

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071020\
 Data File : VU039449.D
 Acq On : 10 Jul 2020 22:38
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Quant Time: Jul 11 02:55:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jul 11 02:49:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	95109	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	88776	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	44647	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	25604	4.65	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	93.00%
7) Chloroethane-d5	1.92	69	30882	5.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	109.60%
11) 1,1-Dichloroethene-d2	2.58	63	52610	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.00%
20) 2-Butanone-d5	4.65	46	126631	50.21	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.42%
24) Chloroform-d	5.09	84	55859	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.72	65	34994	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	5.75	84	101429	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
36) 1,2-Dichloropropane-d6	6.70	67	36433	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.91	98	85266	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
43) trans-1,3-Dichloropropene-	8.19	79	15668	4.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.60%
46) 2-Hexanone-d5	8.64	63	98158	49.90	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.80%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	37215	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	38885	4.88	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	33549	5.820	ug/L 100
3) Chloromethane	1.53	50	33791	4.838	ug/L 98
5) Vinyl chloride	1.61	62	39609	5.108	ug/L 95
6) Bromomethane	1.87	94	19106	5.721	ug/L 94
8) Chloroethane	1.94	64	33035	5.896	ug/L 92
9) Trichlorofluoromethane	2.15	101	66759	4.958	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	30374	5.497	ug/L 99
12) 1,1-Dichloroethene	2.59	96	27783	4.912	ug/L 89
13) Acetone	2.66	43	66461	48.818	ug/L 96
14) Carbon disulfide	2.81	76	91117	4.573	ug/L 98
15) Methyl Acetate	2.97	43	17519	4.872	ug/L 93
16) Methylene chloride	3.06	84	33951	4.772	ug/L 96
17) Methyl tert-butyl Ether	3.38	73	86262	4.840	ug/L 98
18) trans-1,2-Dichloroethene	3.37	96	29293	4.678	ug/L 92
19) 1,1-Dichloroethane	3.89	63	59228	4.834	ug/L 97
21) 2-Butanone	4.73	43	111819	46.017	ug/L 100
22) cis-1,2-Dichloroethene	4.69	96	33671	4.795	ug/L 99

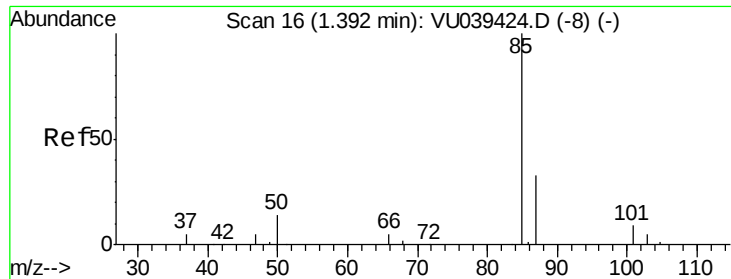
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071020\
 Data File : VU039449.D
 Acq On : 10 Jul 2020 22:38
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	14679	4.602	ug/L	94
25) Chloroform	5.11	83	63439	5.127	ug/L	98
27) 1,2-Dichloroethane	5.81	62	46037	5.144	ug/L	100
29) 1,1,1-Trichloroethane	5.33	97	53621	5.128	ug/L	98
30) Cyclohexane	5.40	56	56060	5.093	ug/L	96
31) Carbon tetrachloride	5.54	117	44259	4.961	ug/L	98
33) Benzene	5.79	78	131241	4.945	ug/L	100
34) Trichloroethene	6.56	95	33806	4.927	ug/L	97
35) Methylcyclohexane	6.77	83	54580	4.965	ug/L	98
37) 1,2-Dichloropropane	6.81	63	34480	4.765	ug/L	100
38) Bromodichloromethane	7.12	83	44411	4.807	ug/L	96
39) cis-1,3-Dichloropropene	7.62	75	51271	4.688	ug/L	98
40) 4-Methyl-2-pentanone	7.80	43	286271	47.428	ug/L	97
42) Toluene	7.98	91	140886	4.957	ug/L	99
44) trans-1,3-Dichloropropene	8.22	75	44688	4.605	ug/L	97
45) 1,1,2-Trichloroethane	8.41	97	25420	4.891	ug/L	96
47) Tetrachloroethene	8.56	164	23150	4.850	ug/L	99
48) 2-Hexanone	8.69	43	209118	46.988	ug/L	99
49) Dibromochloromethane	8.82	129	30337	4.819	ug/L	93
50) 1,2-Dibromoethane	8.93	107	25125	4.759	ug/L #	97
51) Chlorobenzene	9.45	112	85156	4.903	ug/L	98
52) Ethylbenzene	9.57	91	155940	4.965	ug/L	100
53) m,p-Xylene	9.70	106	57790	4.883	ug/L	99
54) o-Xylene	10.10	106	56219	4.879	ug/L	98
55) Styrene	10.12	104	94490	4.713	ug/L	99
56) Isopropylbenzene	10.48	105	151469	4.861	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.78	83	33812	4.674	ug/L	95
59) 1,2,3-Trichloropropane	10.83	75	24762	4.644	ug/L	96
61) Bromoform	10.29	173	16197	4.304	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	65611	4.690	ug/L	94
63) 1,4-Dichlorobenzene	11.83	146	65071	4.636	ug/L	97
65) 1,2-Dichlorobenzene	12.21	146	64621	4.608	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.99	75	5385	4.346	ug/L	91
67) 1,3,5-Trichlorobenzene	13.21	180	48397	4.623	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	41463	4.628	ug/L	98
69) Naphthalene	14.08	128	75374	4.181	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	38250	4.608	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 5.820 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

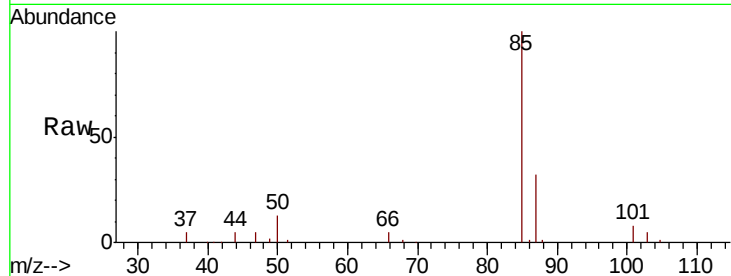
VSTD00515

Tot Ion: 85 Resp: 33549

Ion Ratio Lower Upper

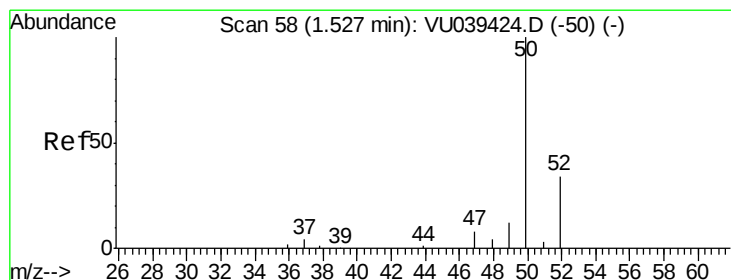
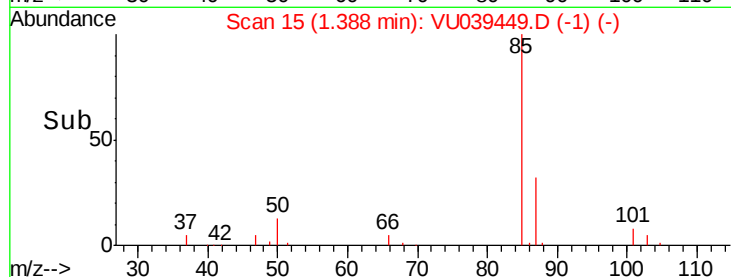
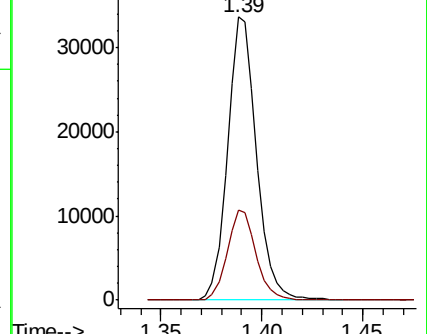
85 100

