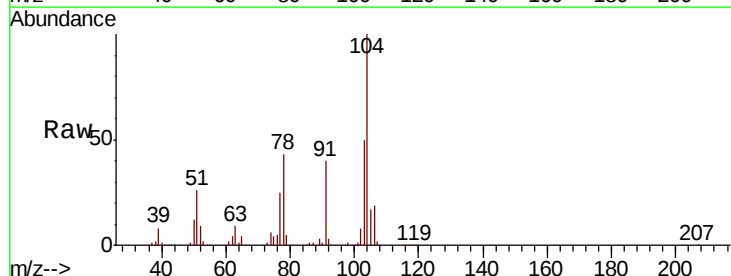
Acq: 31 Aug 2018 17:04

Tgt Ion:104 Resp: 647593

Ion Ratio Lower Upper

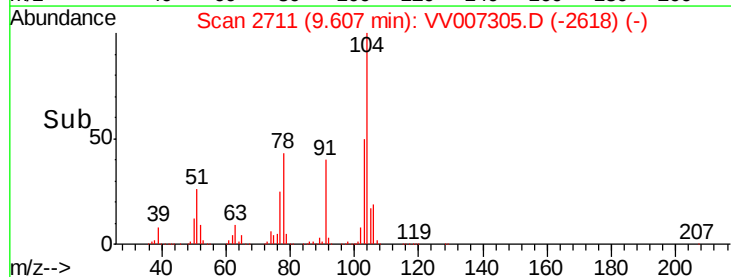
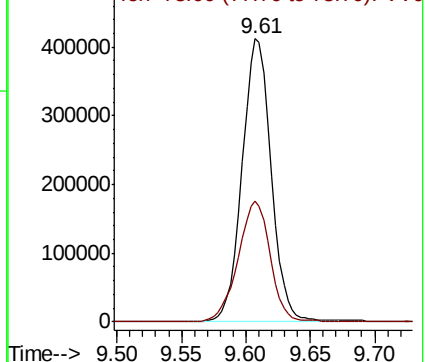
104 100

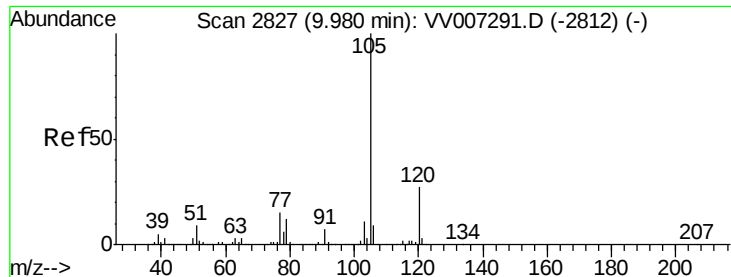
78 42.7 30.2 56.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 53.68 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MS

