

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101519\
 Data File : VU035184.D
 Acq On : 15 Oct 2019 11:55
 Operator : JC/SP
 Sample : K5311-04MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 15 15:17:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 15 15:10:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	158858	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	163570	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	61434	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	41989	4.47	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.40%
7) Chloroethane-d5	1.67	69	41925	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.60%
11) 1,1-Dichloroethene-d2	2.26	63	82517	4.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.40%
20) 2-Butanone-d5	4.18	46	149008	53.88	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.76%
24) Chloroform-d	4.62	84	85096	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
26) 1,2-Dichloroethane-d4	5.29	65	52008	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.32	84	164675	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
36) 1,2-Dichloropropane-d6	6.31	67	61821	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.40%
41) Toluene-d8	7.55	98	137240	3.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.00%
43) trans-1,3-Dichloropropene-	7.84	79	18971	4.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.20%
46) 2-Hexanone-d5	8.30	63	101389	46.20	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.40%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	52722	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	11.84	152	48933	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.21	85	7455	0.514	ug/L 92
3) Chloromethane	1.32	50	4948	0.311	ug/L 99
12) 1,1-Dichloroethene	2.27	96	36436	3.571	ug/L 89
13) Acetone	2.32	43	6392	2.822	ug/L 94
16) Methylene chloride	2.69	84	900	0.071	ug/L # 65
17) Methyl tert-butyl Ether	2.99	73	7273	0.261	ug/L # 92
22) cis-1,2-Dichloroethene	4.20	96	41433	3.400	ug/L 86
25) Chloroform	4.65	83	6974	0.286	ug/L 96
27) 1,2-Dichloroethane	5.37	62	1885	0.132	ug/L # 77
33) Benzene	5.37	78	192876	3.915	ug/L 100
34) Trichloroethene	6.16	95	88794	6.988	ug/L 98
35) Methylcyclohexane	6.31	83	13199	0.641	ug/L # 18
37) 1,2-Dichloropropane	6.31	63	7003	0.527	ug/L # 88
42) Toluene	7.62	91	200936	3.907	ug/L 97
47) Tetrachloroethene	8.21	164	42388	4.121	ug/L 94
49) Dibromochloromethane	8.21	129	40136	3.935	ug/L # 12
51) Chlorobenzene	9.10	112	141136	4.235	ug/L 98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101519\
Data File : VU035184.D
Acq On : 15 Oct 2019 11:55
Operator : JC/SP
Sample : K5311-04MS
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 15 15:17:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 15 15:10:16 2019
Response via : Initial Calibration

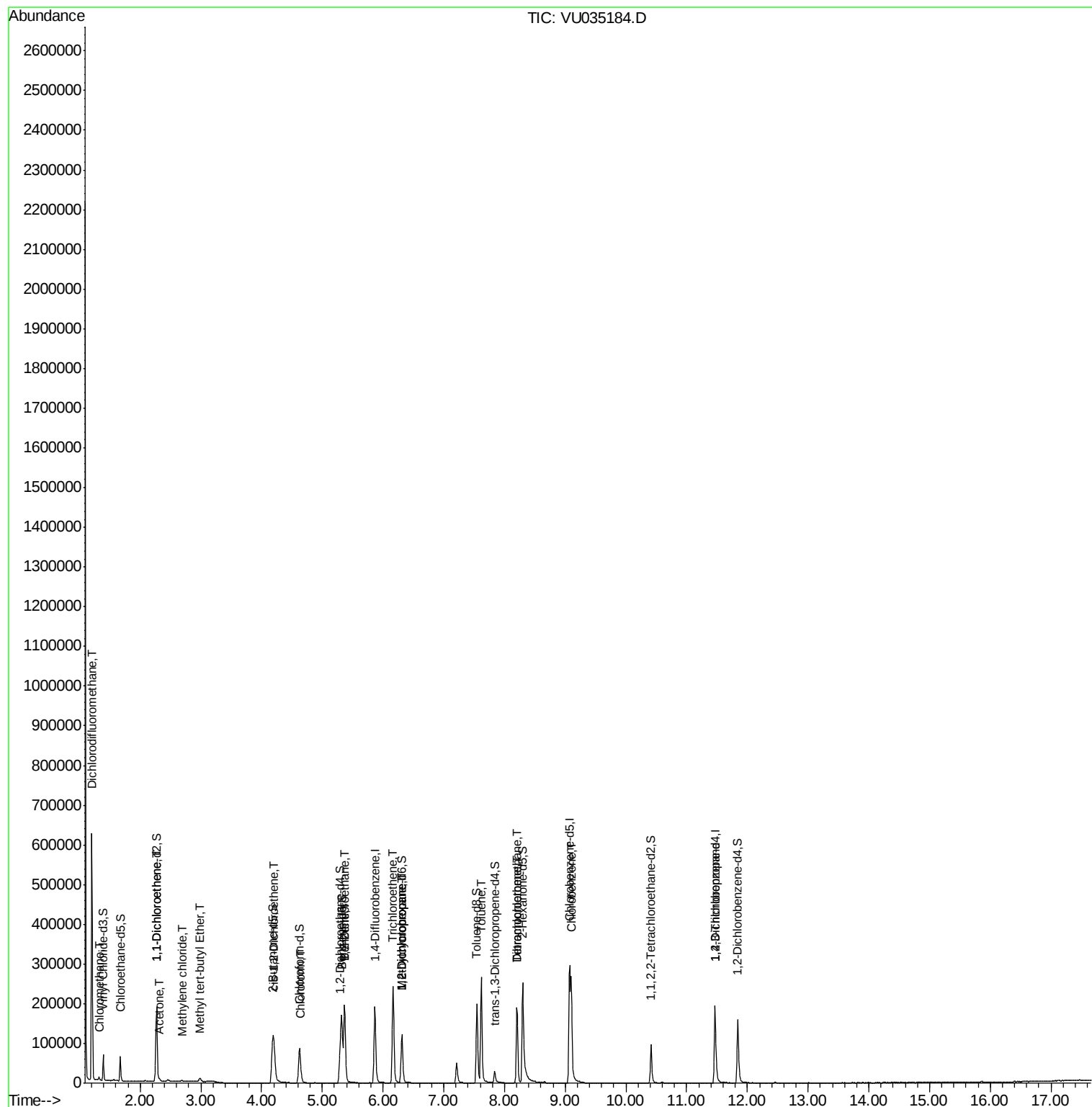
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.47	75	7886	0.917	ug/L	96

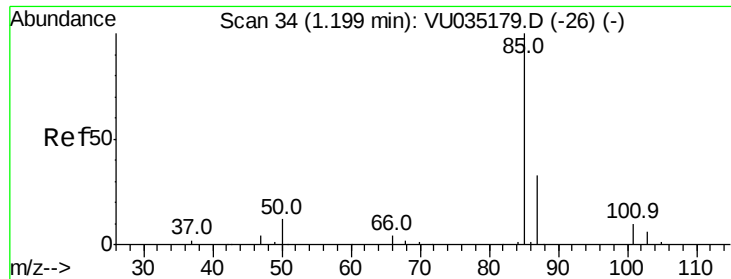
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU101519\
Data File : VU035184.D
Acq On : 15 Oct 2019 11:55
Operator : JC/SP
Sample : K5311-04MS
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Oct 15 15:17:18 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 15 15:10:16 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.514 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.01 min

