

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU033120\
 Data File : VU037499.D
 Acq On : 31 Mar 2020 14:19
 Operator : JC/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 01 01:24:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR033120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Mar 31 14:17:24 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	92315	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	86191	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	41635	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	32923	4.91	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.20%
7) Chloroethane-d5	1.93	69	27864	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.20%
11) 1,1-Dichloroethene-d2	2.59	63	64395	4.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.80%
20) 2-Butanone-d5	4.68	46	102367	49.29	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.58%
24) Chloroform-d	5.11	84	63846	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.20%
26) 1,2-Dichloroethane-d4	5.74	65	35251	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
32) Benzene-d6	5.76	84	122877	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.40%
36) 1,2-Dichloropropane-d6	6.72	67	41630	5.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.80%
41) Toluene-d8	7.92	98	112695	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
43) trans-1,3-Dichloropropene-	8.20	79	17828	4.83	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.60%
46) 2-Hexanone-d5	8.66	63	85747	50.16	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.32%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	33744	4.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.00%
64) 1,2-Dichlorobenzene-d4	12.21	152	39411	4.89	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	33549	4.805	ug/L 99
3) Chloromethane	1.53	50	34674	4.950	ug/L 98
5) Vinyl chloride	1.62	62	36597	4.843	ug/L 100
6) Bromomethane	1.87	94	19196	4.994	ug/L 98
8) Chloroethane	1.95	64	20991	4.846	ug/L 96
9) Trichlorofluoromethane	2.16	101	49548	4.712	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	29249	4.809	ug/L 98
12) 1,1-Dichloroethene	2.60	96	29168	4.714	ug/L 83
13) Acetone	2.68	43	57069	48.552	ug/L 99
14) Carbon disulfide	2.82	76	98195	4.767	ug/L 100
15) Methyl Acetate	2.99	43	15462	4.830	ug/L 100
16) Methylene chloride	3.08	84	32755	4.743	ug/L 97
17) Methyl tert-butyl Ether	3.41	73	83015	4.858	ug/L 96
18) trans-1,2-Dichloroethene	3.39	96	31375	4.853	ug/L 98
19) 1,1-Dichloroethane	3.91	63	58497	4.791	ug/L 98
21) 2-Butanone	4.76	43	101492	49.091	ug/L 97
22) cis-1,2-Dichloroethene	4.71	96	33643	4.679	ug/L 89

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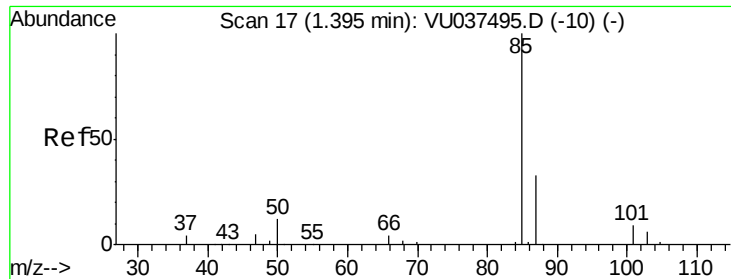
Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 01 01:24:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR033120WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.02	128	14963	5.044	ug/L	97
25) Chloroform	5.13	83	59812	4.841	ug/L	100
27) 1,2-Dichloroethane	5.83	62	40908	4.892	ug/L #	95
29) 1,1,1-Trichloroethane	5.36	97	52791	4.827	ug/L	100
30) Cyclohexane	5.43	56	58041	4.898	ug/L	99
31) Carbon tetrachloride	5.56	117	43789	4.859	ug/L	99
33) Benzene	5.81	78	128974	4.805	ug/L	100
34) Trichloroethene	6.57	95	33916	4.745	ug/L	94
35) Methylcyclohexane	6.79	83	56189	4.800	ug/L	97
37) 1,2-Dichloropropane	6.82	63	35374	4.971	ug/L	99
38) Bromodichloromethane	7.14	83	45159	4.802	ug/L	97
39) cis-1,3-Dichloropropene	7.64	75	54069	4.888	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	253536	47.813	ug/L	99
42) Toluene	8.00	91	138038	4.877	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	47764	4.871	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	24089	4.745	ug/L	95
47) Tetrachloroethene	8.58	164	21705	4.627	ug/L	96
48) 2-Hexanone	8.71	43	186551	48.748	ug/L	99
49) Dibromochloromethane	8.83	129	29908	4.813	ug/L	91
50) 1,2-Dibromoethane	8.95	107	23926	4.745	ug/L	91
51) Chlorobenzene	9.47	112	83617	4.741	ug/L	96
52) Ethylbenzene	9.59	91	155691	4.734	ug/L	100
53) m,p-Xylene	9.71	106	58824	4.811	ug/L	97
54) o-Xylene	10.12	106	56299	4.858	ug/L	98
55) Styrene	10.13	104	98046	4.860	ug/L	99
56) Isopropylbenzene	10.50	105	152546	4.877	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	32795	4.756	ug/L #	98
59) 1,2,3-Trichloropropane	10.84	75	24534	5.014	ug/L	100
61) Bromoform	10.31	173	16544	4.747	ug/L	96
62) 1,3-Dichlorobenzene	11.76	146	65405	4.758	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	64883	4.662	ug/L	96
65) 1,2-Dichlorobenzene	12.23	146	63532	4.910	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	6569	4.873	ug/L	94
67) 1,3,5-Trichlorobenzene	13.24	180	47146	4.901	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	44912	4.829	ug/L	94
69) Naphthalene	14.12	128	105028	4.951	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	40868	4.985	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 4.805 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

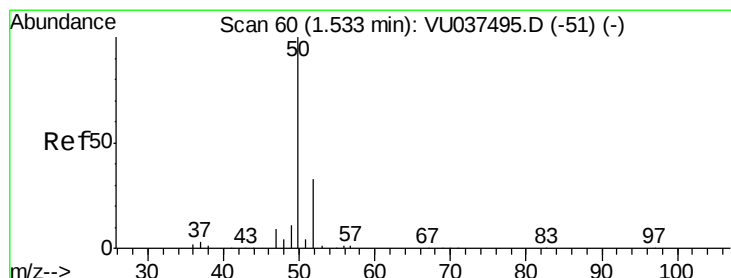
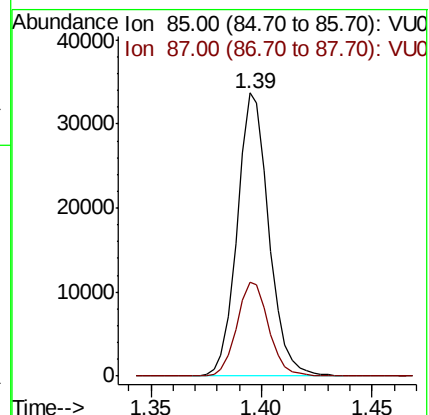
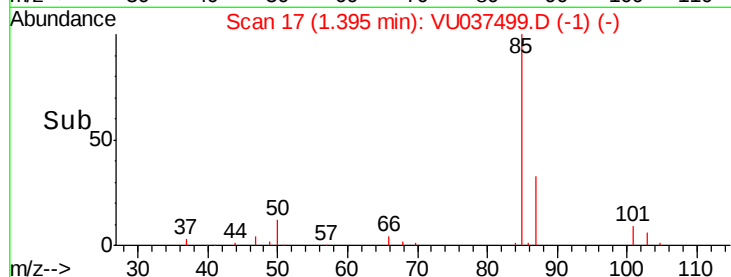
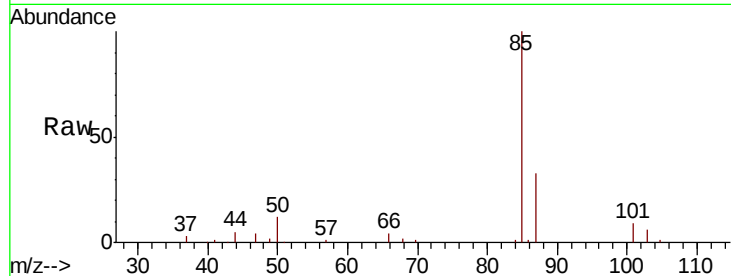
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 33549

Ion Ratio Lower Upper

85 100

87 33.5 26.2 39.2



#3

Chloromethane

Concen: 4.950 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037499.D

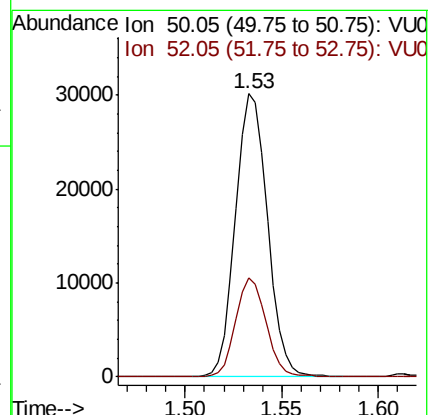
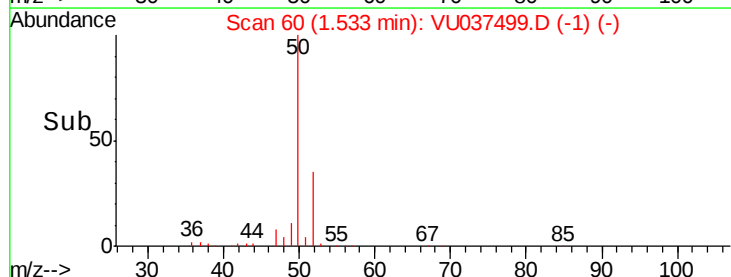
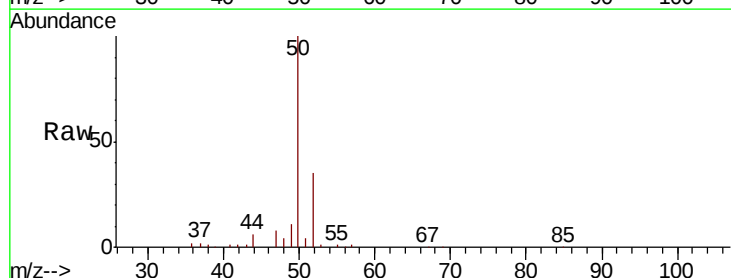
Acq: 31 Mar 2020 14:19

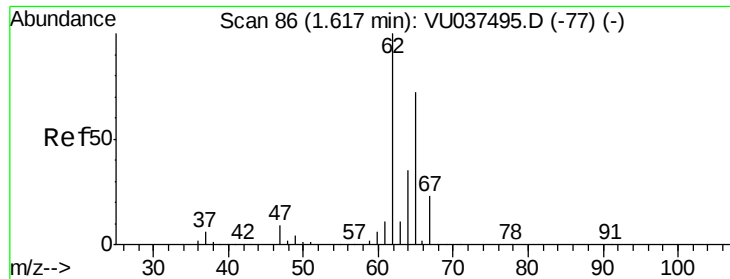
Tgt Ion: 50 Resp: 34674

Ion Ratio Lower Upper

50 100

52 34.8 23.4 43.4





#5

Vinyl chloride

Concen: 4.843 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

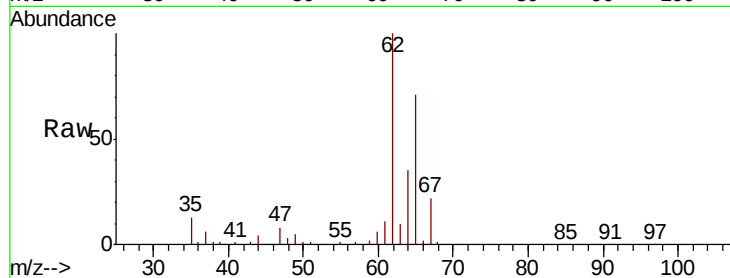
ClientSampleId :

Tot Ion: 62 Resp: 36597

Ion Ratio Lower Upper

62 100

64 35.1 24.8 46.0



Abundance Ion 62.00 (61.70 to 62.70): VU037499.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU037499.D (-77) (-)

1.62

30000

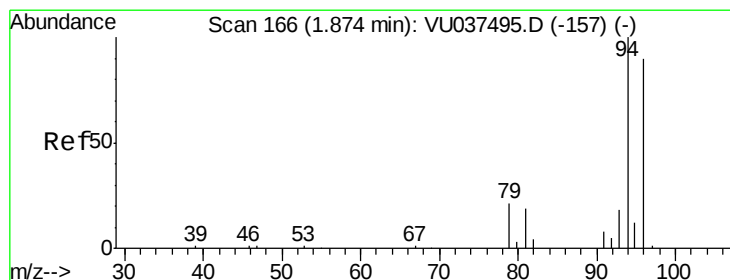
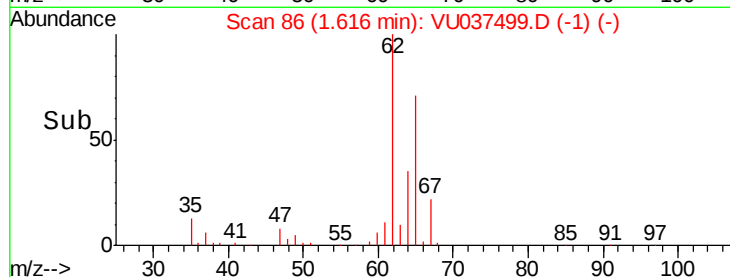
20000

10000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 4.994 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU037499.D

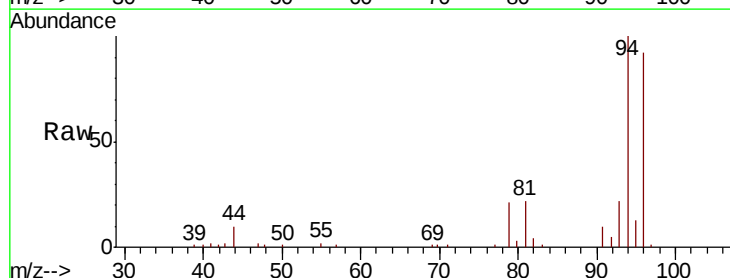
Acq: 31 Mar 2020 14:19

Tgt Ion: 94 Resp: 19196

Ion Ratio Lower Upper

94 100

96 92.3 63.2 117.4



Abundance Ion 94.00 (93.70 to 94.70): VU037499.D (-157) (-)

Ion 96.00 (95.70 to 96.70): VU037499.D (-157) (-)

1.87

15000

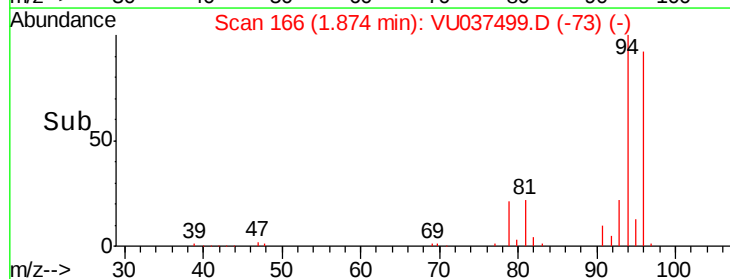
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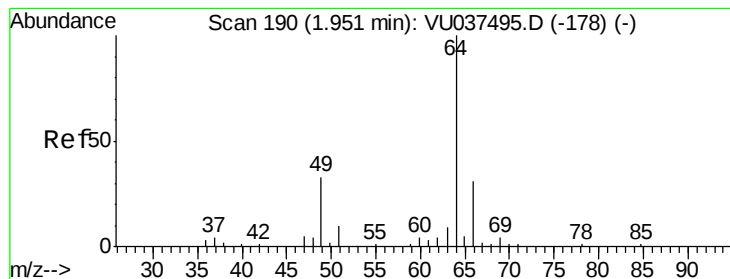
5000

0

1.85 1.90

Time-->





#8

Chloroethane

Concen: 4.846 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

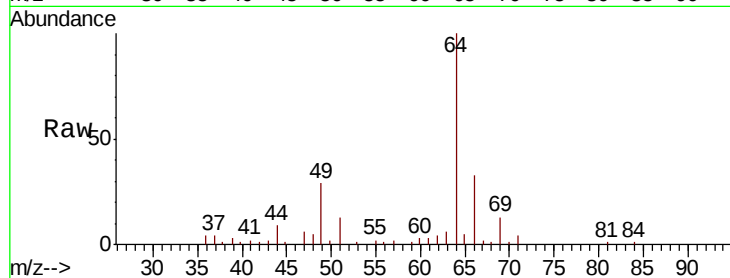
ClientSampleId :

Tot Ion: 64 Resp: 20991

Ion Ratio Lower Upper

64 100

66 33.0 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VU037499.D (-178) (-)

Ion 66.05 (65.75 to 66.75): VU037499.D (-178) (-)

1.95

15000

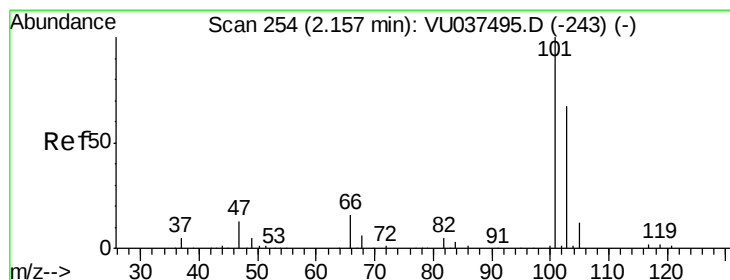
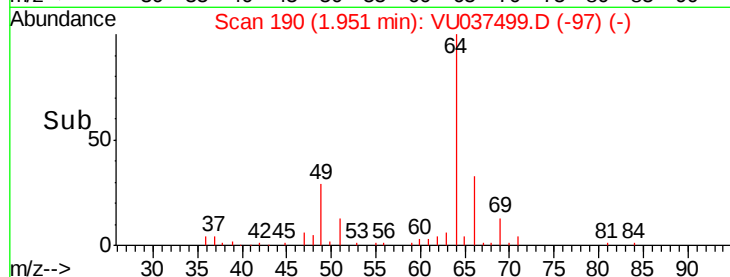
10000

5000

0

Time-->

1.85 1.90 1.95 2.00



#9

Trichlorofluoromethane

Concen: 4.712 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU037499.D

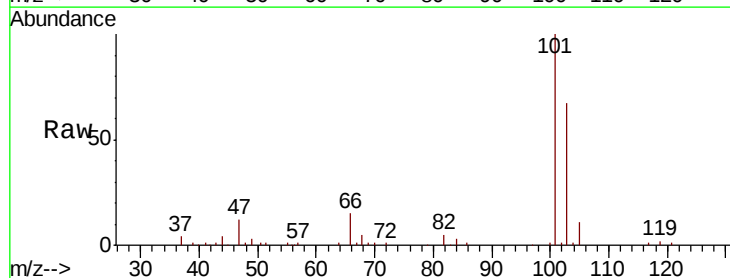
Acq: 31 Mar 2020 14:19

Tgt Ion: 101 Resp: 49548

Ion Ratio Lower Upper

101 100

103 66.1 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VU037499.D (-243) (-)

Ion 103.00 (102.70 to 103.70): VU037499.D (-243) (-)