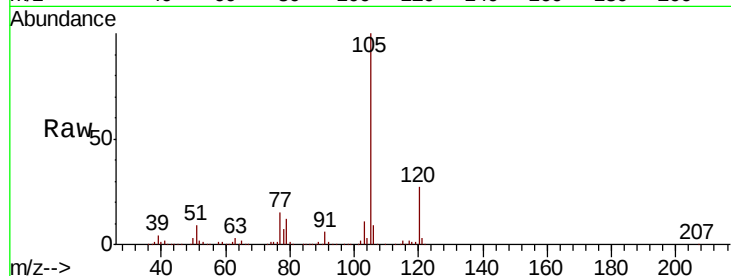
Tot Ion:105 Resp: 911073

Ion Ratio Lower Upper

105 100

120 26.7 21.3 31.9

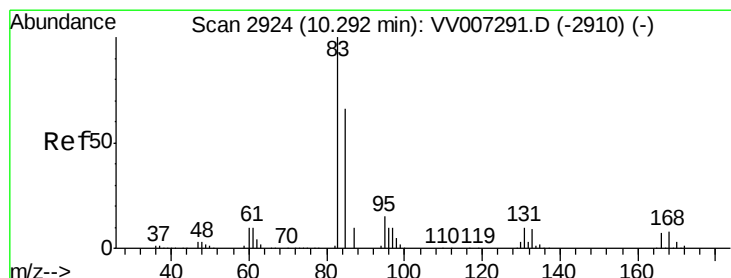
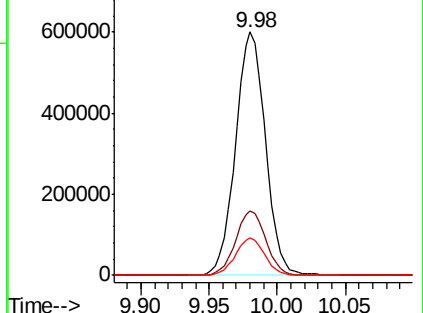
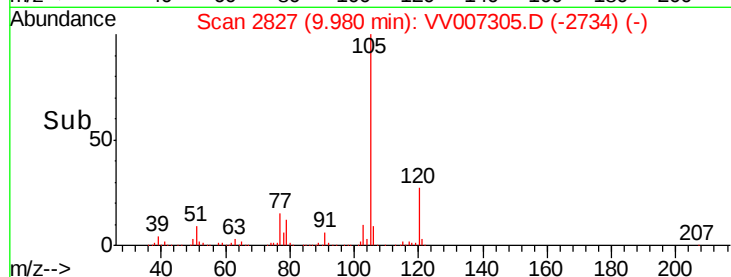
77 15.0 12.1 18.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 53.44 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

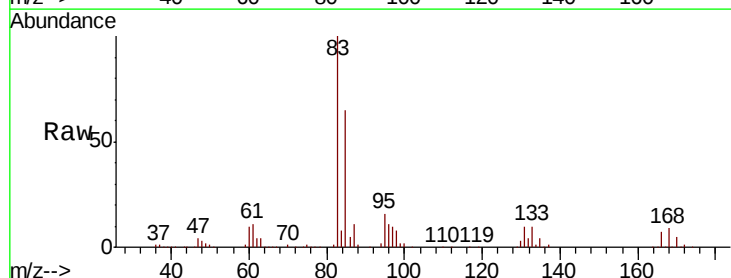
Tgt Ion: 83 Resp: 386911

Ion Ratio Lower Upper

83 100

85 65.0 46.1 85.5

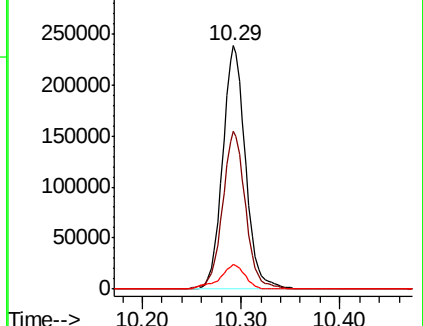
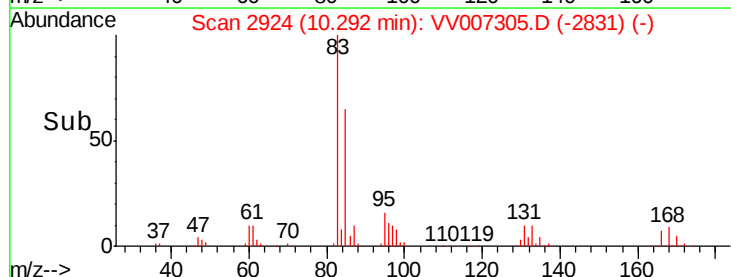
131 10.0 7.9 11.9

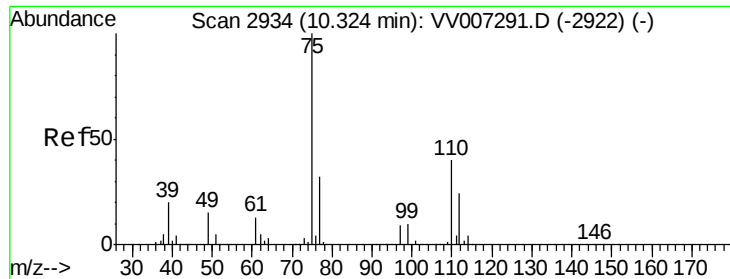


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 54.45 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

