

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101519\
 Data File : VU035199.D
 Acq On : 15 Oct 2019 19:53
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 16 01:11:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 16 01:09:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.87	114	186707	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	189156	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	92477	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	45931	4.16	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.20%
7) Chloroethane-d5	1.68	69	46108	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.60%
11) 1,1-Dichloroethene-d2	2.27	63	108651	4.67	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.40%
20) 2-Butanone-d5	4.17	46	193316	59.48	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.96%
24) Chloroform-d	4.62	84	112060	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.60%
26) 1,2-Dichloroethane-d4	5.29	65	60518	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
32) Benzene-d6	5.32	84	193156	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.00%
36) 1,2-Dichloropropane-d6	6.31	67	72596	4.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.00%
41) Toluene-d8	7.54	98	182194	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.00%
43) trans-1,3-Dichloropropene-	7.83	79	25069	4.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.00%
46) 2-Hexanone-d5	8.30	63	134621	53.04	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.08%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	71878	5.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	115.00%
64) 1,2-Dichlorobenzene-d4	11.84	152	68786	4.41	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	93470	5.478	ug/L 98
3) Chloromethane	1.33	50	101426	5.419	ug/L 99
5) Vinyl chloride	1.40	62	100480	5.465	ug/L 99
6) Bromomethane	1.62	94	54652	5.347	ug/L 93
8) Chloroethane	1.69	64	60872	5.520	ug/L 97
9) Trichlorofluoromethane	1.88	101	128501	5.779	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	71448	5.596	ug/L 96
12) 1,1-Dichloroethene	2.27	96	64626	5.389	ug/L 81
13) Acetone	2.31	43	151751	57.008	ug/L 94
14) Carbon disulfide	2.47	76	195302	4.894	ug/L 99
15) Methyl Acetate	2.60	43	40298	5.687	ug/L 96
16) Methylene chloride	2.69	84	81163	5.467	ug/L 82
17) Methyl tert-butyl Ether	2.98	73	181877	5.559	ug/L 96
18) trans-1,2-Dichloroethene	2.96	96	69990	5.450	ug/L 93
19) 1,1-Dichloroethane	3.42	63	151435	5.933	ug/L 98
21) 2-Butanone	4.25	43	210055	55.412	ug/L 97
22) cis-1,2-Dichloroethene	4.20	96	76727	5.356	ug/L 86

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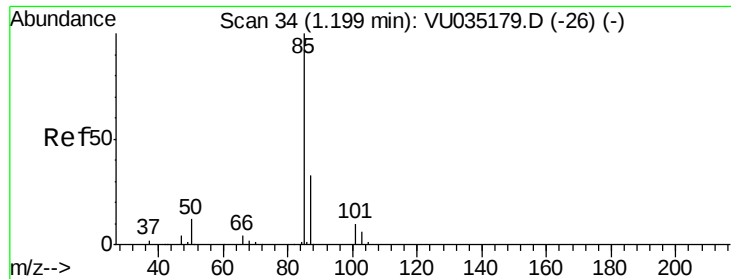
Instrument :
 MSVOA_U
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.52	128	35859	5.973	ug/L	88
25) Chloroform	4.65	83	157136	5.480	ug/L	99
27) 1,2-Dichloroethane	5.38	62	93286	5.570	ug/L	100
29) 1,1,1-Trichloroethane	4.89	97	120093	5.653	ug/L	98
30) Cyclohexane	4.97	56	114326	4.894	ug/L	94
31) Carbon tetrachloride	5.11	117	106519	5.783	ug/L	98
33) Benzene	5.37	78	309257	5.428	ug/L	100
34) Trichloroethene	6.16	95	77653	5.285	ug/L	99
35) Methylcyclohexane	6.39	83	112651	4.733	ug/L	94
37) 1,2-Dichloropropane	6.41	63	88744	5.774	ug/L	99
38) Bromodichloromethane	6.74	83	103438	5.741	ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	110025	5.284	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	539556	55.777	ug/L	93
42) Toluene	7.62	91	340187	5.720	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	90861	5.634	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	58678	5.750	ug/L	97
47) Tetrachloroethene	8.21	164	60690	5.102	ug/L	97
48) 2-Hexanone	8.35	43	389120	58.669	ug/L #	92
49) Dibromochloromethane	8.46	129	71041	6.023	ug/L	98
50) 1,2-Dibromoethane	8.57	107	55900	5.731	ug/L	96
51) Chlorobenzene	9.10	112	210361	5.458	ug/L	98
52) Ethylbenzene	9.23	91	348182	5.300	ug/L	98
53) m,p-Xylene	9.36	106	129660	5.344	ug/L	95
54) o-Xylene	9.76	106	126319	5.323	ug/L	96
55) Styrene	9.78	104	217198	5.652	ug/L	99
56) Isopropylbenzene	10.15	105	335282	5.303	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	81045	5.840	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	56263	5.655	ug/L	96
61) Bromoform	9.94	173	38456	6.063	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	153667	5.394	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	149871	5.213	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	148102	5.388	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	9818	5.620	ug/L	88
67) 1,3,5-Trichlorobenzene	12.87	180	85207	4.417	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	52725	3.660	ug/L	98
69) Naphthalene	13.73	128	66828	2.983	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	55677	3.974	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.478 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

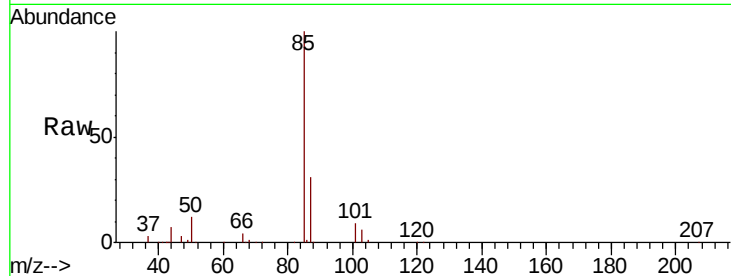
ClientSampleId :

Tot Ion: 85 Resp: 93470

Ion Ratio Lower Upper

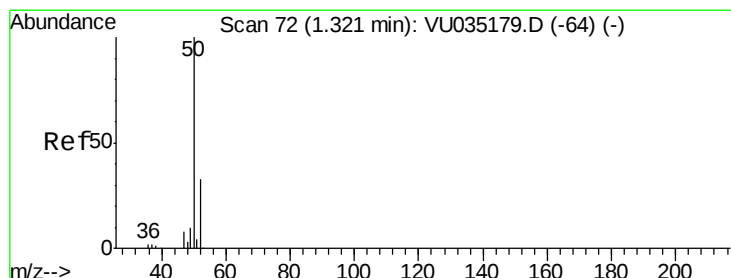
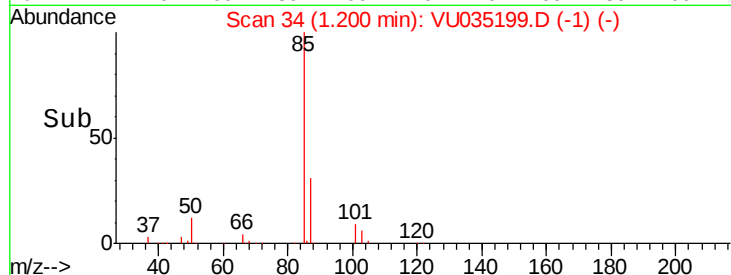
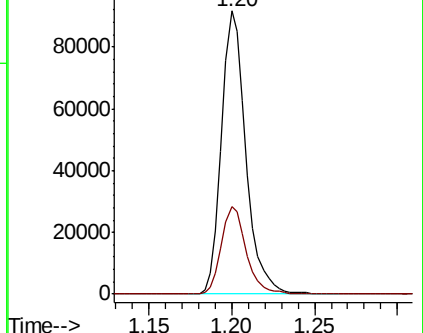
85 100

87 31.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU035199.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU035199.D (-1) (-)



#3

Chloromethane

Concen: 5.419 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU035199.D

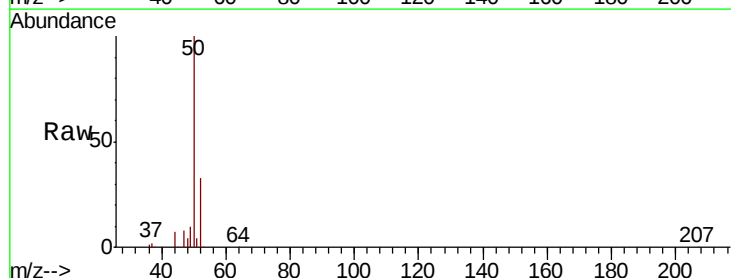
Acq: 15 Oct 2019 19:53

Tgt Ion: 50 Resp: 101426

Ion Ratio Lower Upper

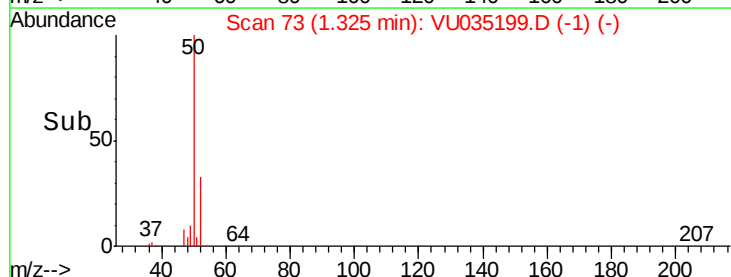
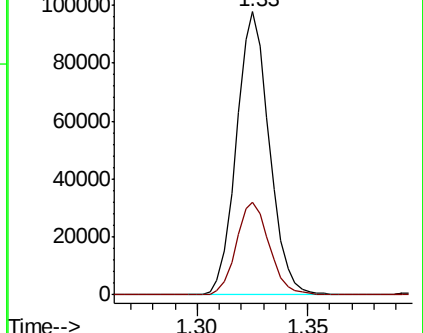
50 100

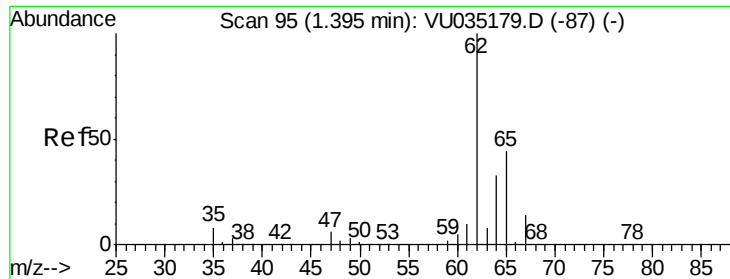
52 32.8 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU035199.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU035199.D (-1) (-)





#5

Vinyl chloride

Concen: 5.465 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

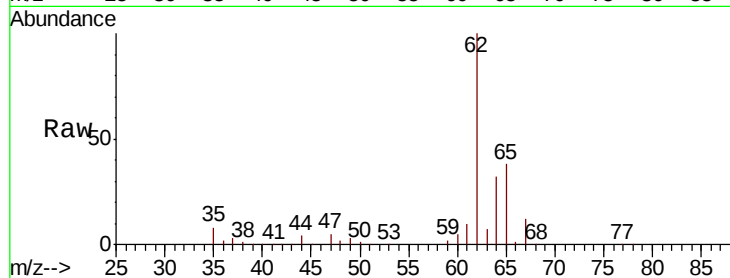
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 100480

Ion Ratio Lower Upper

62 100

64 32.3 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU035199.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU035199.D (-87) (-)

1.40

100000

80000

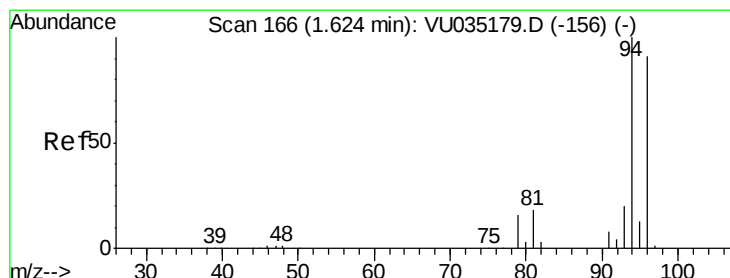
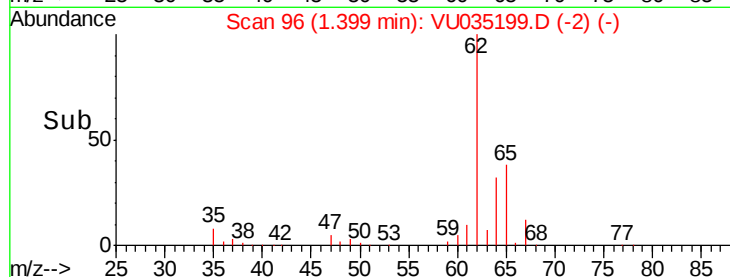
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 5.347 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035199.D

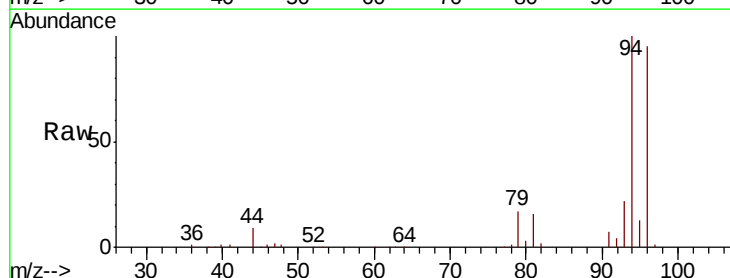
Acq: 15 Oct 2019 19:53

Tgt Ion: 94 Resp: 54652

Ion Ratio Lower Upper

94 100

96 95.3 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU035199.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035199.D (-156) (-)

1.62

50000

40000

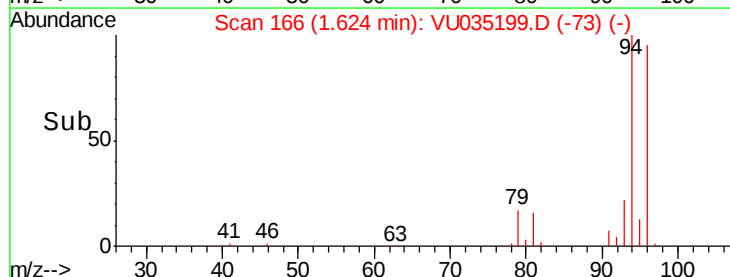
30000

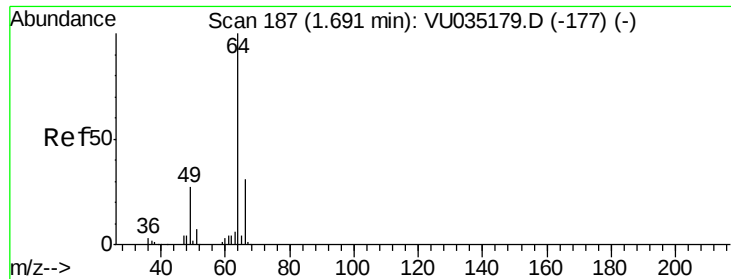
20000

10000

0

Time-->





#8

Chloroethane

Concen: 5.520 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

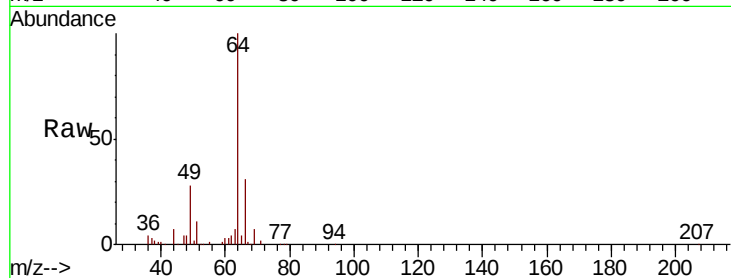
ClientSampleId :

Tot Ion: 64 Resp: 60872

Ion Ratio Lower Upper

64 100

66 31.4 23.2 43.2



Abundance Ion 64.10 (63.80 to 64.80): VU035199.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU035199.D (-177) (-)

1.69

50000

40000

30000

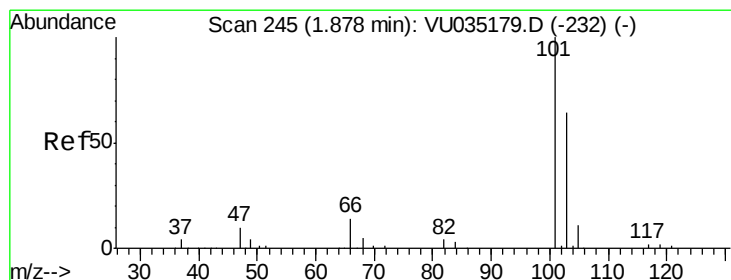
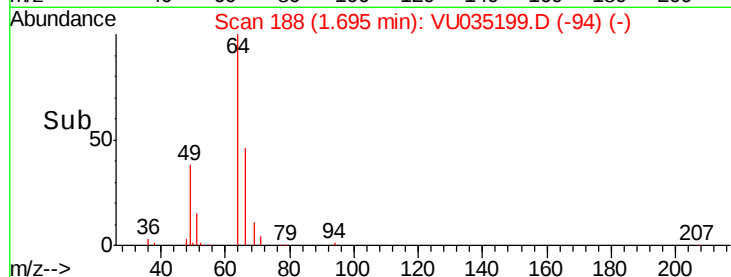
20000

10000

0

Time-->

1.60 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 5.779 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU035199.D

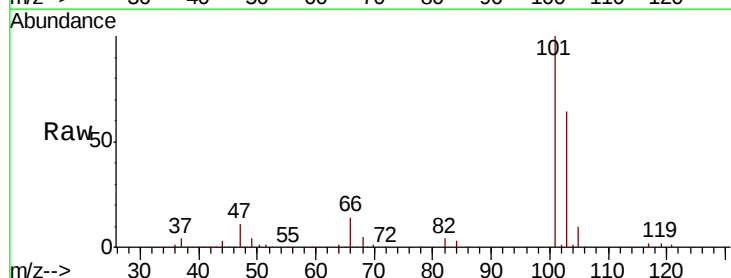
Acq: 15 Oct 2019 19:53

Tgt Ion:101 Resp: 128501

Ion Ratio Lower Upper

101 100

103 63.9 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): VU035199.D (-232) (-)

Ion 103.00 (102.70 to 103.70): VU035199.D (-232) (-)