Lab File: VU035184.D

Acq: 15 Oct 2019 11:55

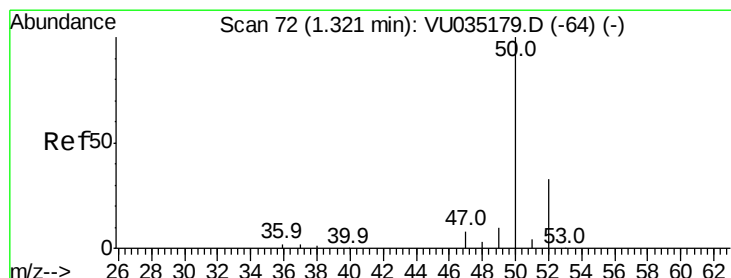
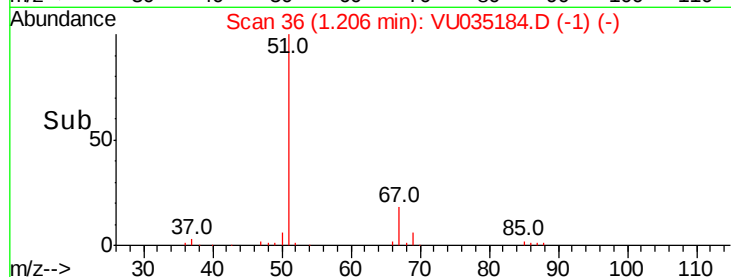
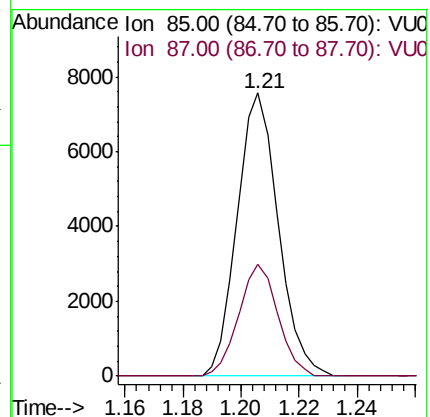
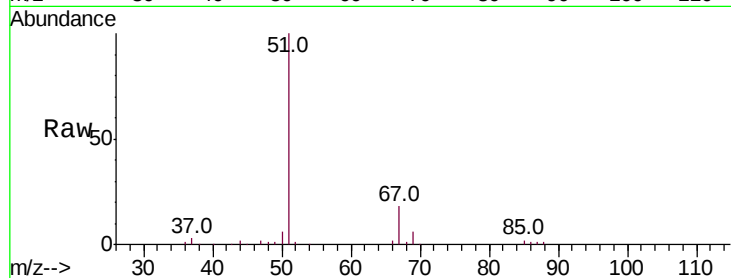
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 7455

Ion Ratio Lower Upper

85 100

87 37.6 26.3 39.5



#3

Chloromethane

Concen: 0.311 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU035184.D

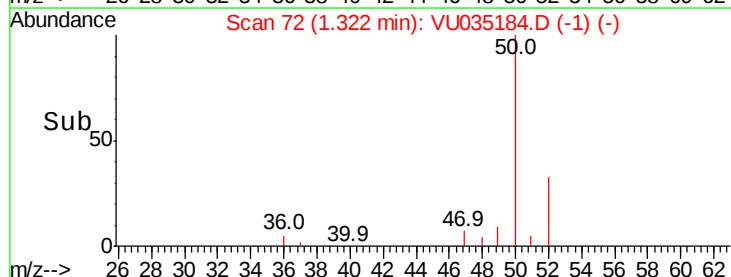
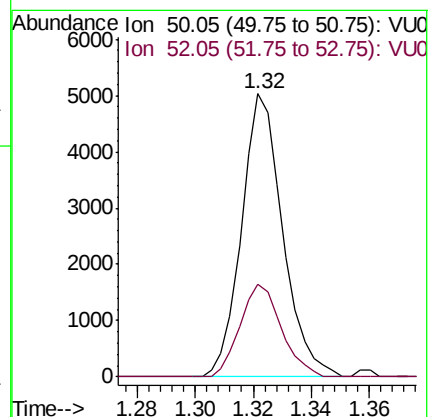
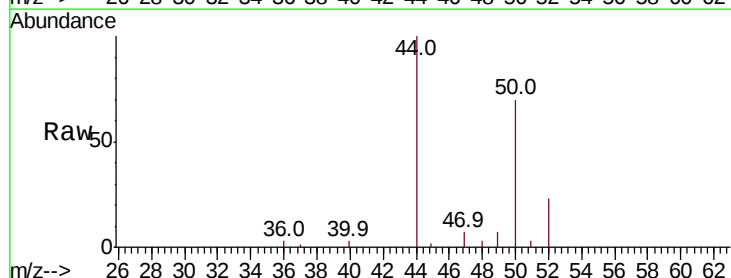
Acq: 15 Oct 2019 11:55

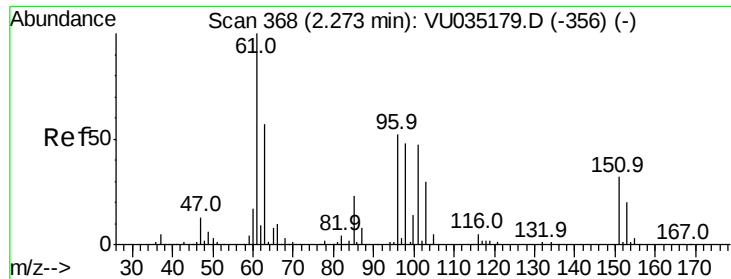
Tgt Ion: 50 Resp: 4948

Ion Ratio Lower Upper

50 100

52 32.7 23.3 43.3





#12

1,1-Dichloroethene

Concen: 3.571 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU035184.D

Acq: 15 Oct 2019 11:55

Instrument :

MSVOA_U

ClientSampled :