2.16

40000

30000

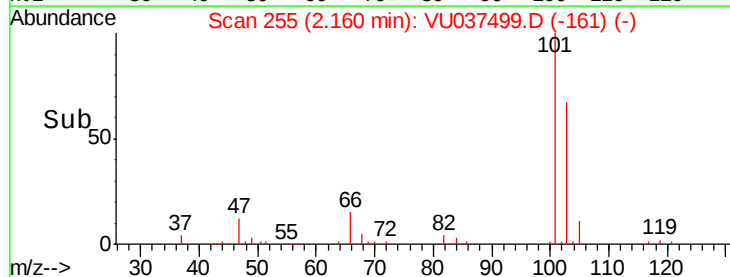
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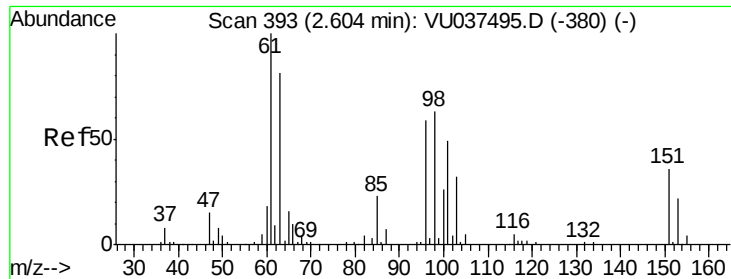
10000

0

Time-->

2.10 2.15 2.20





#10

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

Concen: 4.809 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

ClientSampleId :

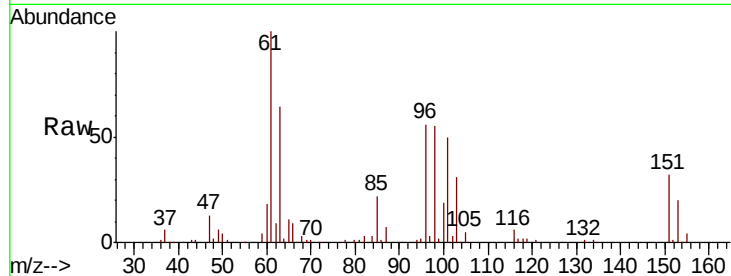
Tot Ion:101 Resp: 29249

Ion Ratio Lower Upper

101 100

85 46.1 36.6 54.8

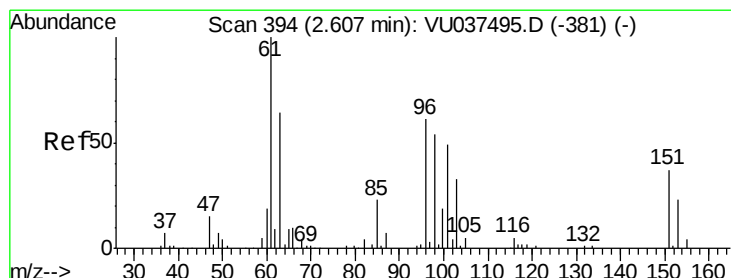
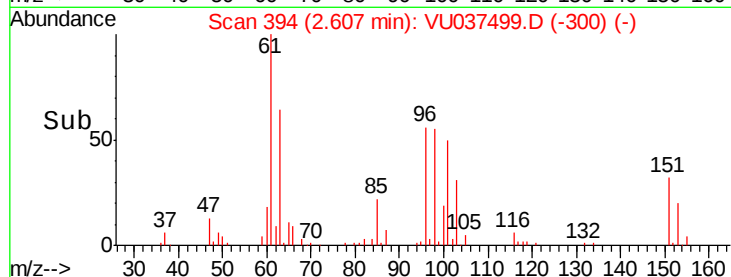
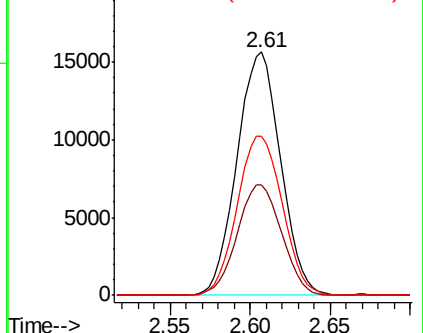
151 67.4 55.9 83.9



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: 4.714 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

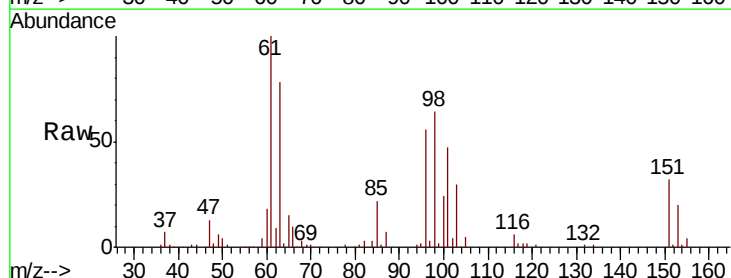
Tgt Ion: 96 Resp: 29168

Ion Ratio Lower Upper

96 100

61 180.1 116.2 215.8

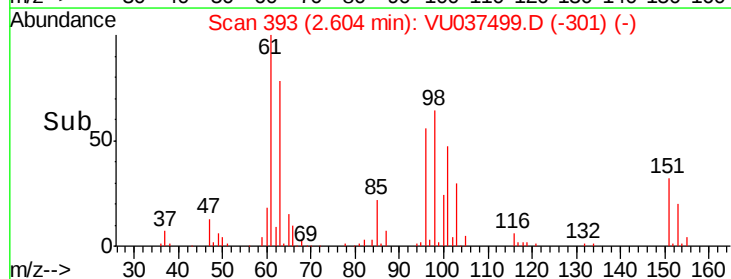
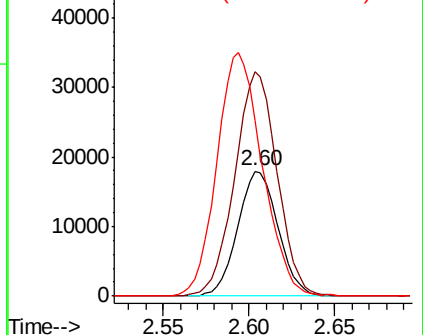
63 140.5 79.2 147.0

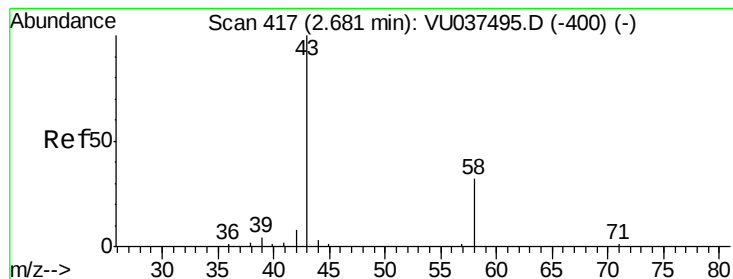


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.552 ug/L

RT: 2.68 min Scan# 417

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

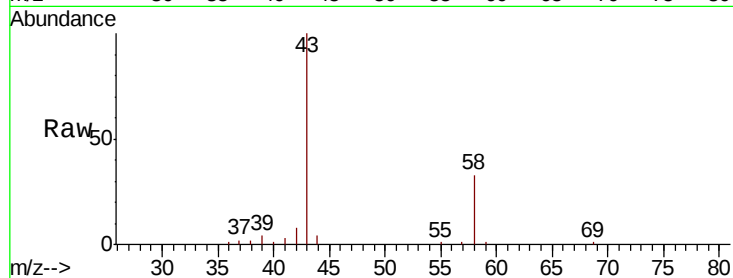
ClientSampleId :

Tot Ion: 43 Resp: 57069

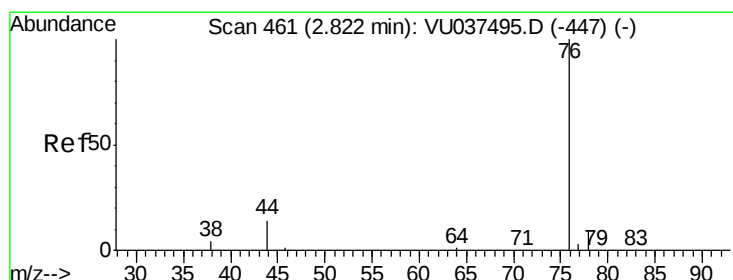
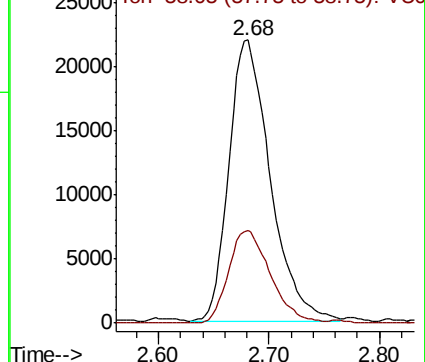
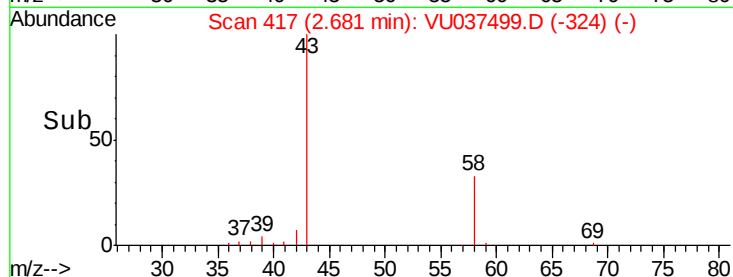
Ion Ratio Lower Upper

43 100

58 33.3 0.0 68.2



Abundance Ion 43.05 (42.75 to 43.75): VU037499.D (-324) (-)



#14

Carbon disulfide

Concen: 4.767 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037499.D

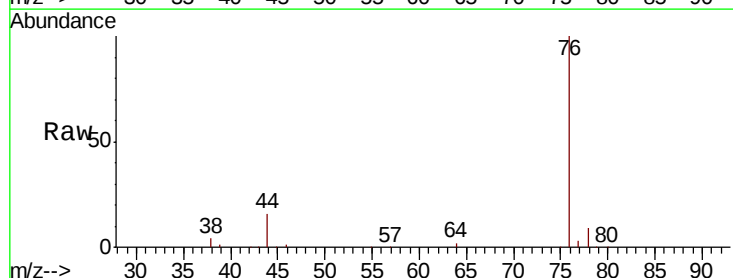
Acq: 31 Mar 2020 14:19

Tgt Ion: 76 Resp: 98195

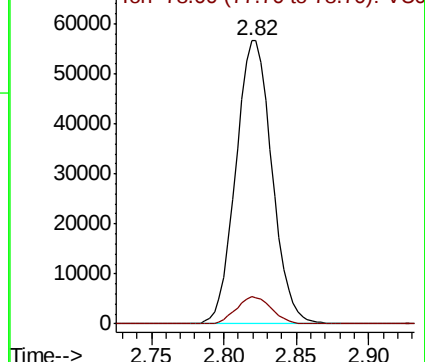
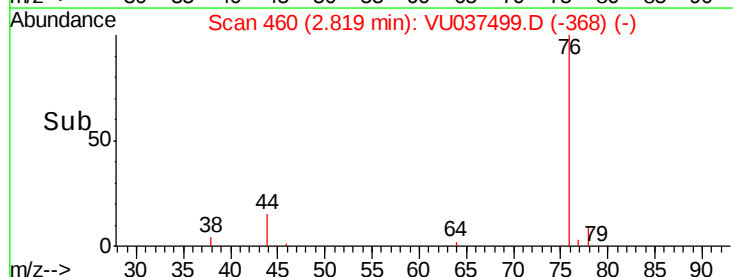
Ion Ratio Lower Upper

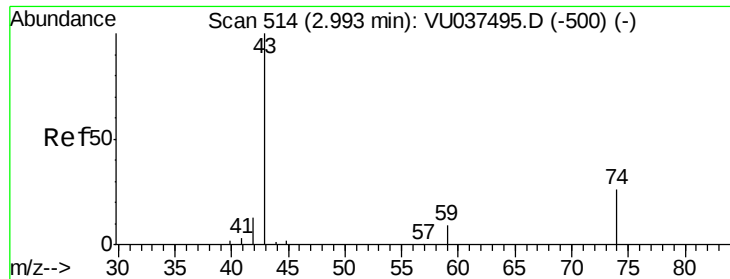
76 100

78 9.5 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU037499.D (-368) (-)





#15

Methvl Acetate

Concen: 4.830 ug/L

RT: 2.99 min Scan# 513

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

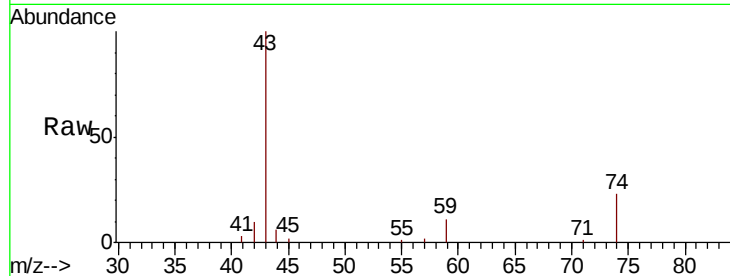
ClientSampled :

Tot Ion: 43 Resp: 15462

Ion Ratio Lower Upper

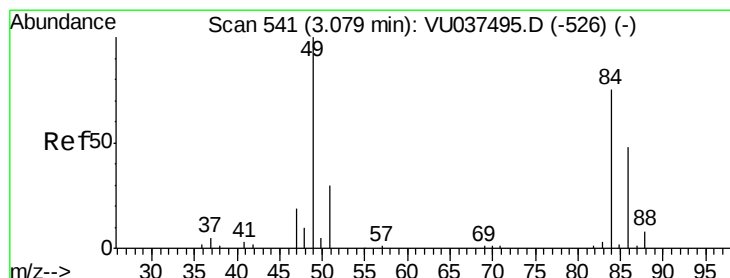
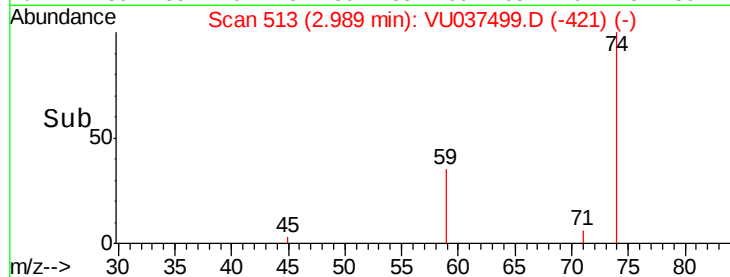
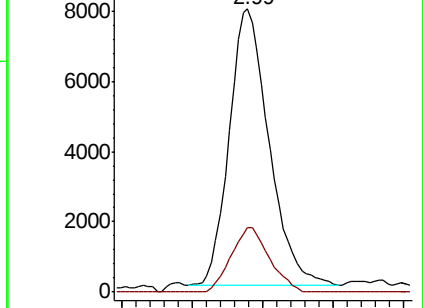
43 100

74 22.5 17.9 26.9



Abundance Ion 43.05 (42.75 to 43.75): VU037499.D (-500) (-)

Ion 74.05 (73.75 to 74.75): VU037499.D (-500) (-)



#16

Methylene chloride

Concen: 4.743 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

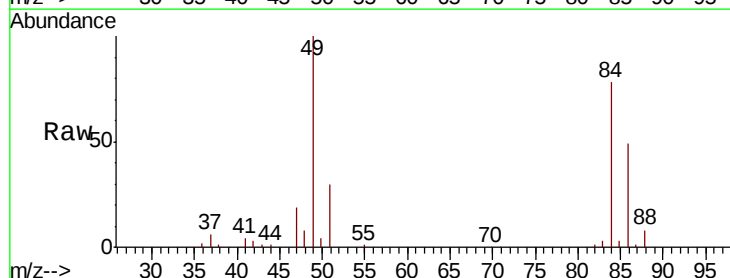
Tgt Ion: 84 Resp: 32755

Ion Ratio Lower Upper

84 100

86 62.4 44.7 82.9

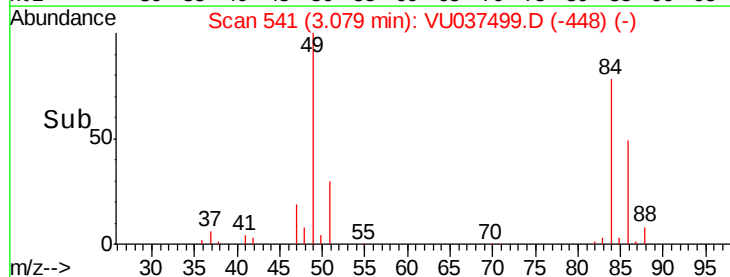
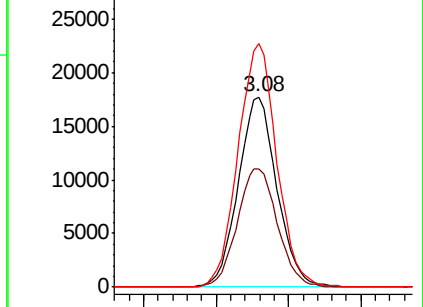
49 128.1 92.7 172.3

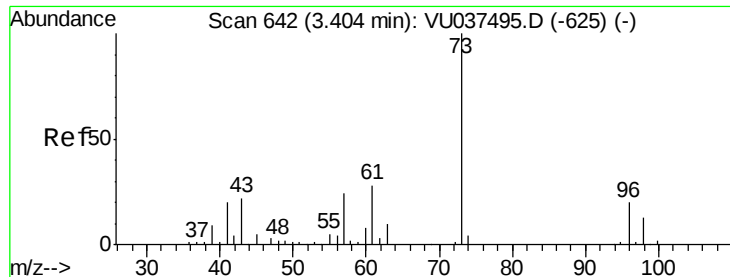


Abundance Ion 84.05 (83.75 to 84.75): VU037499.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU037499.D (-526) (-)

Ion 49.10 (48.80 to 49.80): VU037499.D (-526) (-)