87 31.4 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU039424.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039424.D (-8) (-)



#3

Chloromethane

Concen: 4.838 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039449.D

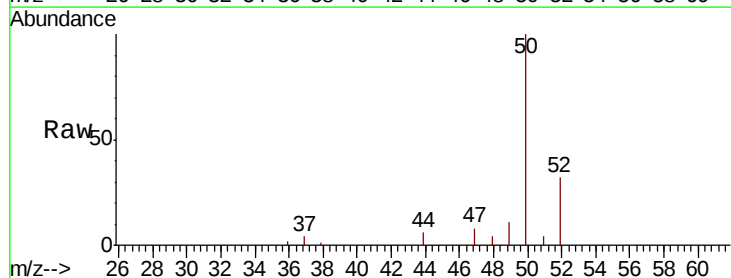
Acq: 10 Jul 2020 22:38

Tgt Ion: 50 Resp: 33791

Ion Ratio Lower Upper

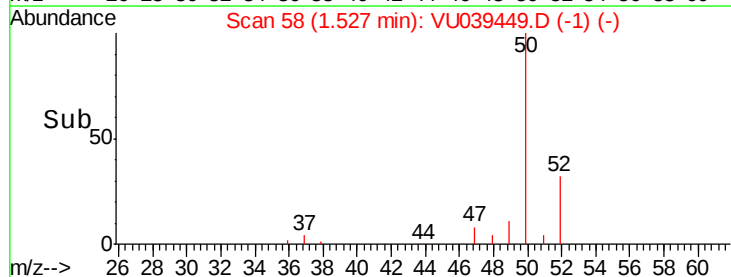
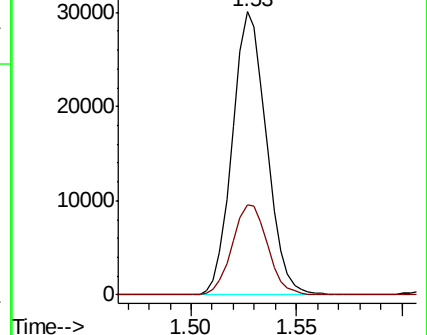
50 100

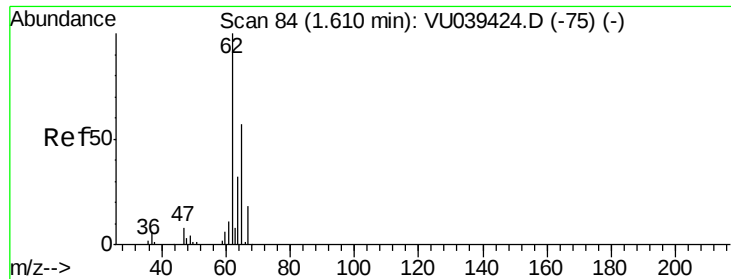
52 31.9 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU039424.D (-50) (-)

Ion 52.05 (51.75 to 52.75): VU039424.D (-50) (-)





#5

Vinyl chloride

Concen: 5.108 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

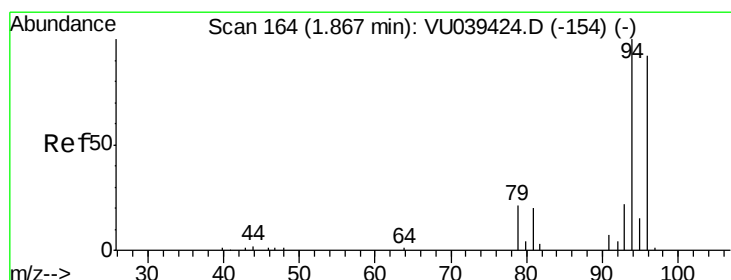
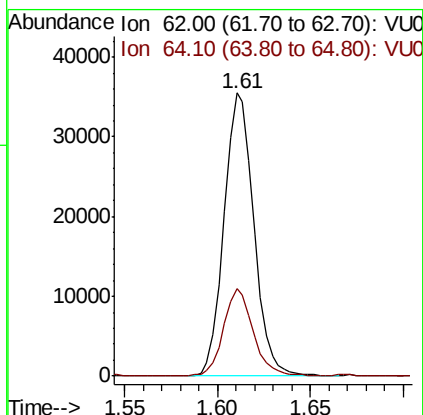
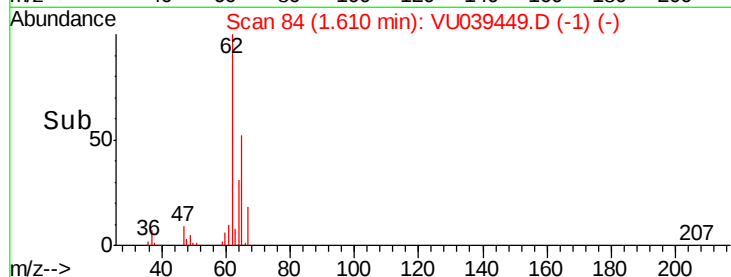
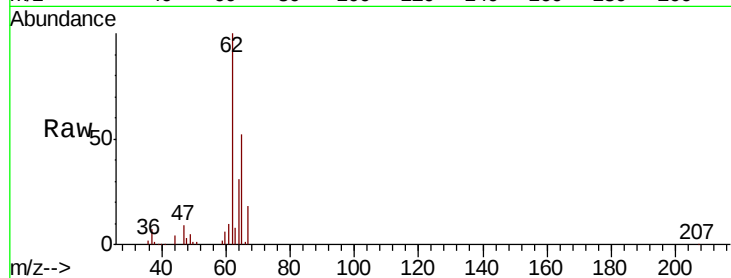
VSTD00515

Tot Ion: 62 Resp: 39609

Ion Ratio Lower Upper

62 100

64 30.8 23.7 44.1



#6

Bromomethane

Concen: 5.721 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU039449.D

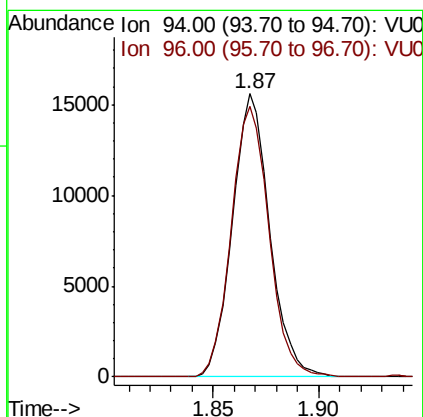
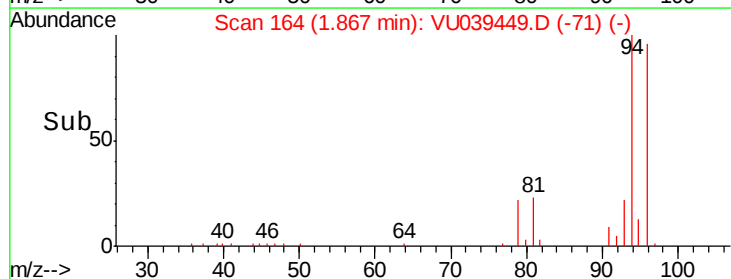
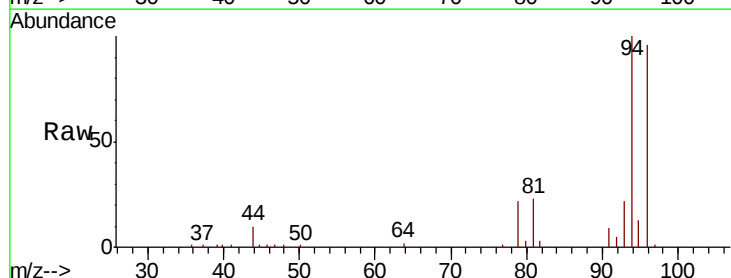
Acq: 10 Jul 2020 22:38