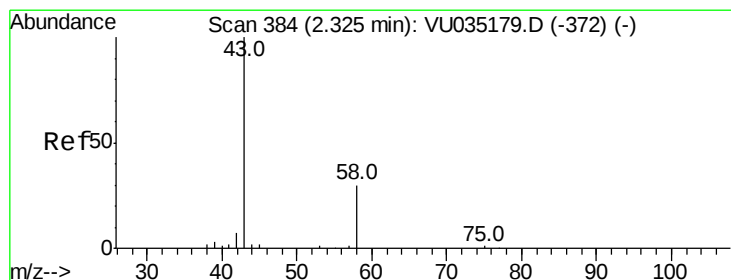
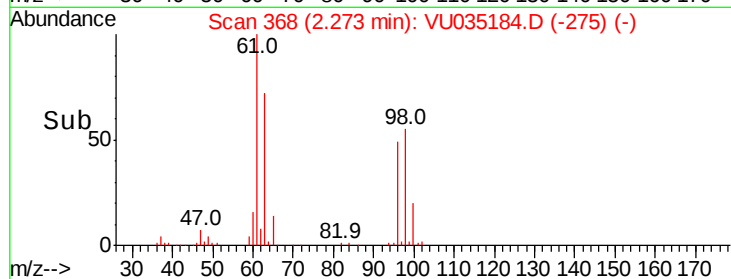
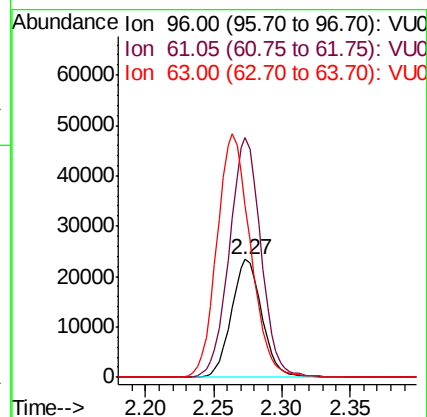
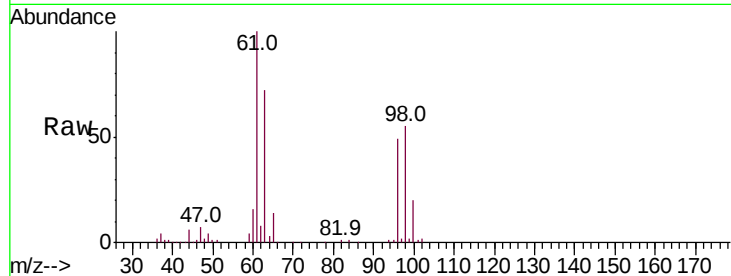
Tot Ion: 96 Resp: 36436

Ion Ratio Lower Upper

96 100

61 204.0 129.3 240.1

63 146.2 108.9 202.3



#13

Acetone

Concen: 2.822 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.01 min

Lab File: VU035184.D

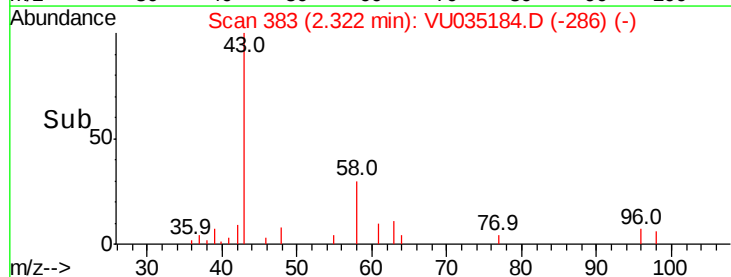
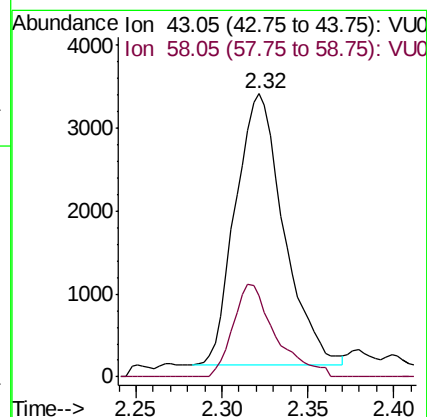
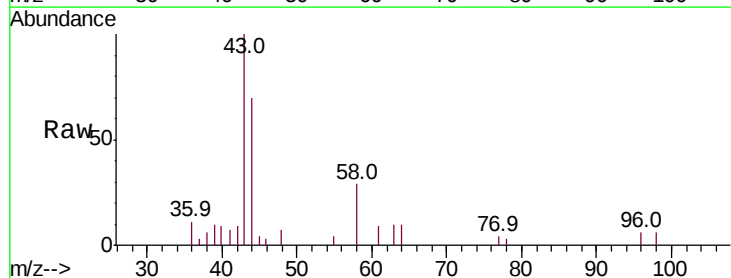
Acq: 15 Oct 2019 11:55

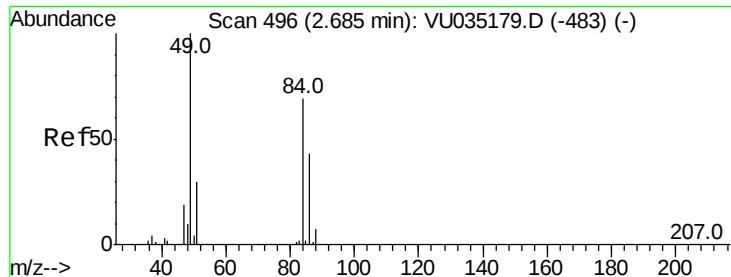
Tgt Ion: 43 Resp: 6392

Ion Ratio Lower Upper

43 100

58 30.1 0.0 66.6

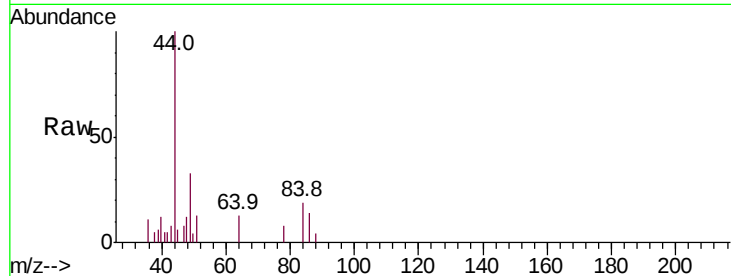




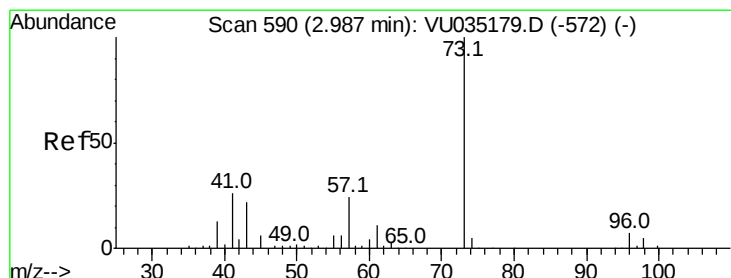
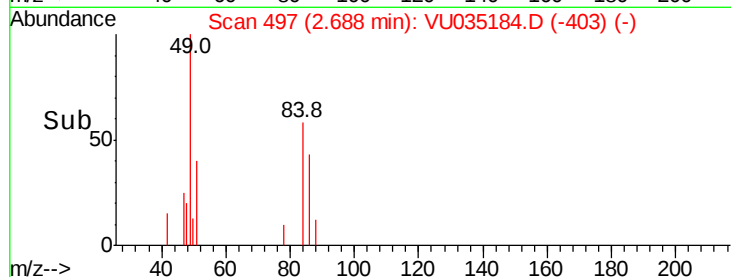
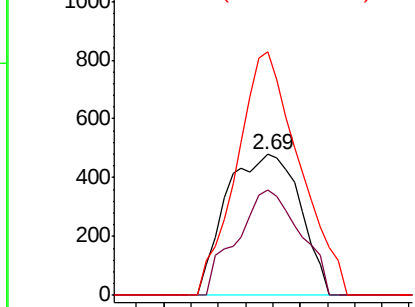
#16
Methylene chloride
Concen: 0.071 ug/L
RT: 2.69 min Scan# 497
Delta R.T. 0.00 min
Lab File: VU035184.D
Acq: 15 Oct 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 900
Ion Ratio Lower Upper
84 100
86 74.7 42.5 78.9
49 172.9 86.9 161.3#