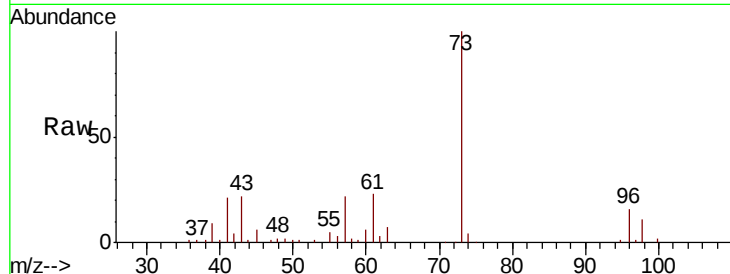




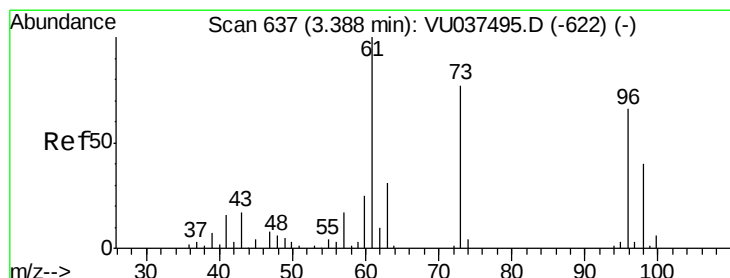
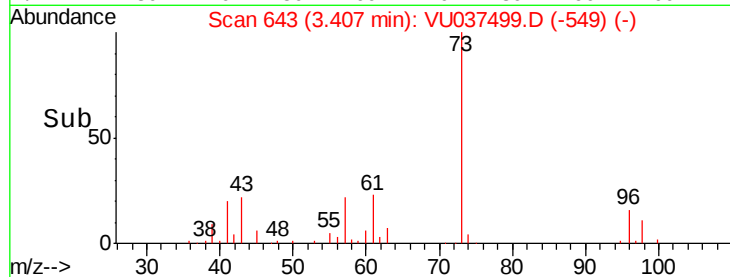
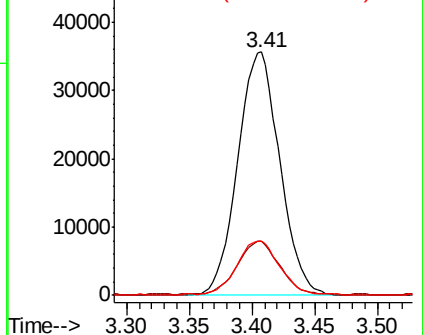
#17
Methvl tert-butvl Ether
Concen: 4.858 ug/L
RT: 3.41 min Scan# 643
Delta R.T. 0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 73 Resp: 83015
Ion Ratio Lower Upper
73 100
43 23.0 17.4 26.2
57 21.8 19.3 28.9

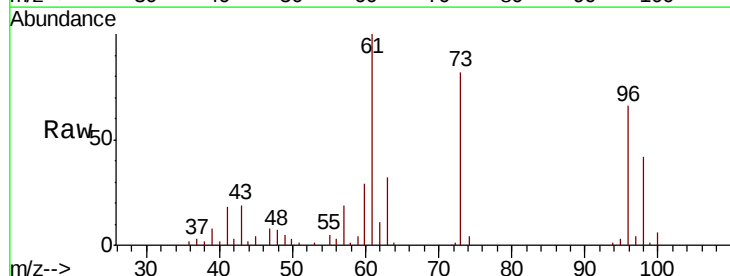


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

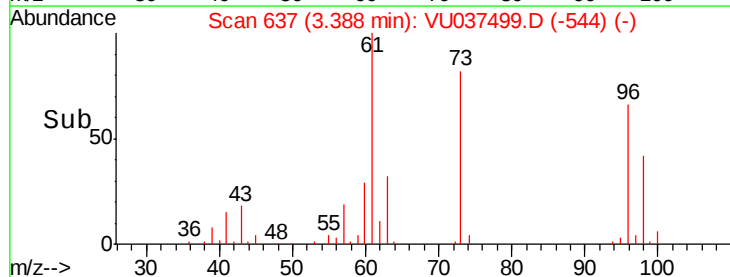
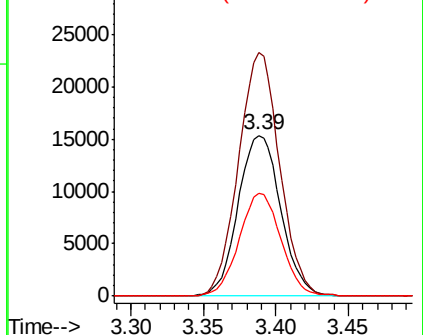


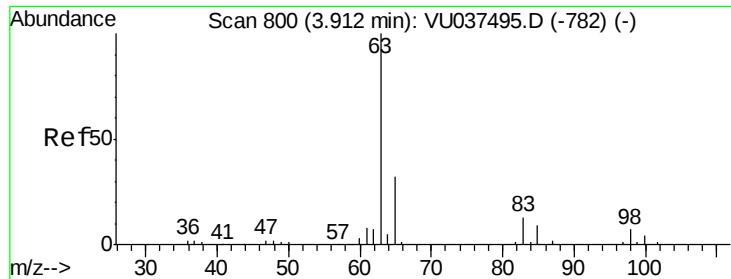
#18
trans-1,2-Dichloroethene
Concen: 4.853 ug/L
RT: 3.39 min Scan# 637
Delta R.T. -0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

Tgt Ion: 96 Resp: 31375
Ion Ratio Lower Upper
96 100
61 151.6 105.3 195.6
98 64.3 42.3 78.5



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

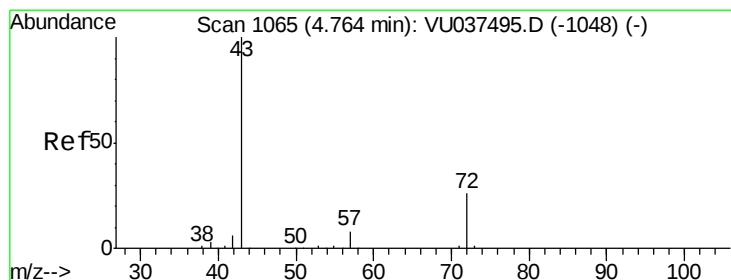
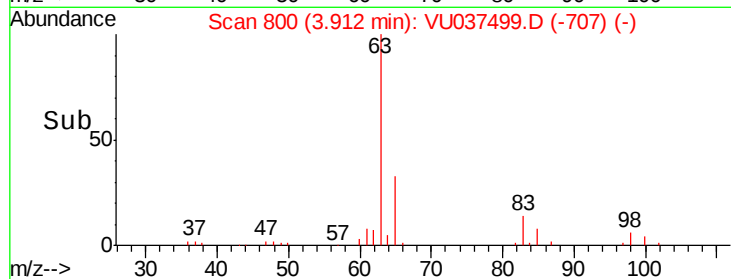
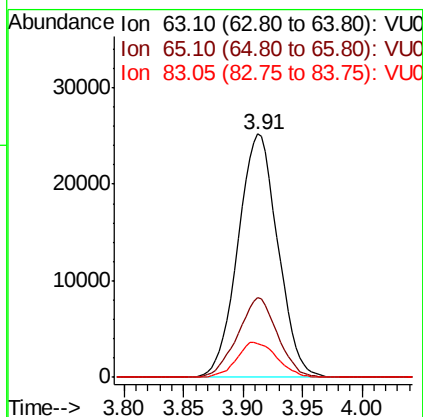
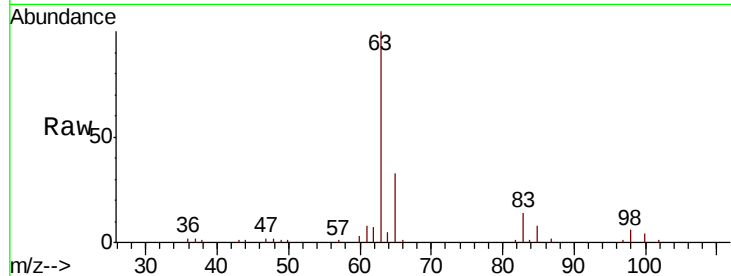




#19
 1,1-Dichloroethane
 Concen: 4.791 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

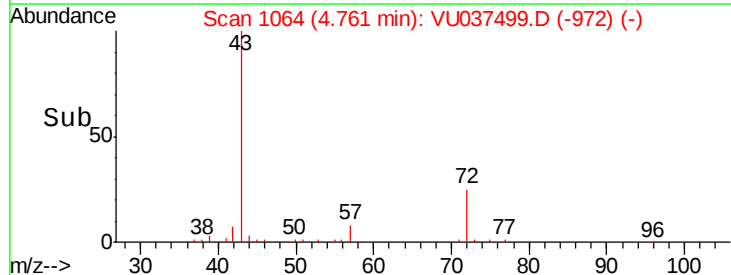
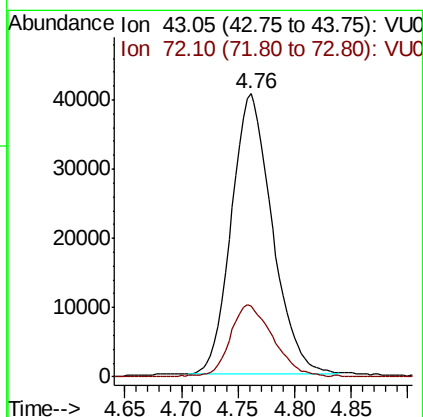
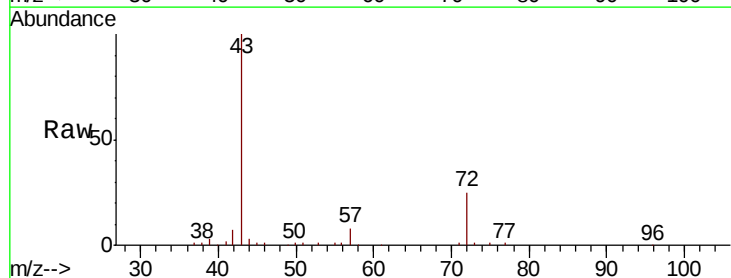
Instrument :
 MSVOA_U
 ClientSampleId :

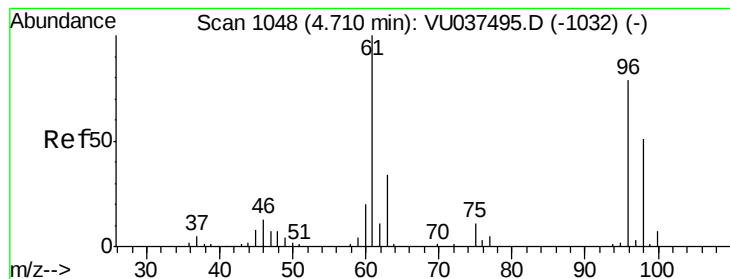
Tot Ion: 63 Resp: 58497
 Ion Ratio Lower Upper
 63 100
 65 32.8 22.3 41.5
 83 13.9 9.2 17.0



#21
 2-Butanone
 Concen: 49.091 ug/L
 RT: 4.76 min Scan# 1064
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Tgt Ion: 43 Resp: 101492
 Ion Ratio Lower Upper
 43 100
 72 26.0 13.7 41.0





#22

cis-1,2-Dichloroethene

Concen: 4.679 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

ClientSampled :

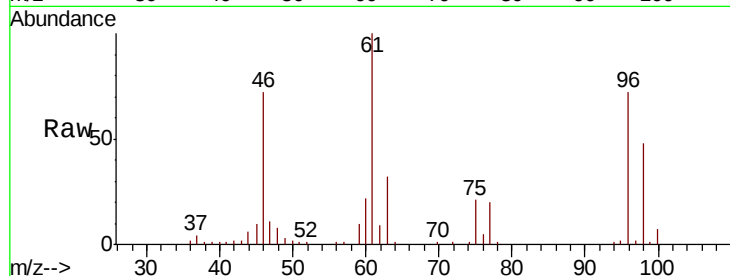
Tot Ion: 96 Resp: 33643

Ion Ratio Lower Upper

96 100

61 139.7 89.1 165.5

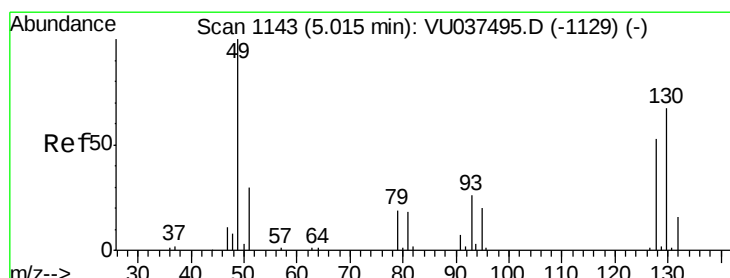
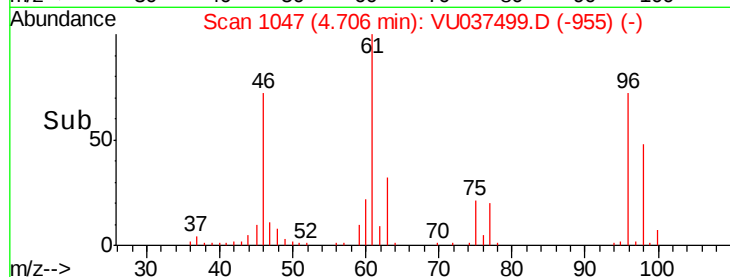
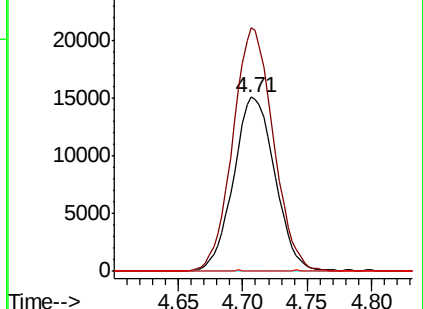
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037499.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU037499.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU037499.D (-1032) (-)



#23

Bromochloromethane

Concen: 5.044 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Tgt Ion: 128 Resp: 14963

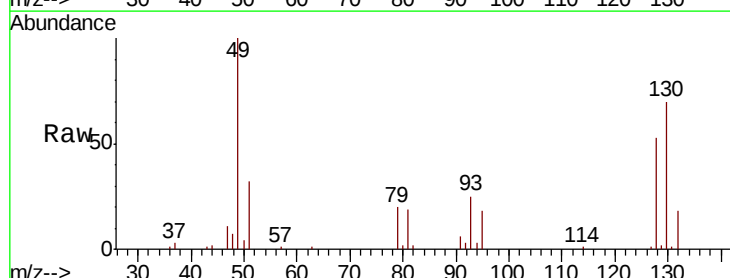
Ion Ratio Lower Upper

128 100

49 187.5 132.4 245.8

130 132.1 88.6 164.6

51 59.5 45.4 68.0

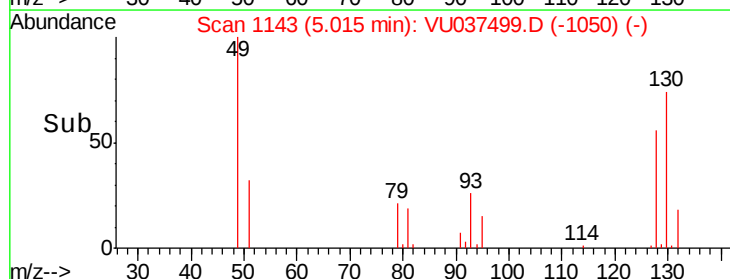
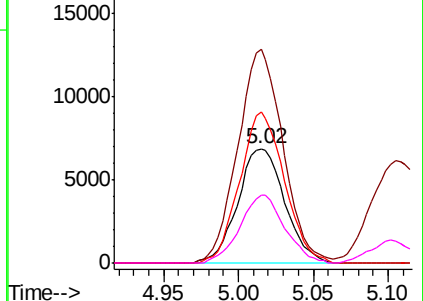


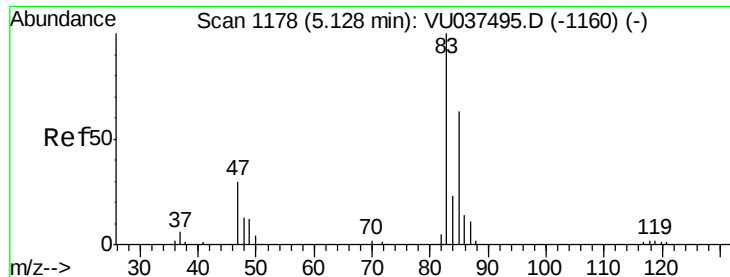
Abundance Ion 127.90 (127.60 to 128.60): VU037499.D (-1129) (-)

Ion 49.10 (48.80 to 49.80): VU037499.D (-1129) (-)

Ion 129.95 (129.65 to 130.65): VU037499.D (-1129) (-)

Ion 51.05 (50.75 to 51.75): VU037499.D (-1129) (-)

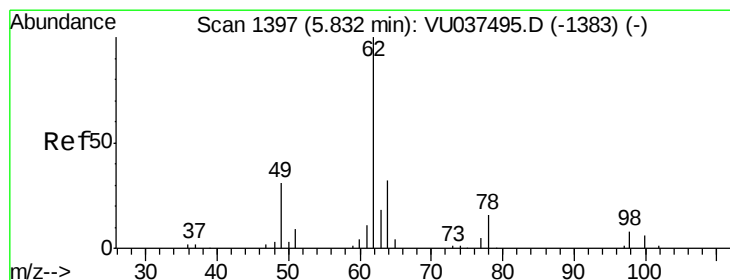
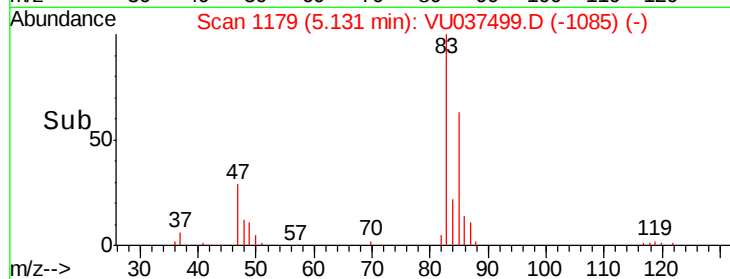
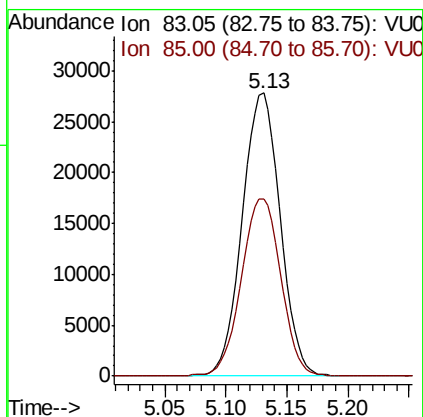
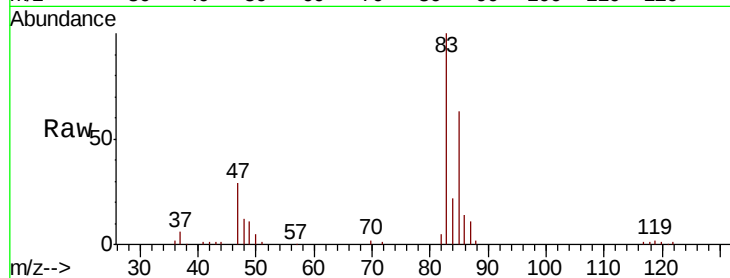




#25
Chloroform
Concen: 4.841 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