1.88

100000

80000

60000

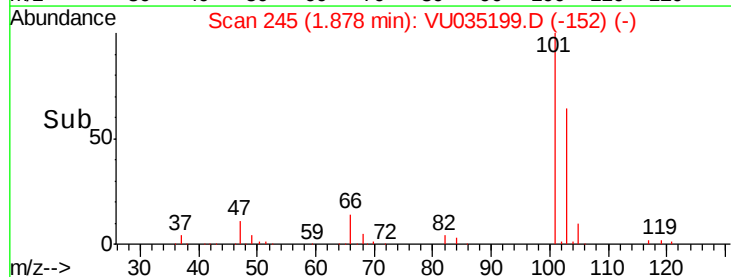
40000

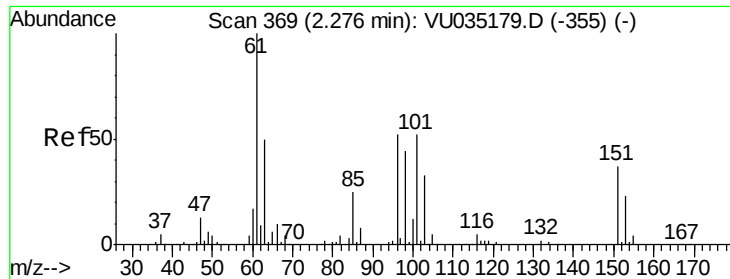
20000

0

Time-->

1.80 1.85 1.90 1.95





#10

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

Concen: 5.596 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

ClientSampleId :

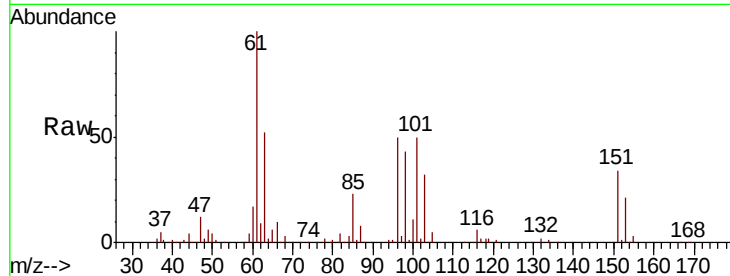
Tot Ion:101 Resp: 71448

Ion Ratio Lower Upper

101 100

85 47.1 37.4 56.0

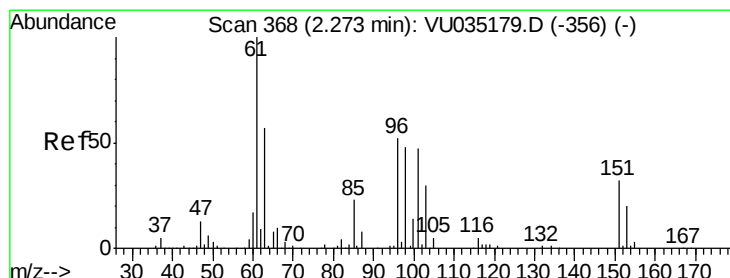
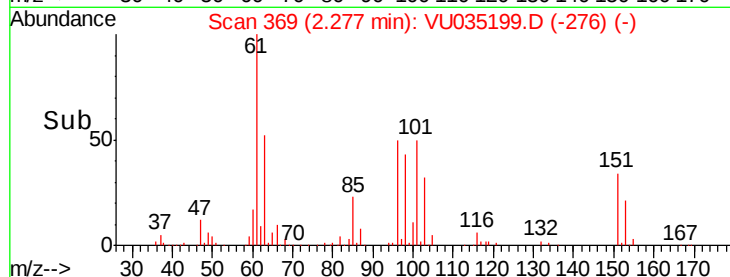
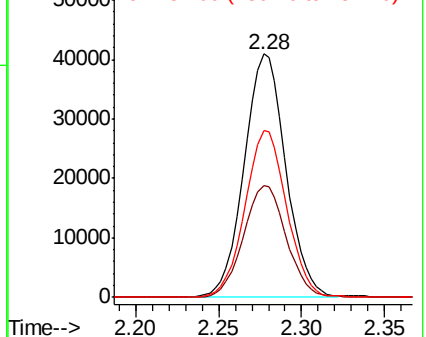
151 68.6 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.389 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

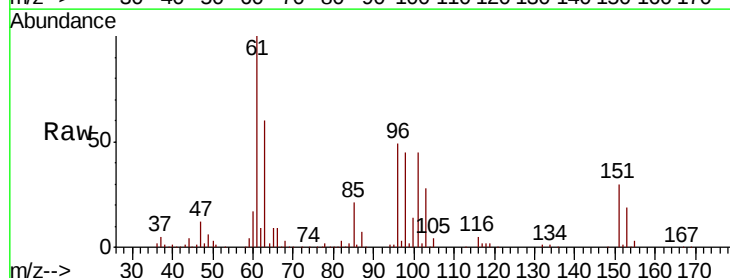
Tgt Ion: 96 Resp: 64626

Ion Ratio Lower Upper

96 100

61 202.4 129.3 240.1

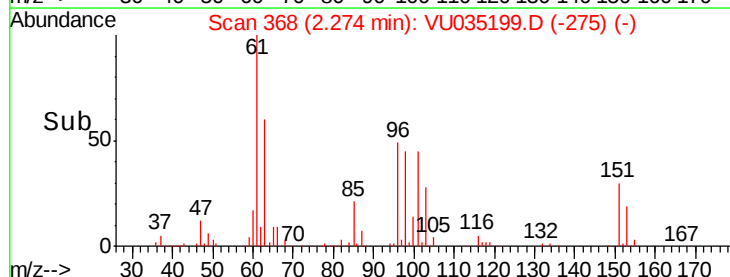
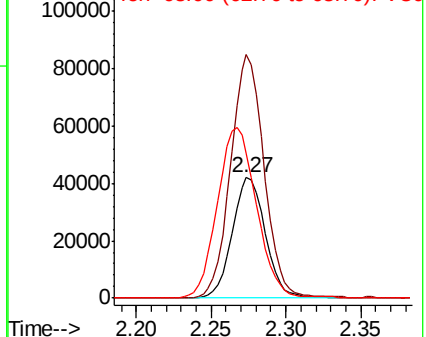
63 120.8 108.9 202.3

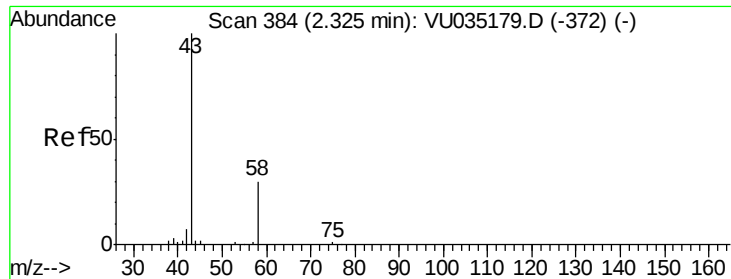


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 57.008 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.02 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

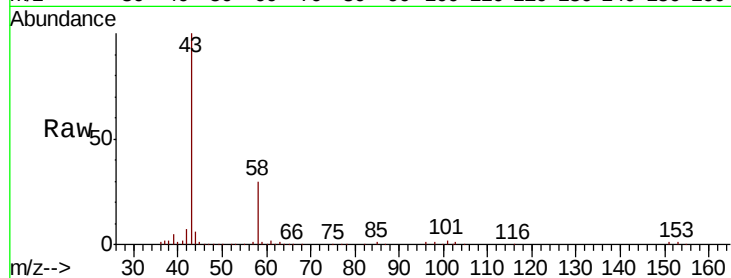
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 151751

Ion Ratio Lower Upper

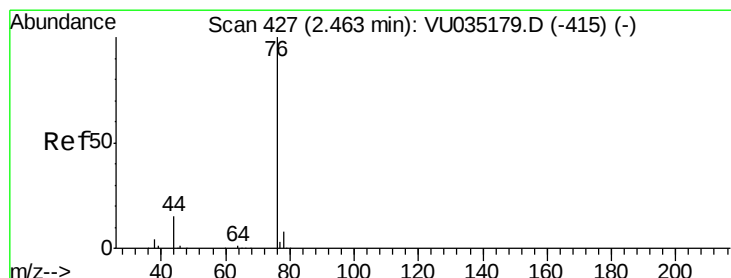
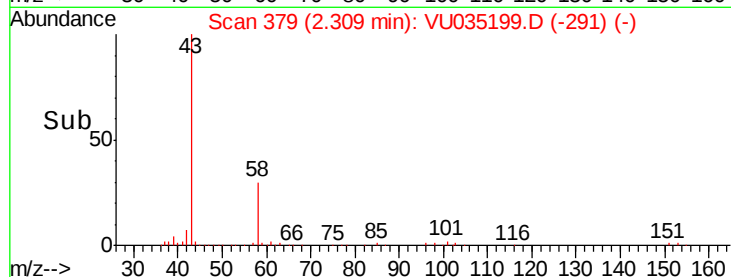
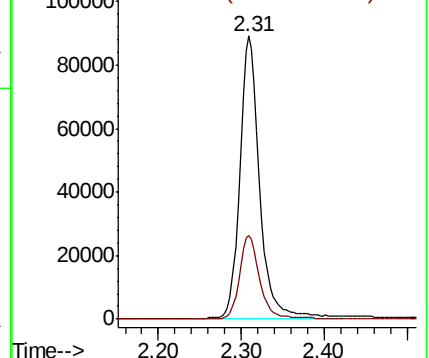
43 100

58 29.8 0.0 66.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.894 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU035199.D

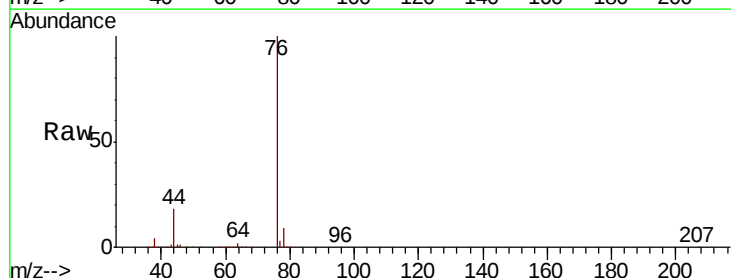
Acq: 15 Oct 2019 19:53

Tgt Ion: 76 Resp: 195302

Ion Ratio Lower Upper

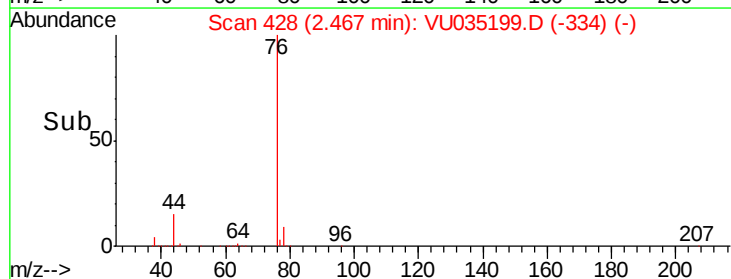
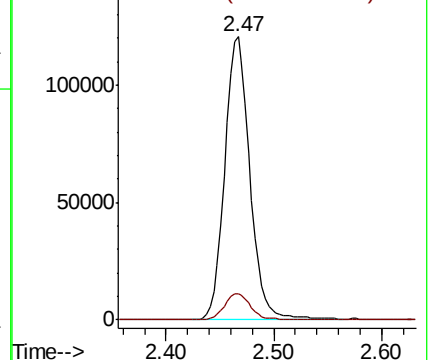
76 100

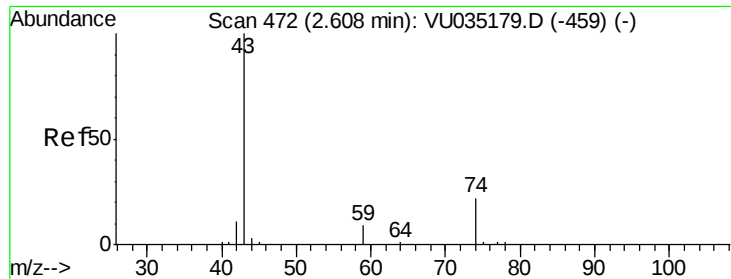
78 9.4 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 5.687 ug/L

RT: 2.60 min Scan# 471

Delta R.T. -0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

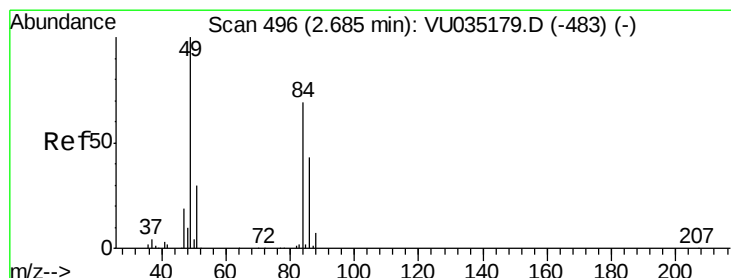
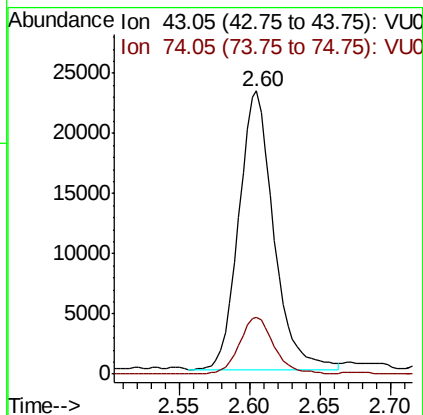
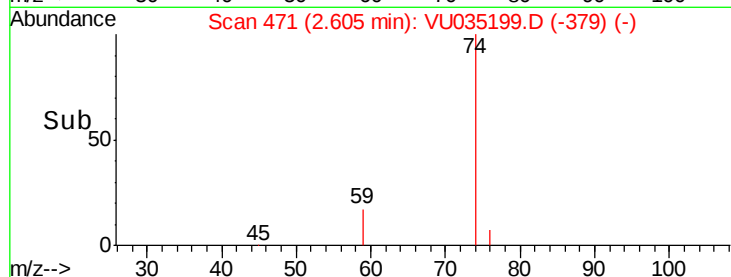
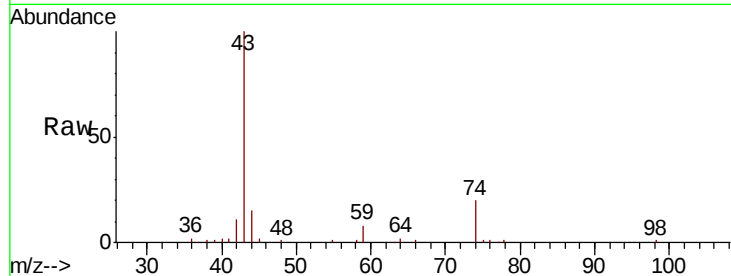
ClientSampled :

Tot Ion: 43 Resp: 40298

Ion Ratio Lower Upper

43 100

74 20.2 17.8 26.8



#16

Methylene chloride

Concen: 5.467 ug/L

RT: 2.69 min Scan# 497

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

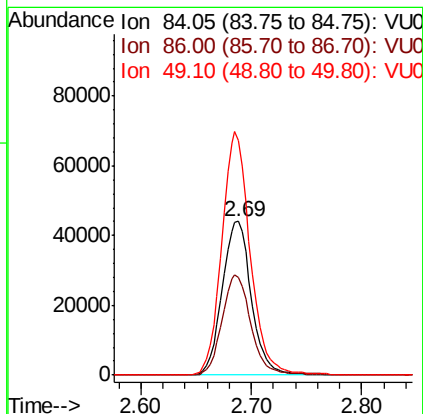
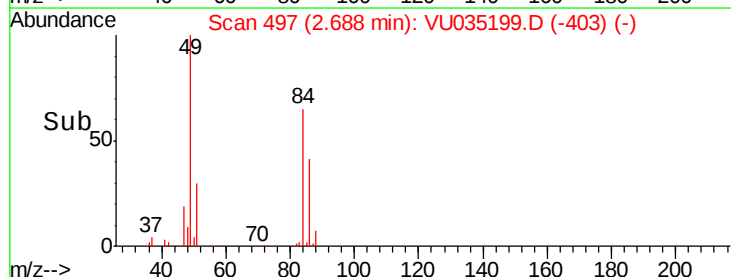
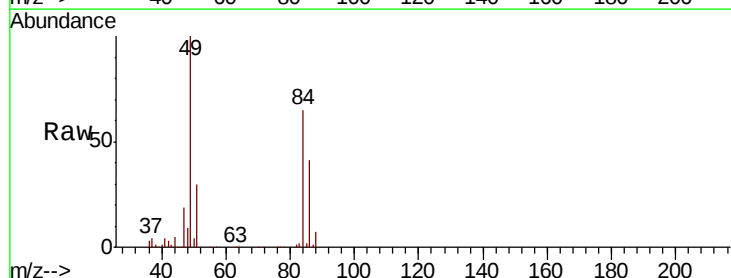
Tgt Ion: 84 Resp: 81163

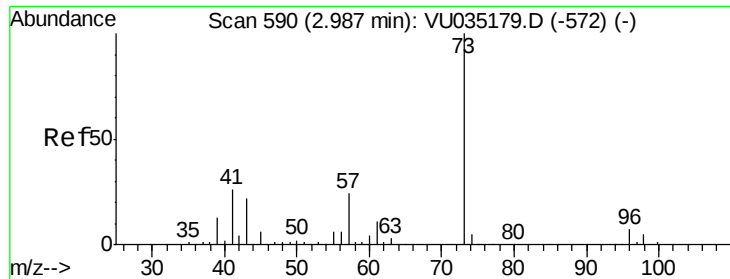
Ion Ratio Lower Upper

84 100

86 63.4 42.5 78.9

49 153.0 86.9 161.3

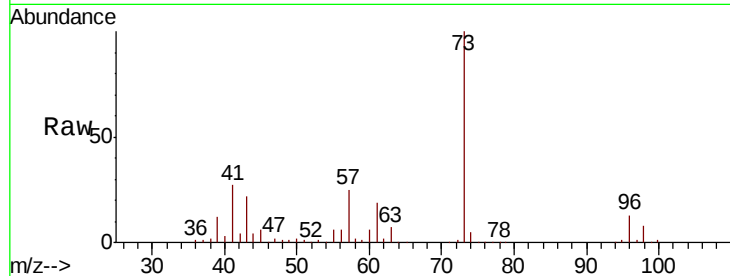




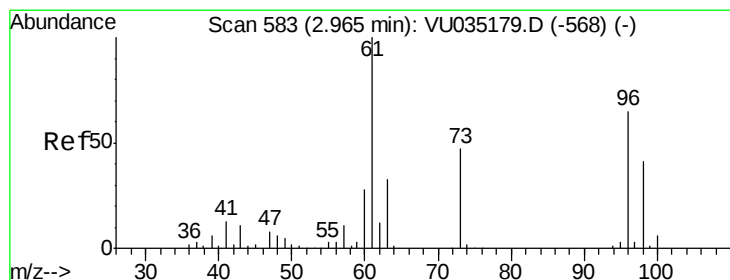
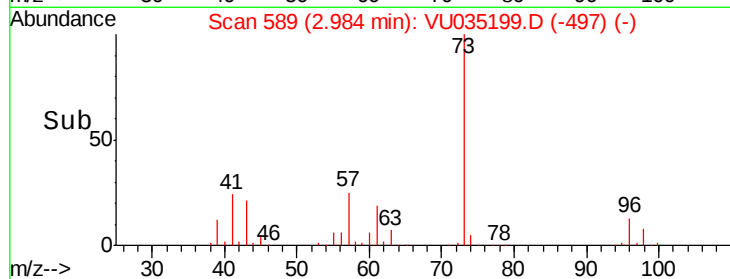
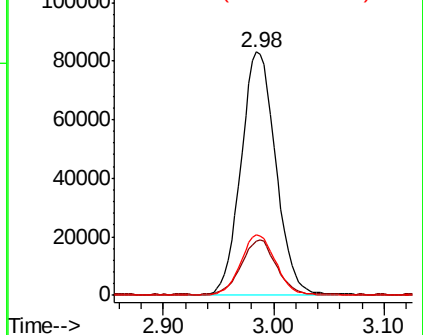
#17
Methvl tert-butvl Ether
Concen: 5.559 ug/L
RT: 2.98 min Scan# 589
Delta R.T. -0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 73 Resp: 181877
Ion Ratio Lower Upper
73 100
43 22.3 16.3 24.5
57 25.1 18.6 28.0