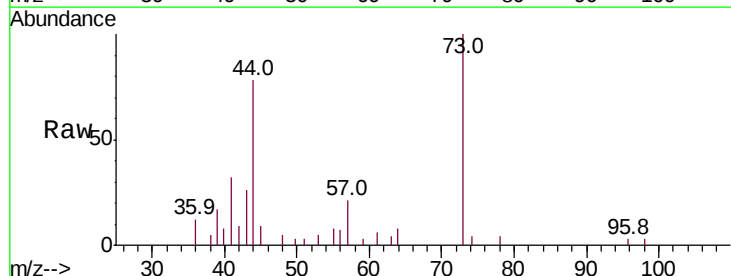


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

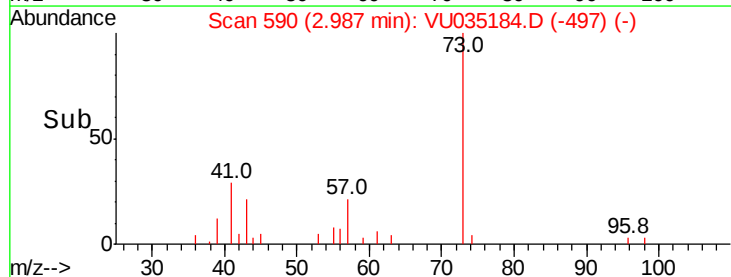
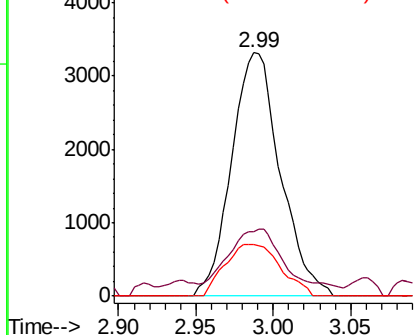


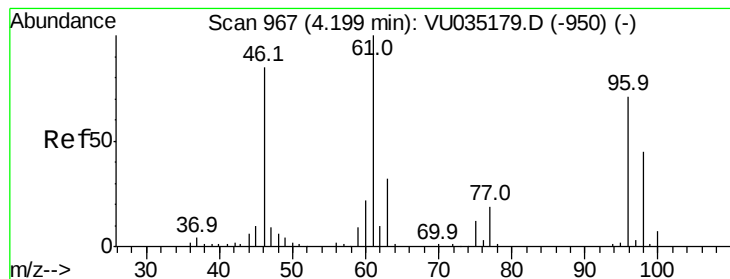
#17
Methyl tert-butyl Ether
Concen: 0.261 ug/L
RT: 2.99 min Scan# 590
Delta R.T. 0.00 min
Lab File: VU035184.D
Acq: 15 Oct 2019 11:55

Tgt Ion: 73 Resp: 7273
Ion Ratio Lower Upper
73 100
43 27.7 16.3 24.5#
57 24.1 18.6 28.0



Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0



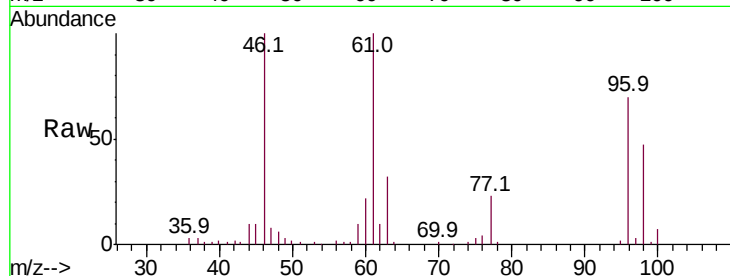


#22

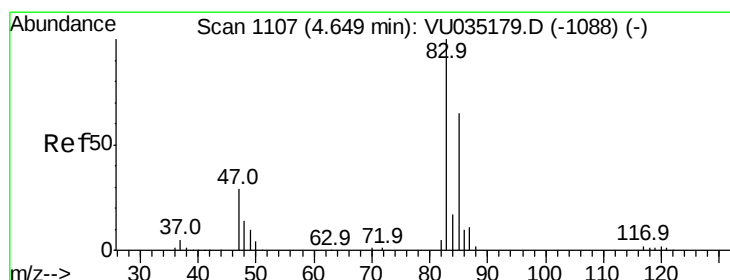
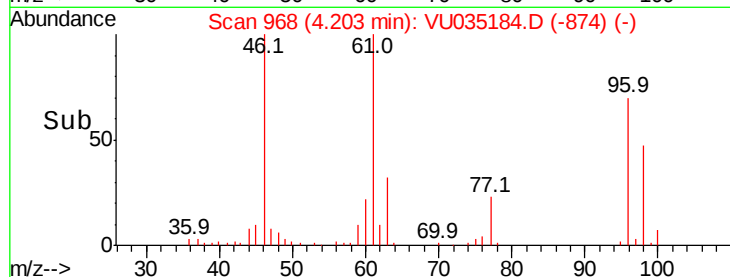
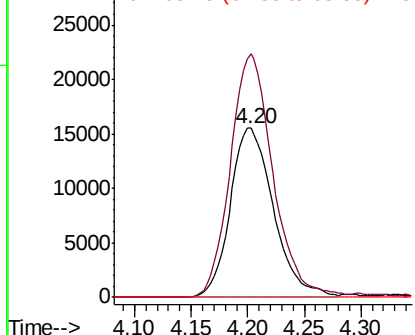
cis-1,2-Dichloroethene
 Concen: 3.400 ug/L
 RT: 4.20 min Scan# 968
 Delta R.T. 0.00 min
 Lab File: VU035184.D
 Acq: 15 Oct 2019 11:55

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 96 Resp: 41433
 Ion Ratio Lower Upper
 96 100
 61 143.9 89.2 165.6
 68 0.0 0.0 0.0