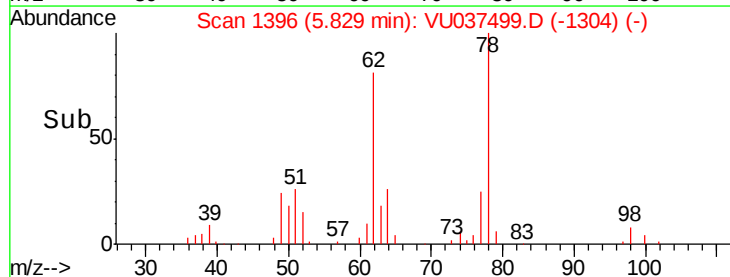
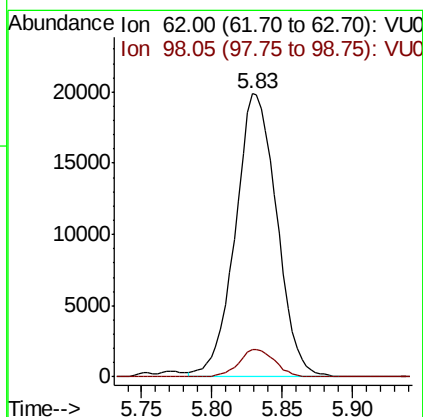
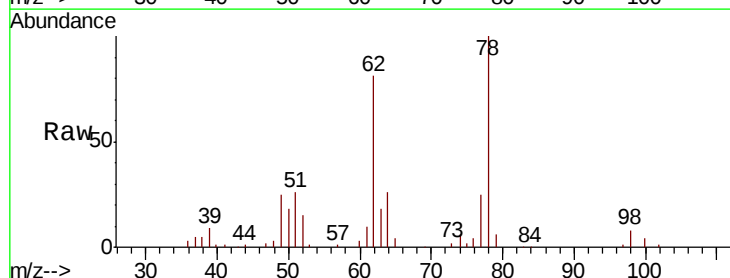
Instrument :
MSVOA_U
ClientSampleId :

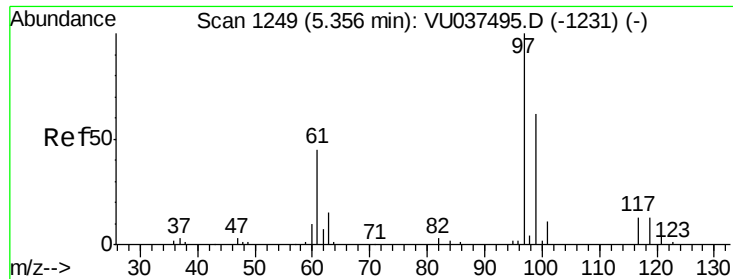
Tot Ion: 83 Resp: 59812
Ion Ratio Lower Upper
83 100
85 62.8 44.1 81.9



#27
1,2-Dichloroethane
Concen: 4.892 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

Tgt Ion: 62 Resp: 40908
Ion Ratio Lower Upper
62 100
98 9.7 6.3 9.5#

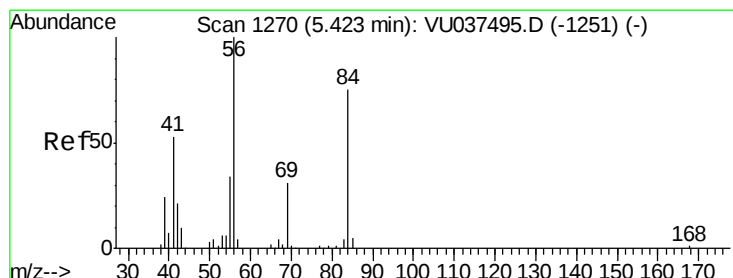
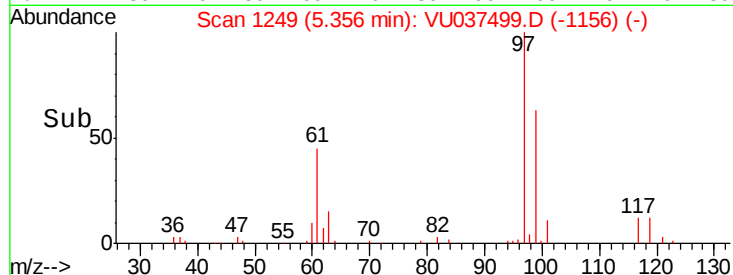
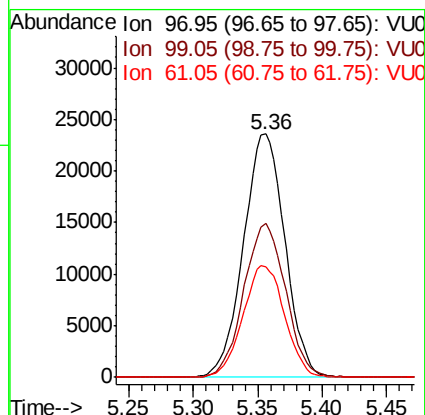
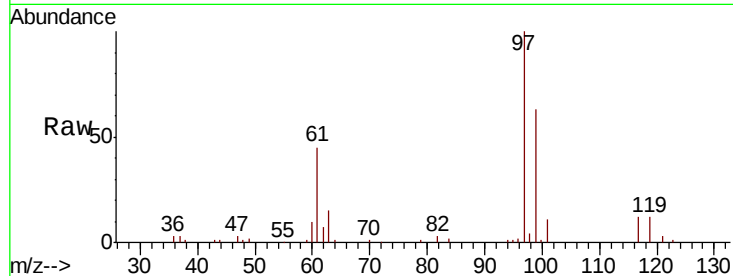




#29
 1,1,1-Trichloroethane
 Concen: 4.827 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

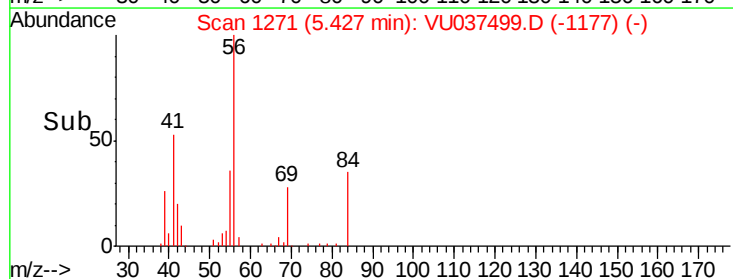
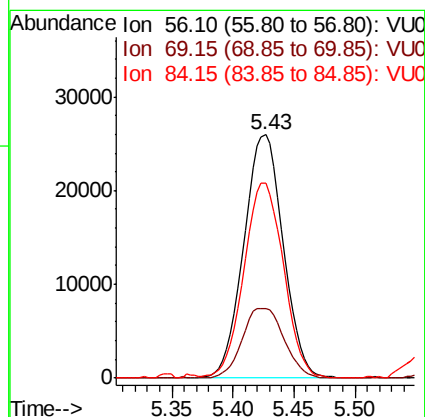
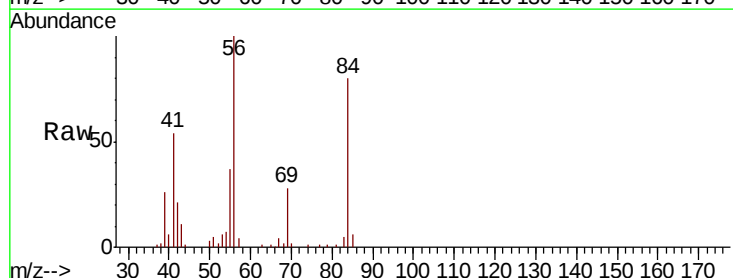
Instrument :
 MSVOA_U
 ClientSampleId :

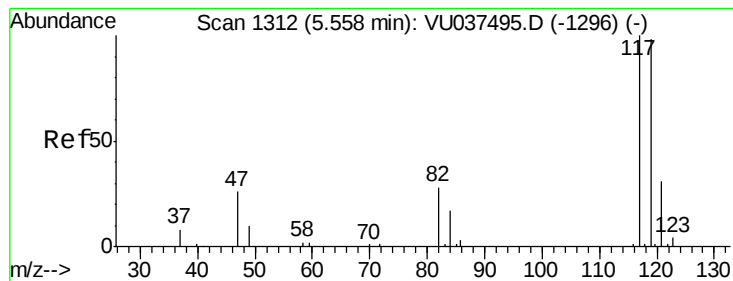
Tot Ion: 97 Resp: 52791
 Ion Ratio Lower Upper
 97 100
 99 63.7 50.9 76.3
 61 46.3 36.5 54.7



#30
 Cyclohexane
 Concen: 4.898 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Tgt Ion: 56 Resp: 58041
 Ion Ratio Lower Upper
 56 100
 69 30.3 24.4 36.6
 84 80.6 65.3 97.9





#31

Carbon tetrachloride

Concen: 4.859 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

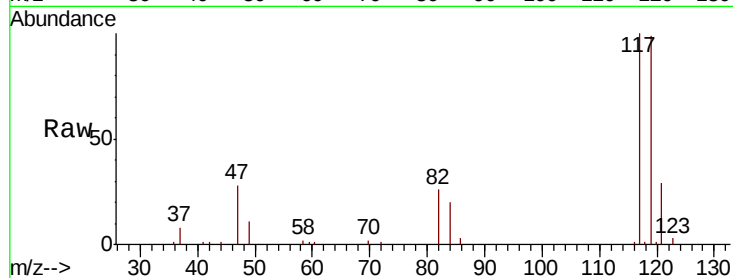
ClientSampleId :

Tot Ion:117 Resp: 43789

Ion Ratio Lower Upper

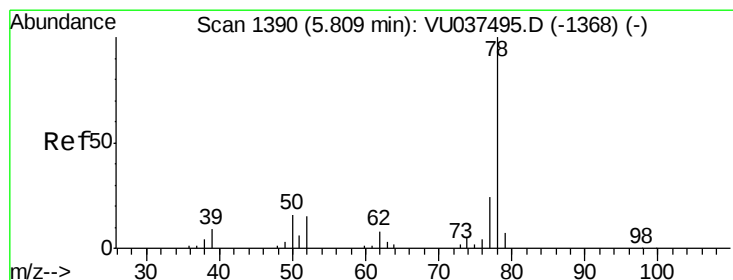
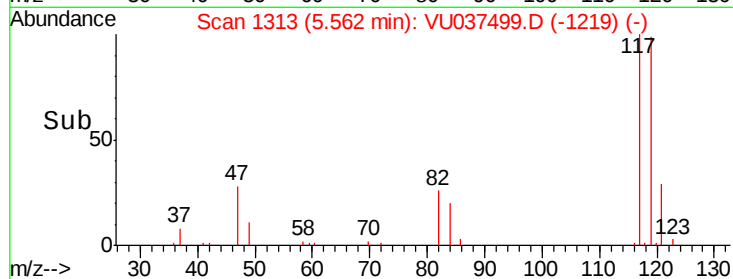
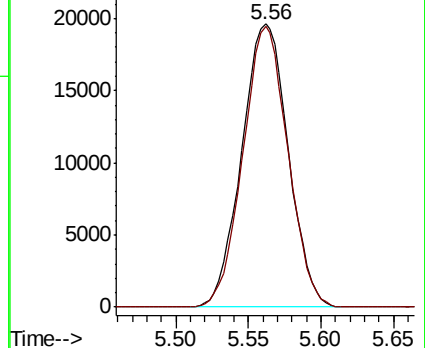
117 100

119 95.8 77.6 116.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.805 ug/L

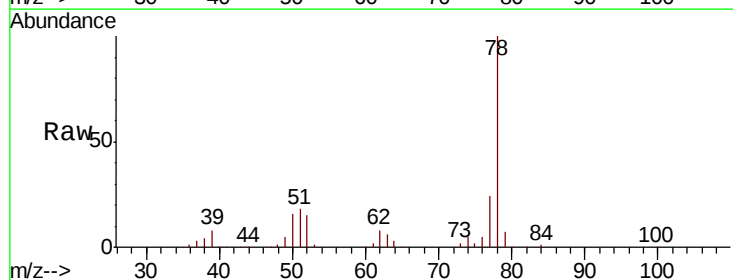
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

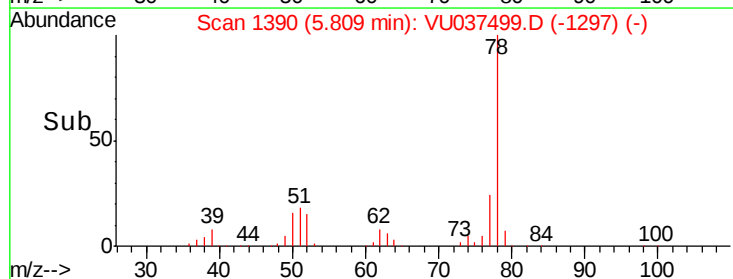
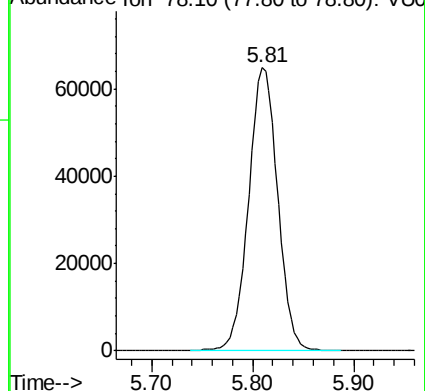
Lab File: VU037499.D

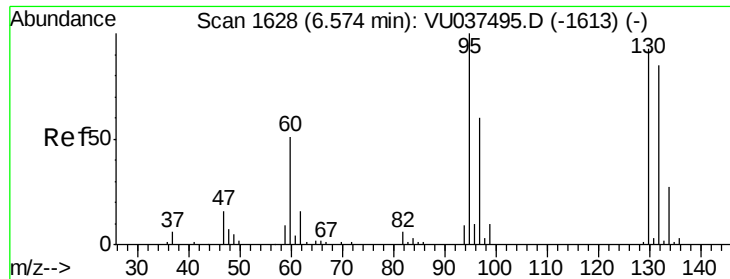
Acq: 31 Mar 2020 14:19

Tgt Ion: 78 Resp: 128974



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.745 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 33916

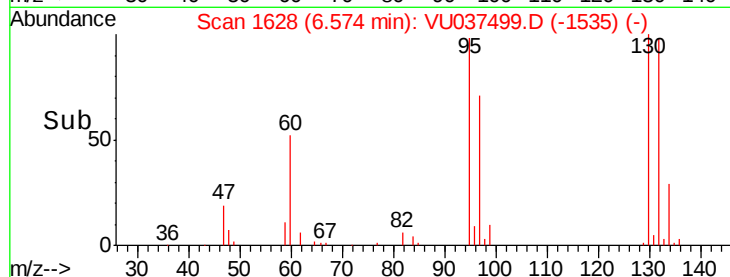
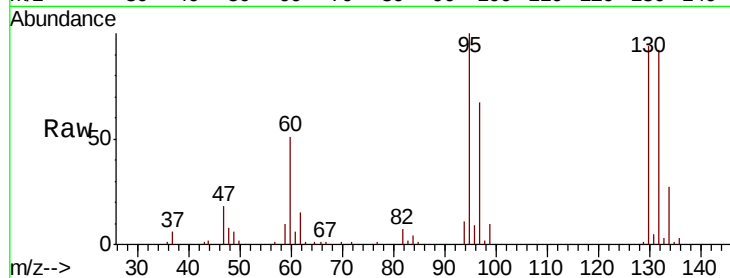
Ion Ratio Lower Upper

95 100

97 66.6 41.8 77.6

132 92.2 59.8 111.0

130 94.3 65.0 120.8

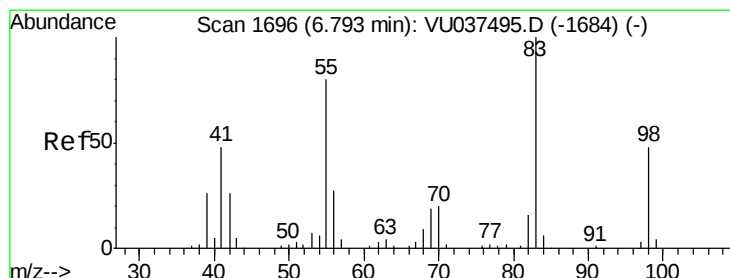
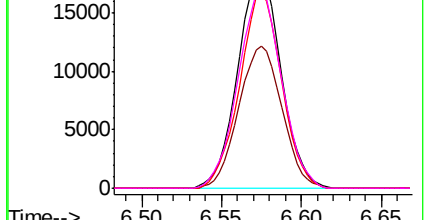


Abundance Ion 95.00 (94.70 to 95.70): VU037499.D (-1535) (-)

Ion 96.95 (96.65 to 97.65): VU037499.D (-1535) (-)

Ion 131.95 (131.65 to 132.65): VU037499.D (-1535) (-)

Ion 129.95 (129.65 to 130.65): VU037499.D (-1535) (-)



#35

Methylcyclohexane

Concen: 4.800 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

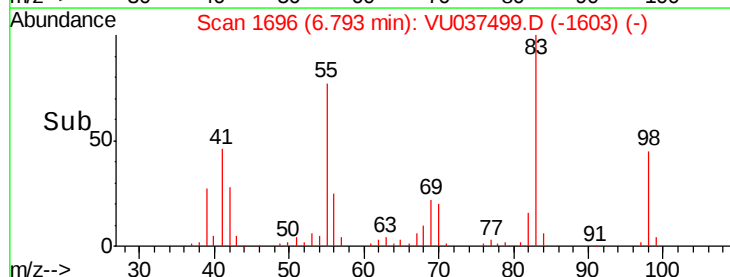
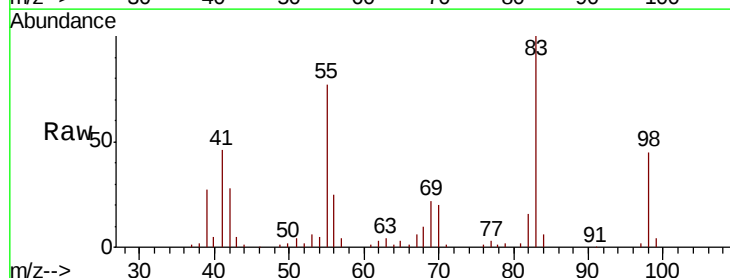
Tgt Ion: 83 Resp: 56189

Ion Ratio Lower Upper

83 100

55 78.6 64.4 96.6

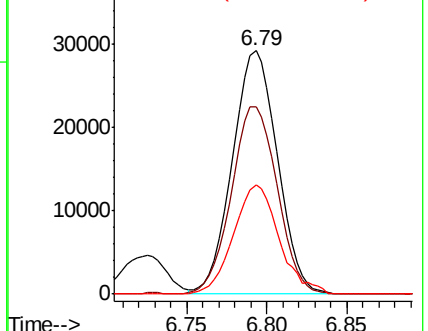
98 45.3 38.2 57.2

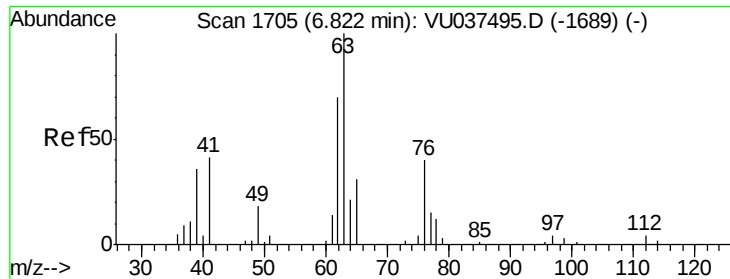


Abundance Ion 83.15 (82.85 to 83.85): VU037499.D (-1603) (-)