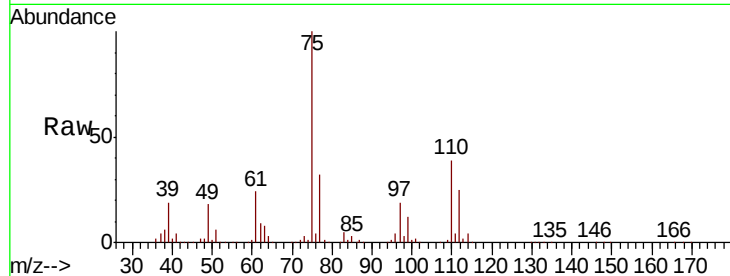
E0AA4MS

Tot Ion: 75 Resp: 311556

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV007291.D (-2922) (-)

Ion 77.00 (76.70 to 77.70): VV007291.D (-2922) (-)

10.32

200000

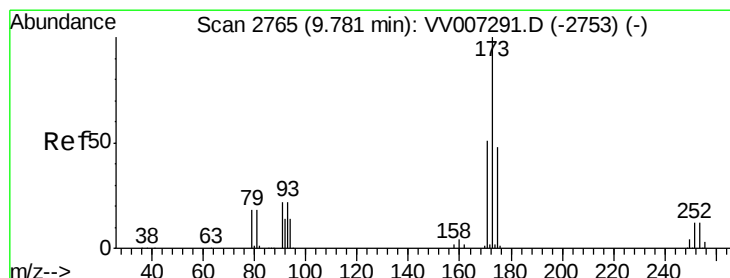
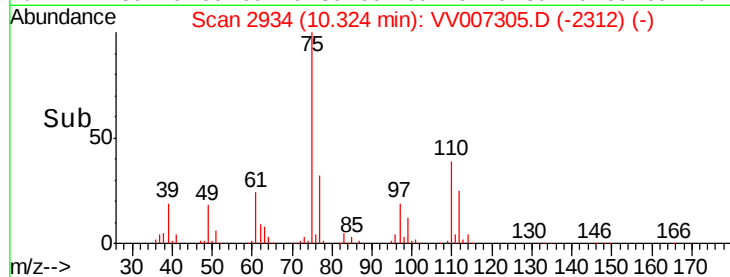
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 48.37 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

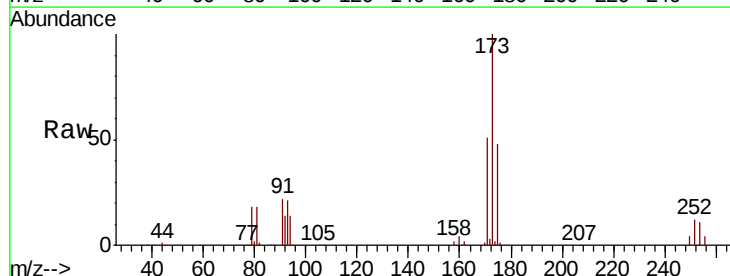
Tgt Ion: 173 Resp: 175722

Ion Ratio Lower Upper

173 100

175 48.4 38.3 57.5

254 11.7 9.4 14.2



Abundance Ion 173.00 (172.70 to 173.70): VV007291.D (-2753) (-)

Ion 175.00 (174.70 to 175.70): VV007291.D (-2753) (-)

Ion 254.00 (253.70 to 254.70): VV007291.D (-2753) (-)

9.78

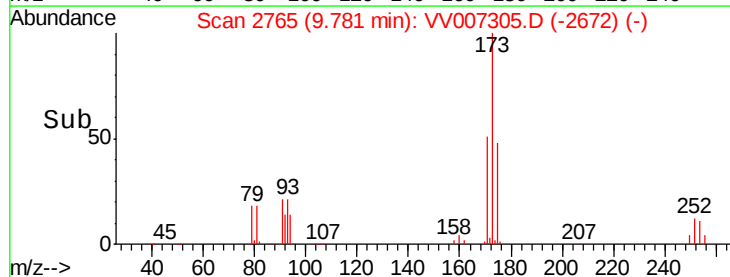
150000

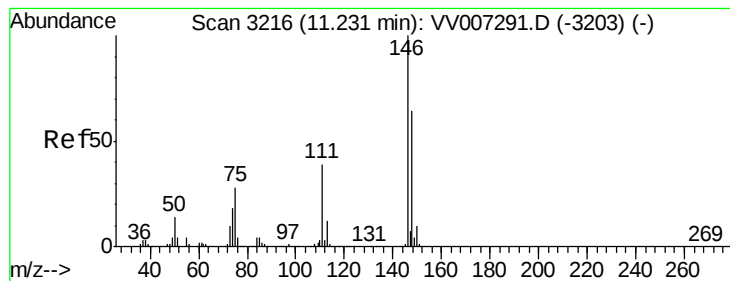
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.59 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MS