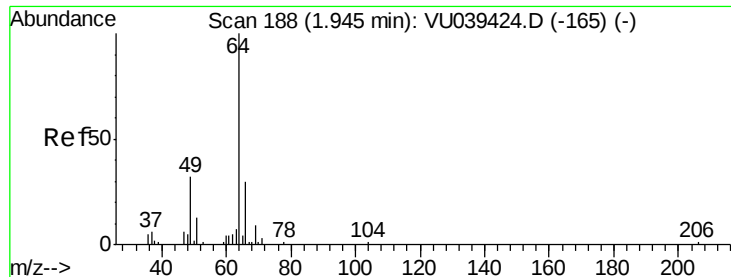
Tgt Ion: 94 Resp: 19106

Ion Ratio Lower Upper

94 100

96 95.5 62.7 116.5

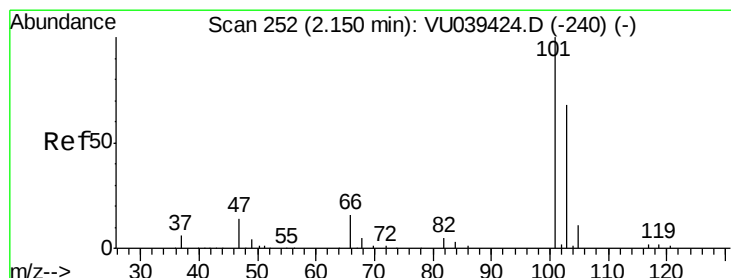
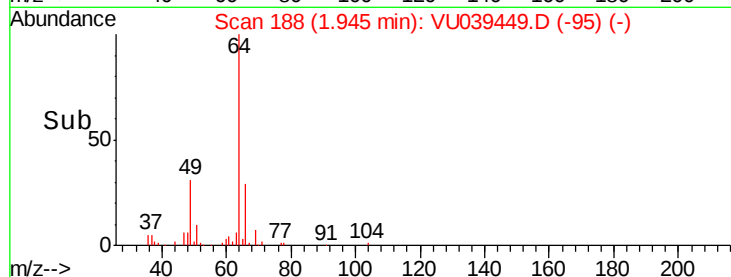
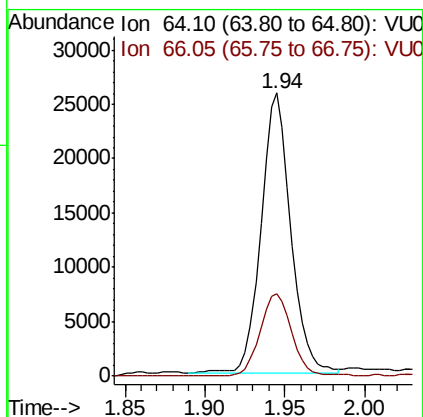
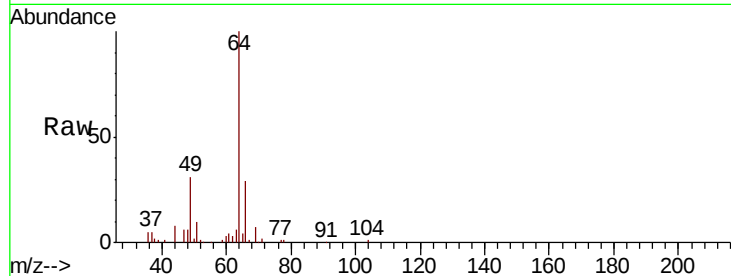




#8
Chloroethane
Concen: 5.896 ug/L
RT: 1.94 min Scan# 188
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

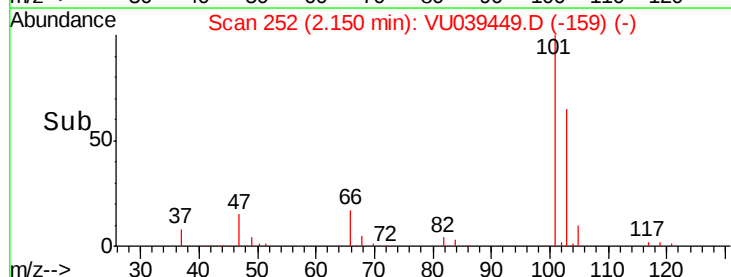
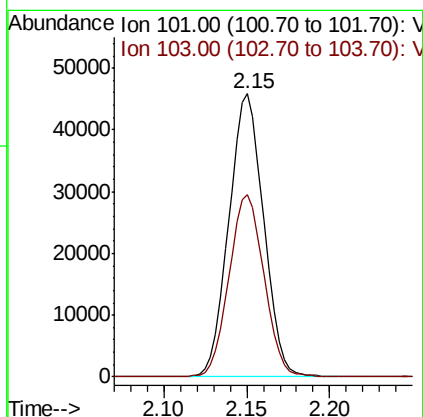
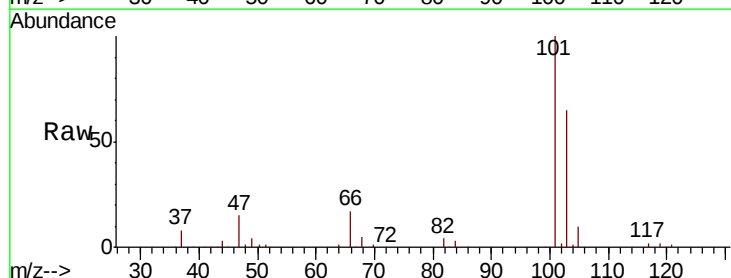
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

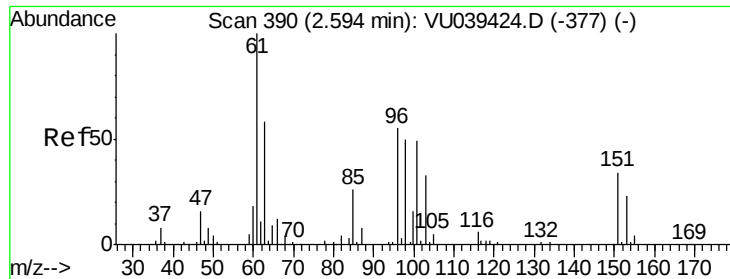
Tot Ion: 64 Resp: 33035
Ion Ratio Lower Upper
64 100
66 29.2 23.5 43.7



#9
Trichlorofluoromethane
Concen: 4.958 ug/L
RT: 2.15 min Scan# 252
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Tgt Ion: 101 Resp: 66759
Ion Ratio Lower Upper
101 100
103 65.0 50.6 76.0





#10

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

Concen: 5.497 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

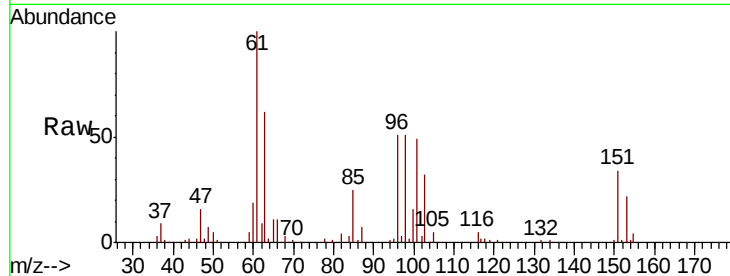
Tot Ion:101 Resp: 30374

Ion Ratio Lower Upper

101 100

85 49.6 38.9 58.3

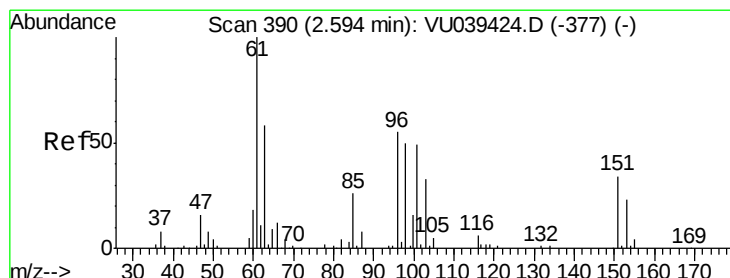
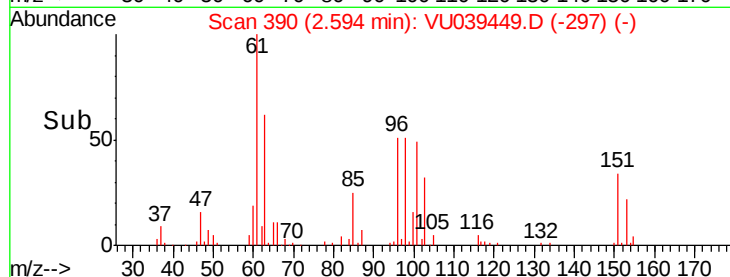
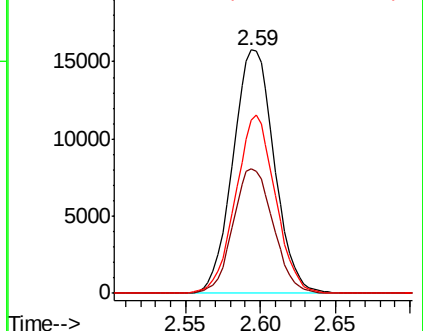
151 70.2 57.0 85.4