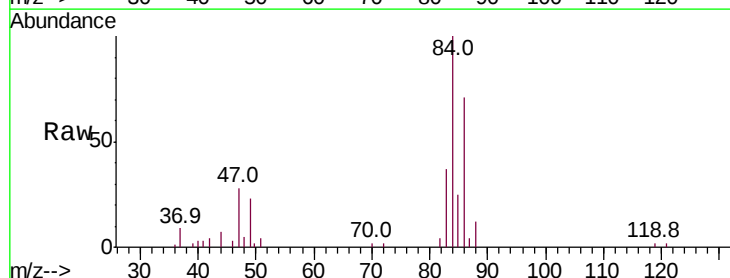
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



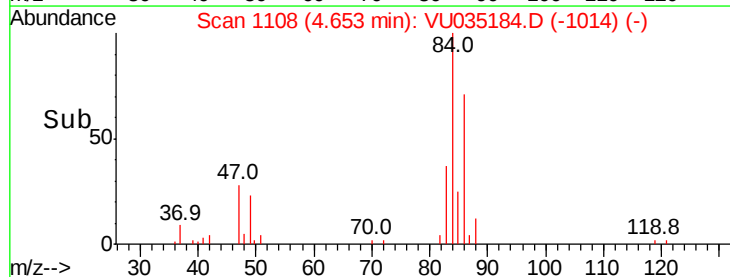
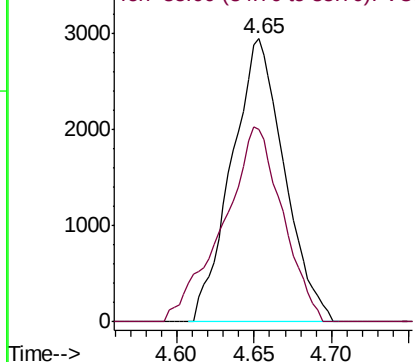
#25

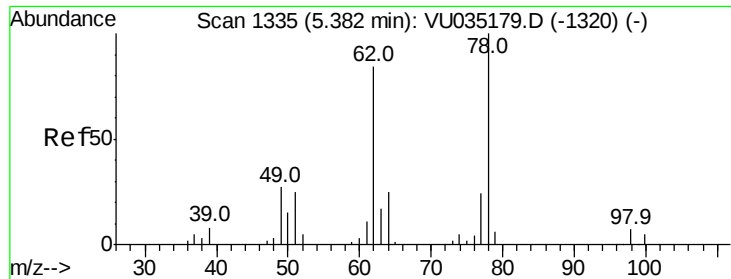
Chloroform
 Concen: 0.286 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VU035184.D
 Acq: 15 Oct 2019 11:55

Tgt Ion: 83 Resp: 6974
 Ion Ratio Lower Upper
 83 100
 85 68.2 45.4 84.4



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.132 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. -0.02 min

Lab File: VU035184.D

Acq: 15 Oct 2019 11:55

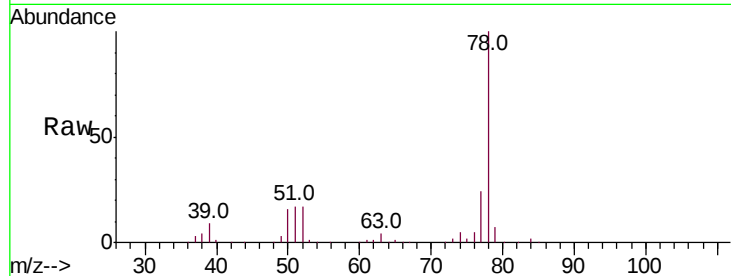
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 1885

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VU035179.D (-1320) (-)

Ion 98.05 (97.75 to 98.75): VU035179.D (-1320) (-)

5.37

1000

800

600

400

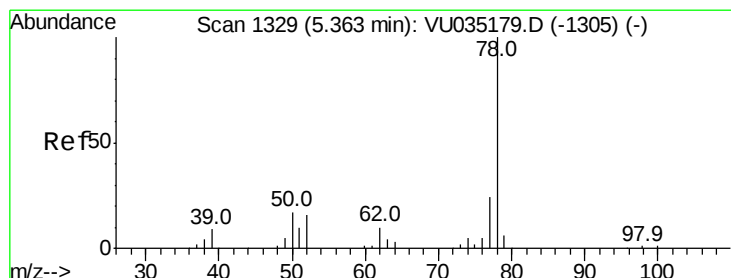
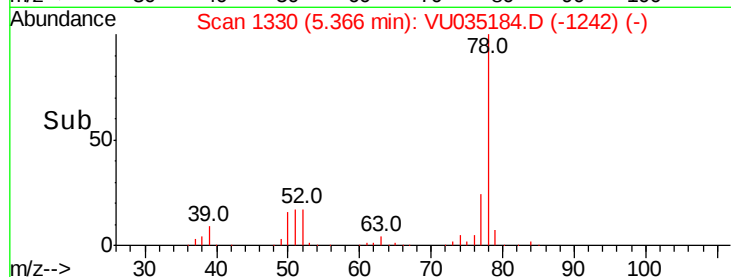
200

0

5.35

5.40

Time-->



#33

Benzene

Concen: 3.915 ug/L

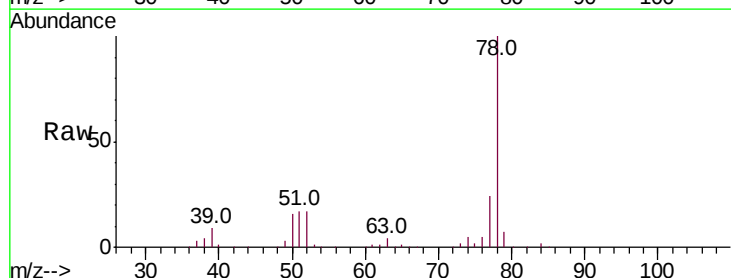
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU035184.D

Acq: 15 Oct 2019 11:55

Tgt Ion: 78 Resp: 192876



Abundance Ion 78.10 (77.80 to 78.80): VU035179.D (-1305) (-)