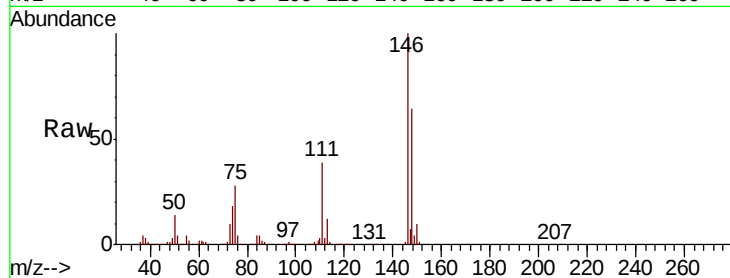
Tot Ion:146 Resp: 422314

Ion Ratio Lower Upper

146 100

111 39.1 27.2 50.6

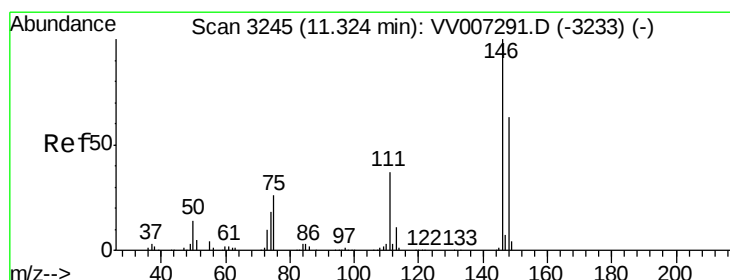
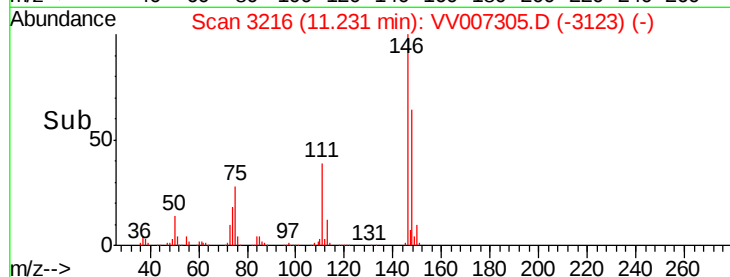
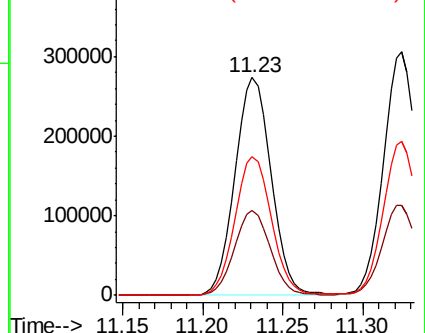
148 64.0 45.1 83.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 49.19 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