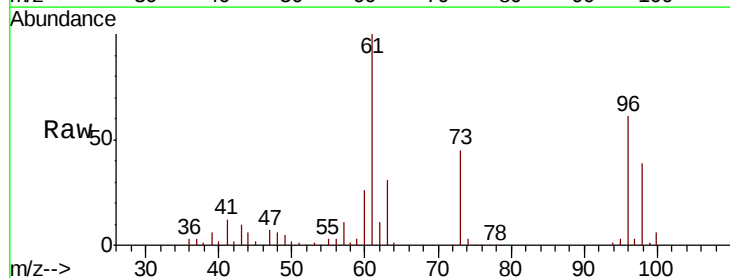


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

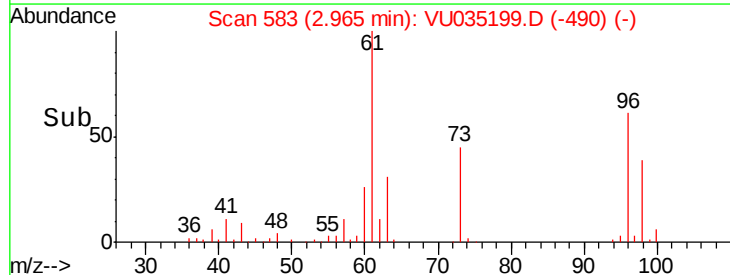
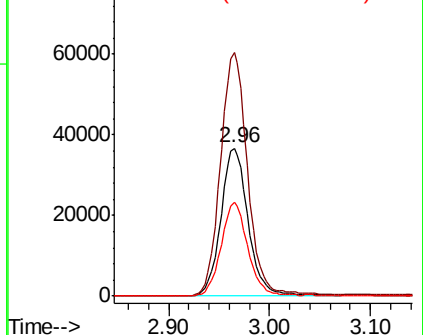


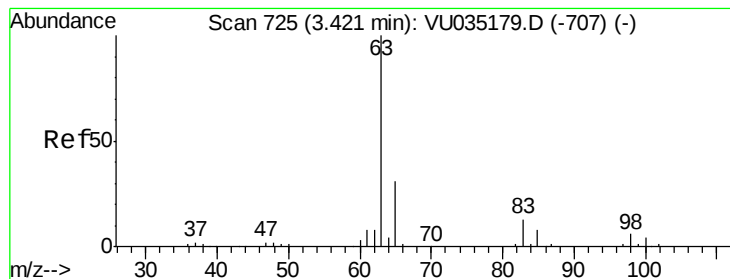
#18
trans-1,2-Dichloroethene
Concen: 5.450 ug/L
RT: 2.96 min Scan# 583
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Tgt Ion: 96 Resp: 69990
Ion Ratio Lower Upper
96 100
61 164.5 107.1 198.9
98 63.5 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 5.933 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :
MSVOA_U
ClientSampled :

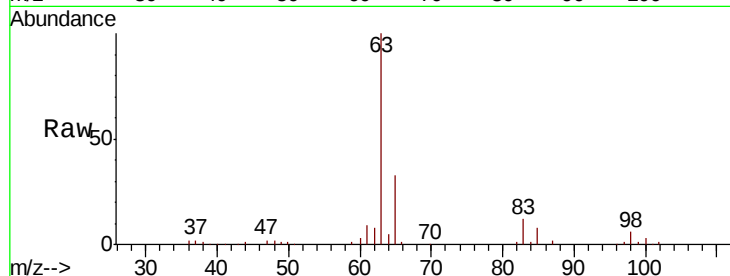
Tot Ion: 63 Resp: 151435

Ion Ratio Lower Upper

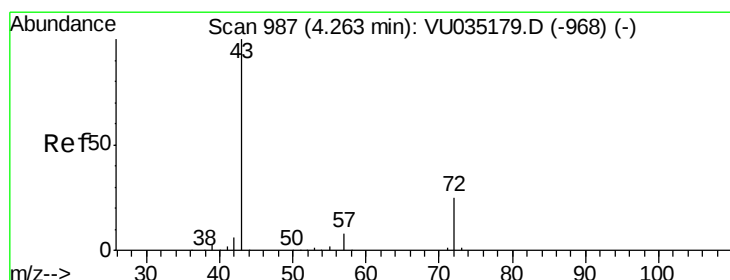
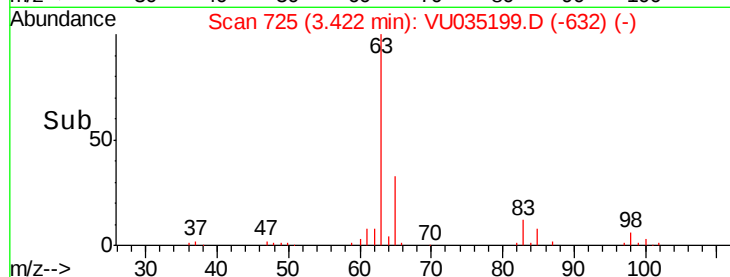
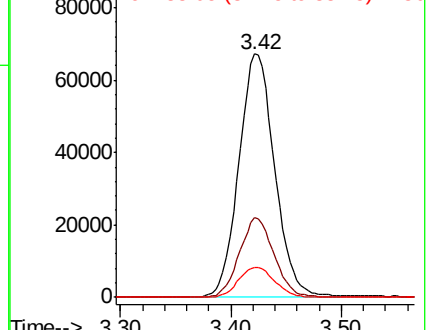
63 100

65 32.5 21.7 40.3

83 12.2 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0



#21

2-Butanone

Concen: 55.412 ug/L

RT: 4.25 min Scan# 983

Delta R.T. -0.01 min

Lab File: VU035199.D

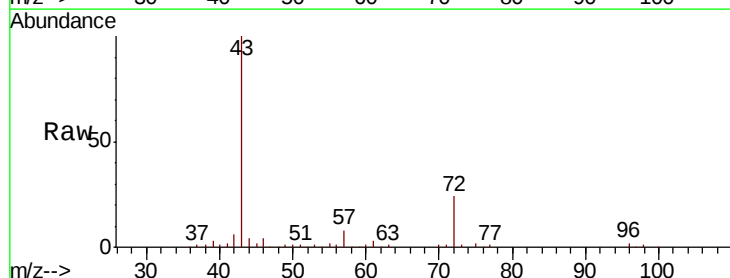
Acq: 15 Oct 2019 19:53

Tgt Ion: 43 Resp: 210055

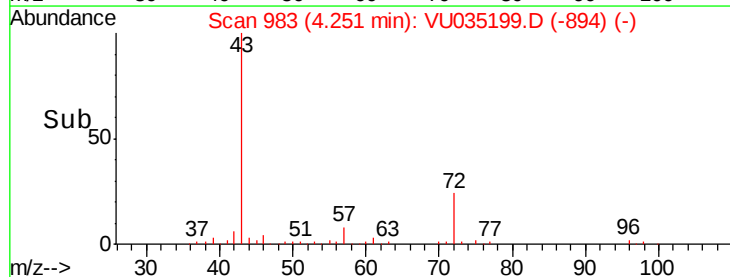
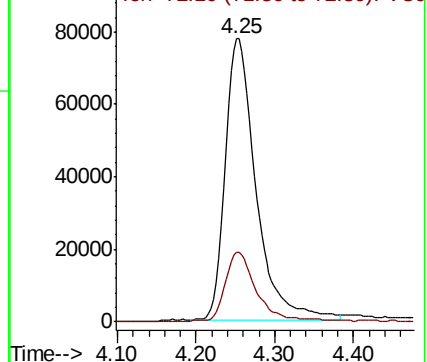
Ion Ratio Lower Upper

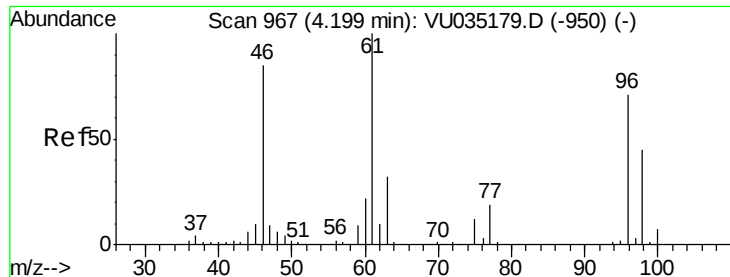
43 100

72 25.6 13.5 40.4



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 72.10 (71.80 to 72.80): VU0



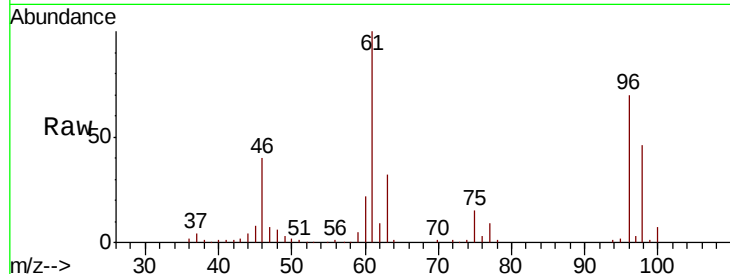


#22

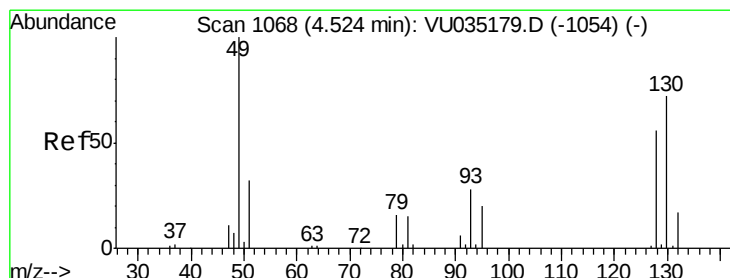
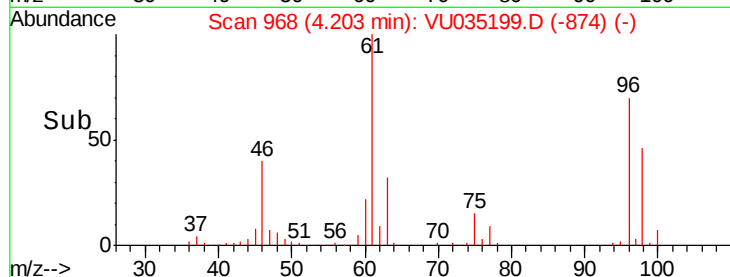
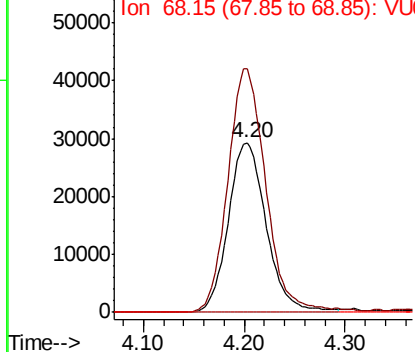
cis-1,2-Dichloroethene
Concen: 5.356 ug/L
RT: 4.20 min Scan# 968
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 76727
Ion Ratio Lower Upper
96 100
61 143.3 89.2 165.6
68 0.0 0.0 0.0



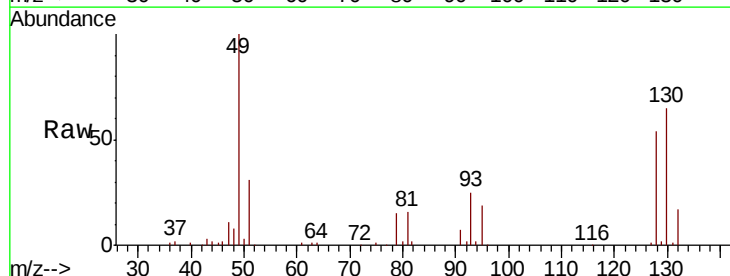
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



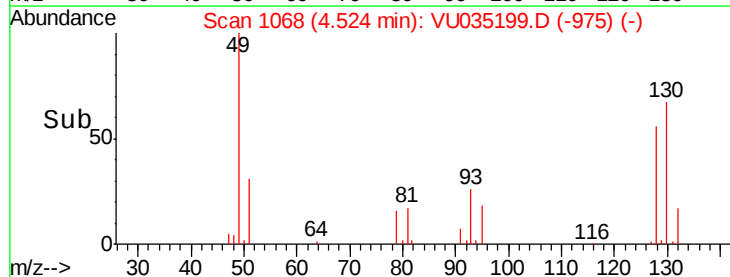
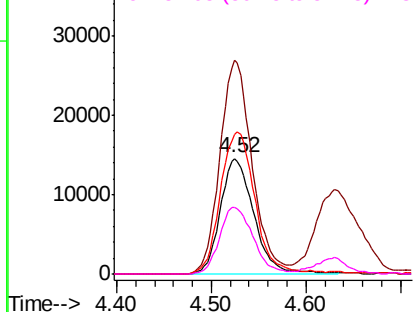
#23

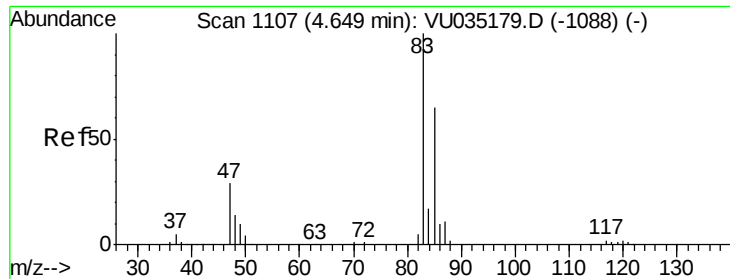
Bromochloromethane
Concen: 5.973 ug/L
RT: 4.52 min Scan# 1068
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Tgt Ion: 128 Resp: 35859
Ion Ratio Lower Upper
128 100
49 184.8 110.5 205.3
130 120.8 88.6 164.6
51 57.6 43.2 64.8



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VU0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VU0

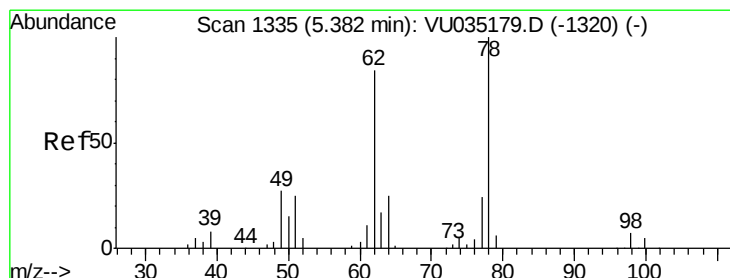
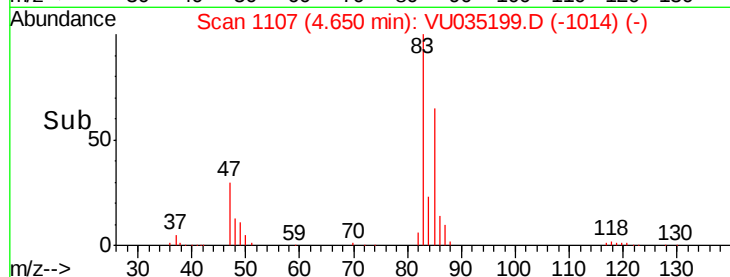
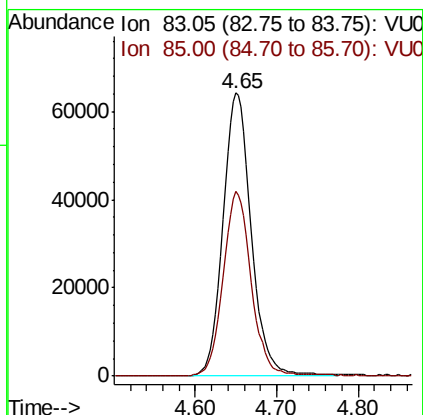
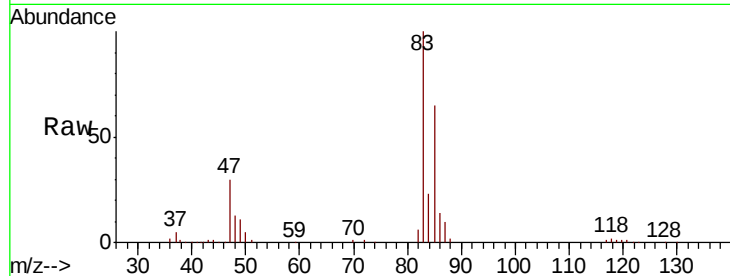




#25
Chloroform
Concen: 5.480 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