100000

80000

60000

40000

20000

0

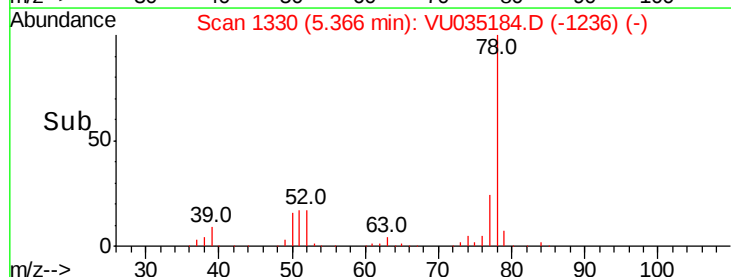
5.20

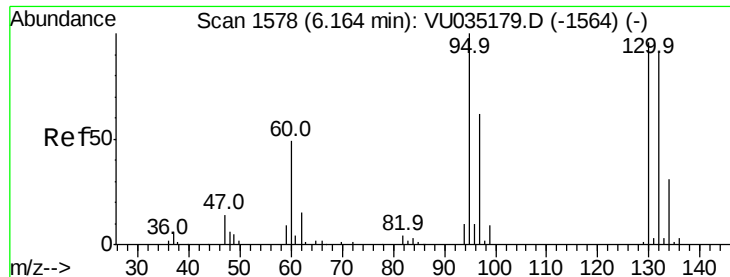
5.30

5.40

5.50

Time-->





#34

Trichloroethene

Concen: 6.988 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU035184.D

Acq: 15 Oct 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 88794

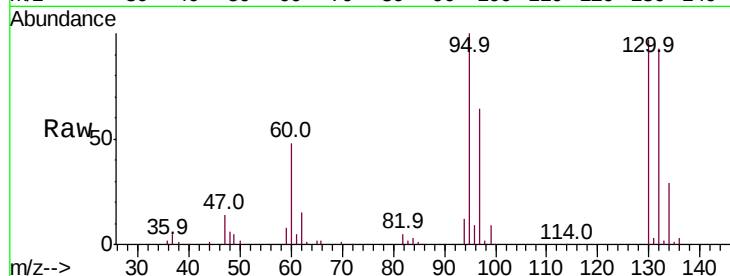
Ion Ratio Lower Upper

95 100

97 63.6 44.5 82.7

132 92.9 66.6 123.8

130 96.7 68.9 127.9

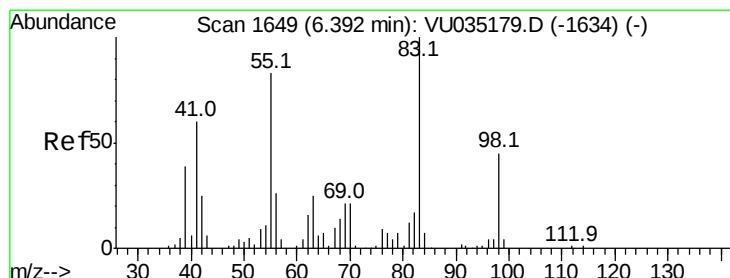
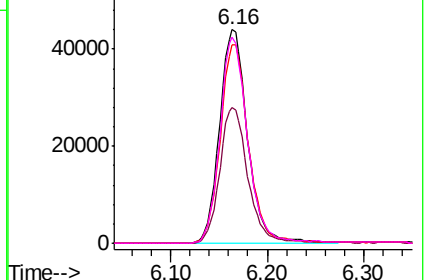
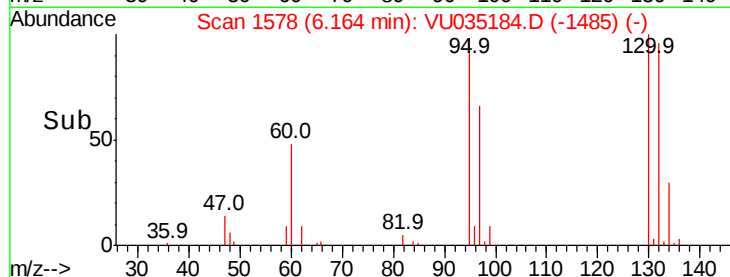


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.641 ug/L

RT: 6.31 min Scan# 1624

Delta R.T. -0.08 min

Lab File: VU035184.D

Acq: 15 Oct 2019 11:55

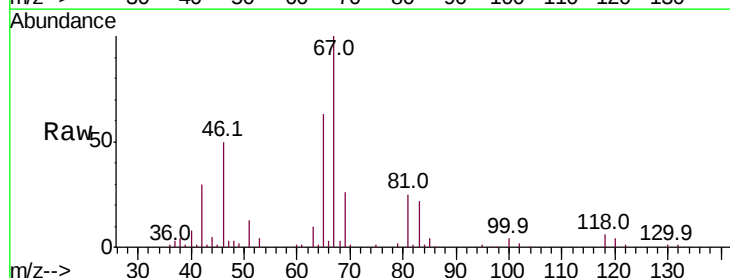
Tgt Ion: 83 Resp: 13199

Ion Ratio Lower Upper

83 100

55 0.0 62.6 94.0#

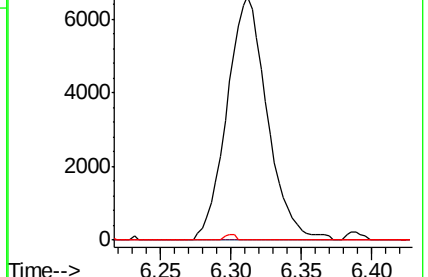
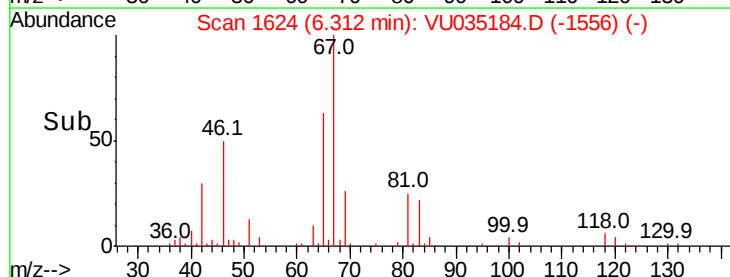
98 0.6 36.2 54.2#

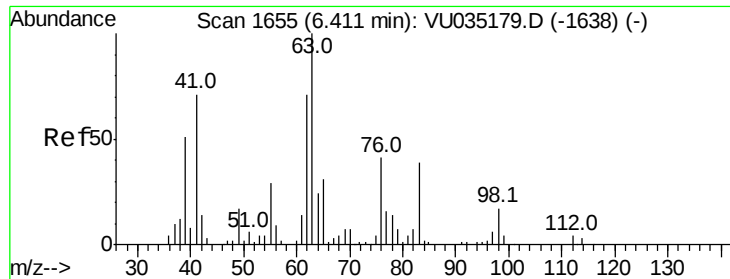


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.527 ug/L

RT: 6.31 min Scan# 1624

Delta R.T. -0.10 min

Lab File: VU035184.D

Acq: 15 Oct 2019 11:55

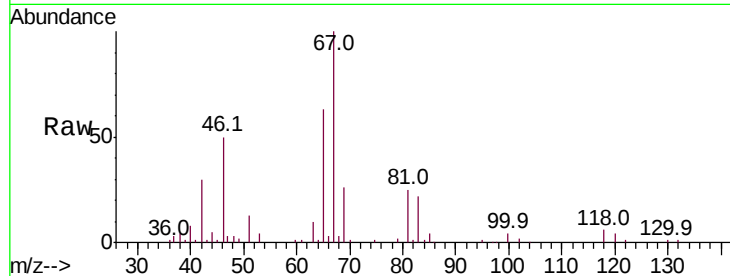
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 7003