Ion 55.10 (54.80 to 55.80): VU037499.D (-1603) (-)

Ion 98.15 (97.85 to 98.85): VU037499.D (-1603) (-)





#37

1,2-Dichloropropane

Concen: 4.971 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

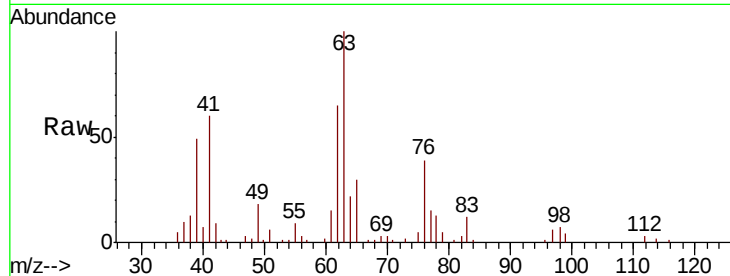
ClientSampleId :

Tot Ion: 63 Resp: 35374

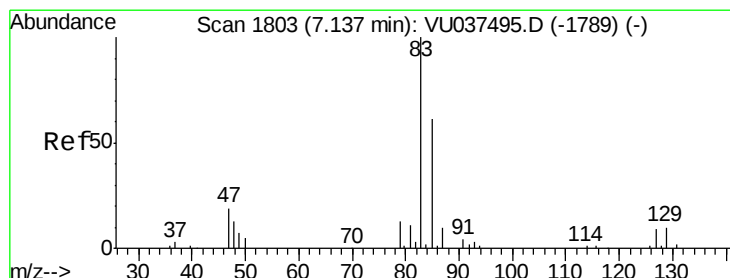
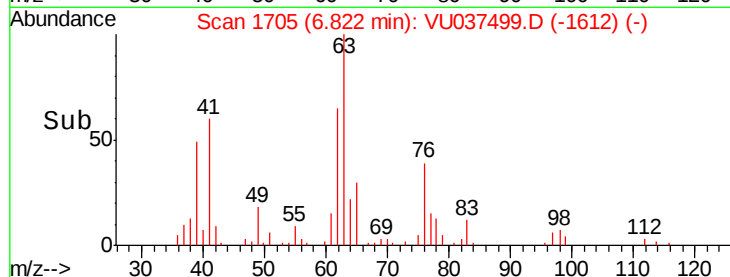
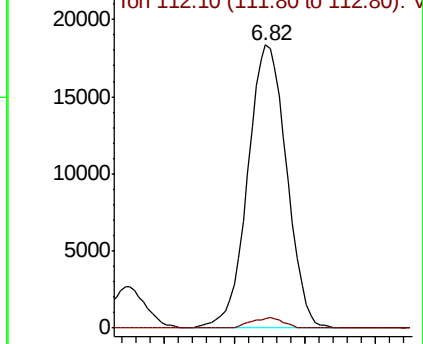
Ion Ratio Lower Upper

63 100

112 3.1 2.8 4.2



Abundance Ion 63.10 (62.80 to 63.80): VU037499.D (-1689) (-)



#38

Bromodichloromethane

Concen: 4.802 ug/L

RT: 7.14 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

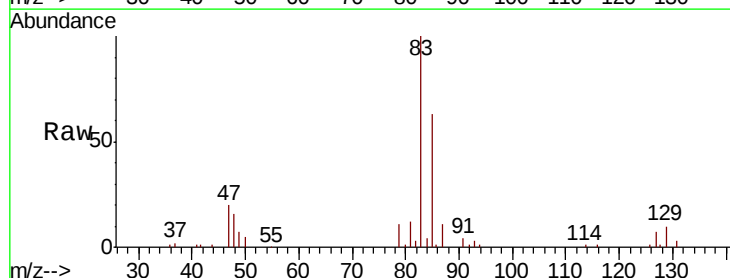
Tgt Ion: 83 Resp: 45159

Ion Ratio Lower Upper

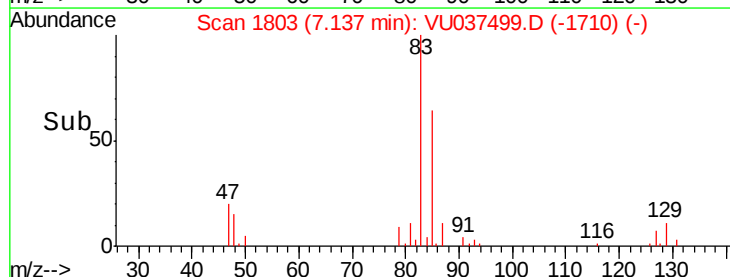
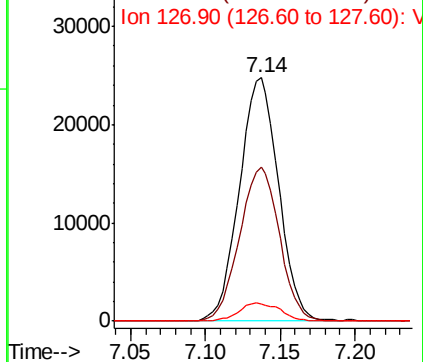
83 100

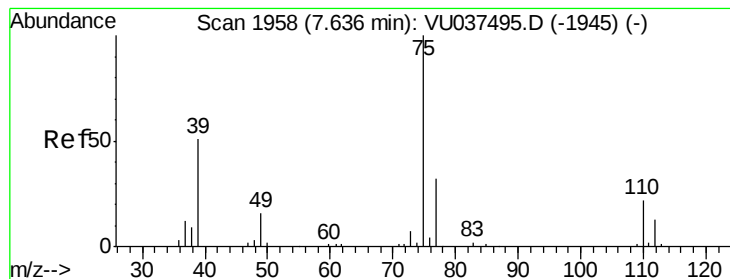
85 63.3 42.7 79.3

127 7.1 6.9 10.3



Abundance Ion 82.95 (82.65 to 83.65): VU037499.D (-1789) (-)



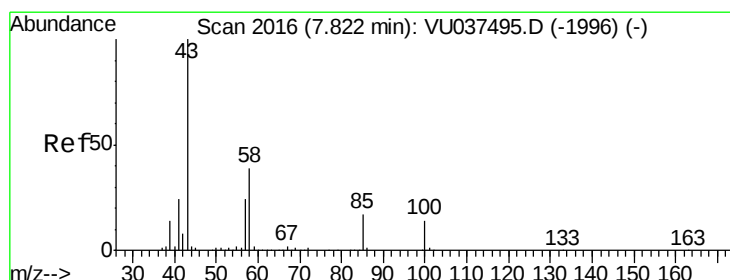
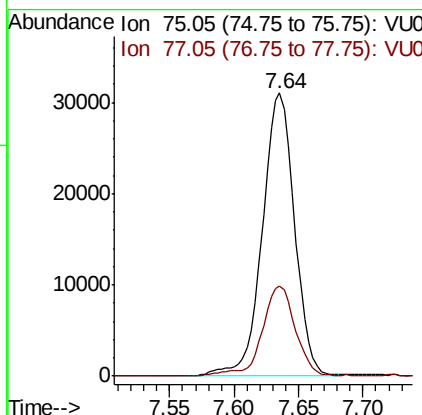
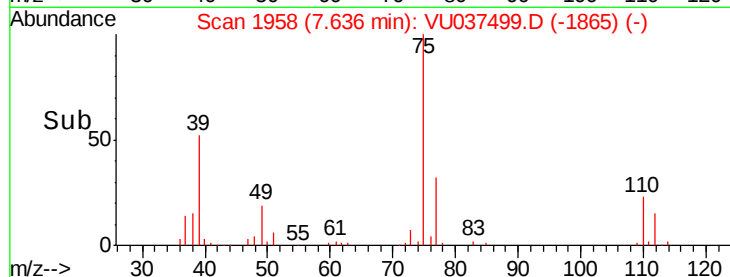
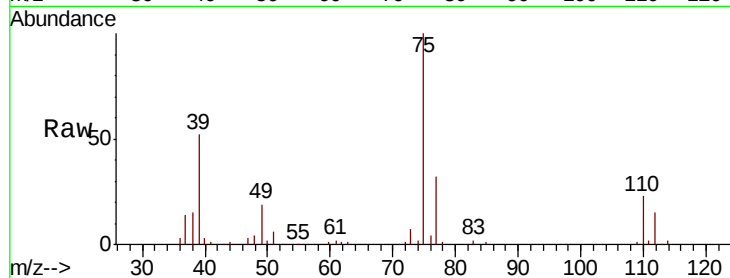


#39

cis-1,3-Dichloropropene
 Concen: 4.888 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Instrument :
 MSVOA_U
 ClientSampleId :

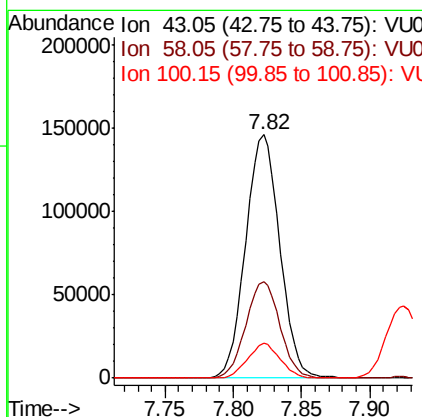
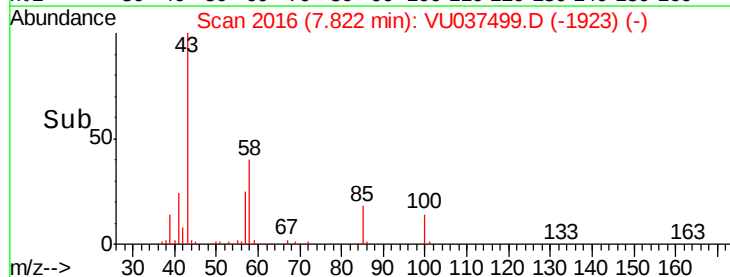
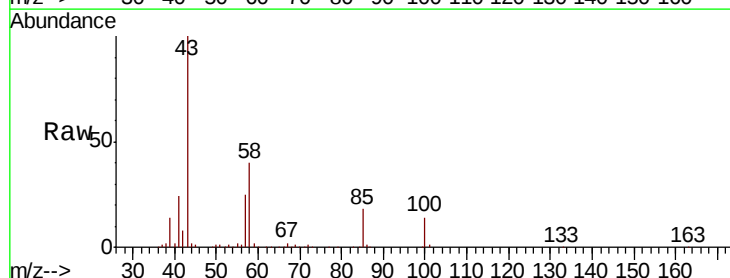
Tot Ion: 75 Resp: 54069
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.4 41.6

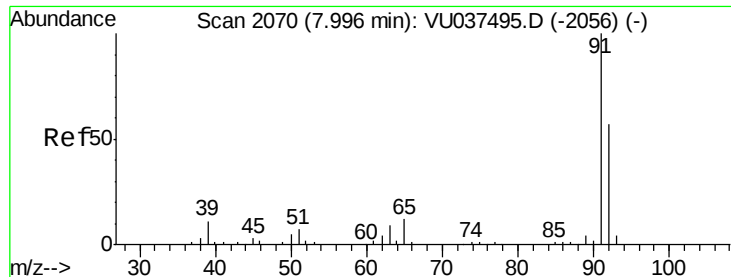


#40

4-Methyl-2-pentanone
 Concen: 47.813 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Tgt Ion: 43 Resp: 253536
 Ion Ratio Lower Upper
 43 100
 58 39.7 31.2 46.8
 100 13.7 10.9 16.3





#42

Toluene

Concen: 4.877 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

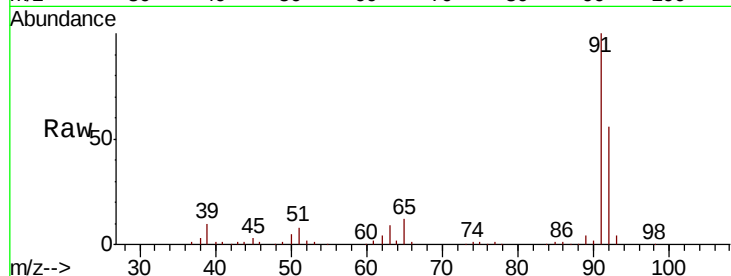
ClientSampleId :

Tot Ion: 91 Resp: 138038

Ion Ratio Lower Upper

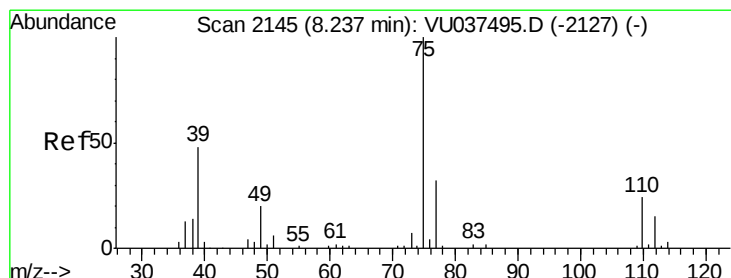
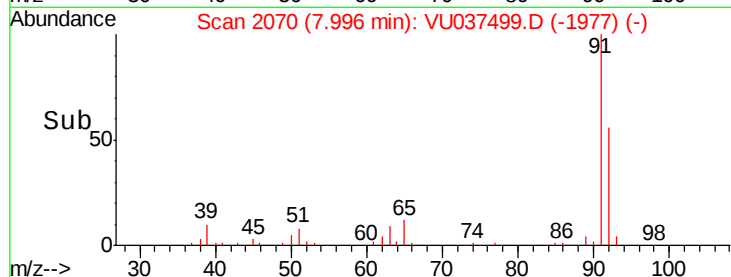
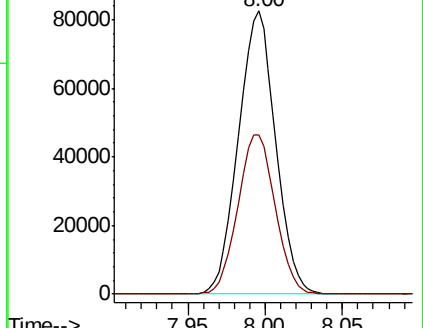
91 100

92 56.2 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU037499.D (-1977) (-)

Ion 92.15 (91.85 to 92.85): VU037499.D (-1977) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.871 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU037499.D

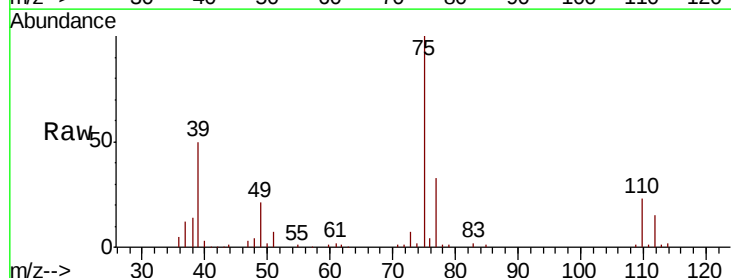
Acq: 31 Mar 2020 14:19

Tgt Ion: 75 Resp: 47764

Ion Ratio Lower Upper

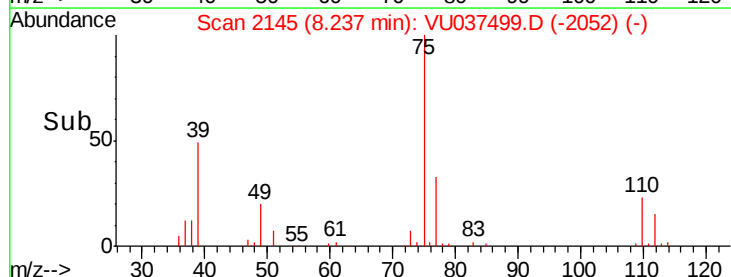
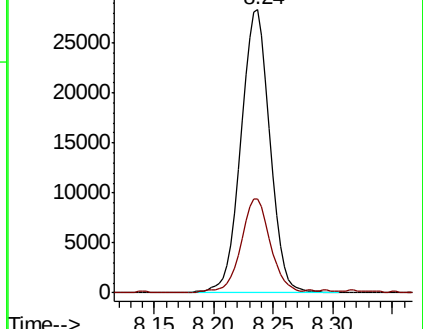
75 100

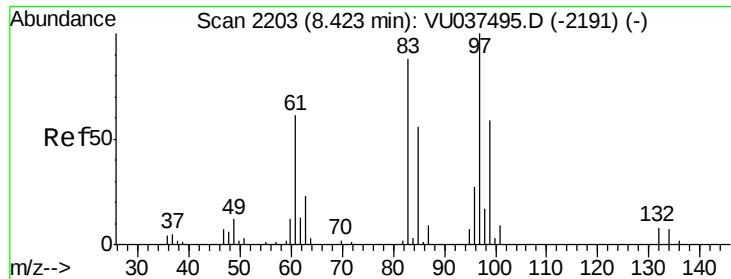
77 33.3 22.9 42.5



Abundance Ion 75.05 (74.75 to 75.75): VU037499.D (-2052) (-)

Ion 77.05 (76.75 to 77.75): VU037499.D (-2052) (-)

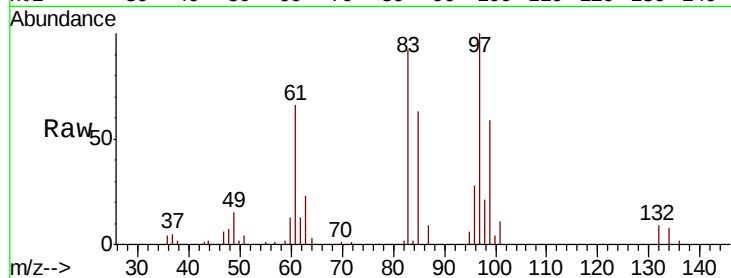




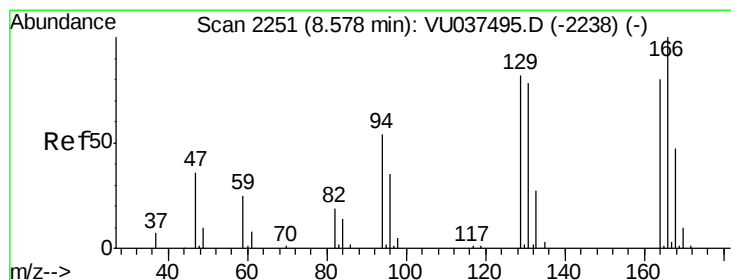
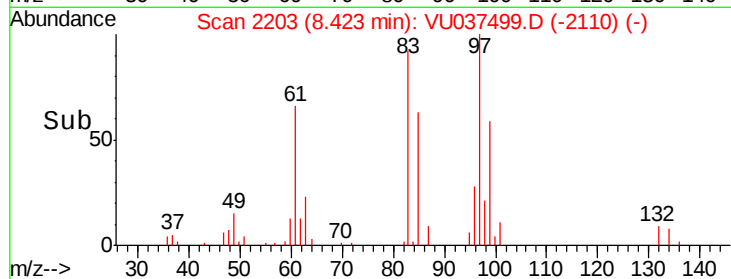
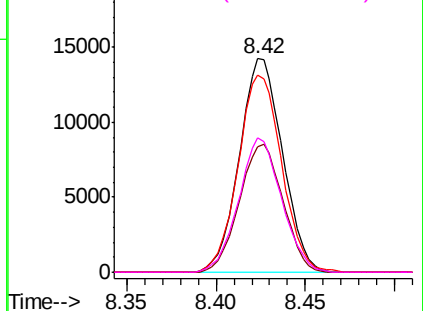
#45
 1,1,2-Trichloroethane
 Concen: 4.745 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:	97	Resp:	24089
Ion	Ratio	Lower	Upper
97	100		
99	58.8	41.6	77.2
83	92.3	61.5	114.1
85	62.7	39.3	73.1