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: 4.912 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

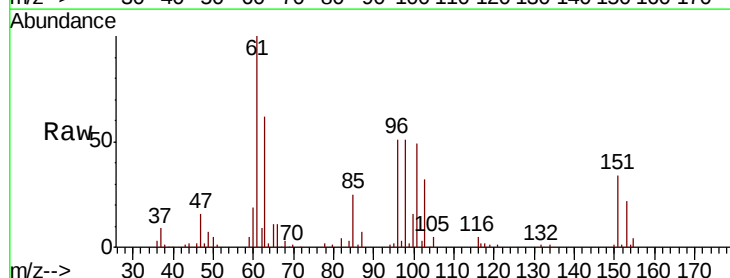
Tgt Ion: 96 Resp: 27783

Ion Ratio Lower Upper

96 100

61 196.9 125.4 232.8

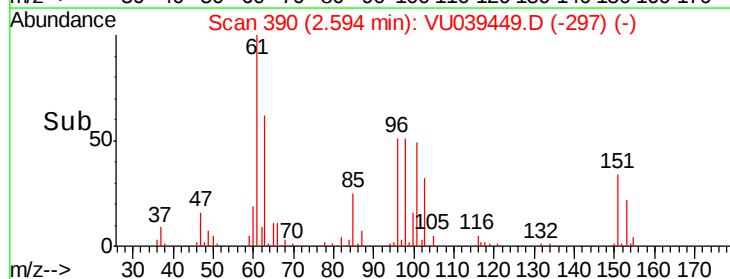
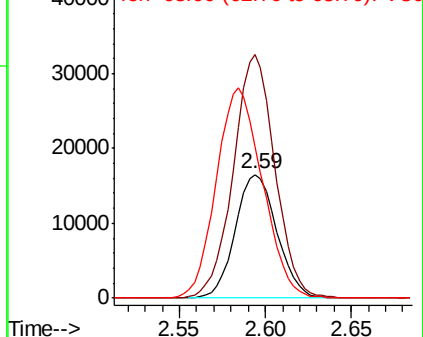
63 122.0 92.7 172.3

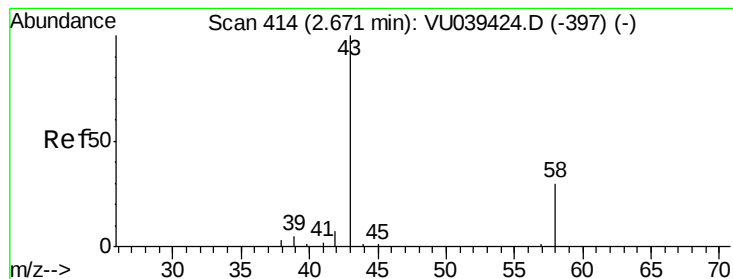


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 48.818 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.02 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

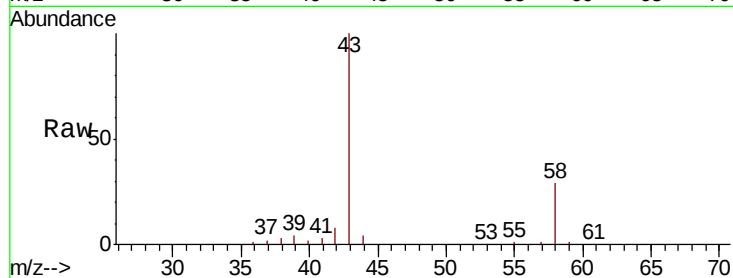
VSTD00515

Tot Ion: 43 Resp: 66461

Ion Ratio Lower Upper

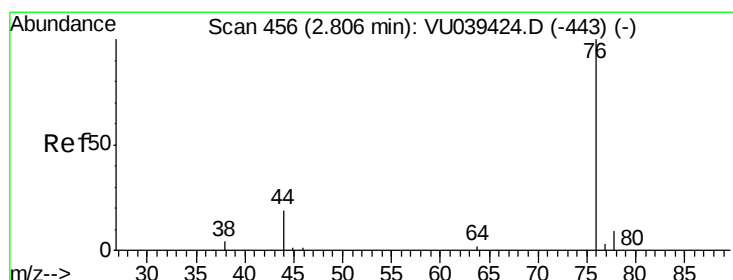
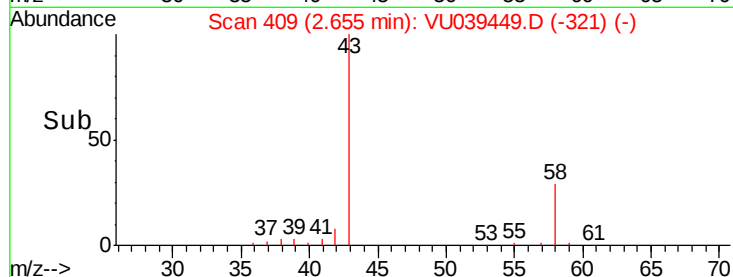
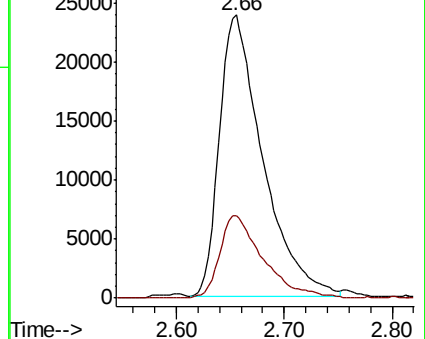
43 100

58 29.4 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU039424.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU039424.D (-397) (-)



#14

Carbon disulfide

Concen: 4.573 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU039449.D

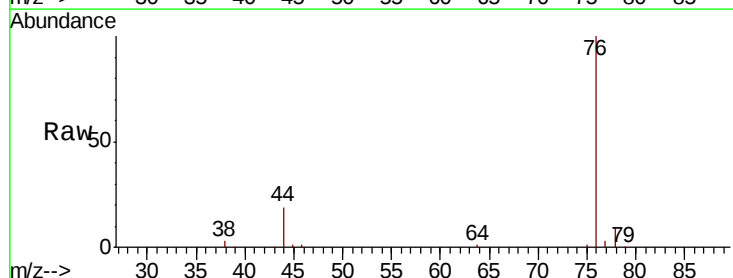
Acq: 10 Jul 2020 22:38

Tgt Ion: 76 Resp: 91117

Ion Ratio Lower Upper

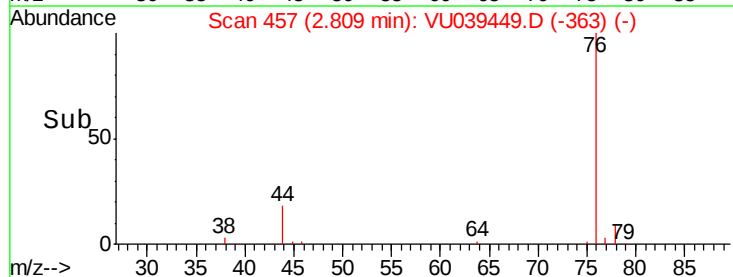
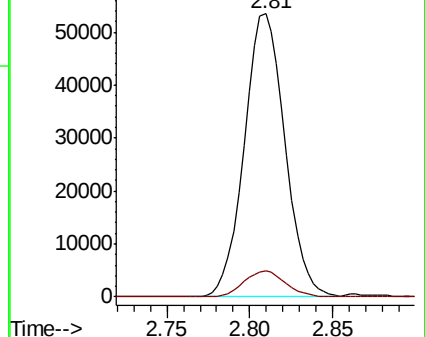
76 100