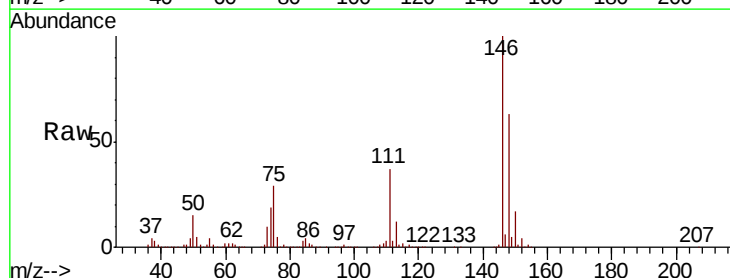
Tgt Ion:146 Resp: 463413

Ion Ratio Lower Upper

146 100

111 37.1 25.8 48.0

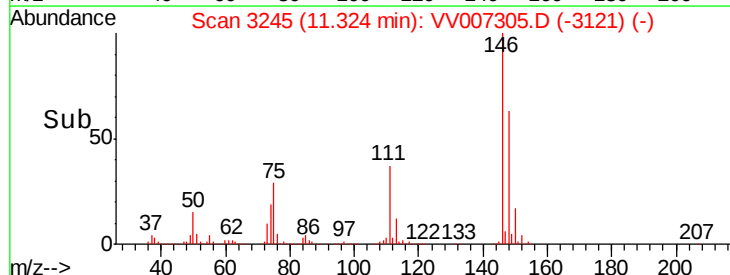
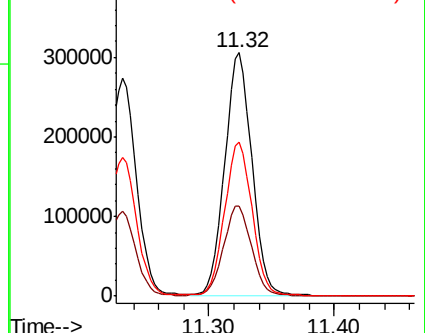
148 63.0 44.2 82.2

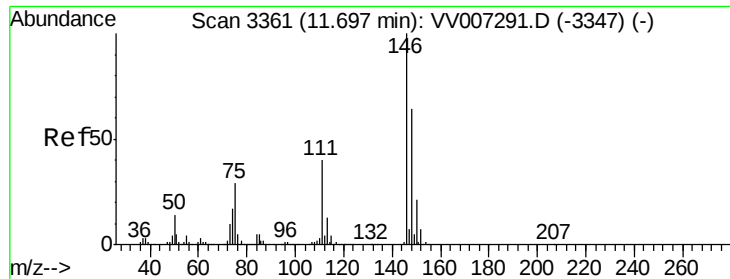


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

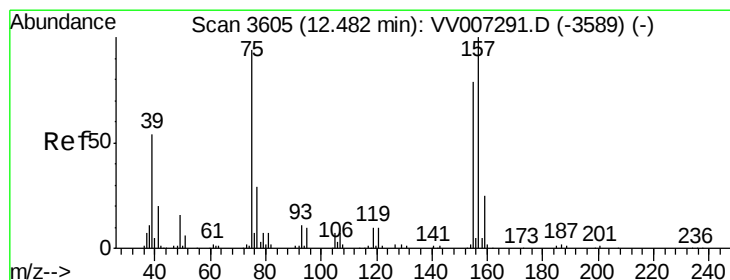
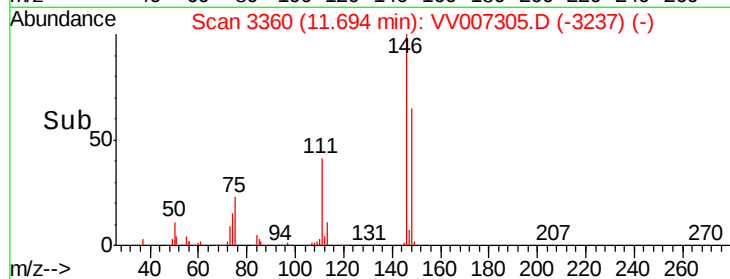
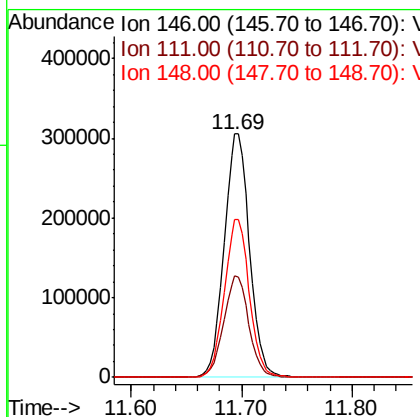
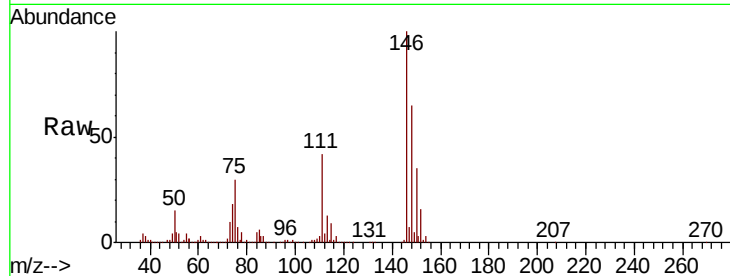