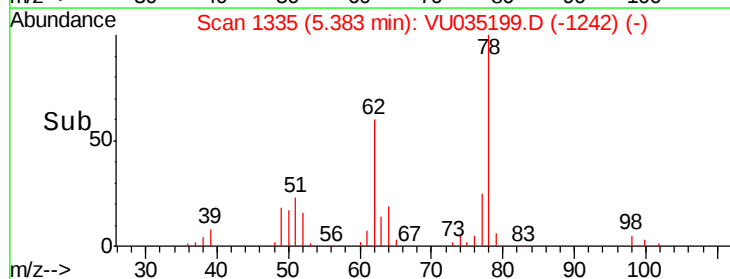
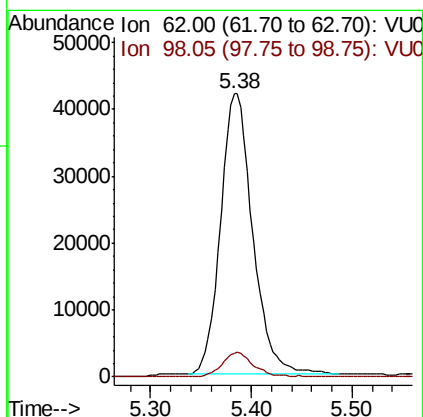
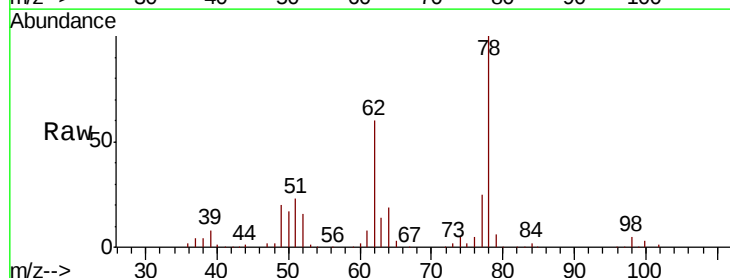
Instrument :
MSVOA_U
ClientSampleId :

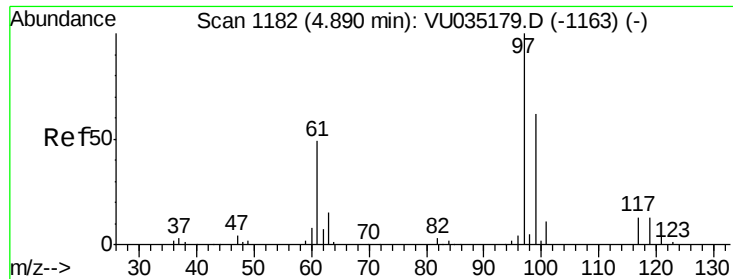
Tot Ion: 83 Resp: 157136
Ion Ratio Lower Upper
83 100
85 65.3 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.570 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Tgt Ion: 62 Resp: 93286
Ion Ratio Lower Upper
62 100
98 8.4 6.6 10.0

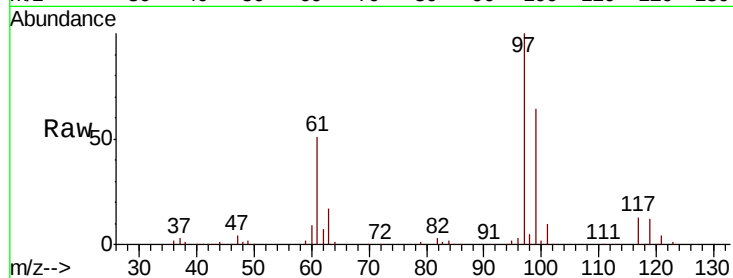




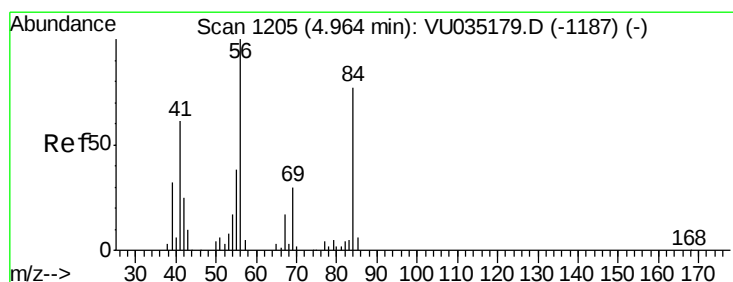
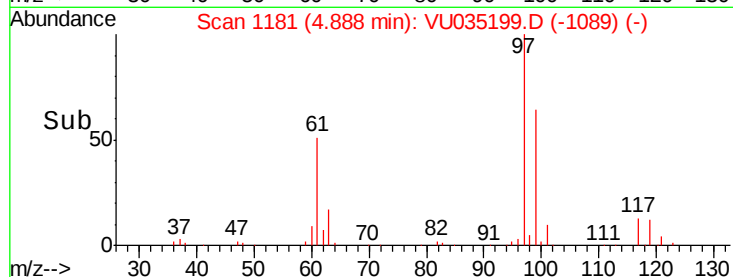
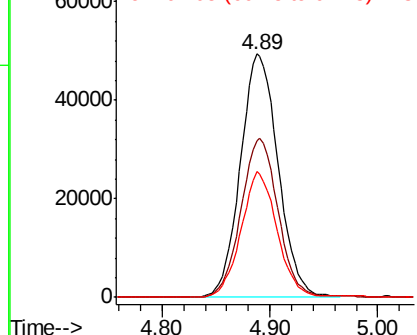
#29
1,1,1-Trichloroethane
Concen: 5.653 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 97 Resp: 120093
Ion Ratio Lower Upper
97 100
99 64.3 51.6 77.4
61 48.8 36.2 54.4

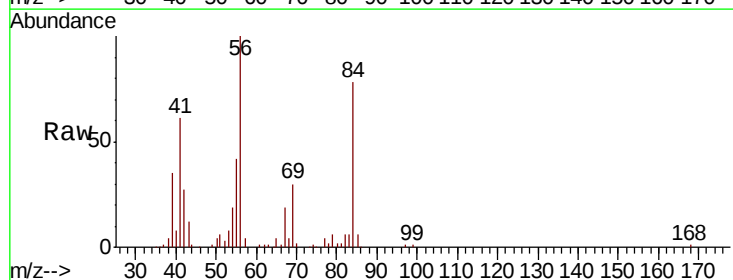


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

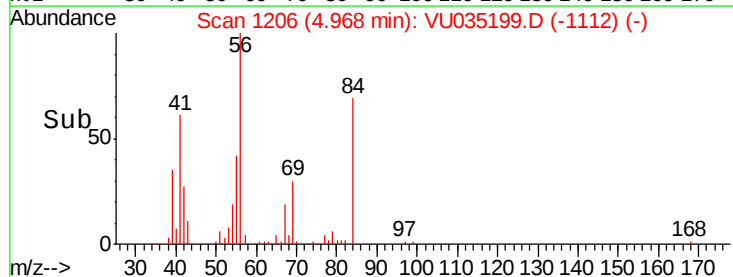
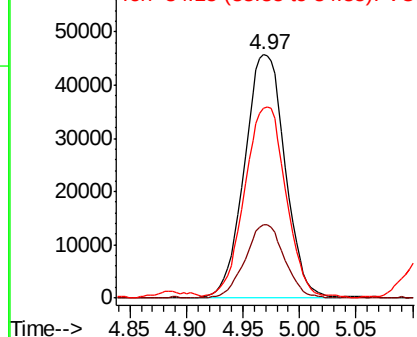


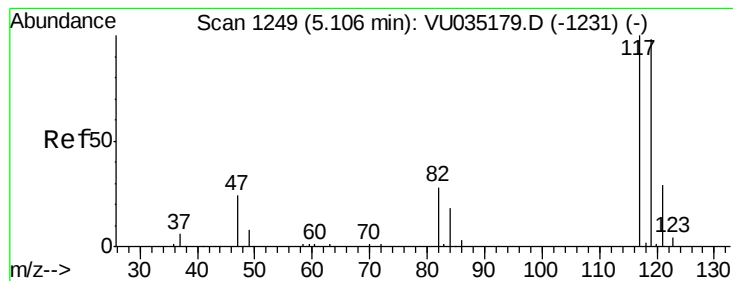
#30
Cyclohexane
Concen: 4.894 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Tgt Ion: 56 Resp: 114326
Ion Ratio Lower Upper
56 100
69 29.1 23.9 35.9
84 79.8 69.5 104.3



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.783 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

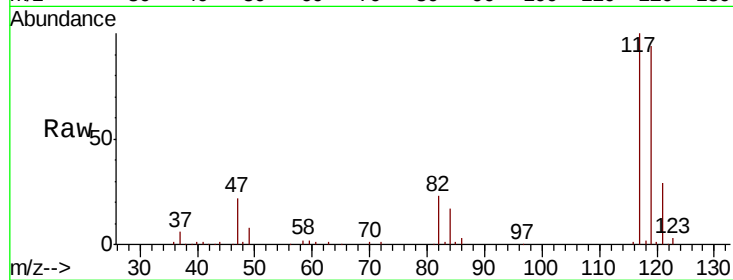
ClientSampleId :

Tot Ion:117 Resp: 106519

Ion Ratio Lower Upper

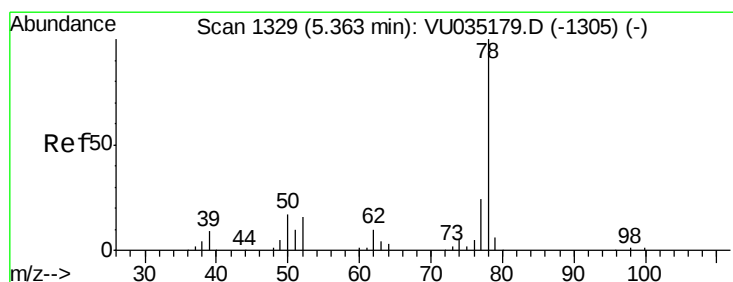
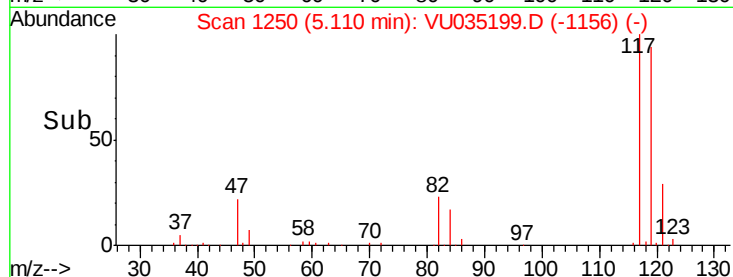
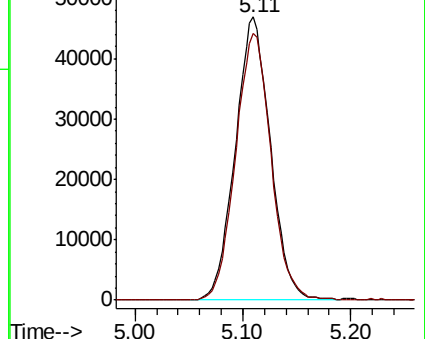
117 100

119 94.7 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.428 ug/L

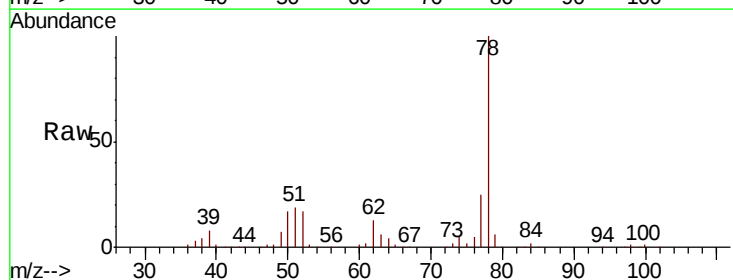
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

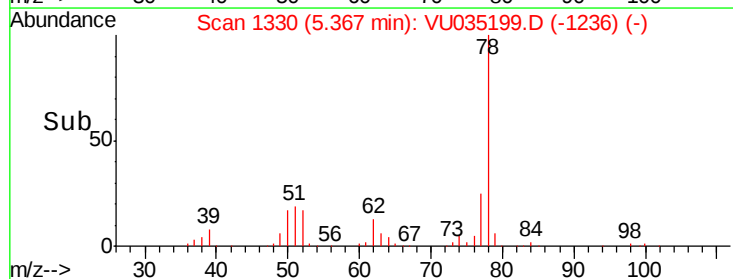
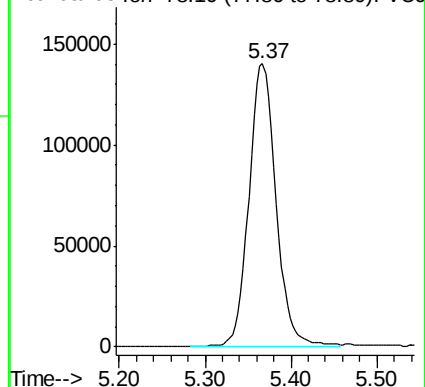
Lab File: VU035199.D

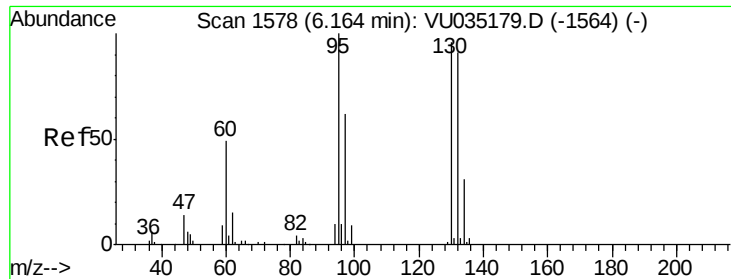
Acq: 15 Oct 2019 19:53

Tgt Ion: 78 Resp: 309257



Abundance Ion 78.10 (77.80 to 78.80): VU0

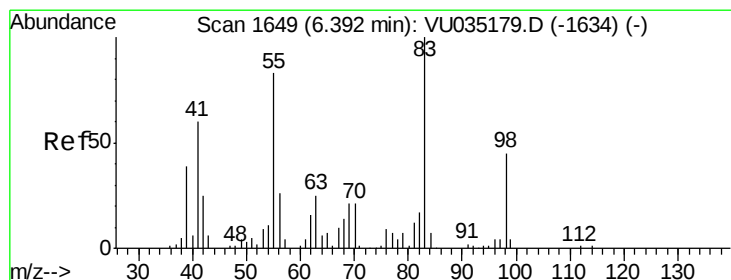
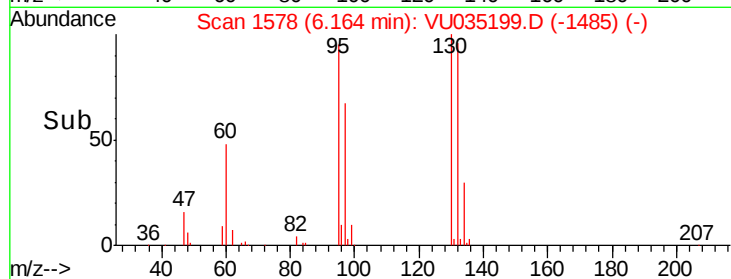
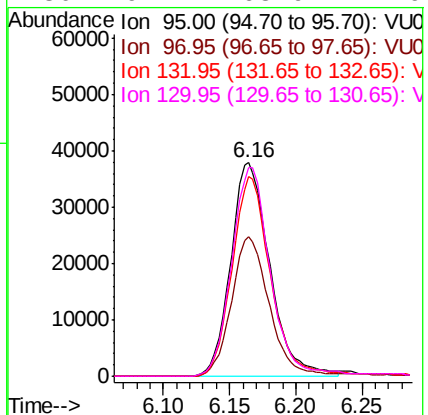
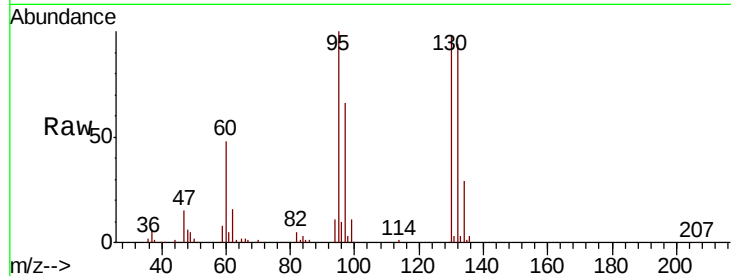




#34
 Trichloroethene
 Concen: 5.285 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VU035199.D
 Acq: 15 Oct 2019 19:53

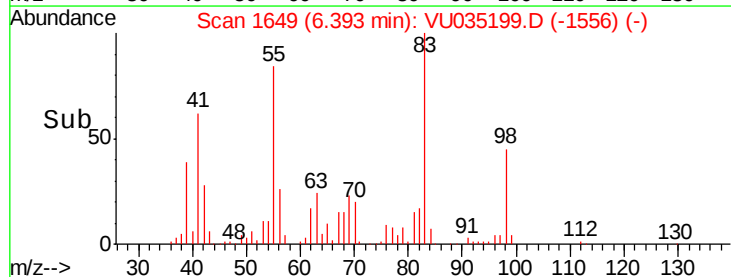
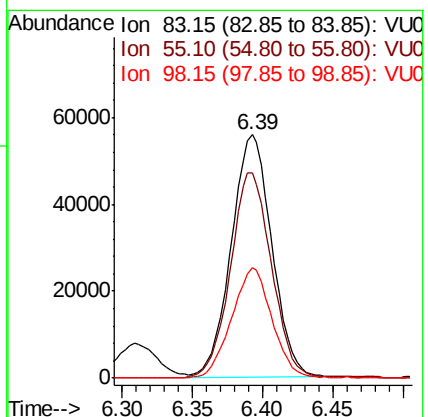
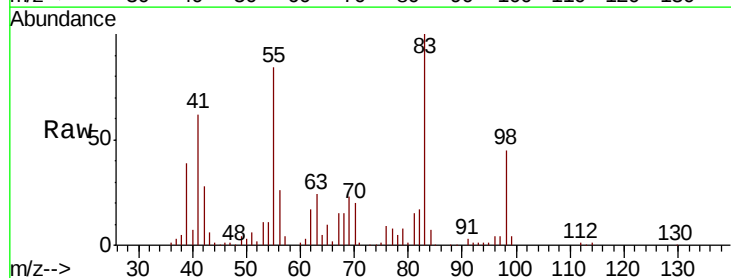
Instrument :
 MSVOA_U
 ClientSampleId :

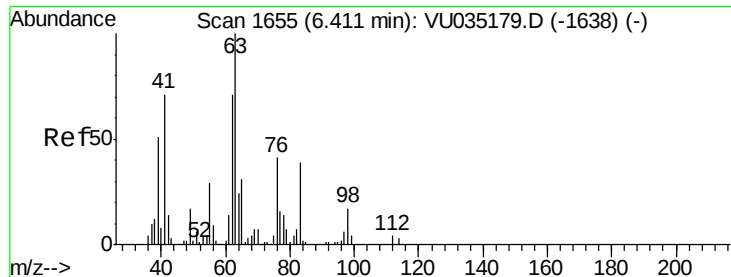
Tot Ion:	95	Resp:	77653
Ion	Ratio	Lower	Upper
95	100		
97	65.5	44.5	82.7
132	93.8	66.6	123.8
130	97.7	68.9	127.9