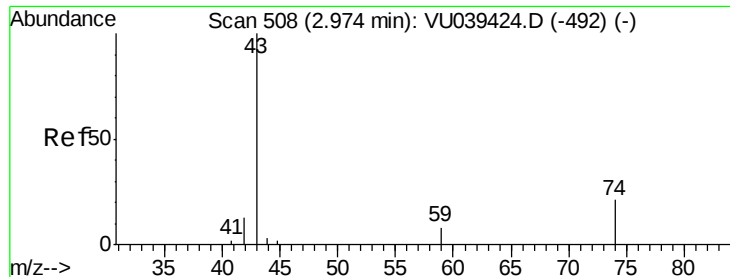
78 9.3 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU039424.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU039424.D (-443) (-)

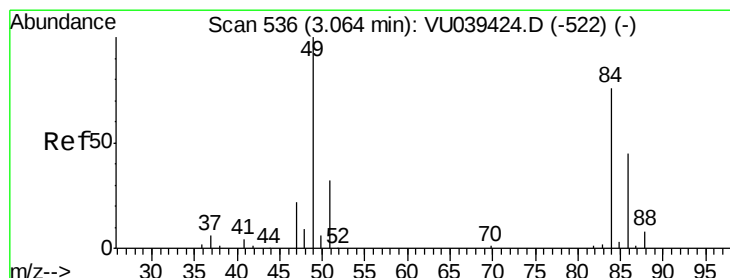
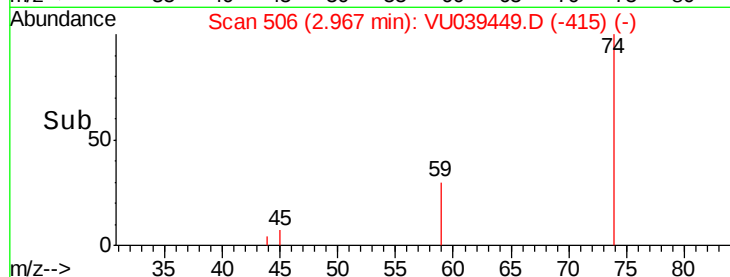
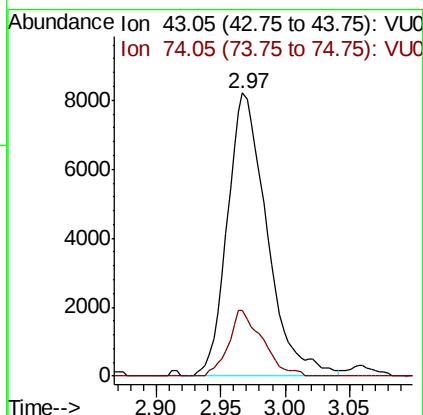
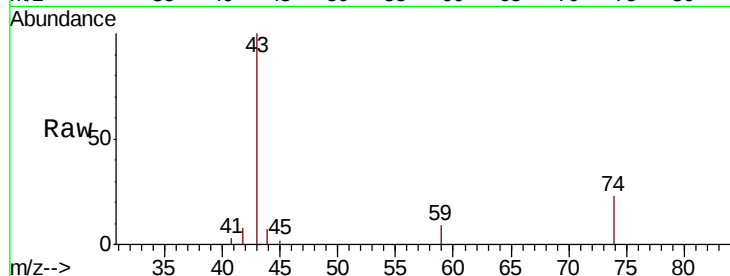




#15
Methvl Acetate
Concen: 4.872 ug/L
RT: 2.97 min Scan# 506
Delta R.T. -0.01 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

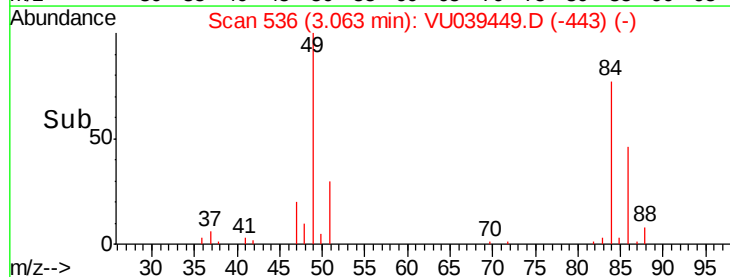
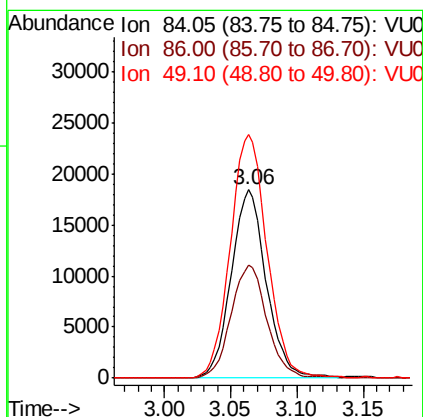
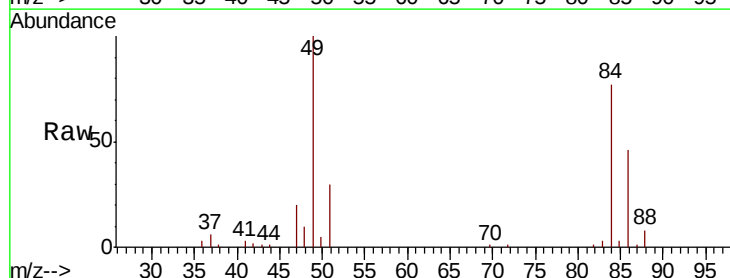
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

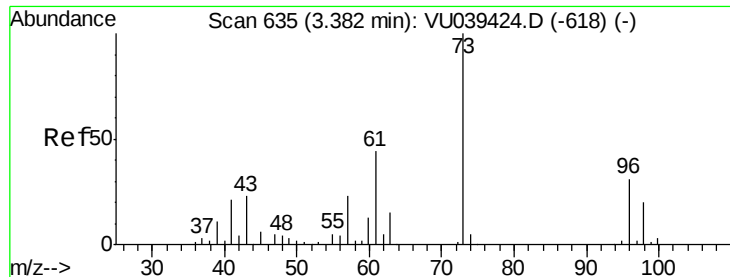
Tot Ion: 43 Resp: 17519
Ion Ratio Lower Upper
43 100
74 19.9 18.7 28.1



#16
Methylene chloride
Concen: 4.772 ug/L
RT: 3.06 min Scan# 536
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Tgt Ion: 84 Resp: 33951
Ion Ratio Lower Upper
84 100
86 59.8 43.5 80.9
49 135.7 91.1 169.1