#65
 1,2-Dichlorobenzene
 Concen: 51.19 ug/L
 RT: 11.69 min Scan# 3360
 Delta R.T. -0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

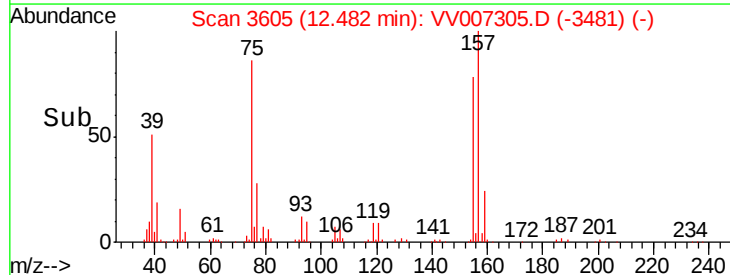
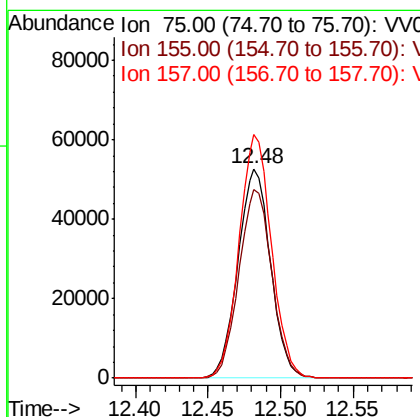
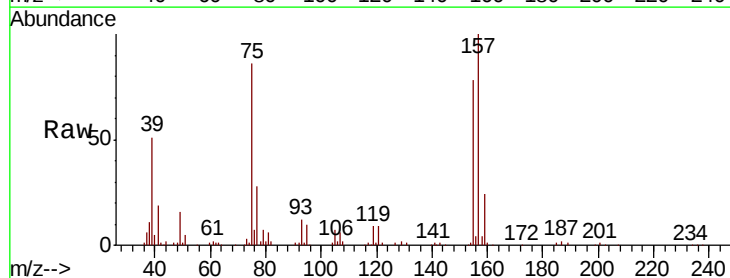
Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MS

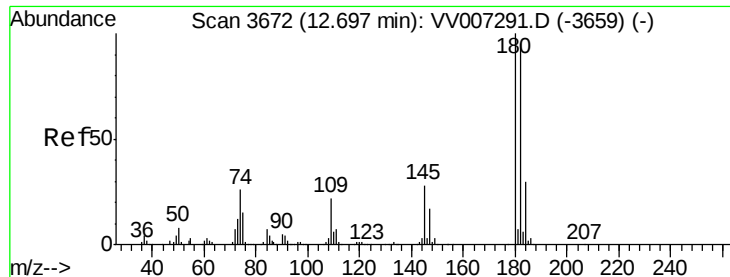
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	32.2	48.2
148	64.6	51.1	76.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 53.60 ug/L
 RT: 12.48 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.3	67.1	100.7
157	116.2	85.4	128.2