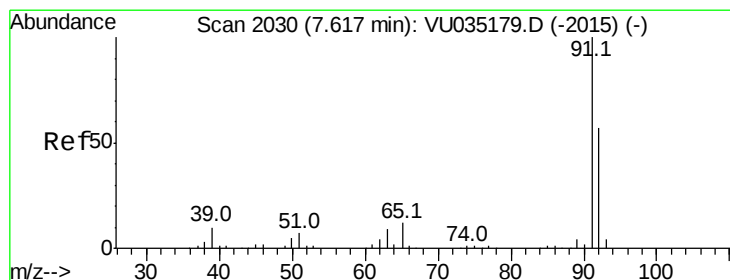
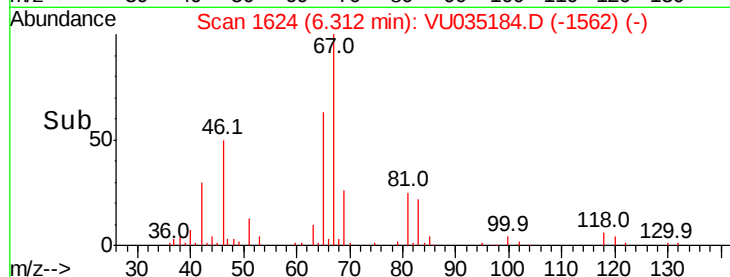
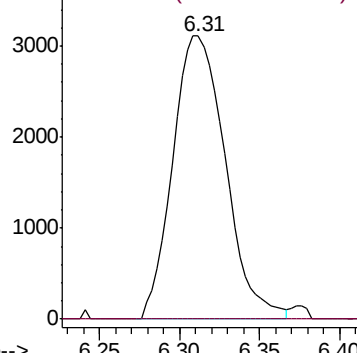
Ion Ratio Lower Upper

63 100

112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



#42

Toluene

Concen: 3.907 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU035184.D

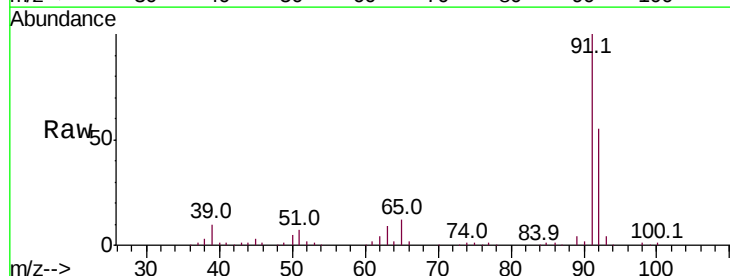
Acq: 15 Oct 2019 11:55

Tgt Ion: 91 Resp: 200936

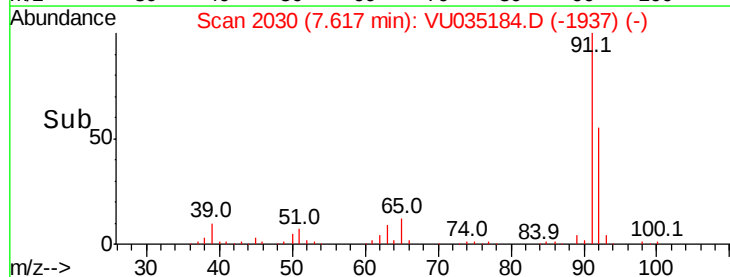
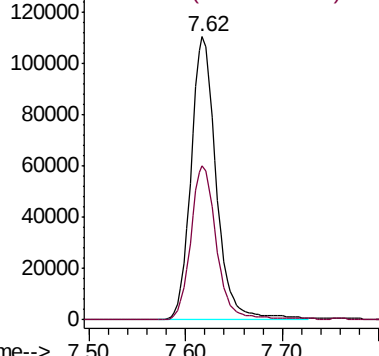
Ion Ratio Lower Upper

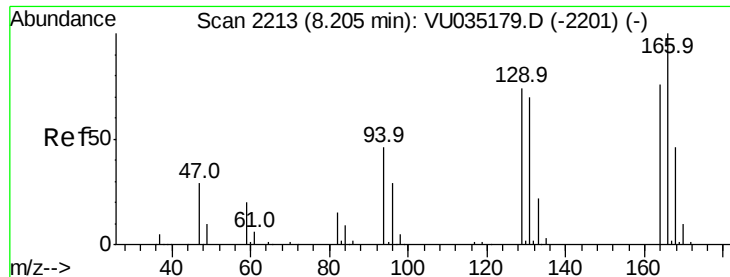
91 100

92 54.6 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0





#47

Tetrachloroethene

Concen: 4.121 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU035184.D

Acq: 15 Oct 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 42388

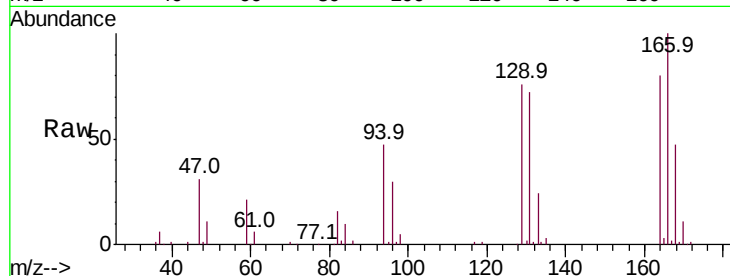
Ion Ratio Lower Upper

164 100

129 95.0 68.5 127.1

131 90.0 67.3 124.9

166 124.4 93.1 172.9

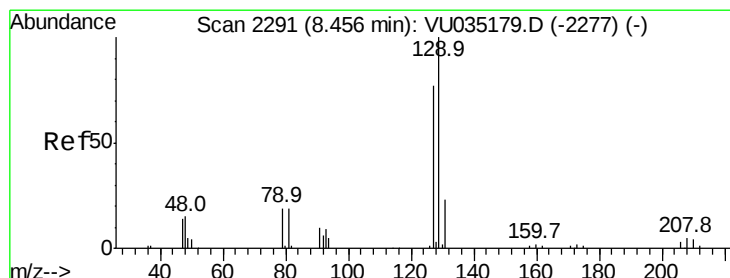
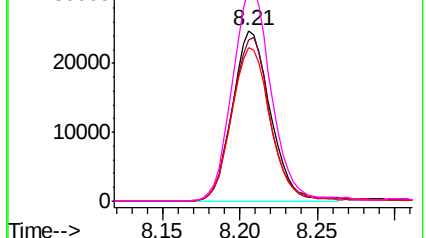
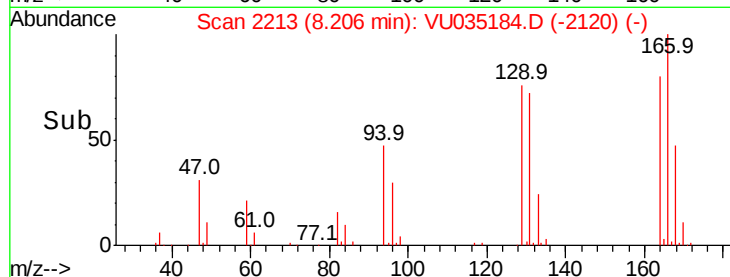