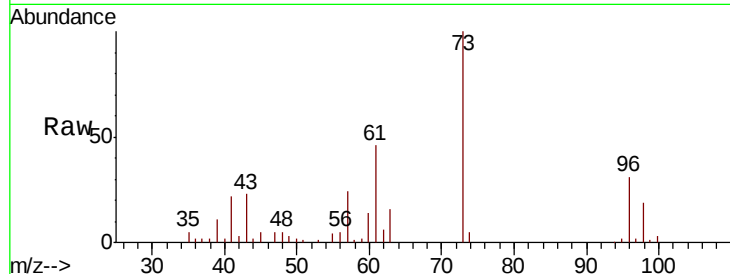




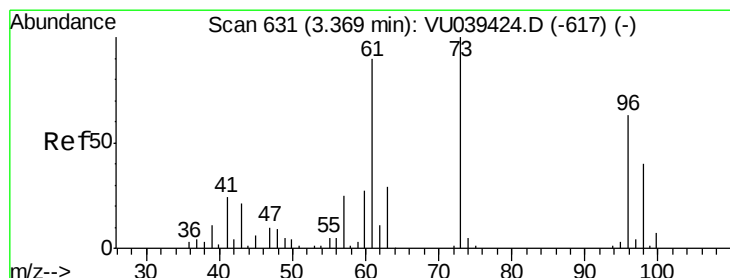
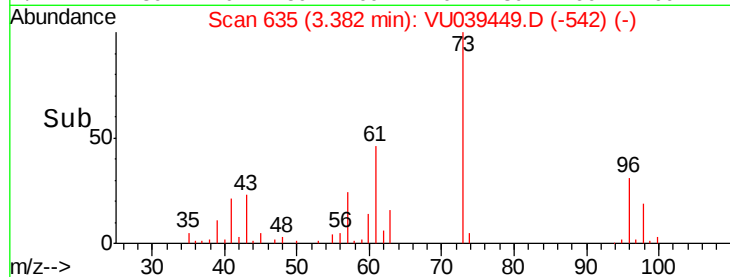
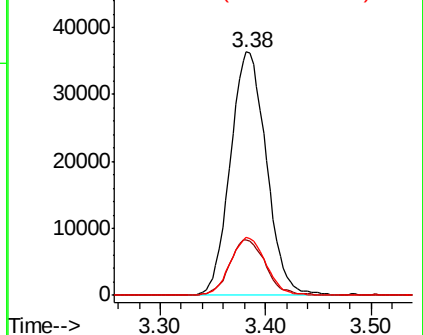
#17
Methvl tert-butvl Ether
Concen: 4.840 ug/L
RT: 3.38 min Scan# 635
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

Tot Ion: 73 Resp: 86262
Ion Ratio Lower Upper
73 100
43 22.8 18.6 28.0
57 23.4 17.9 26.9

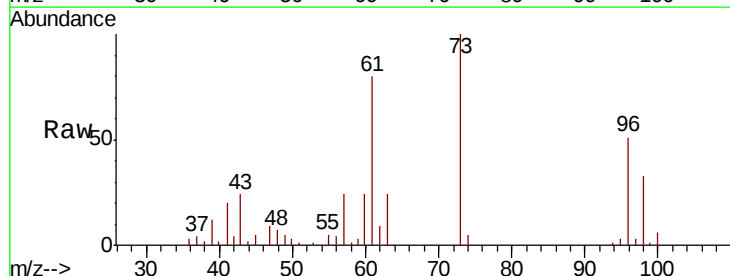


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

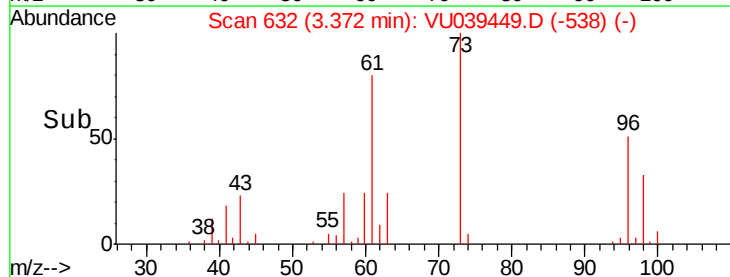
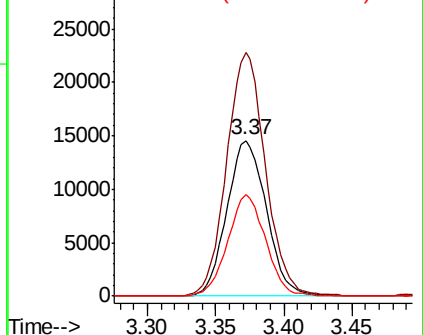


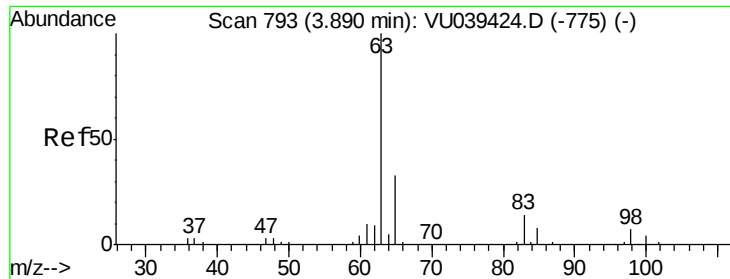
#18
trans-1,2-Dichloroethene
Concen: 4.678 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Tgt Ion: 96 Resp: 29293
Ion Ratio Lower Upper
96 100
61 156.3 102.1 189.5
98 65.0 42.5 78.9



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

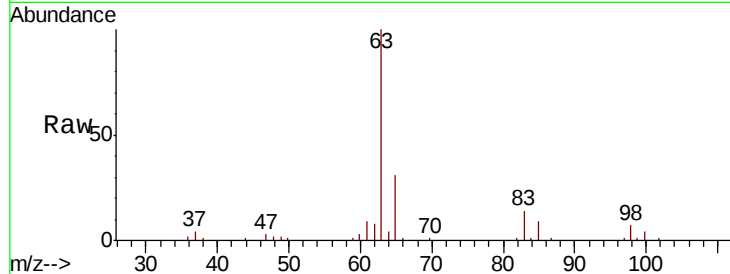




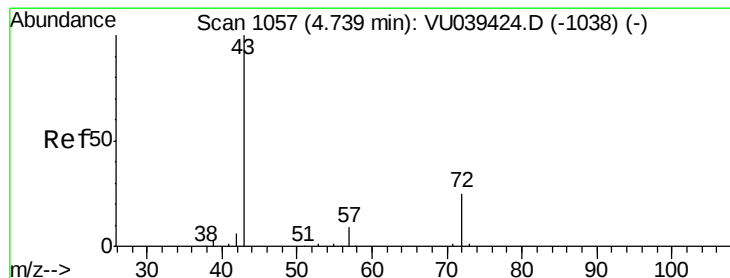
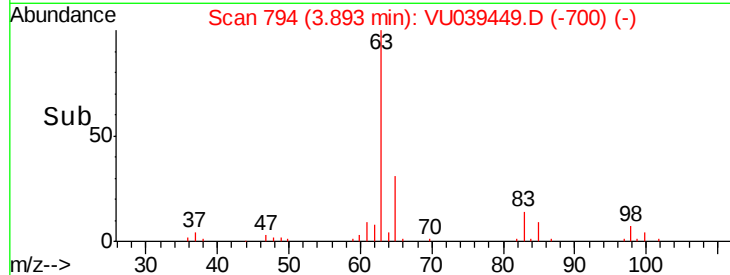
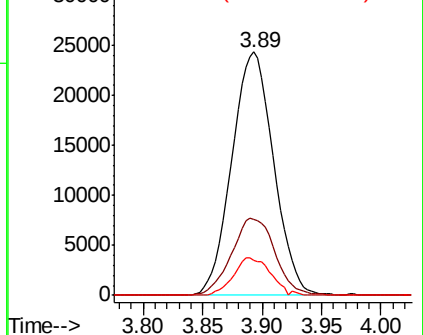
#19
 1,1-Dichloroethane
 Concen: 4.834 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion: 63 Resp: 59228
 Ion Ratio Lower Upper
 63 100
 65 31.1 23.0 42.6
 83 14.5 9.6 17.8