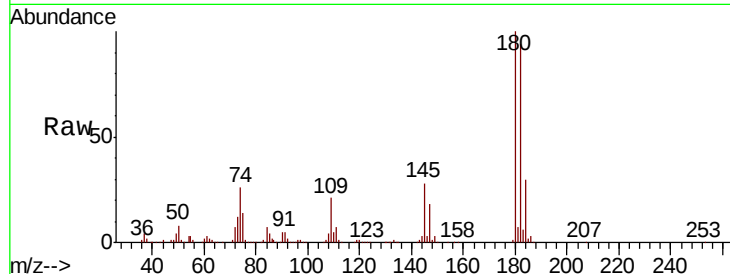




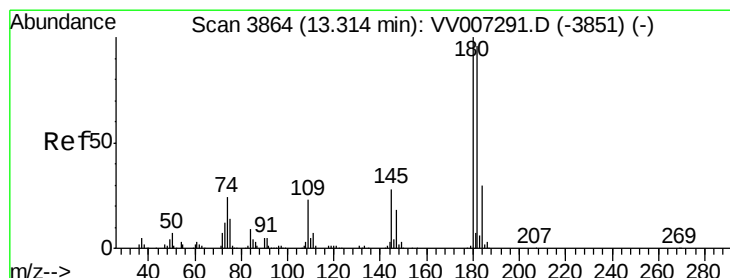
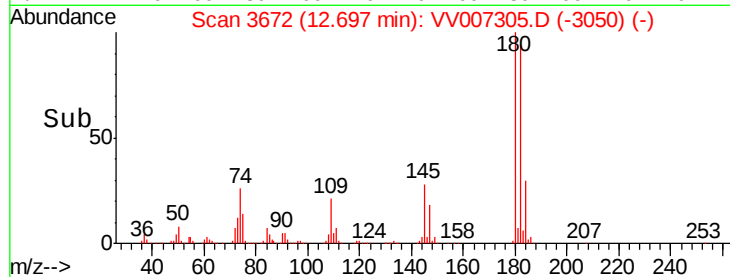
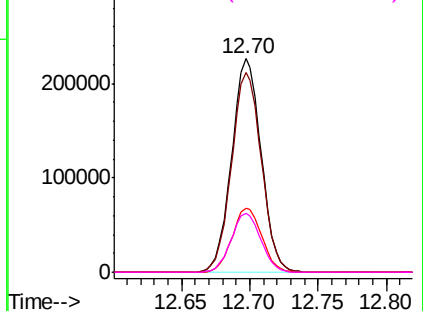
#67
 1,3,5-Trichlorobenzene
 Concen: 50.46 ug/L
 RT: 12.70 min Scan# 3672
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Instrument :
 MSVOA_V
 ClientSampleId :
 E0AA4MS

Tot Ion:	180	Resp:	339182
Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.9	115.3
184	30.3	24.1	36.1
145	27.9	22.3	33.5

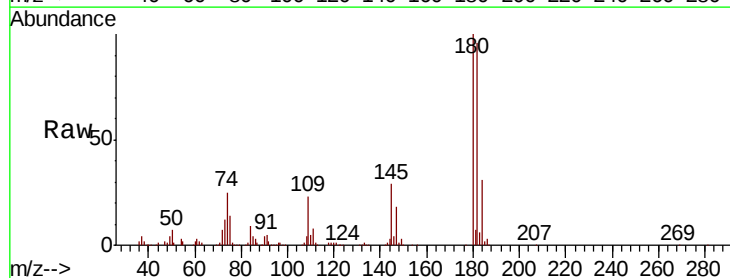


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

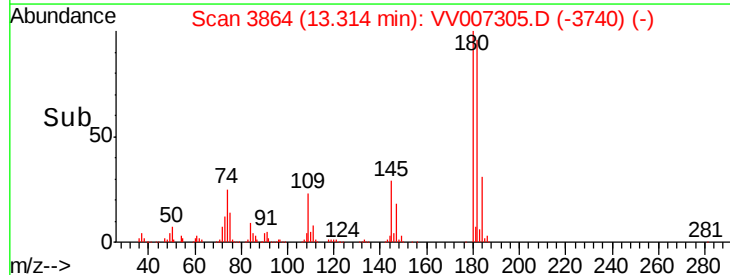
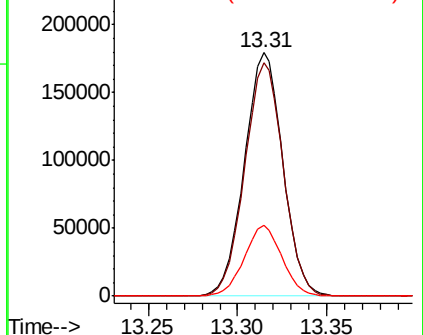


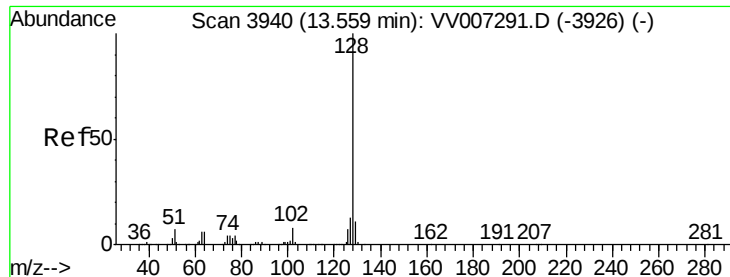
#68
 1,2,4-trichlorobenzene
 Concen: 50.36 ug/L
 RT: 13.31 min Scan# 3864
 Delta R.T. 0.00 min
 Lab File: VV007305.D
 Acq: 31 Aug 2018 17:04