#35
 Methylcyclohexane
 Concen: 4.733 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU035199.D
 Acq: 15 Oct 2019 19:53

Tgt Ion:	83	Resp:	112651
Ion	Ratio	Lower	Upper
83	100		
55	86.0	62.6	94.0
98	45.1	36.2	54.2





#37

1,2-Dichloropropane

Concen: 5.774 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

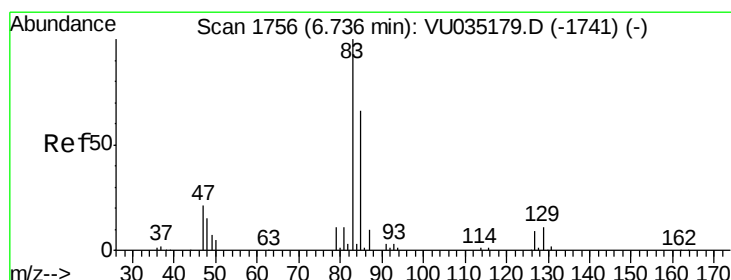
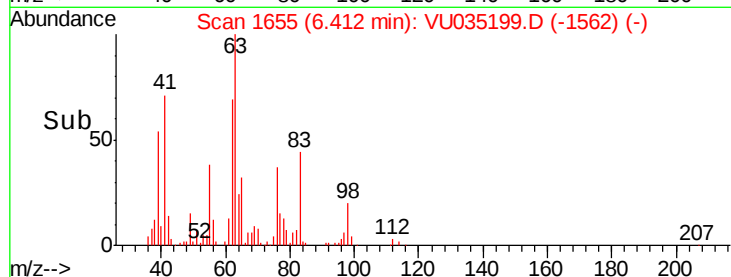
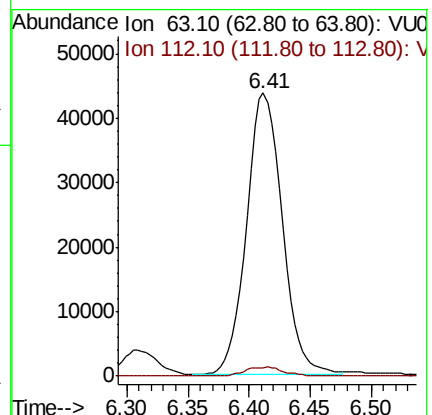
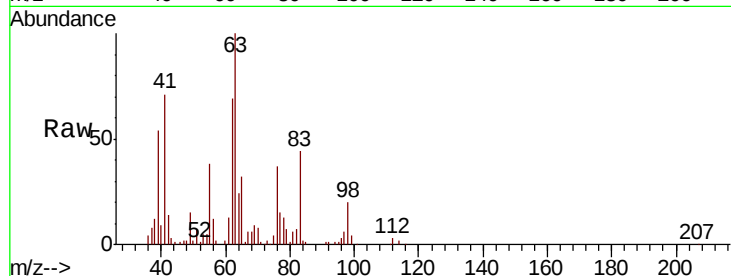
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 63 Resp: 88744

Ion Ratio Lower Upper

63 100

112 3.4 3.1 4.7



#38

Bromodichloromethane

Concen: 5.741 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

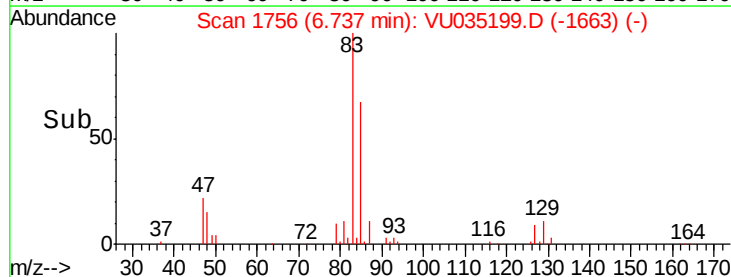
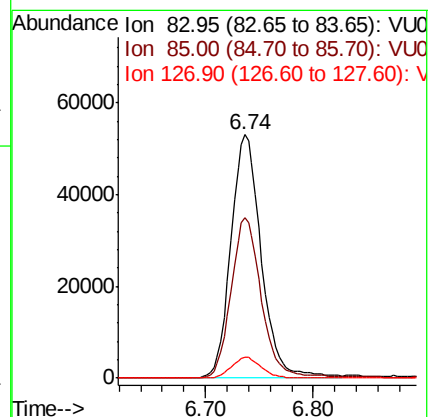
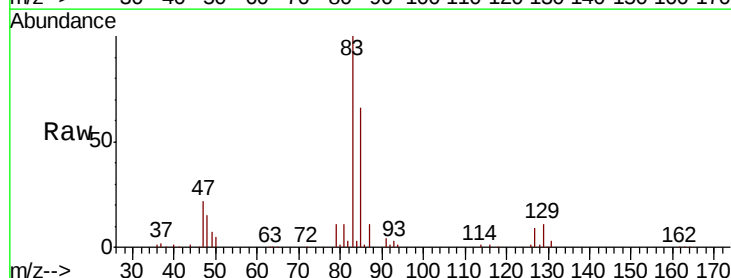
Tgt Ion: 83 Resp: 103438

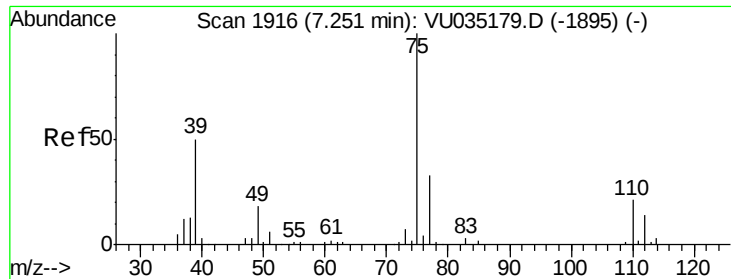
Ion Ratio Lower Upper

83 100

85 65.8 44.0 81.8

127 8.6 7.0 10.4

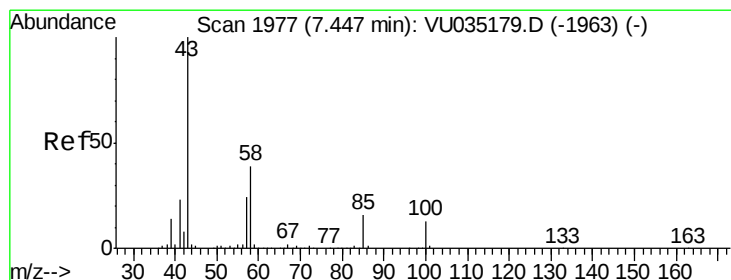
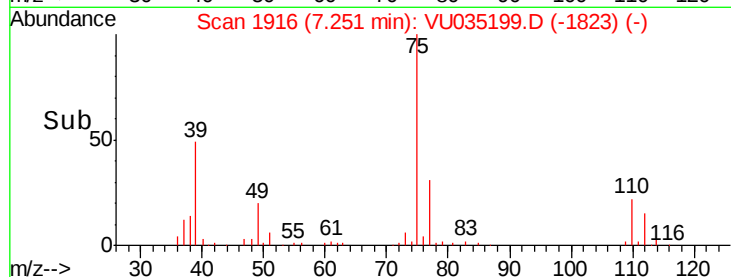
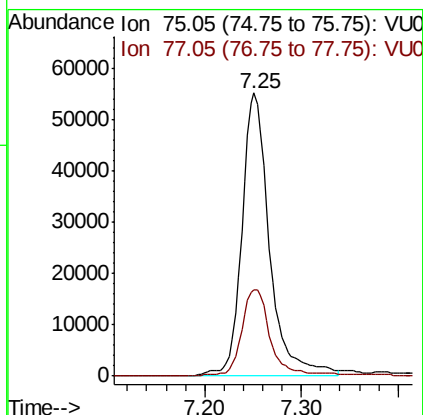
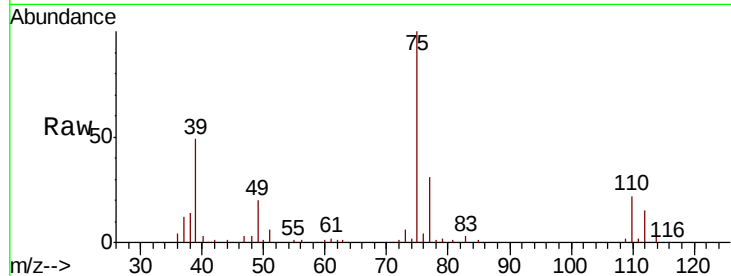




#39
 cis-1,3-Dichloropropene
 Concen: 5.284 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU035199.D
 Acq: 15 Oct 2019 19:53

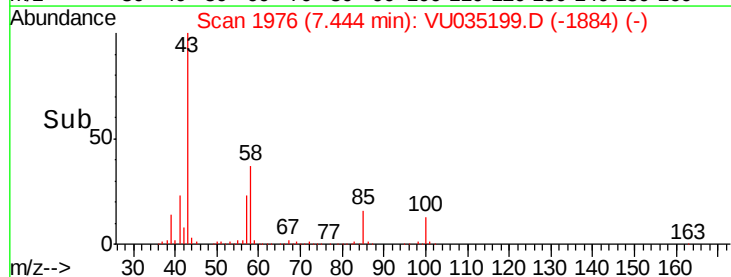
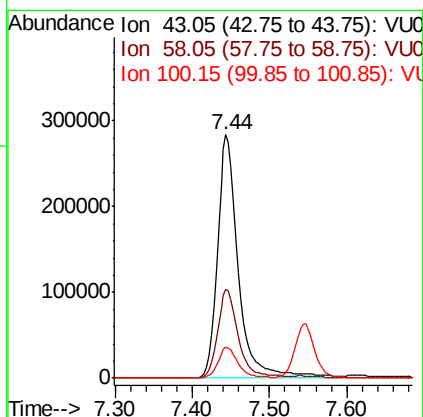
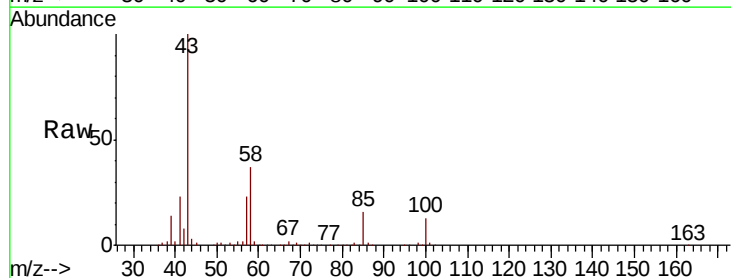
Instrument :
 MSVOA_U
 ClientSampled :

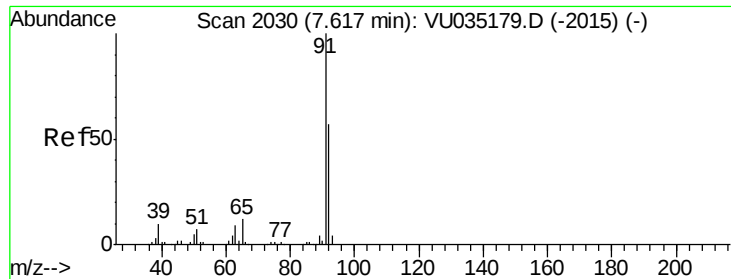
Tot Ion: 75 Resp: 110025
 Ion Ratio Lower Upper
 75 100
 77 30.6 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 55.777 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VU035199.D
 Acq: 15 Oct 2019 19:53

Tgt Ion: 43 Resp: 539556
 Ion Ratio Lower Upper
 43 100
 58 36.1 32.4 48.6
 100 12.4 11.9 17.9





#42

Toluene

Concen: 5.720 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

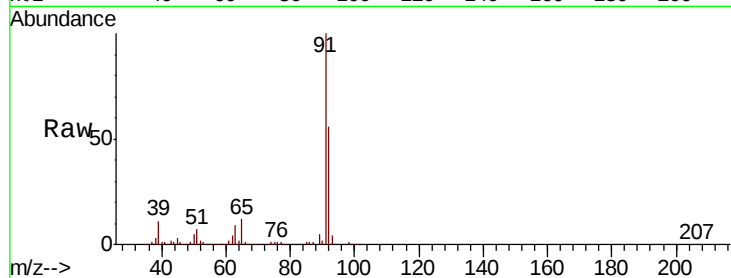
ClientSampleId :

Tot Ion: 91 Resp: 340187

Ion Ratio Lower Upper

91 100

92 56.4 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU035179.D (-2015) (-)

Ion 92.15 (91.85 to 92.85): VU035179.D (-2015) (-)

7.62

200000

150000

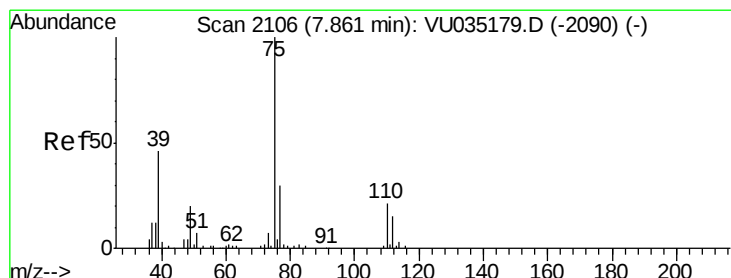
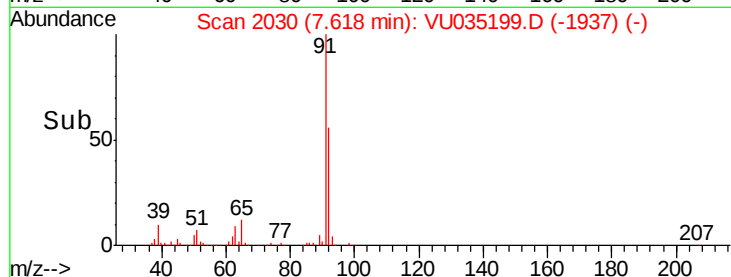
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.634 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU035199.D

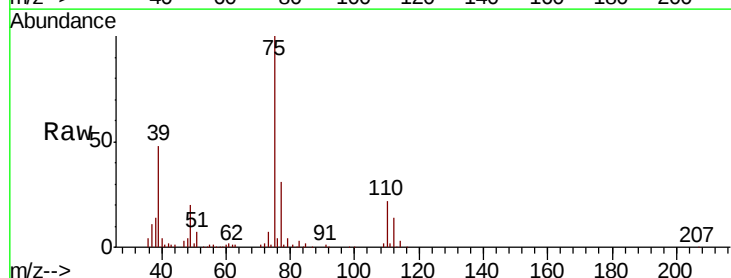
Acq: 15 Oct 2019 19:53

Tgt Ion: 75 Resp: 90861

Ion Ratio Lower Upper

75 100

77 31.1 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU035179.D (-2090) (-)

Ion 77.05 (76.75 to 77.75): VU035179.D (-2090) (-)

7.86

50000

40000

30000

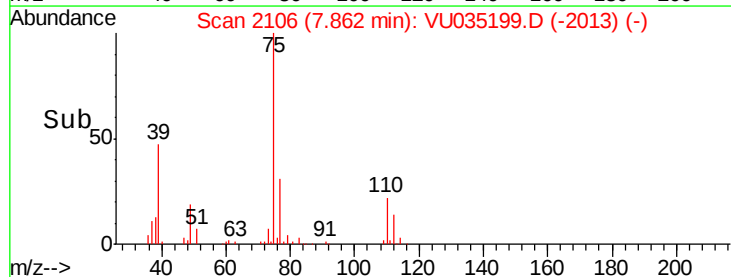
20000

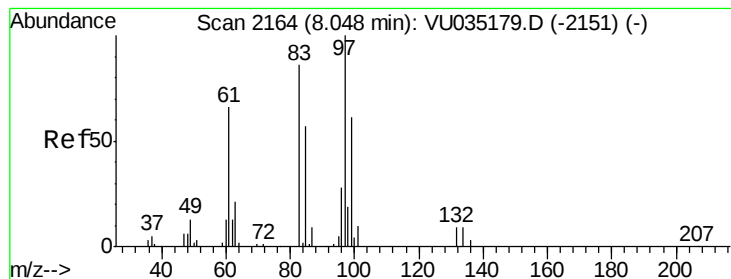
10000

0

7.80 7.90 8.00

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.750 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 58678

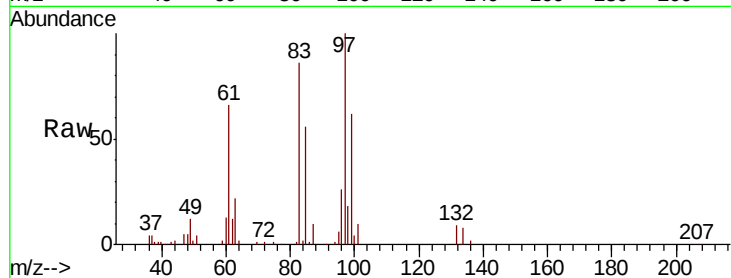
Ion Ratio Lower Upper

97 100

99 61.5 42.3 78.5

83 86.0 58.0 107.6

85 56.3 37.8 70.2



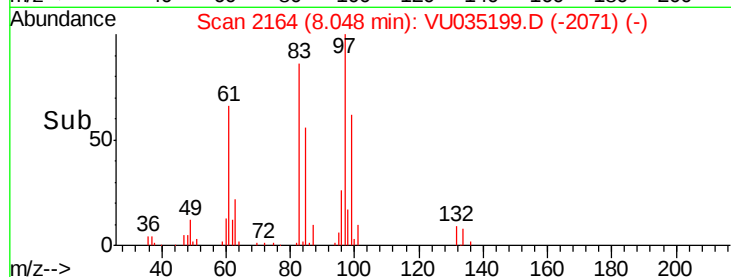
Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

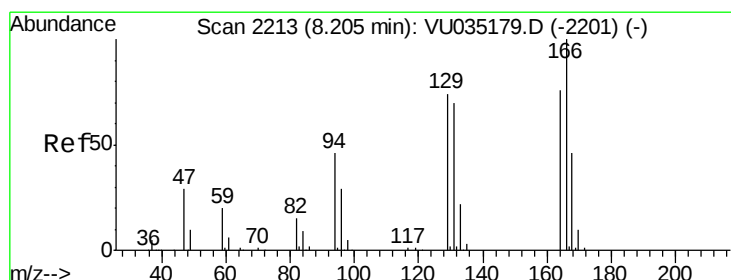
Time-->



Abundance

8.05

Time-->



#47

Tetrachloroethene

Concen: 5.102 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Tgt Ion: 164 Resp: 60690