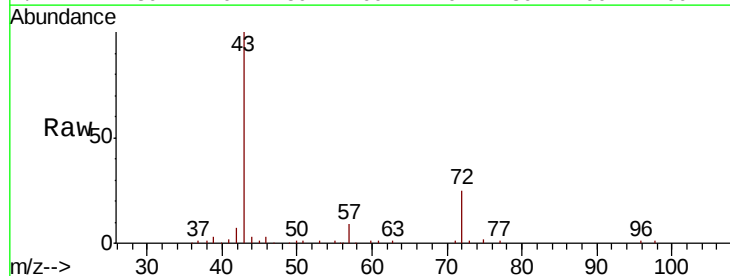


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

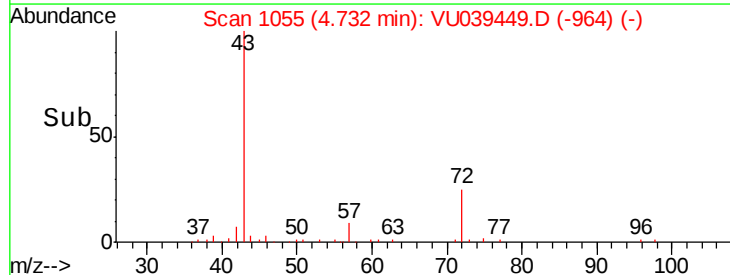
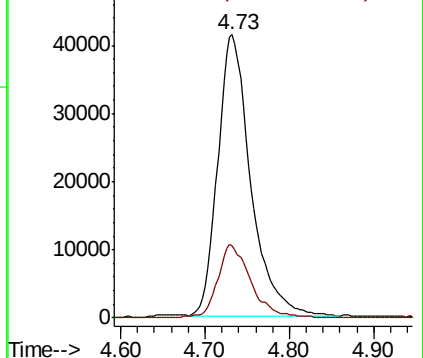


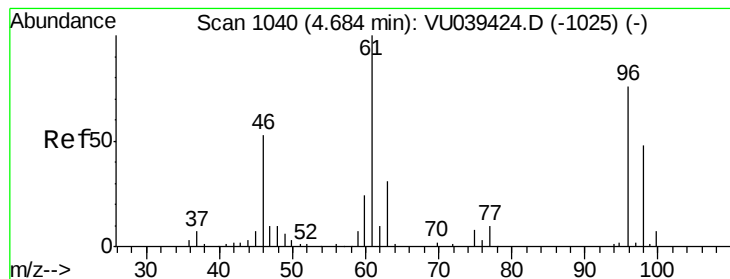
#21
 2-Butanone
 Concen: 46.017 ug/L
 RT: 4.73 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion: 43 Resp: 111819
 Ion Ratio Lower Upper
 43 100
 72 26.3 13.2 39.5



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: 4.795 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

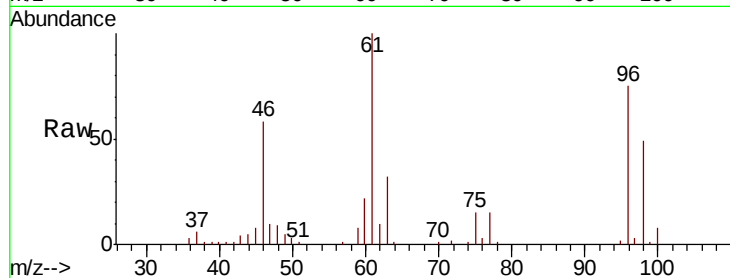
Tot Ion: 96 Resp: 33671

Ion Ratio Lower Upper

96 100

61 133.9 92.8 172.4

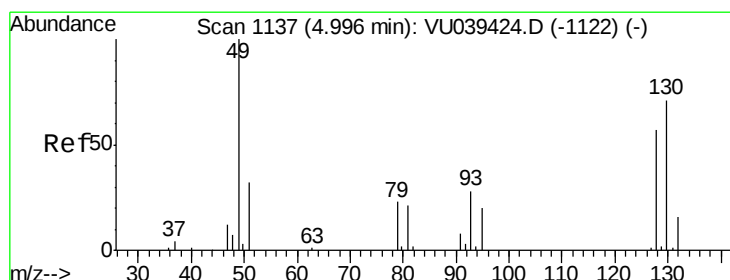
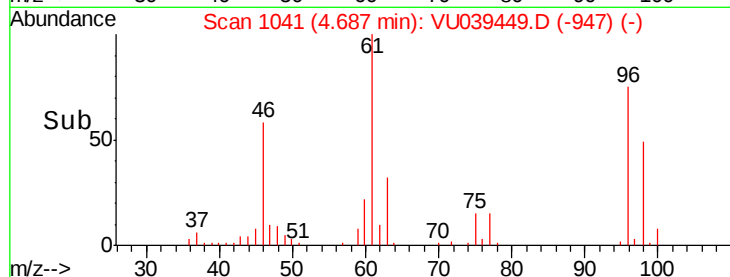
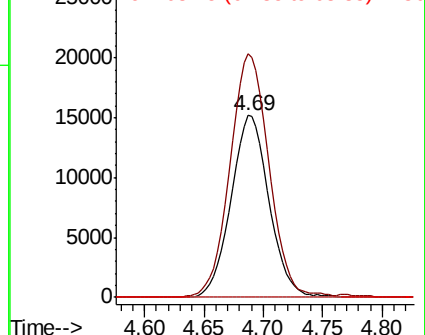
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039424.D (-1025) (-)

Ion 61.05 (60.75 to 61.75): VU039424.D (-1025) (-)

Ion 68.15 (67.85 to 68.85): VU039424.D (-1025) (-)



#23

Bromochloromethane

Concen: 4.602 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Tgt Ion: 128 Resp: 14679

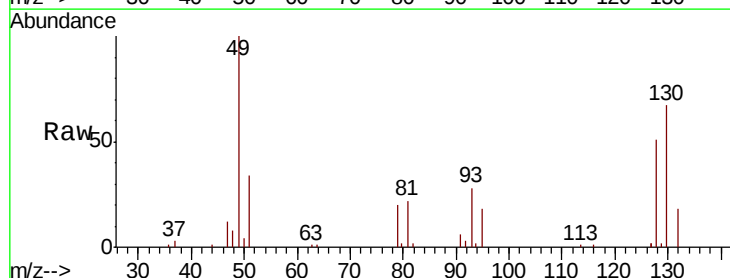
Ion Ratio Lower Upper

128 100

49 195.4 128.5 238.7

130 130.0 91.5 169.9

51 66.7 47.0 70.6

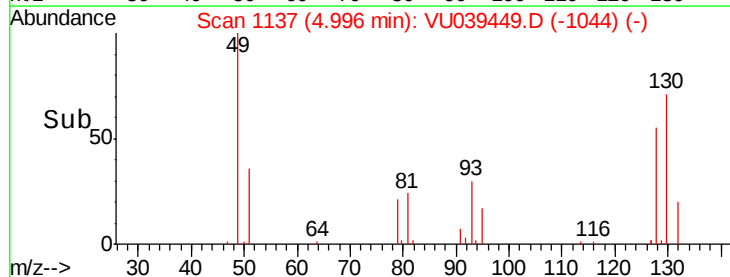
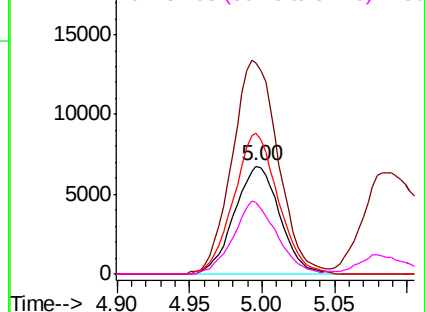


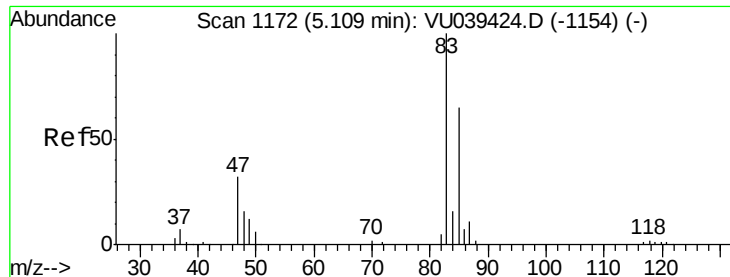
Abundance Ion 127.90 (127.60 to 128.60): VU039424.D (-1122) (-)

Ion 49.10 (48.80 to 49.80): VU039424.D (-1122) (-)

Ion 129.95 (129.65 to 130.65): VU039424.D (-1122) (-)

Ion 51.05 (50.75 to 51.75): VU039424.D (-1122) (-)