Tgt Ion:	180	Resp:	270406
Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.2	115.8
145	28.5	22.8	34.2



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 57.21 ug/L

RT: 13.56 min Scan# 3939

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

E0AA4MS

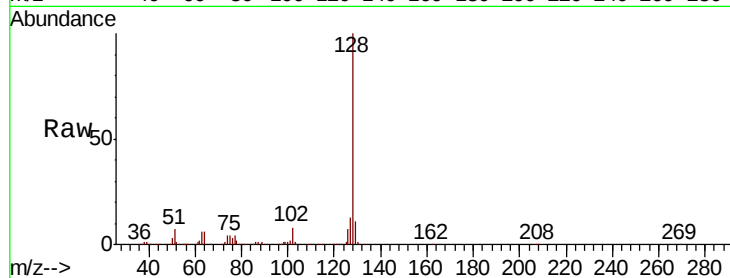
Tot Ion:128 Resp: 856588

Ion Ratio Lower Upper

128 100

127 12.8 10.6 15.8

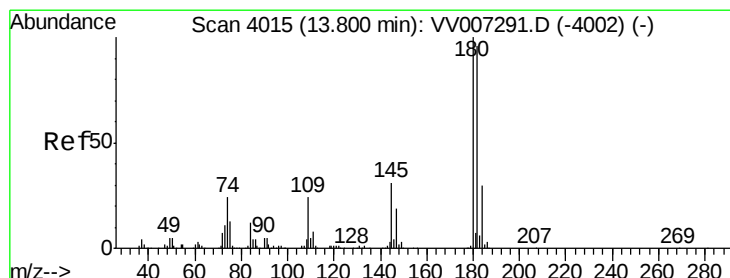
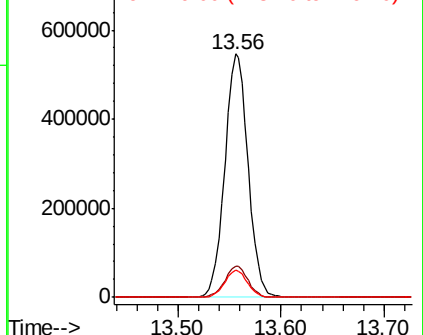
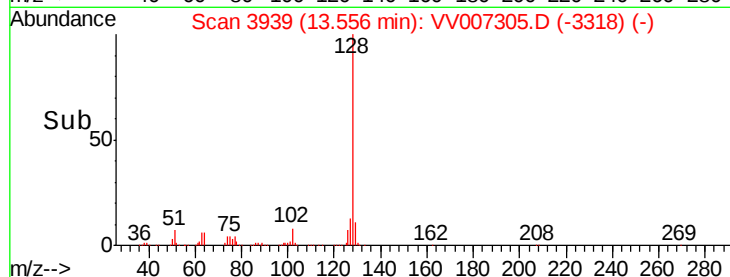
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 53.26 ug/L

RT: 13.80 min Scan# 4014

Delta R.T. -0.00 min

Lab File: VV007305.D

Acq: 31 Aug 2018 17:04

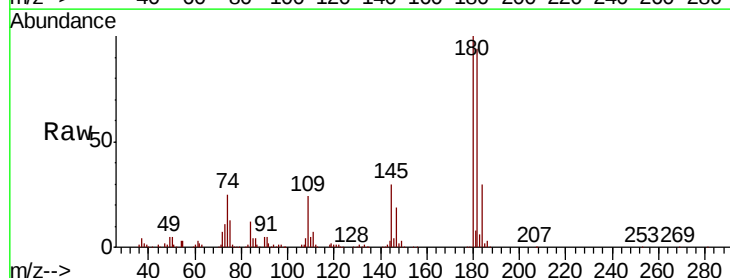
Tgt Ion:180 Resp: 310325

Ion Ratio Lower Upper

180 100

182 94.8 76.1 114.1

145 30.2 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