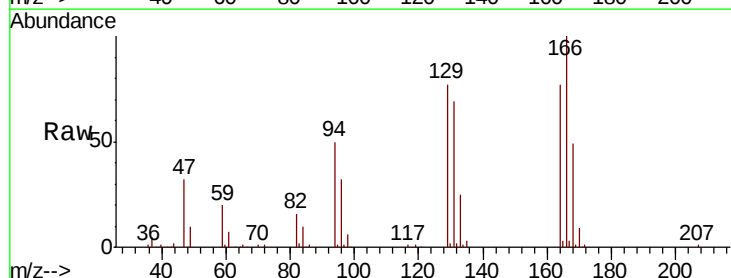
Ion Ratio Lower Upper

164 100

129 100.0 68.5 127.1

131 89.8 67.3 124.9

166 130.3 93.1 172.9



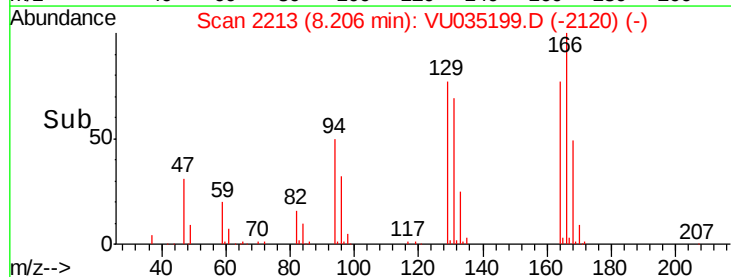
Abundance Ion 163.90 (163.60 to 164.60): V

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

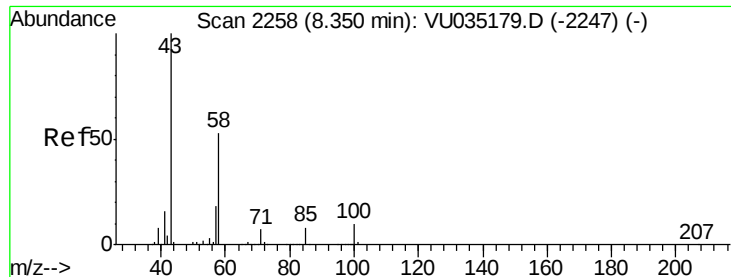
Time-->



Abundance

8.21

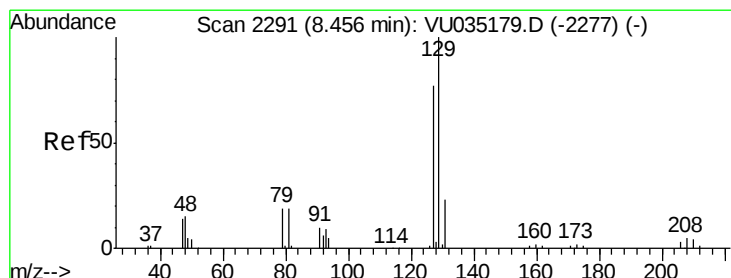
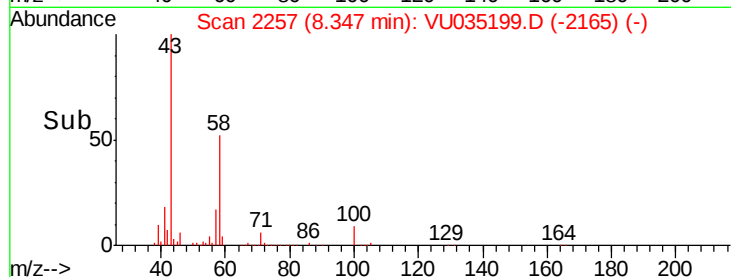
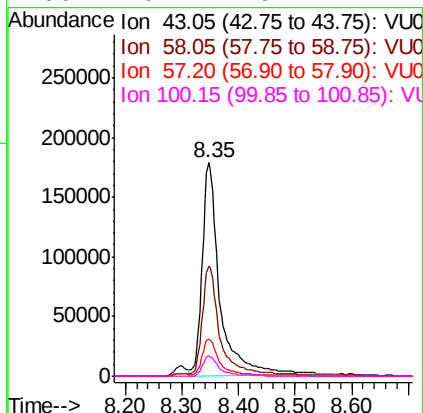
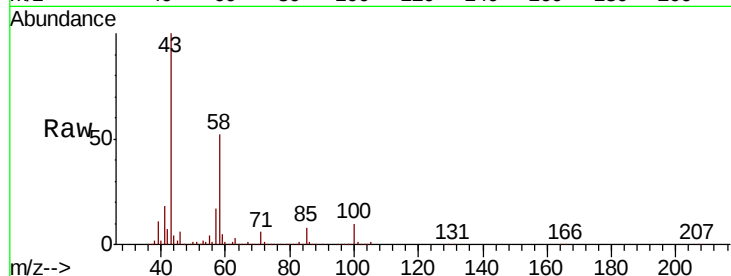
Time-->



#48
2-Hexanone
Concen: 58.669 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. -0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

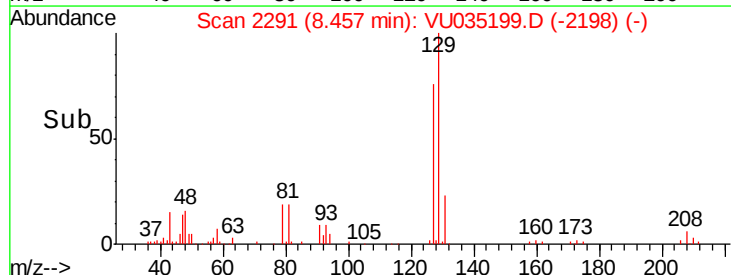
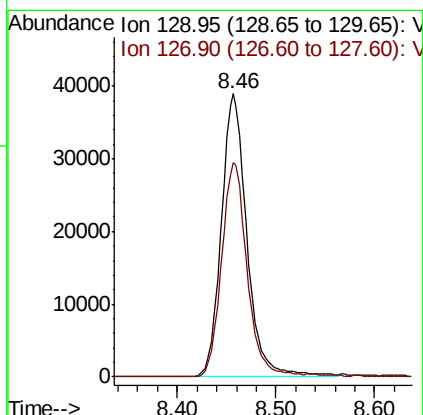
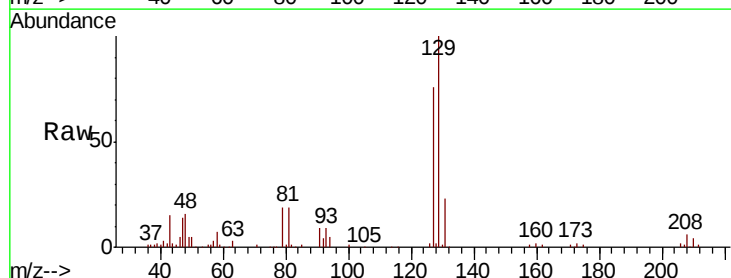
Instrument :
MSVOA_U
ClientSampled :

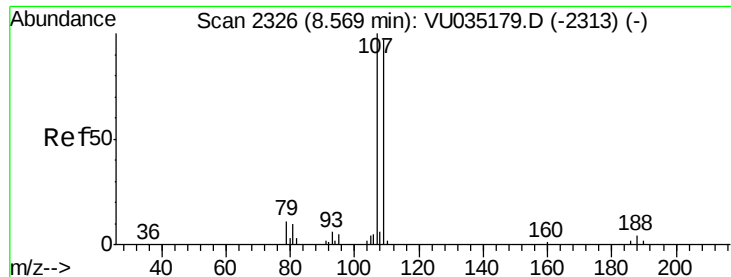
Tot Ion: 43 Resp: 389120
Ion Ratio Lower Upper
43 100
58 49.5 44.1 66.1
57 16.3 15.8 23.8
100 9.1 9.4 14.2#



#49
Dibromochloromethane
Concen: 6.023 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Tgt Ion: 129 Resp: 71041
Ion Ratio Lower Upper
129 100
127 75.8 51.9 96.5

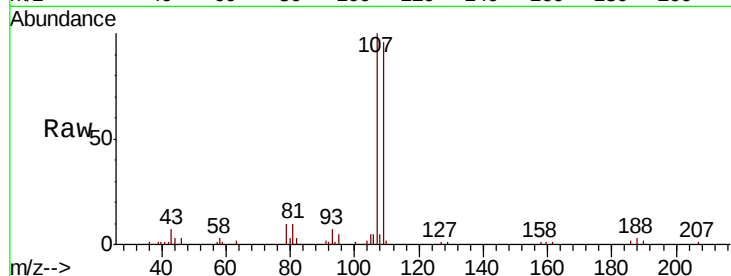




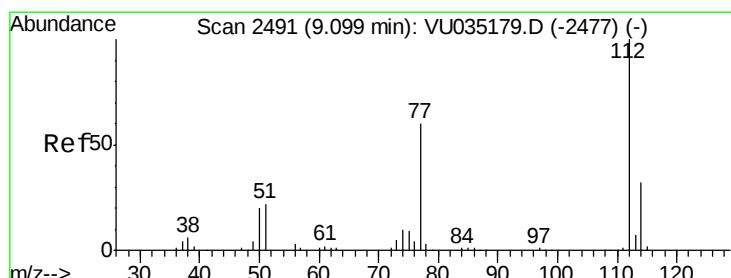
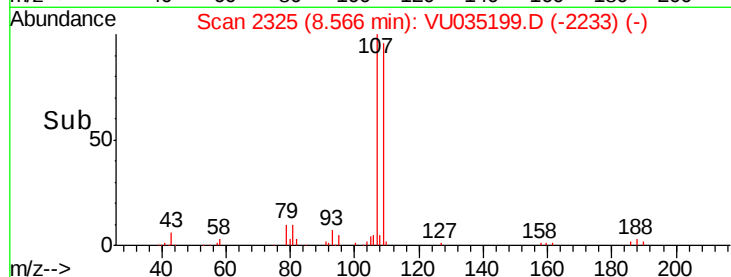
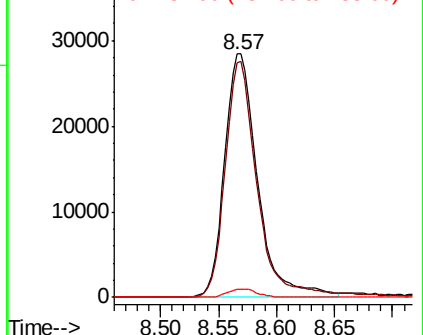
#50
1,2-Dibromoethane
Concen: 5.731 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:107 Resp: 55900
Ion Ratio Lower Upper
107 100
109 96.5 64.8 120.4
188 3.3 3.0 4.6

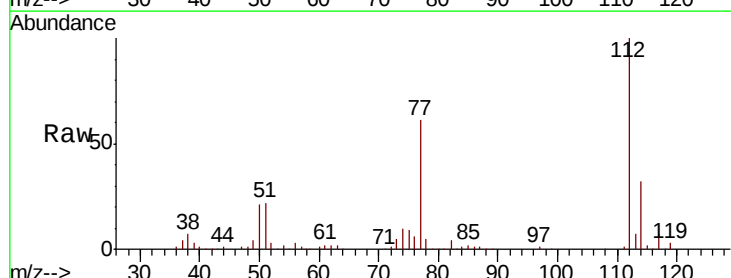


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

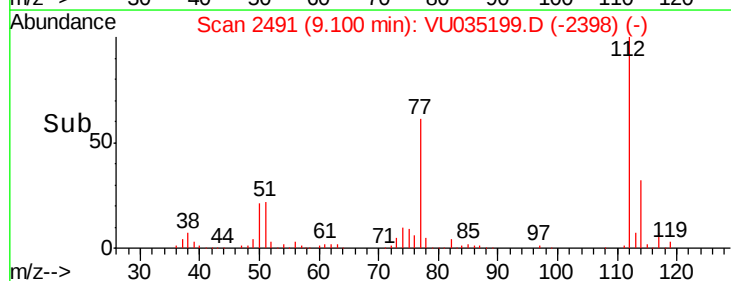
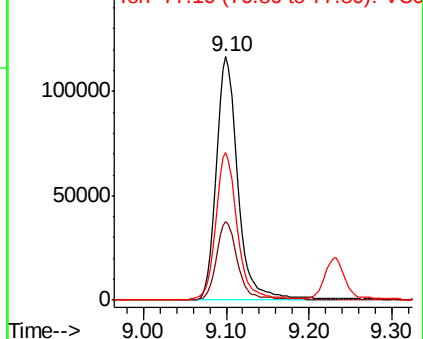


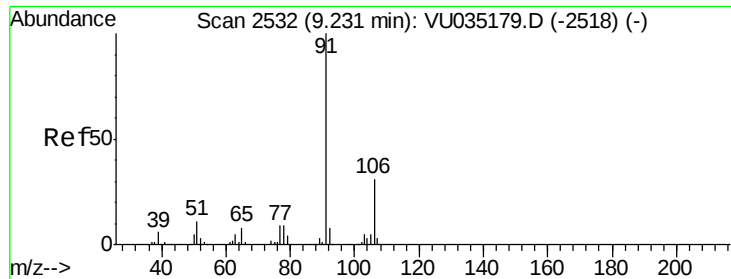
#51
Chlorobenzene
Concen: 5.458 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Tgt Ion:112 Resp: 210361
Ion Ratio Lower Upper
112 100
114 32.3 22.1 41.1
77 60.6 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





#52

Ethylbenzene

Concen: 5.300 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

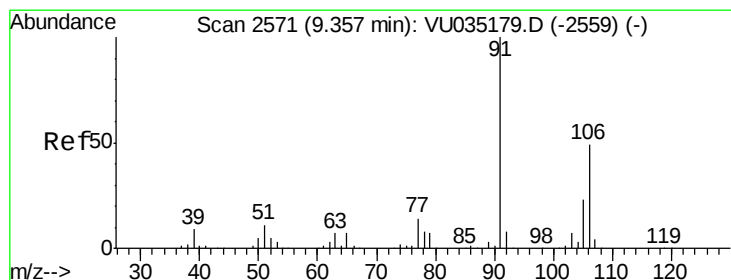
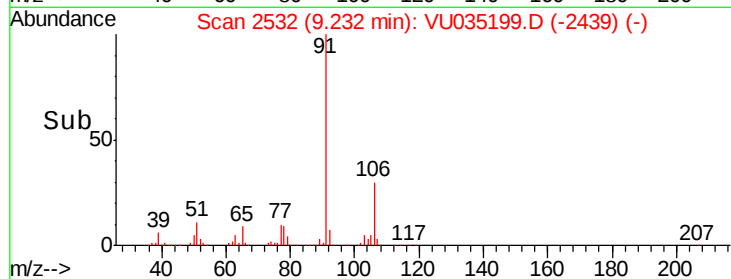
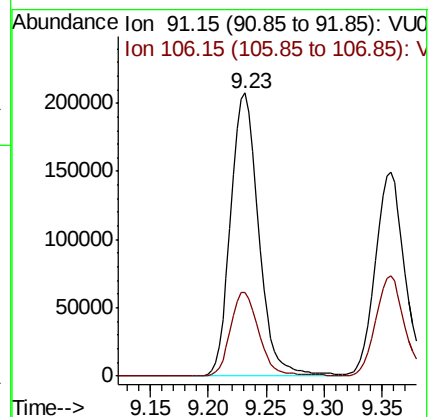
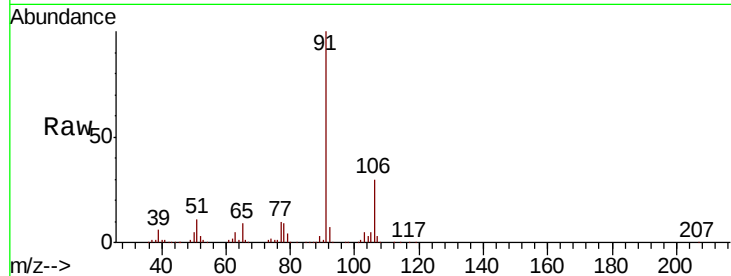
ClientSampleId :

Tot Ion: 91 Resp: 348182

Ion Ratio Lower Upper

91 100

106 29.6 21.6 40.2



#53

m,p-Xylene

Concen: 5.344 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU035199.D

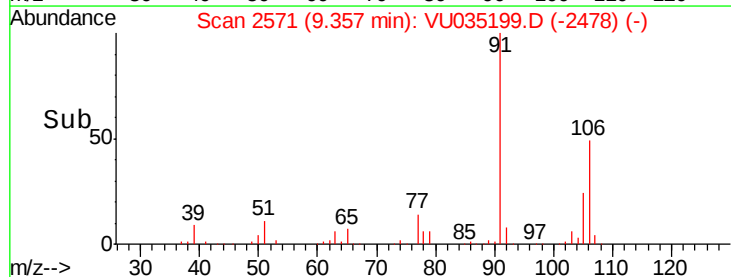
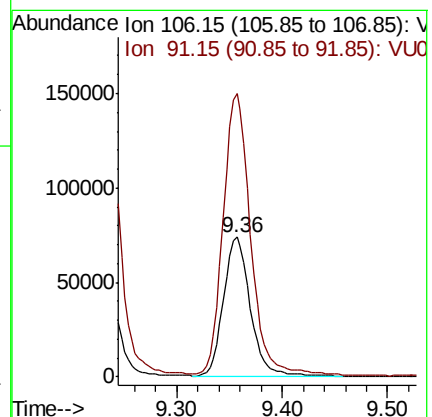
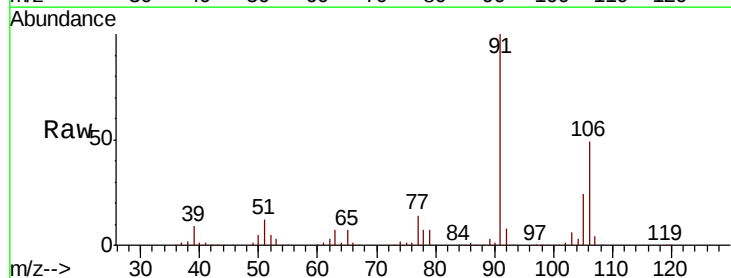
Acq: 15 Oct 2019 19:53