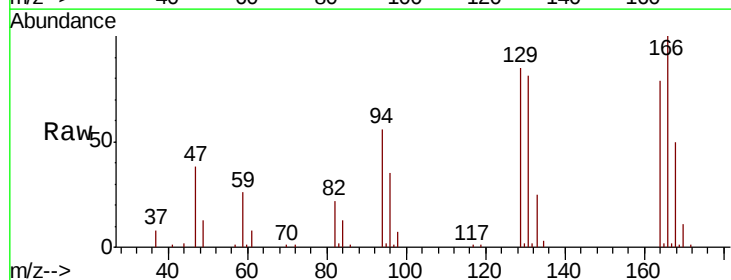


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

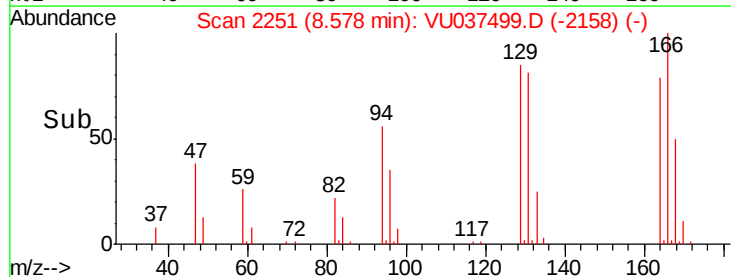
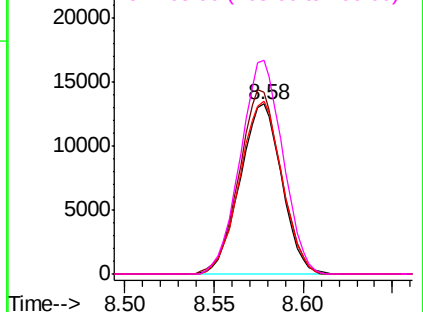


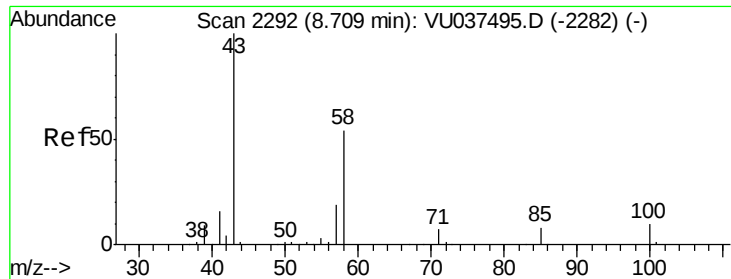
#47
 Tetrachloroethene
 Concen: 4.627 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Tgt Ion:	164	Resp:	21705
Ion	Ratio	Lower	Upper
164	100		
129	107.5	71.3	132.3
131	101.5	67.9	126.1
166	125.8	87.0	161.6



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

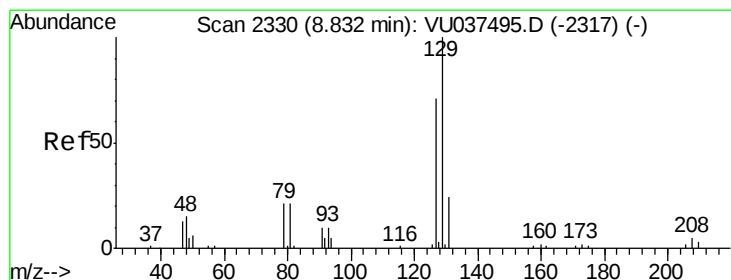
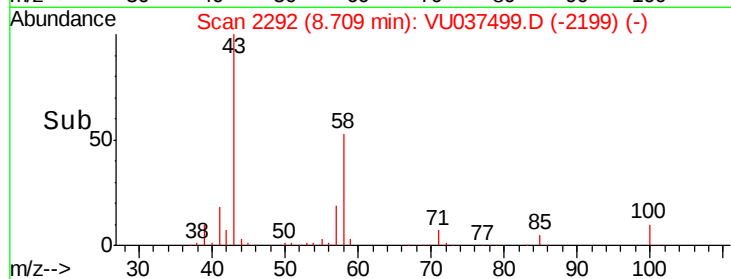
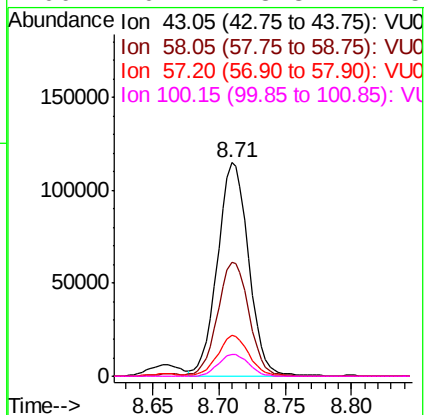
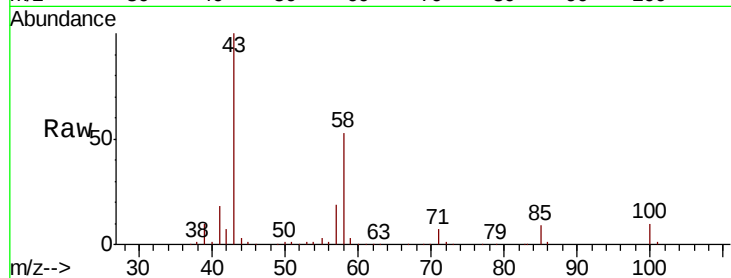




#48
2-Hexanone
Concen: 48.748 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

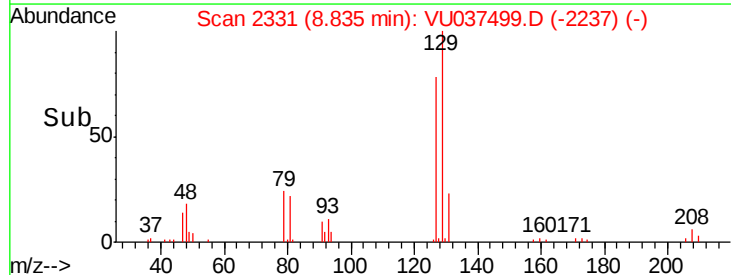
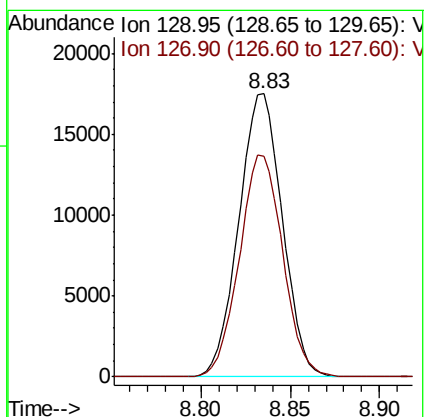
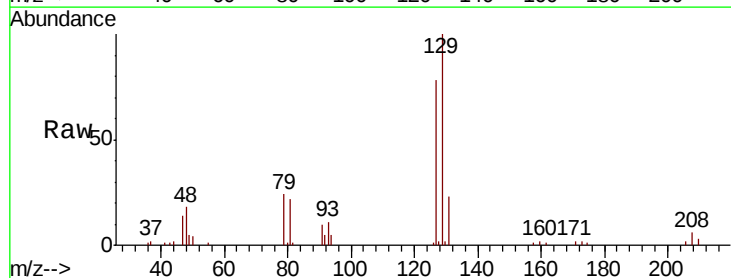
Instrument :
MSVOA_U
ClientSampleId :

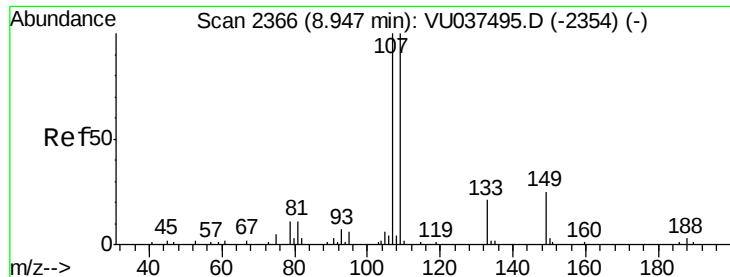
Tot Ion: 43 Resp: 186551
Ion Ratio Lower Upper
43 100
58 54.5 43.4 65.0
57 19.3 14.9 22.3
100 10.2 8.3 12.5



#49
Dibromochloromethane
Concen: 4.813 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

Tgt Ion:129 Resp: 29908
Ion Ratio Lower Upper
129 100
127 78.0 49.4 91.8

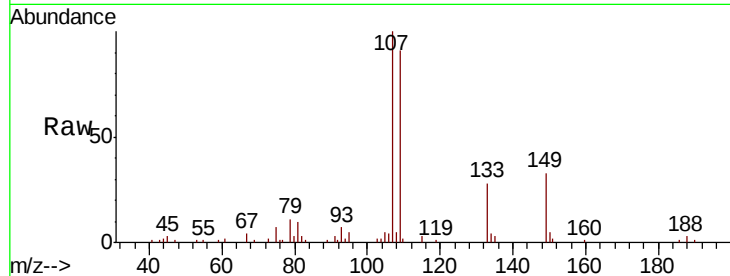




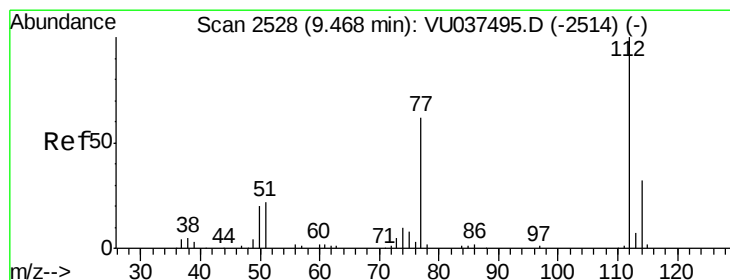
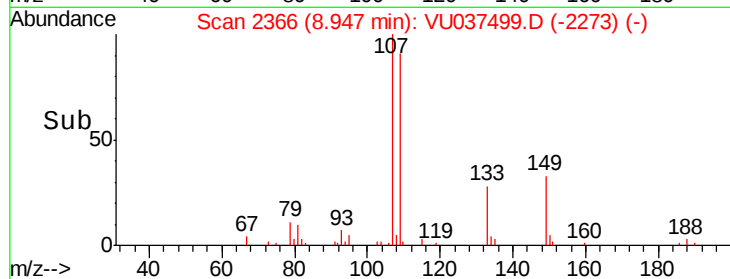
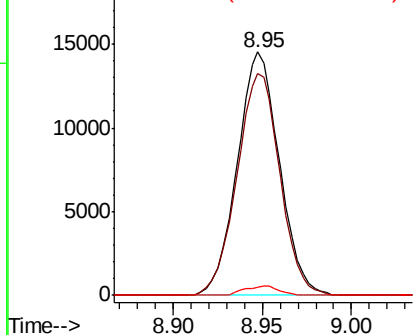
#50
1,2-Dibromoethane
Concen: 4.745 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:107 Resp: 23926
Ion Ratio Lower Upper
107 100
109 91.1 70.1 130.3
188 3.3 2.2 3.4

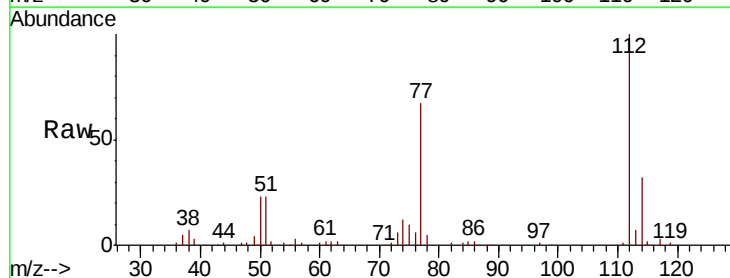


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

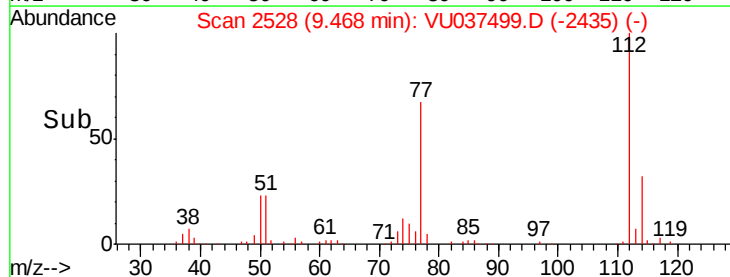
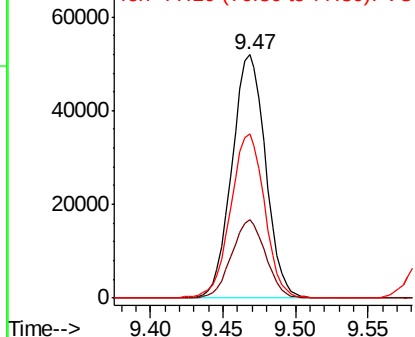


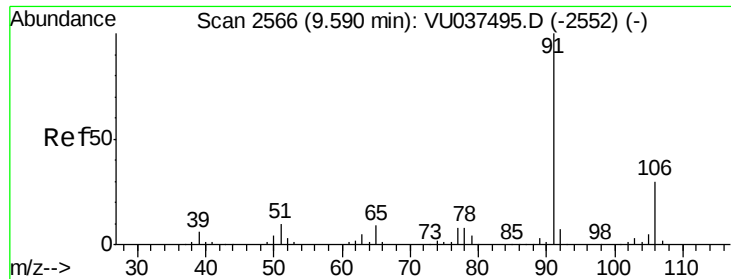
#51
Chlorobenzene
Concen: 4.741 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

Tgt Ion:112 Resp: 83617
Ion Ratio Lower Upper
112 100
114 32.1 22.4 41.6
77 67.3 50.4 75.6



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): VU





#52

Ethylbenzene

Concen: 4.734 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

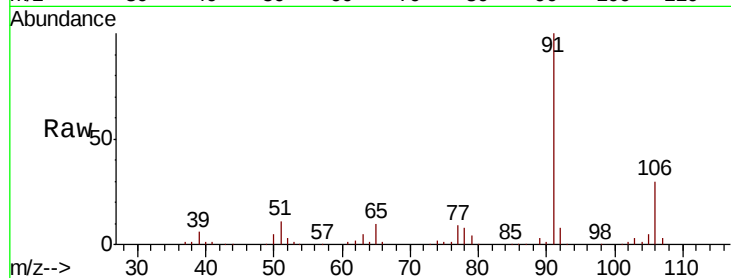
ClientSampled :

Tot Ion: 91 Resp: 155691

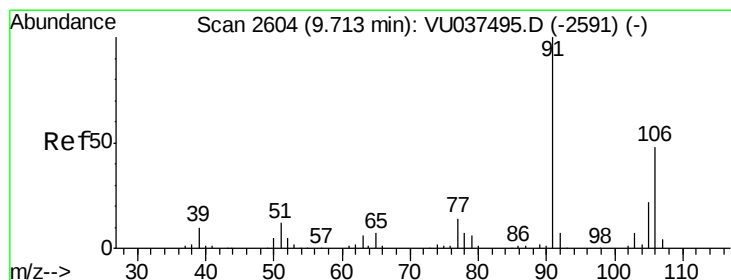
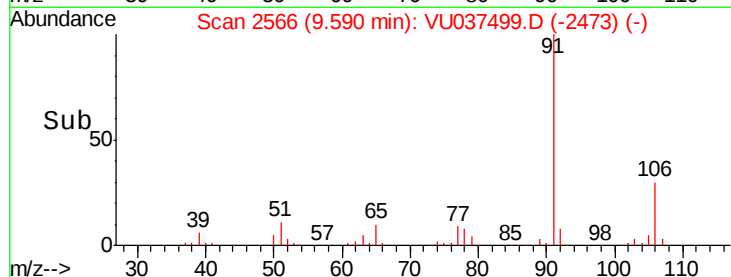
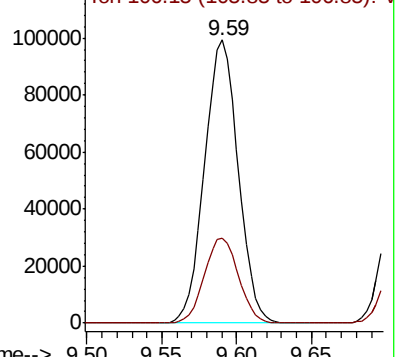
Ion Ratio Lower Upper

91 100

106 30.1 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU037499.D (-2552) (-)



#53

m,p-Xylene

Concen: 4.811 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU037499.D

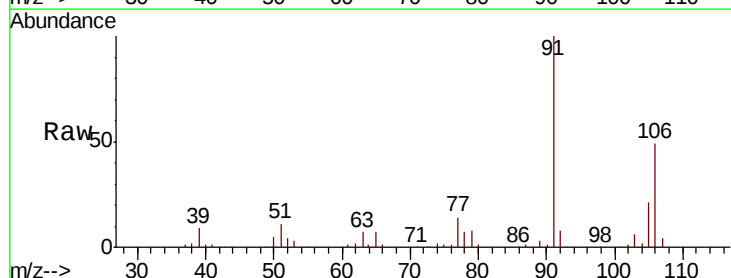
Acq: 31 Mar 2020 14:19

Tgt Ion: 106 Resp: 58824

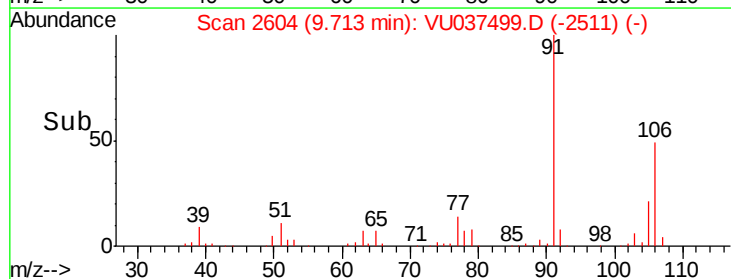
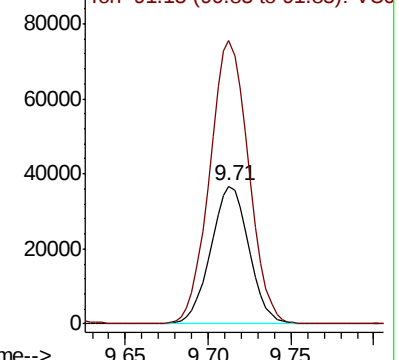
Ion Ratio Lower Upper