Abundance Ion 163.90 (163.60 to 164.60): V

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: 3.935 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. -0.25 min

Lab File: VU035184.D

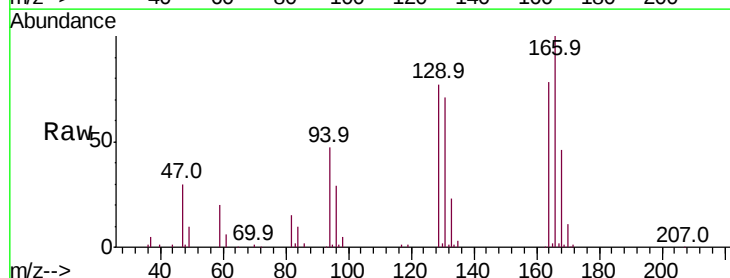
Acq: 15 Oct 2019 11:55

Tgt Ion:129 Resp: 40136

Ion Ratio Lower Upper

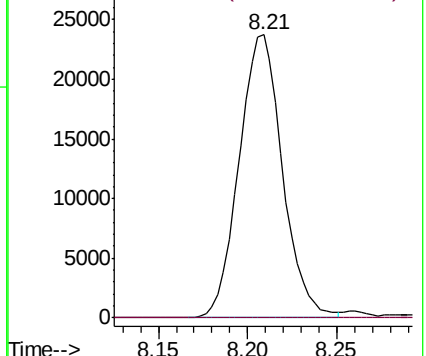
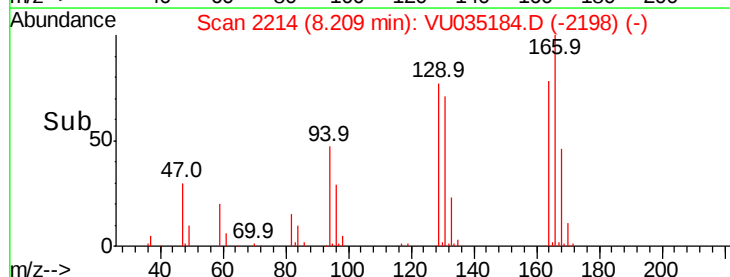
129 100

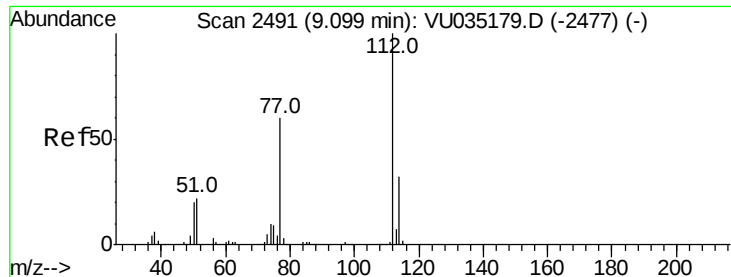
127 0.0 51.9 96.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

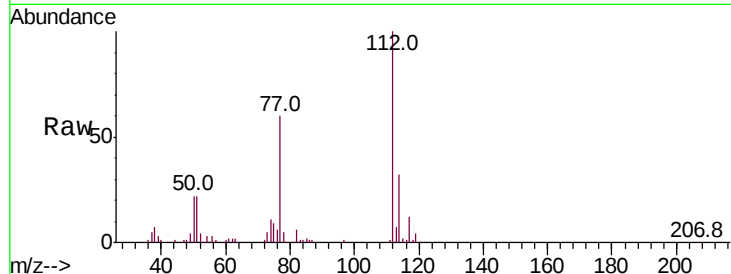




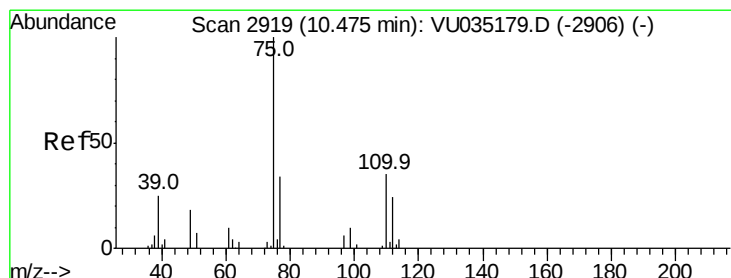
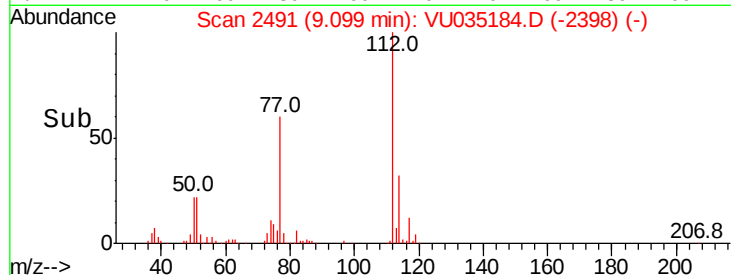
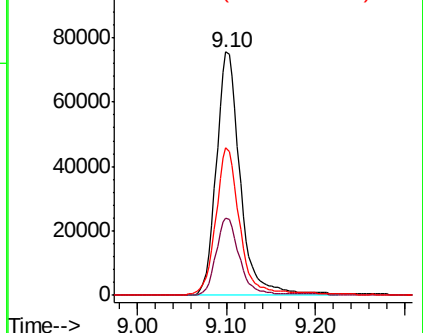
#51
Chlorobenzene
Concen: 4.235 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU035184.D
Acq: 15 Oct 2019 11:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:112 Resp: 141136
Ion Ratio Lower Upper
112 100
114 31.8 22.1 41.1
77 60.5 46.9 70.3

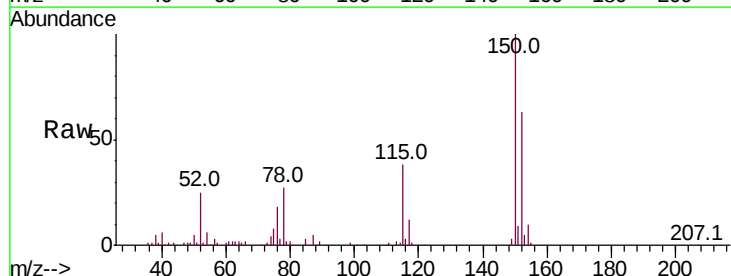


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V



#59
1,2,3-Trichloropropane
Concen: 0.917 ug/L
RT: 11.47 min Scan# 3227
Delta R.T. 0.99 min
Lab File: VU035184.D
Acq: 15 Oct 2019 11:55

Tgt Ion: 75 Resp: 7886
Ion Ratio Lower Upper
75 100
77 35.6 26.5 39.7



Abundance Ion 75.00 (74.70 to 75.70): VU0
Ion 77.00 (76.70 to 77.70): VU0