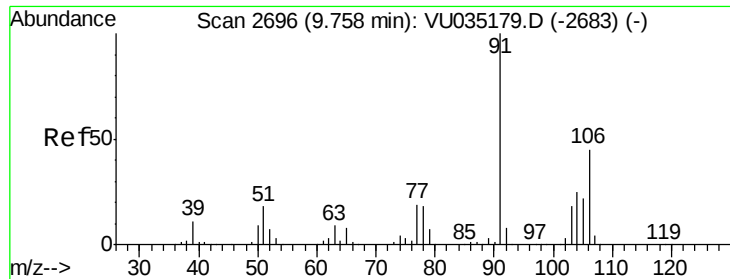
Tgt Ion: 106 Resp: 129660

Ion Ratio Lower Upper

106 100

91 202.4 147.6 274.0

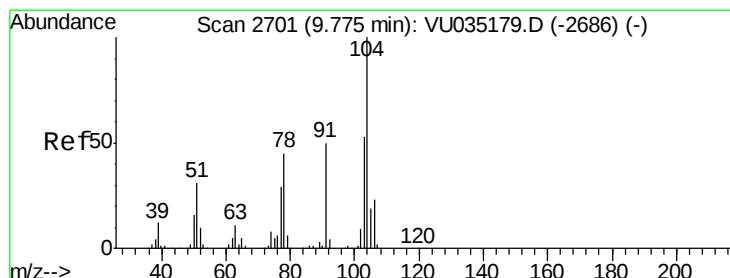
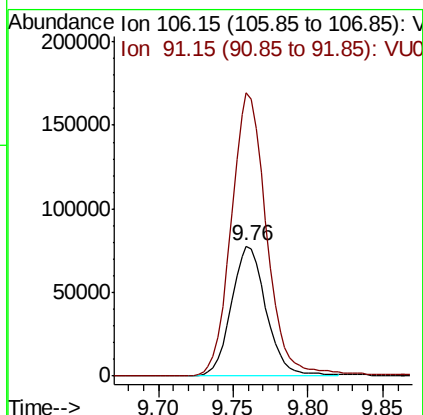
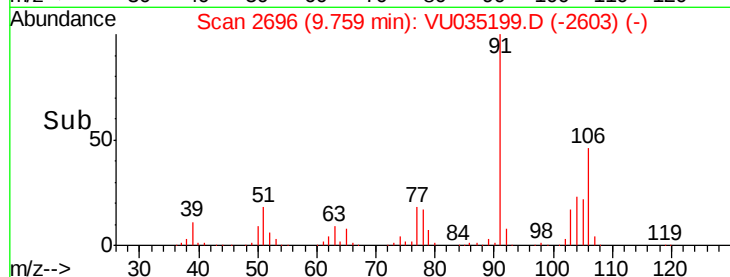
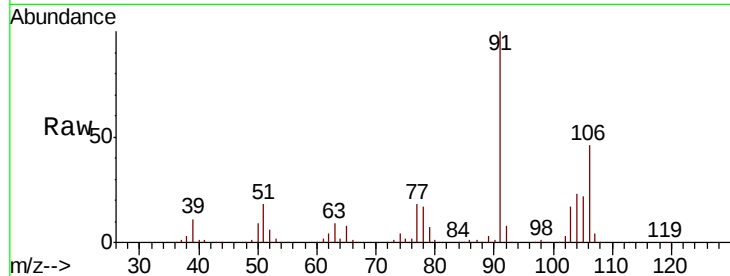




#54
o-Xylene
Concen: 5.323 ug/L
RT: 9.76 min Scan# 2696
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

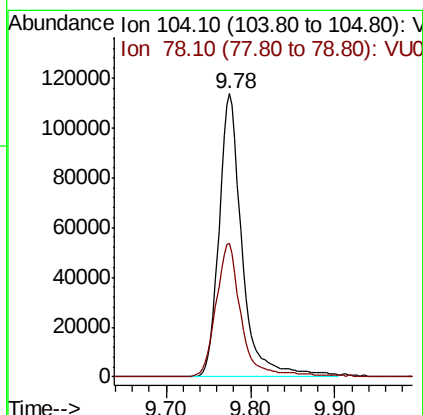
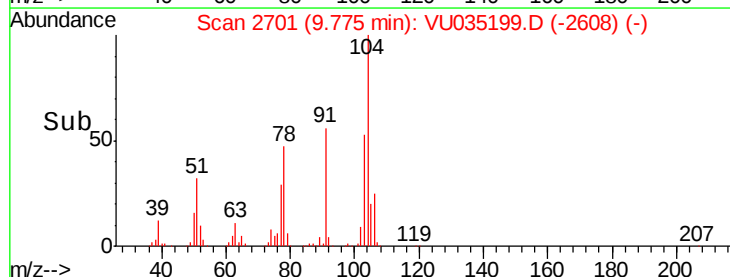
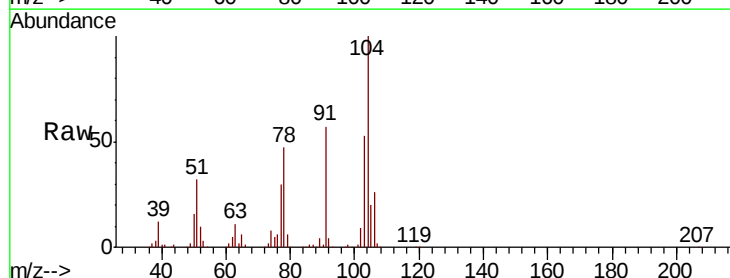
Instrument :
MSVOA_U
ClientSampled :

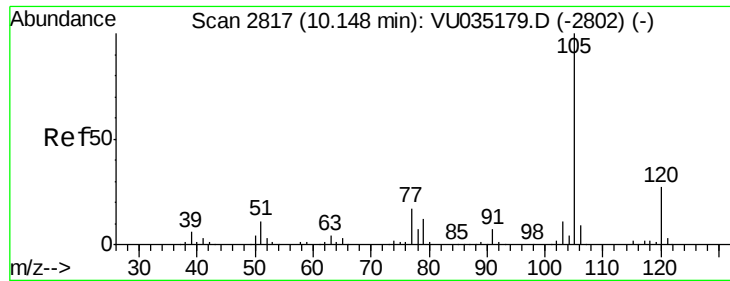
Tot Ion:106 Resp: 126319
Ion Ratio Lower Upper
106 100
91 217.9 148.5 275.7



#55
Styrene
Concen: 5.652 ug/L
RT: 9.78 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Tgt Ion:104 Resp: 217198
Ion Ratio Lower Upper
104 100
78 47.2 32.8 60.8





#56

Isopropylbenzene

Concen: 5.303 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

ClientSampled :

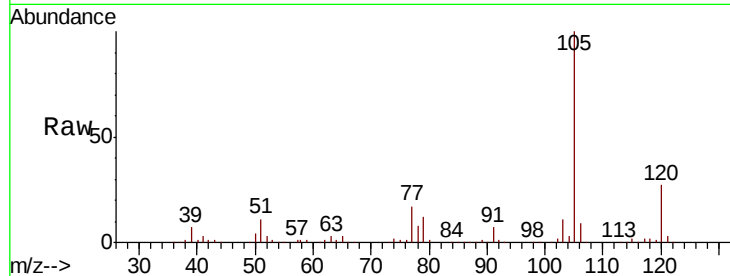
Tot Ion:105 Resp: 335282

Ion Ratio Lower Upper

105 100

120 26.0 21.3 31.9

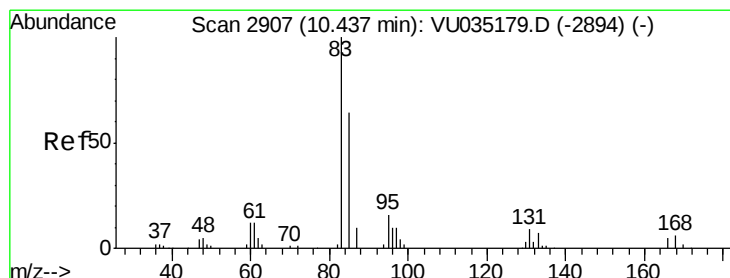
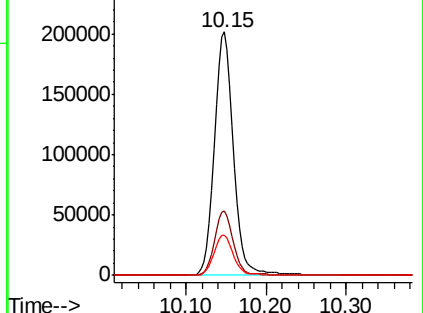
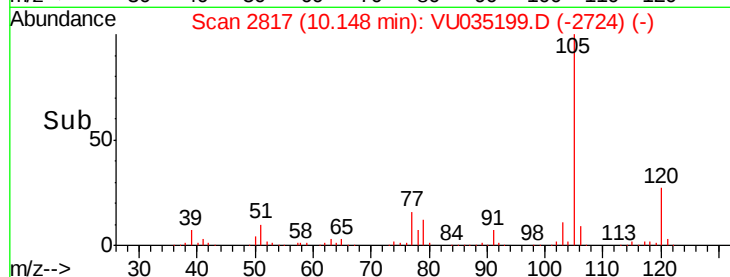
77 17.0 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.840 ug/L

RT: 10.44 min Scan# 2907

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

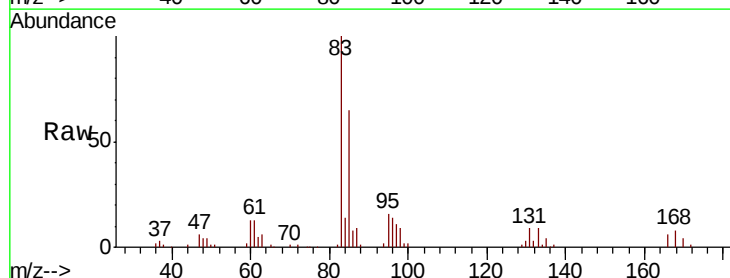
Tgt Ion: 83 Resp: 81045

Ion Ratio Lower Upper

83 100

85 64.9 44.6 82.8

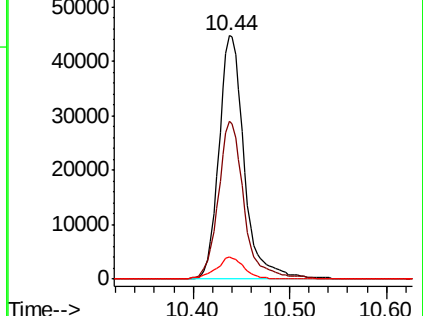
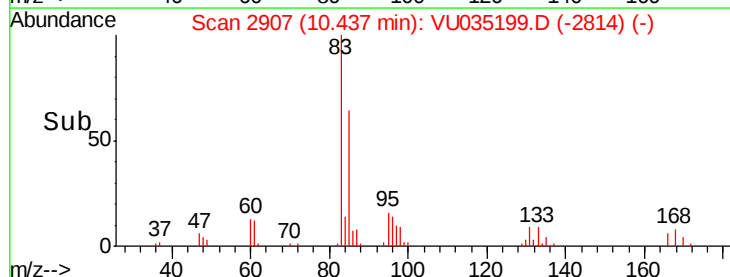
131 9.0 7.4 11.2

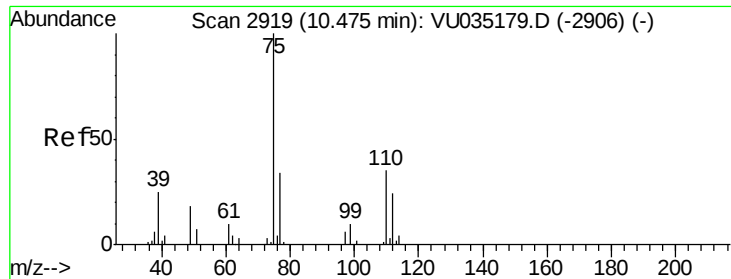


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

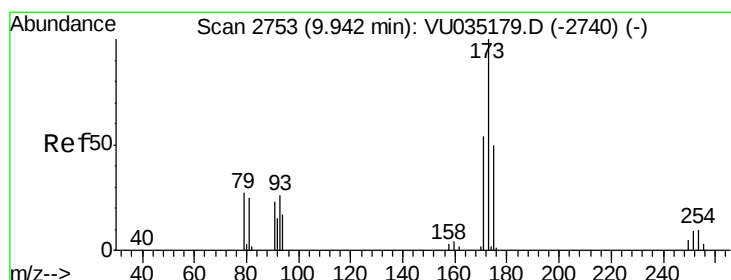
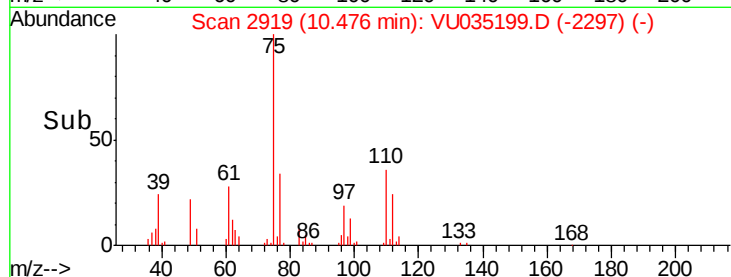
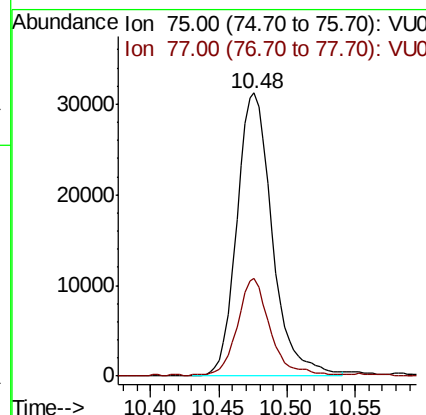
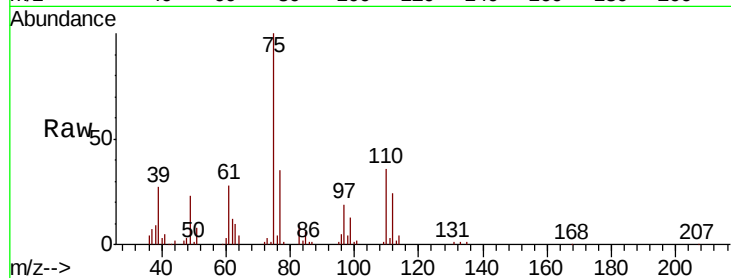




#59
1,2,3-Trichloropropane
Concen: 5.655 ug/L
RT: 10.48 min Scan# 2919
Delta R.T. 0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

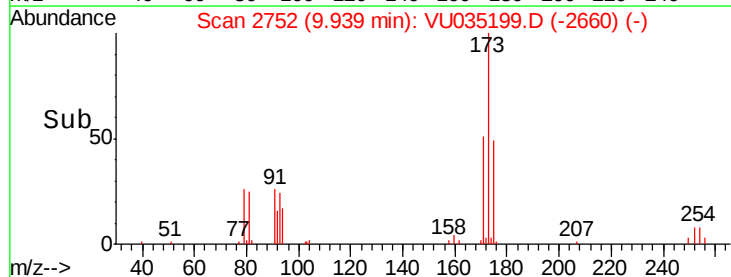
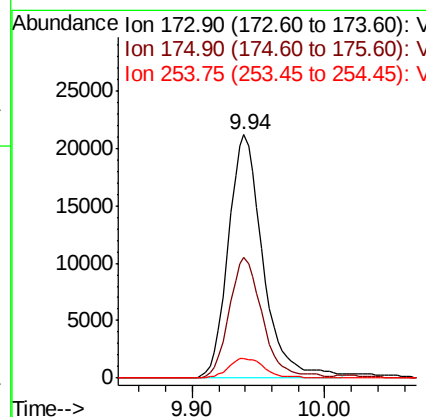
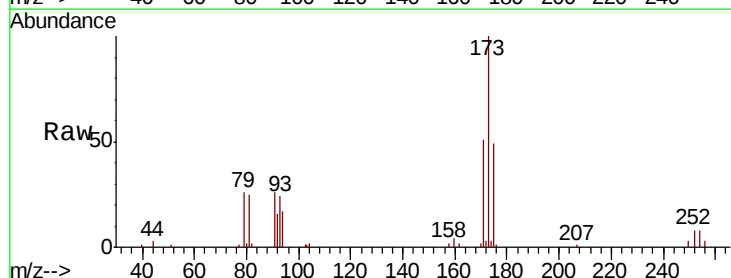
Instrument :
MSVOA_U
ClientSampleId :

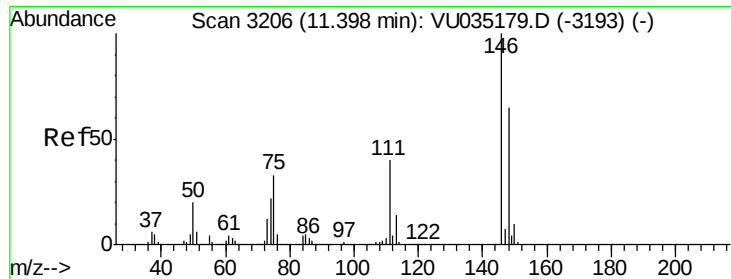
Tot Ion: 75 Resp: 56263
Ion Ratio Lower Upper
75 100
77 31.0 26.5 39.7



#61
Bromoform
Concen: 6.063 ug/L
RT: 9.94 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VU035199.D
Acq: 15 Oct 2019 19:53

Tgt Ion: 173 Resp: 38456
Ion Ratio Lower Upper
173 100
175 47.6 37.2 55.8
254 8.4 6.6 9.8

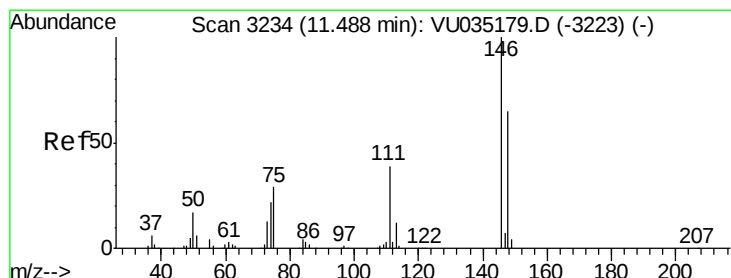
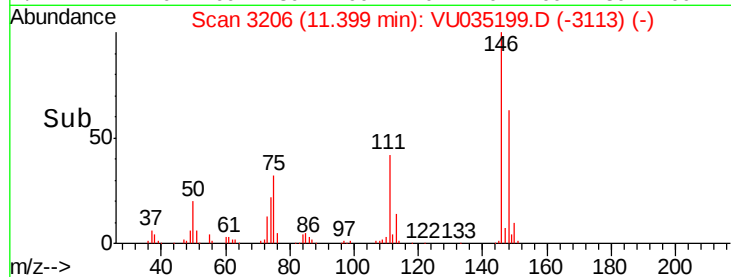
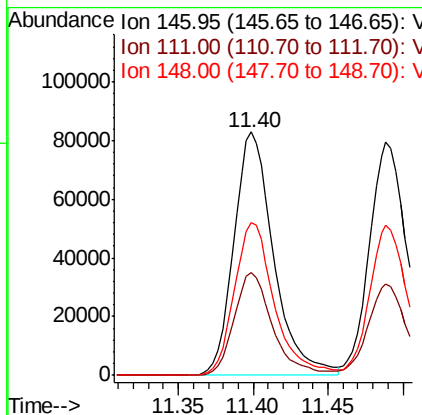
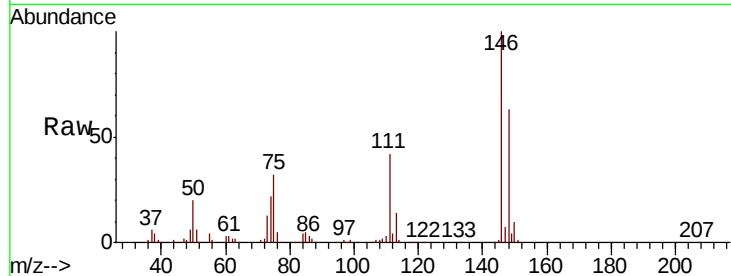