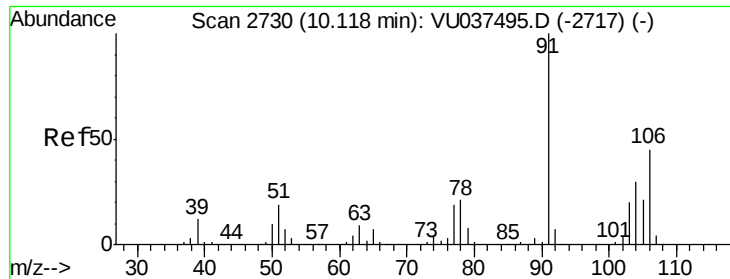
106 100

91 205.1 146.8 272.6



Abundance Ion 106.15 (105.85 to 106.85): VU037499.D (-2591) (-)

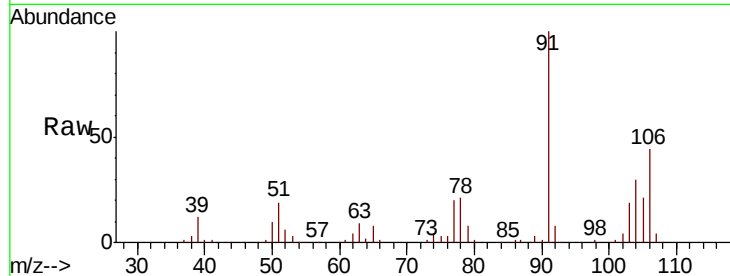




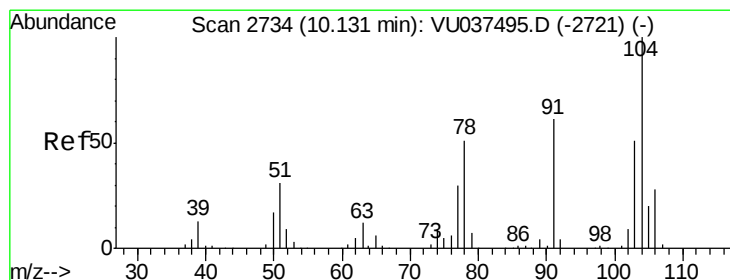
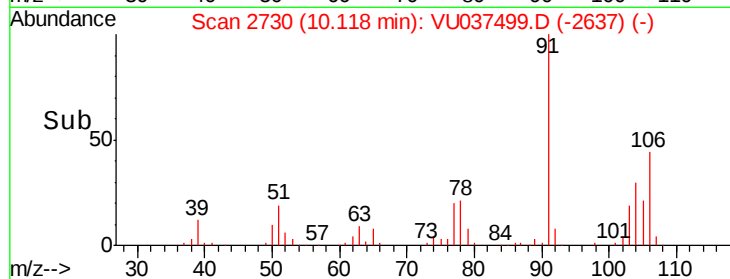
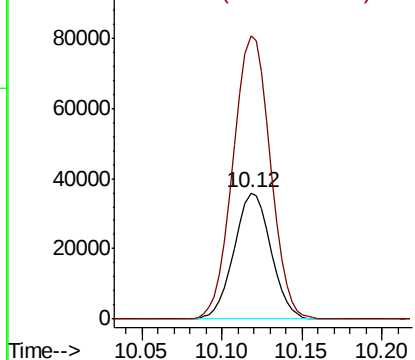
#54
o-Xylene
Concen: 4.858 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 56299
Ion Ratio Lower Upper
106 100
91 224.8 155.6 289.0

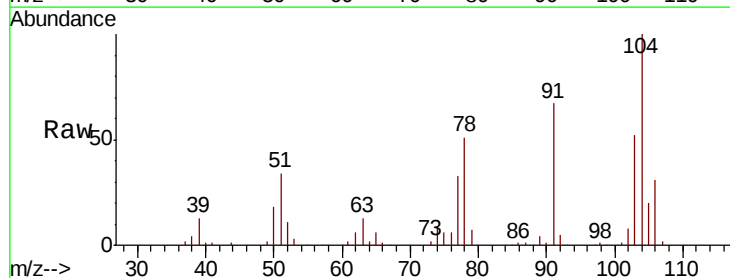


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

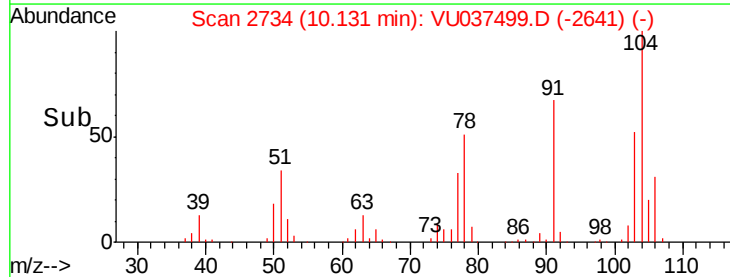
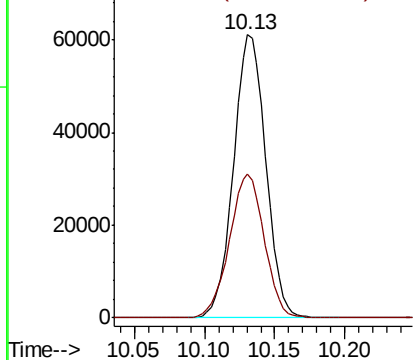


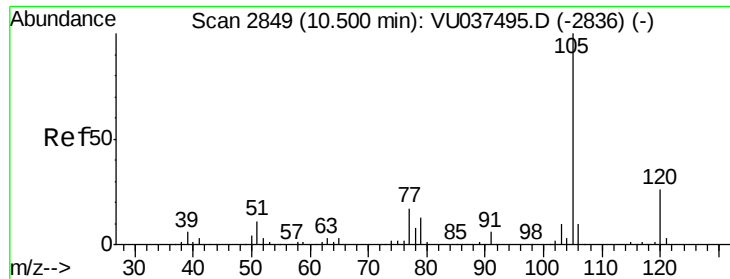
#55
Styrene
Concen: 4.860 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU037499.D
Acq: 31 Mar 2020 14:19

Tgt Ion:104 Resp: 98046
Ion Ratio Lower Upper
104 100
78 50.6 35.7 66.3



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.877 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

ClientSampleId :

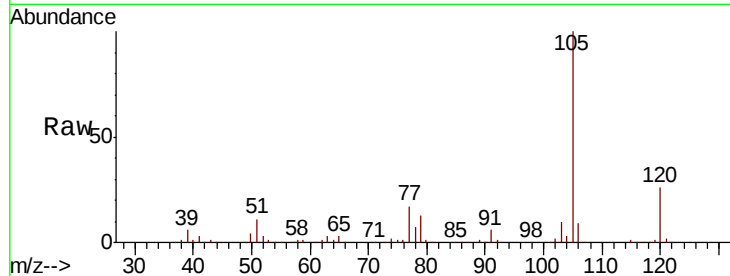
Tot Ion:105 Resp: 152546

Ion Ratio Lower Upper

105 100

120 26.2 20.5 30.7

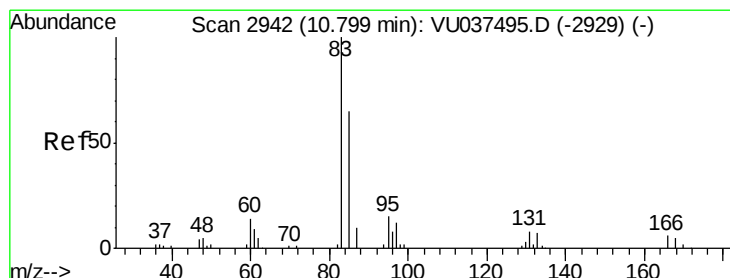
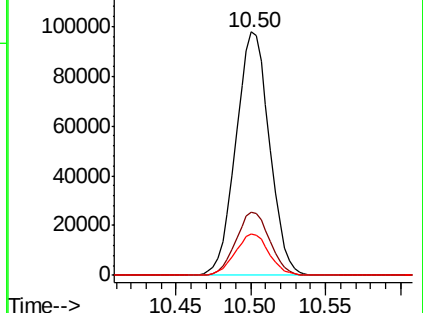
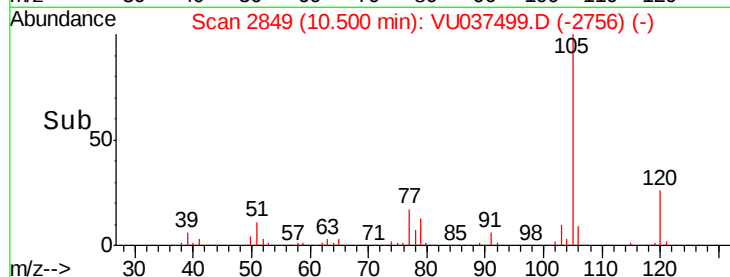
77 17.1 13.6 20.4



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: 4.756 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

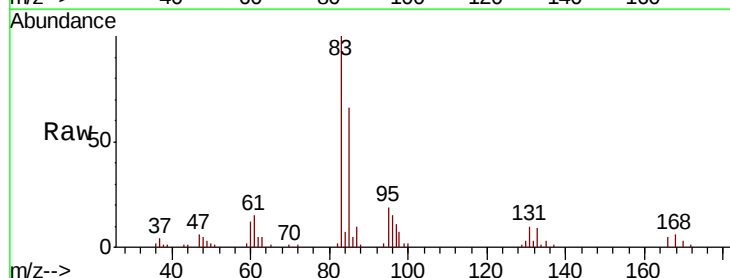
Tgt Ion: 83 Resp: 32795

Ion Ratio Lower Upper

83 100

85 66.5 45.9 85.3

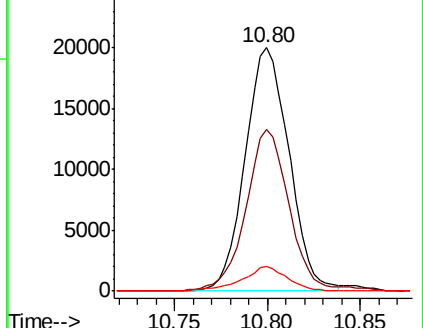
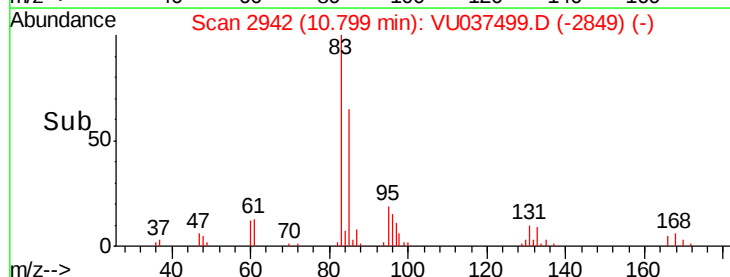
131 10.0 6.5 9.7#

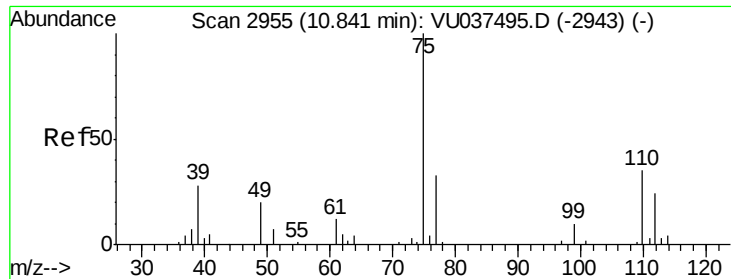


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.014 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

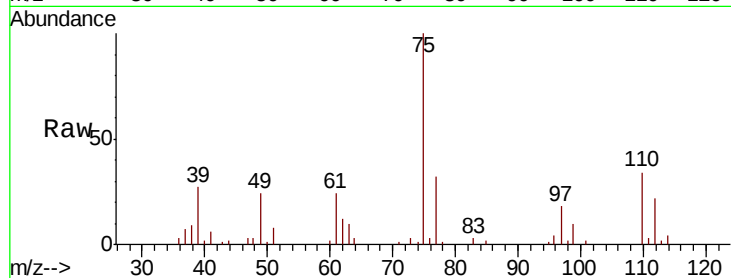
ClientSampleId :

Tot Ion: 75 Resp: 24534

Ion Ratio Lower Upper

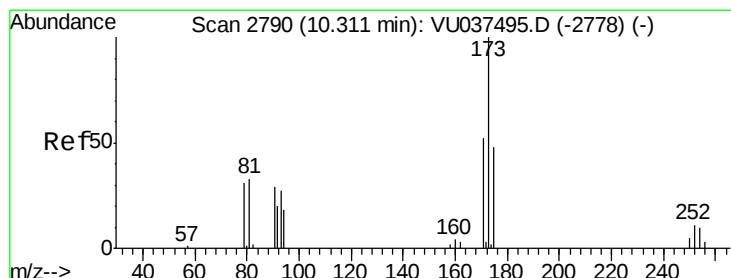
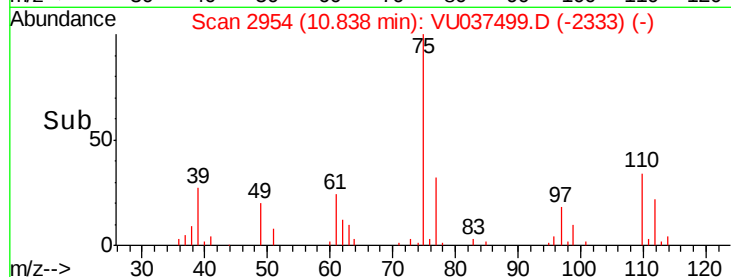
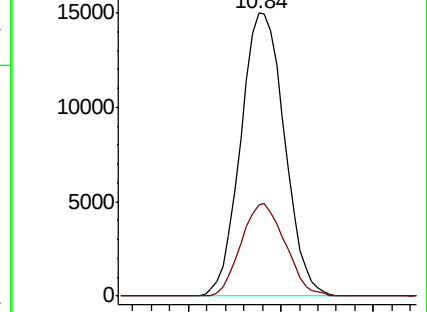
75 100

77 32.7 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU037495.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU037495.D (-2943) (-)



#61

Bromoform

Concen: 4.747 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

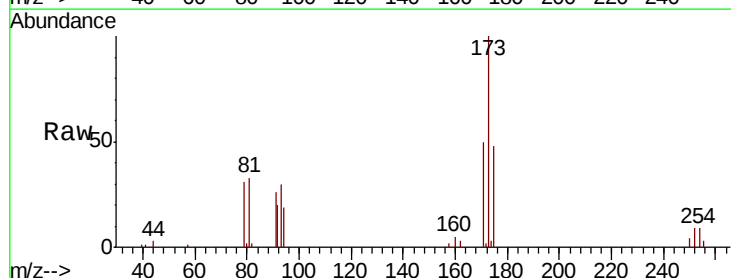
Tgt Ion:173 Resp: 16544

Ion Ratio Lower Upper

173 100

175 47.2 40.0 60.0

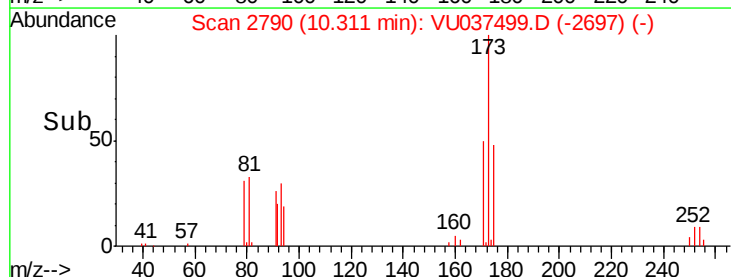
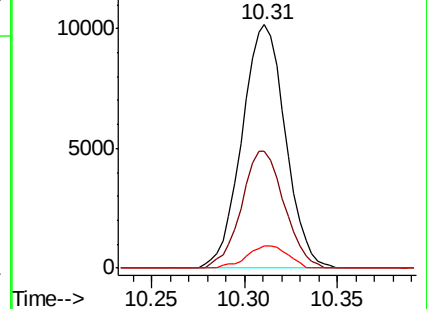
254 8.6 8.4 12.6

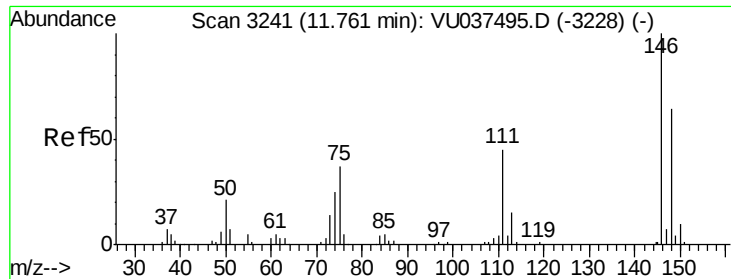


Abundance Ion 172.90 (172.60 to 173.60): VU037495.D (-2778) (-)

Ion 174.90 (174.60 to 175.60): VU037495.D (-2778) (-)

Ion 253.75 (253.45 to 254.45): VU037495.D (-2778) (-)

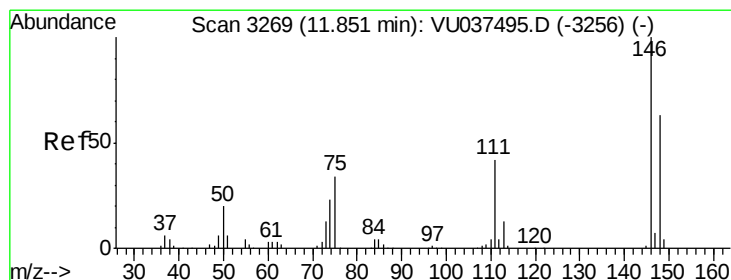
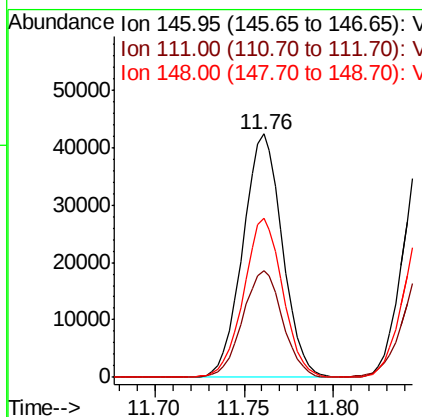
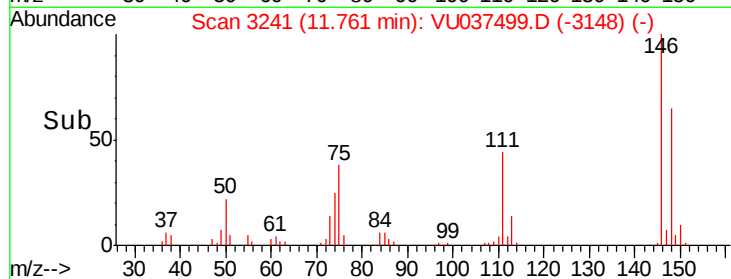
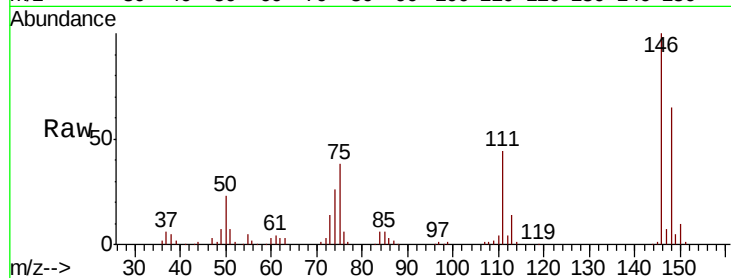