#62
 1,3-Dichlorobenzene
 Concen: 5.394 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU035199.D
 Acq: 15 Oct 2019 19:53

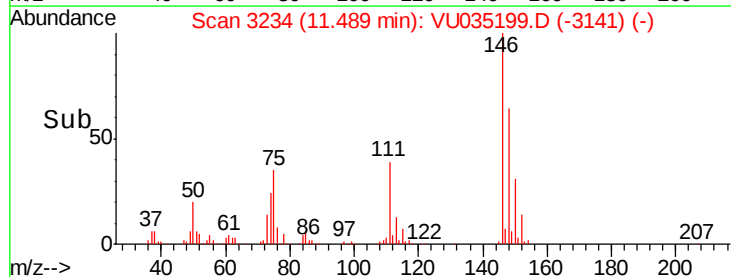
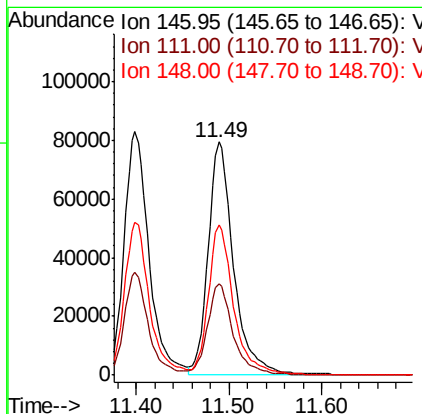
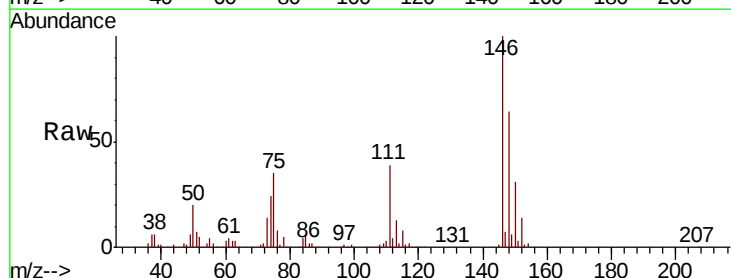
Instrument :
 MSVOA_U
 ClientSampled :

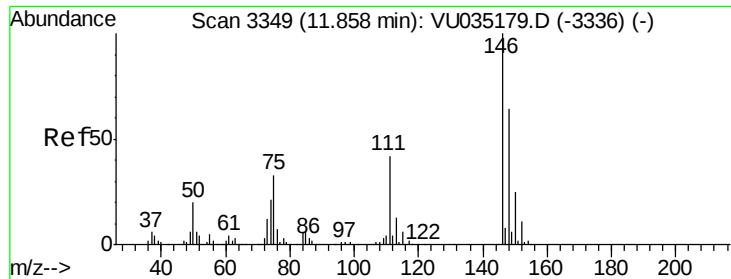
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	28.6	53.2
148	63.0	45.0	83.6



#63
 1,4-Dichlorobenzene
 Concen: 5.213 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU035199.D
 Acq: 15 Oct 2019 19:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.3	27.9	51.7
148	64.5	44.1	81.9





#65

1,2-Dichlorobenzene

Concen: 5.388 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

ClientSampleId :

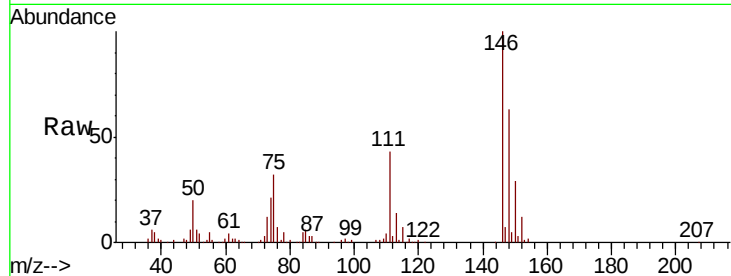
Tot Ion:146 Resp: 148102

Ion Ratio Lower Upper

146 100

111 42.8 34.2 51.4

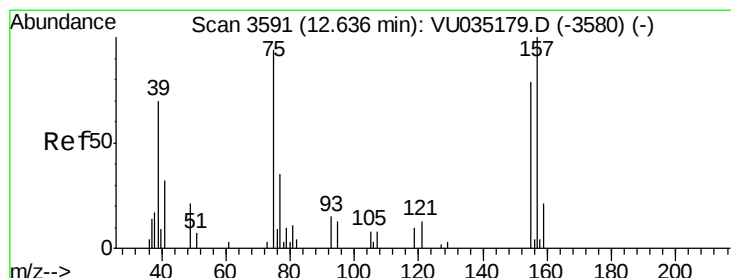
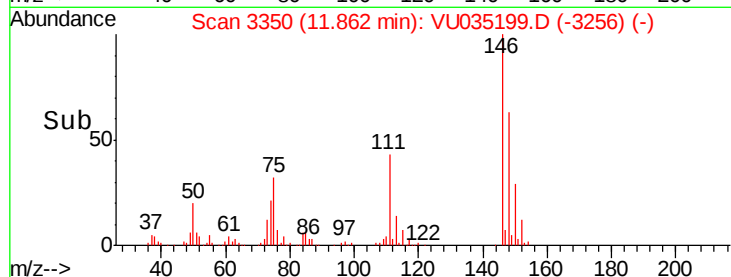
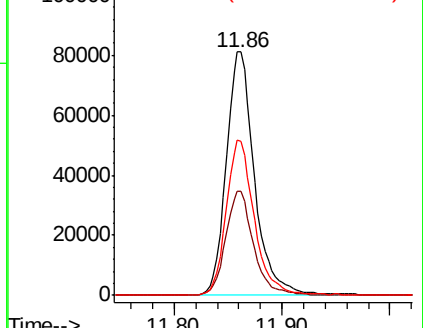
148 63.4 52.0 78.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 5.620 ug/L

RT: 12.64 min Scan# 3592

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

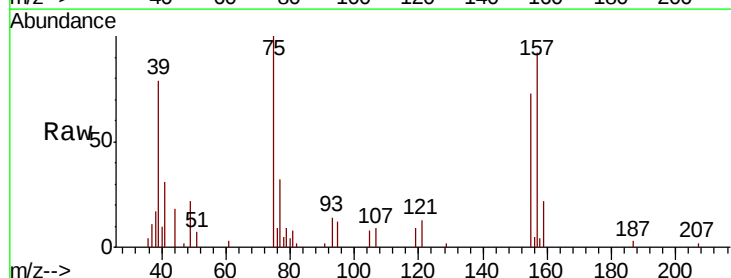
Tgt Ion: 75 Resp: 9818

Ion Ratio Lower Upper

75 100

155 73.5 67.1 100.7

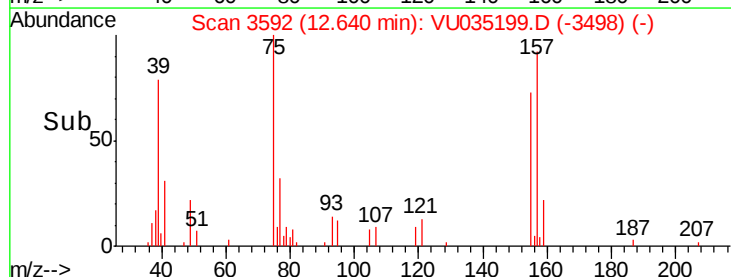
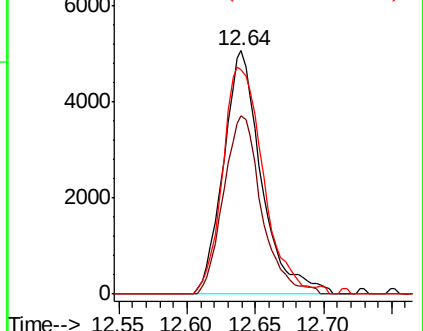
157 92.2 83.7 125.5

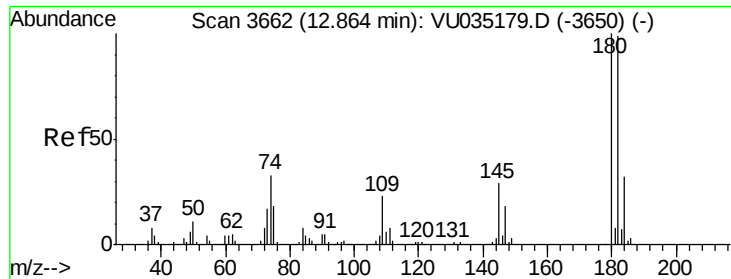


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

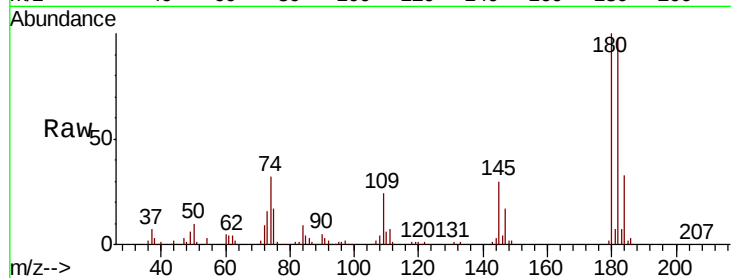




#67
 1,3,5-Trichlorobenzene
 Concen: 4.417 ug/L
 RT: 12.87 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VU035199.D
 Acq: 15 Oct 2019 19:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.0	114.0
184	32.0	24.2	36.2
145	28.8	24.6	37.0



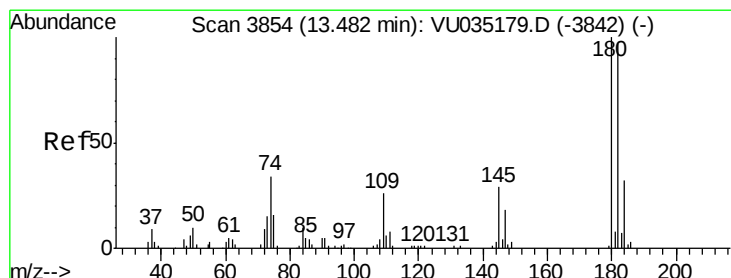
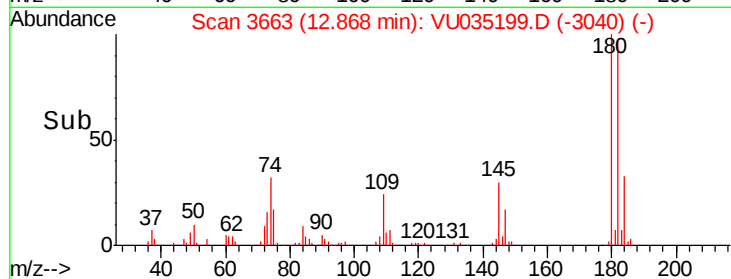
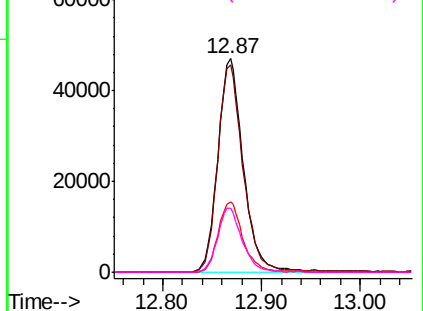
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

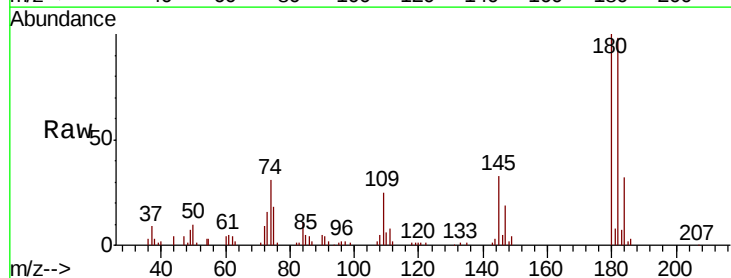
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 3.660 ug/L
 RT: 13.49 min Scan# 3855
 Delta R.T. 0.00 min
 Lab File: VU035199.D
 Acq: 15 Oct 2019 19:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	77.3	115.9
145	30.6	24.5	36.7

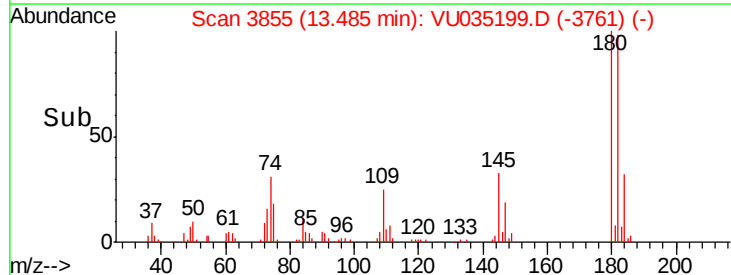
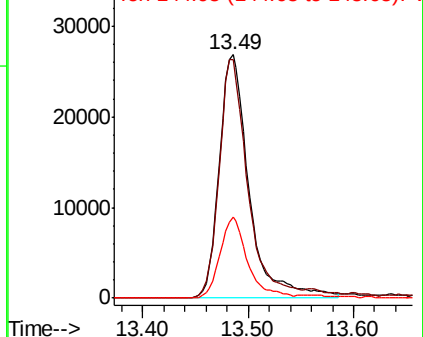


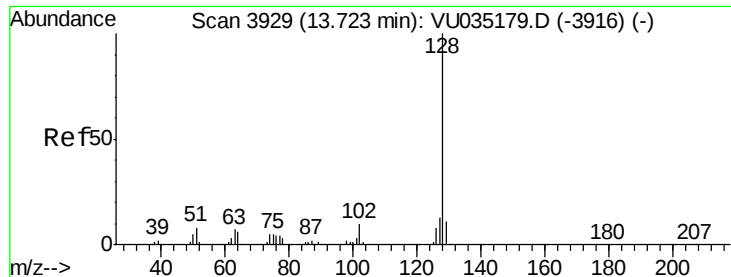
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 2.983 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

Instrument :

MSVOA_U

ClientSampleId :

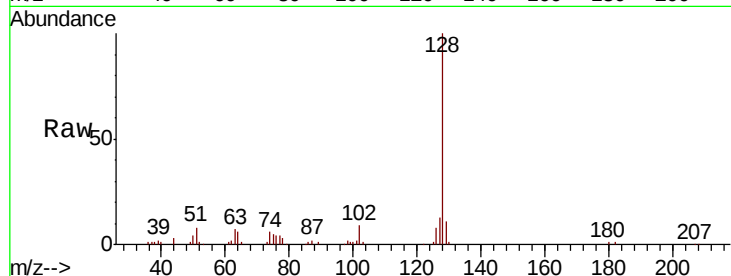
Tot Ion:128 Resp: 66828

Ion Ratio Lower Upper

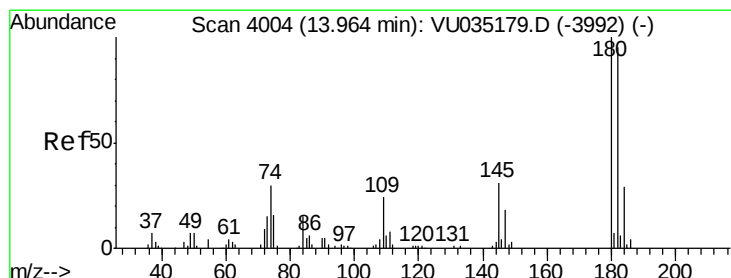
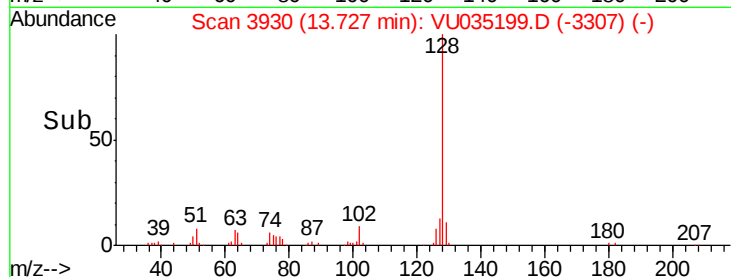
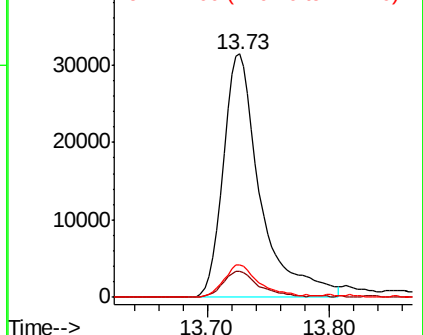
128 100

129 10.5 8.7 13.1

127 13.0 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3.974 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU035199.D

Acq: 15 Oct 2019 19:53

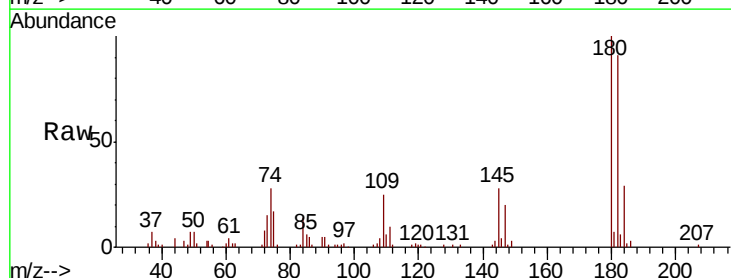
Tgt Ion:180 Resp: 55677

Ion Ratio Lower Upper

180 100

182 94.2 77.0 115.4

145 29.9 25.9 38.9



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