#62
 1,3-Dichlorobenzene
 Concen: 4.758 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

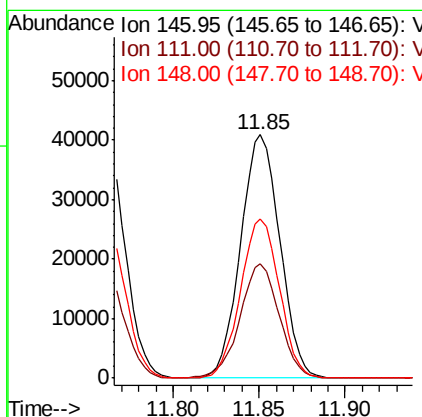
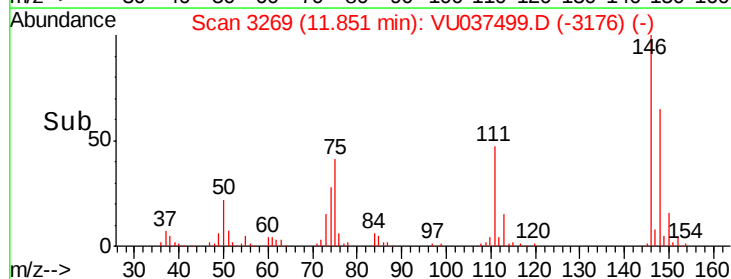
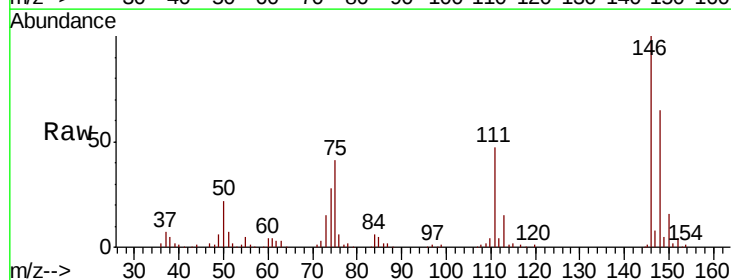
Instrument :
 MSVOA_U
 ClientSampleId :

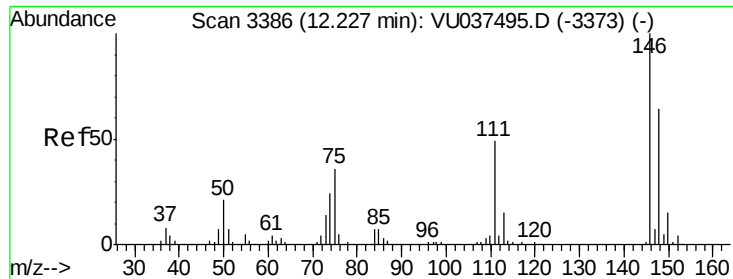
Tot Ion:146 Resp: 65405
 Ion Ratio Lower Upper
 146 100
 111 43.8 31.4 58.2
 148 65.2 44.9 83.5



#63
 1,4-Dichlorobenzene
 Concen: 4.662 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Tgt Ion:146 Resp: 64883
 Ion Ratio Lower Upper
 146 100
 111 47.0 29.7 55.1
 148 65.4 44.4 82.4

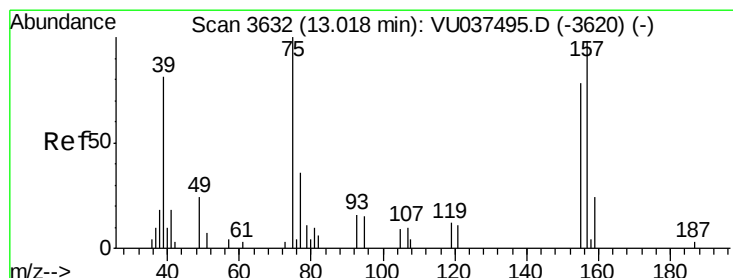
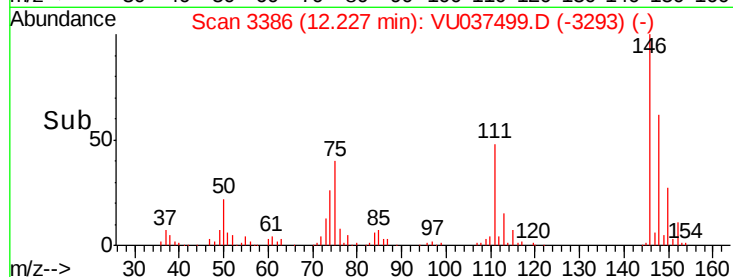
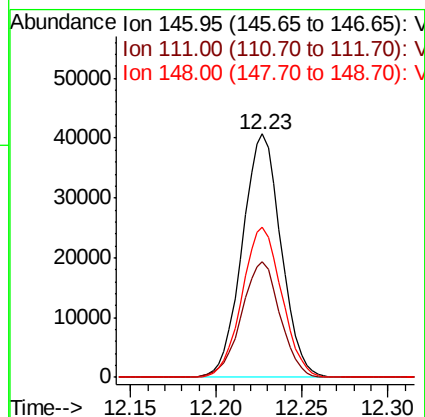
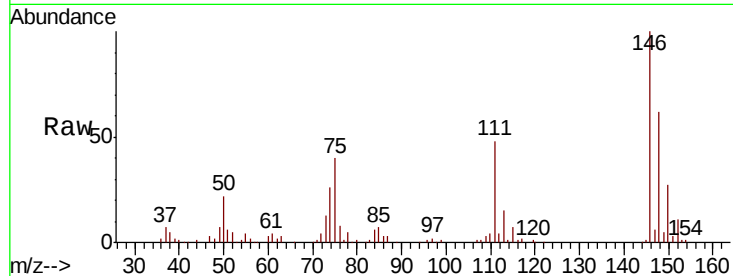




#65
 1,2-Dichlorobenzene
 Concen: 4.910 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

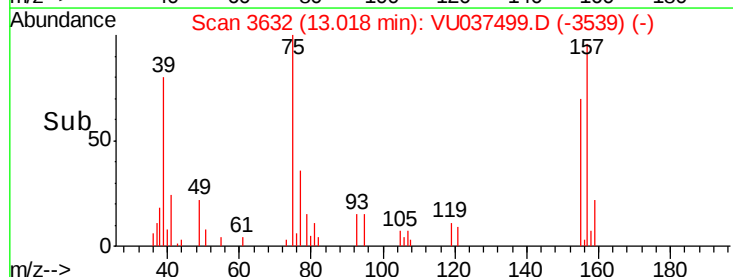
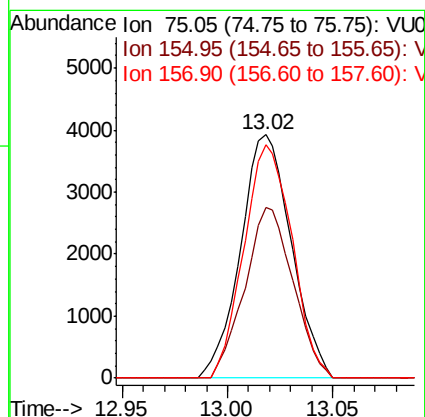
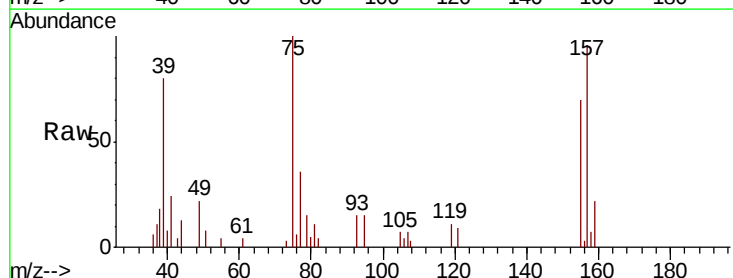
Instrument :
 MSVOA_U
 ClientSampled :

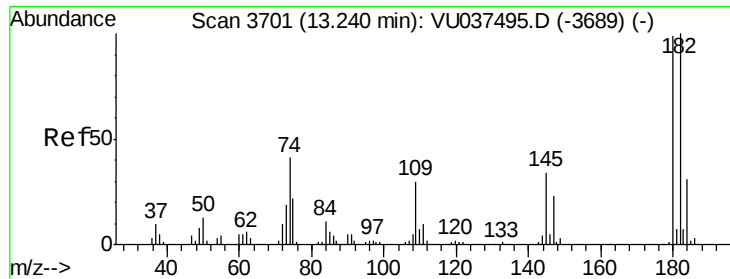
Tot Ion:146 Resp: 63532
 Ion Ratio Lower Upper
 146 100
 111 47.7 38.9 58.3
 148 61.8 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.873 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Tgt Ion: 75 Resp: 6569
 Ion Ratio Lower Upper
 75 100
 155 70.0 62.4 93.6
 157 95.7 78.7 118.1

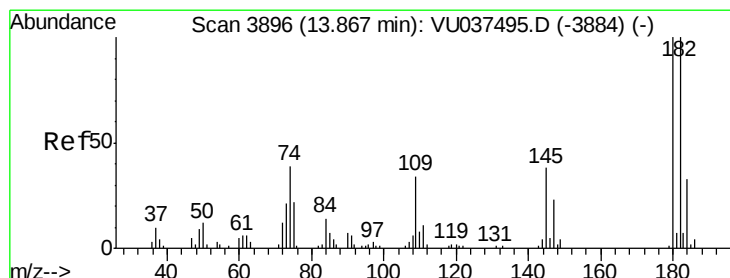
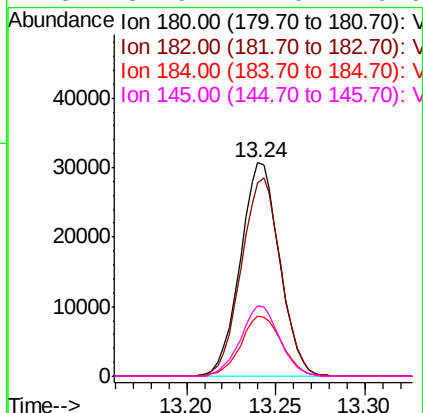
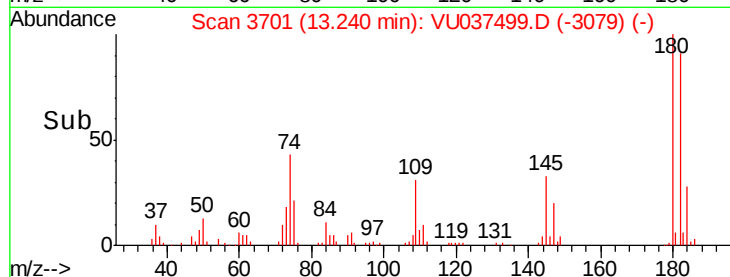
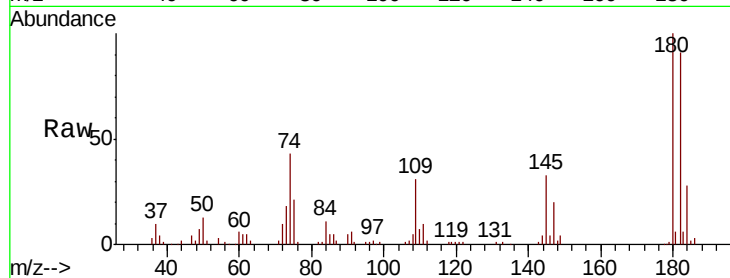




#67
 1,3,5-Trichlorobenzene
 Concen: 4.901 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

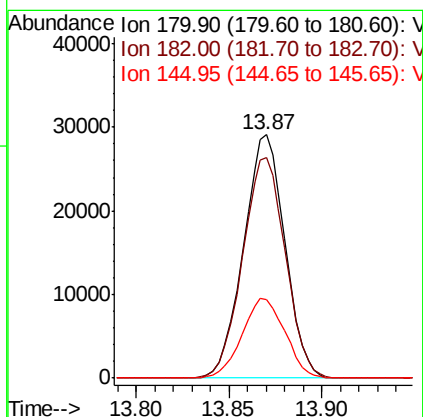
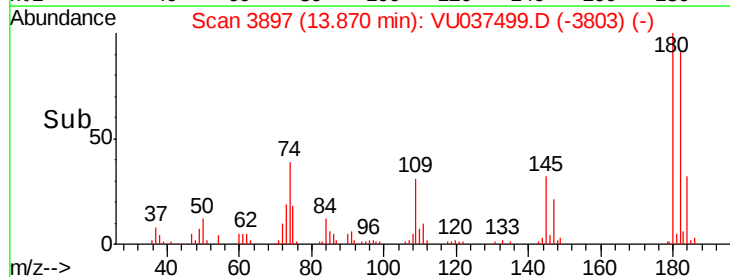
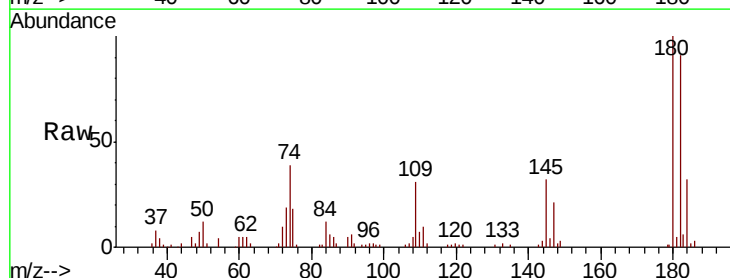
Instrument :
 MSVOA_U
 ClientSampleId :

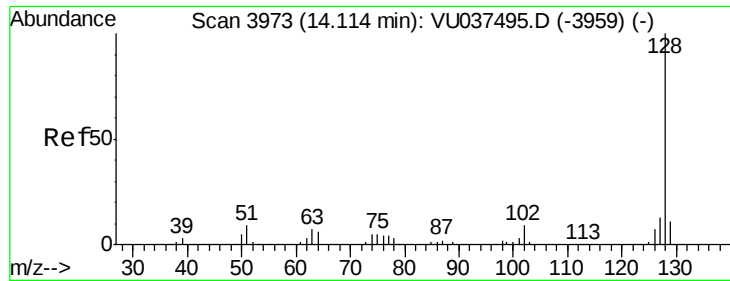
Tot Ion:180 Resp: 47146
 Ion Ratio Lower Upper
 180 100
 182 93.7 77.3 115.9
 184 29.4 25.0 37.4
 145 32.9 27.0 40.6



#68
 1,2,4-trichlorobenzene
 Concen: 4.829 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.00 min
 Lab File: VU037499.D
 Acq: 31 Mar 2020 14:19

Tgt Ion:180 Resp: 44912
 Ion Ratio Lower Upper
 180 100
 182 93.9 80.4 120.6
 145 33.8 28.6 43.0





#69

Naphthalene

Concen: 4.951 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

Instrument :

MSVOA_U

ClientSampled :

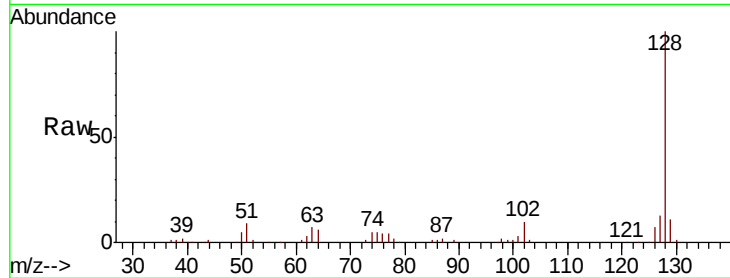
Tot Ion:128 Resp: 105028

Ion Ratio Lower Upper

128 100

129 10.6 8.9 13.3

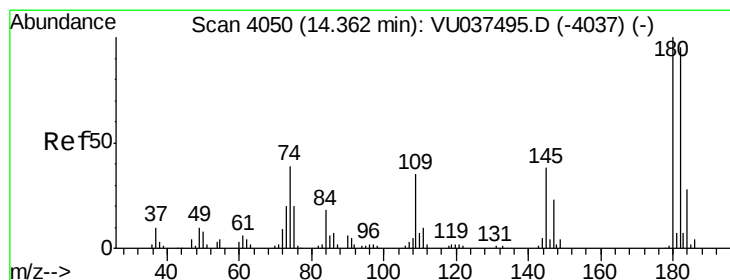
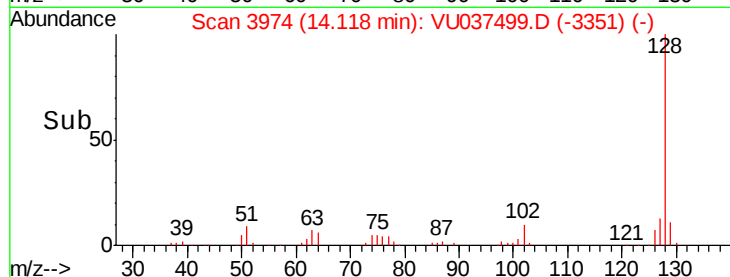
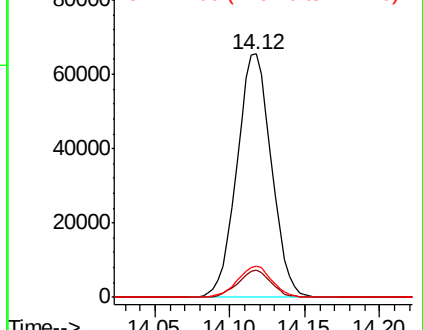
127 12.7 10.2 15.2



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: 4.985 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. -0.00 min

Lab File: VU037499.D

Acq: 31 Mar 2020 14:19

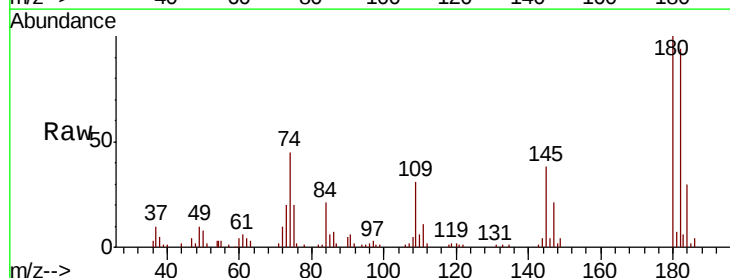
Tgt Ion:180 Resp: 40868

Ion Ratio Lower Upper

180 100

182 93.8 74.7 112.1

145 37.8 30.0 45.0



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