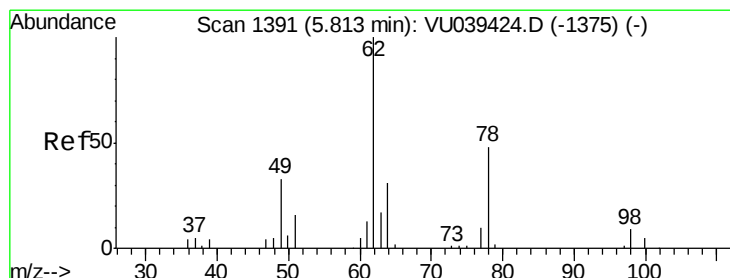
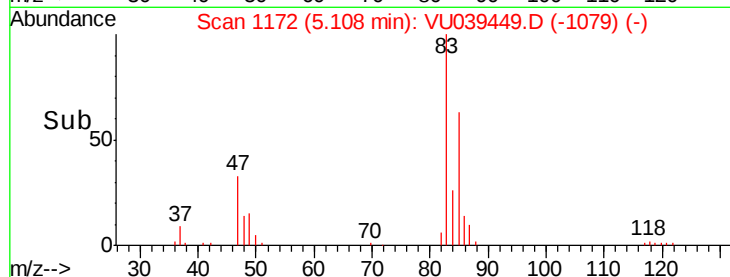
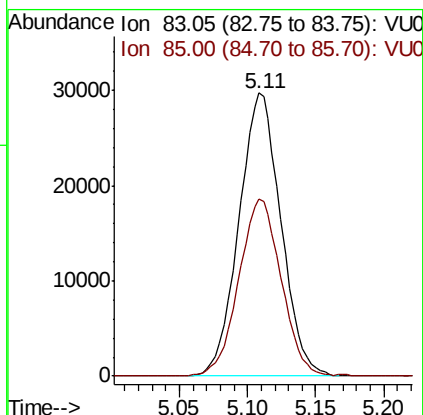
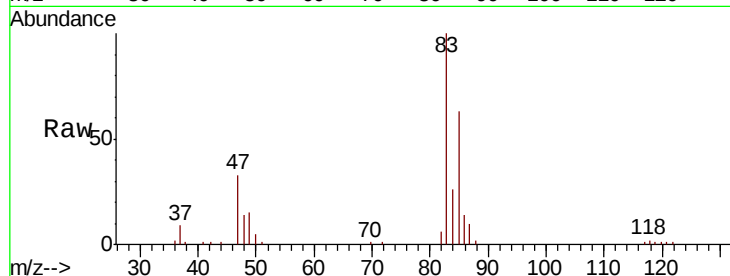




#25
Chloroform
Concen: 5.127 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

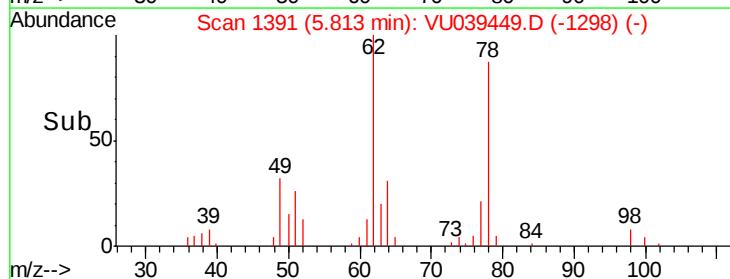
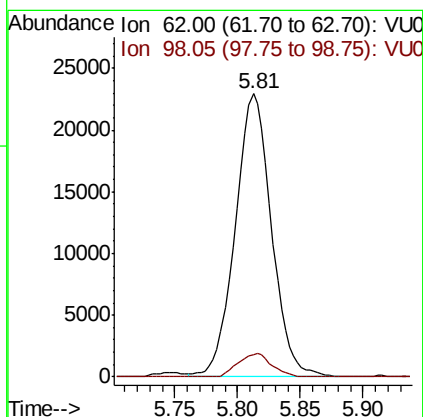
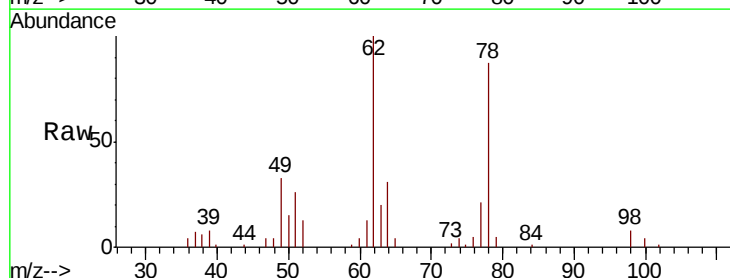
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

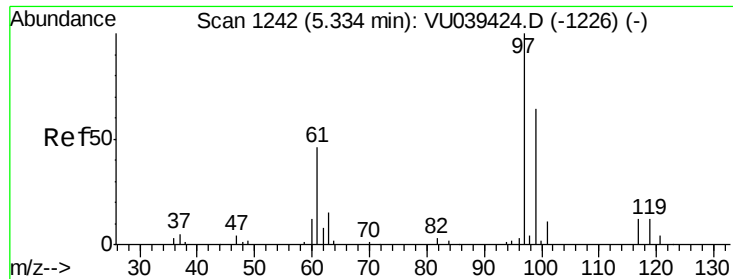
Tot Ion: 83 Resp: 63439
Ion Ratio Lower Upper
83 100
85 62.8 44.9 83.5



#27
1,2-Dichloroethane
Concen: 5.144 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Tgt Ion: 62 Resp: 46037
Ion Ratio Lower Upper
62 100
98 7.8 6.3 9.5

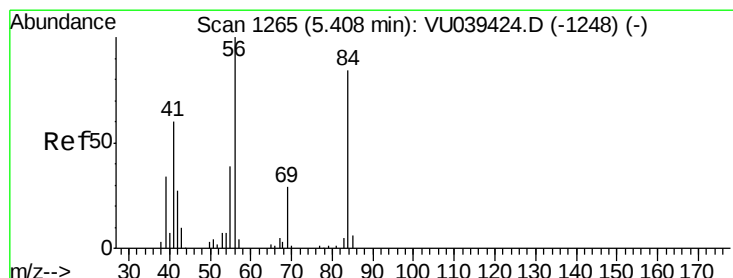
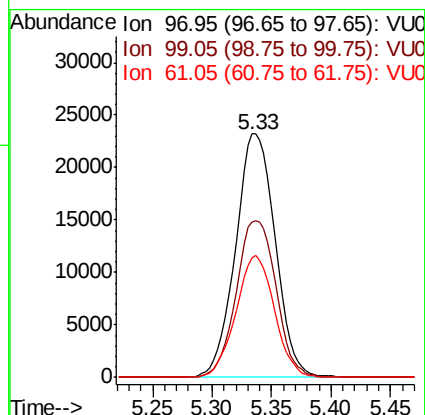
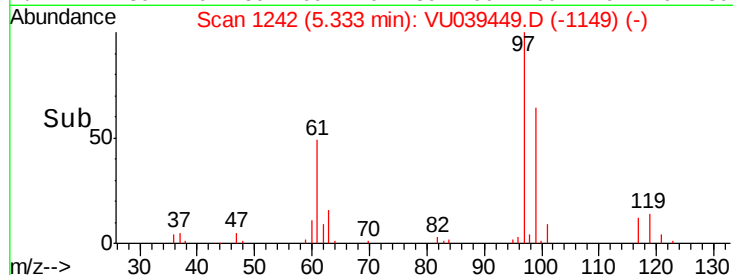
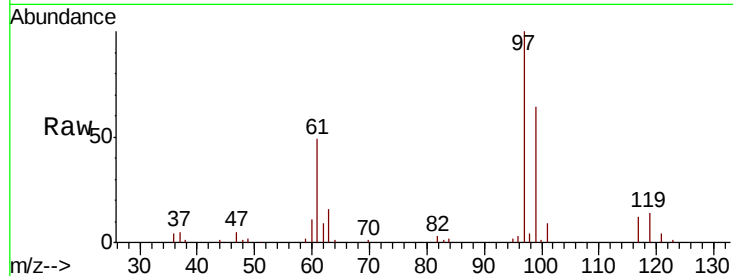




#29
 1,1,1-Trichloroethane
 Concen: 5.128 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

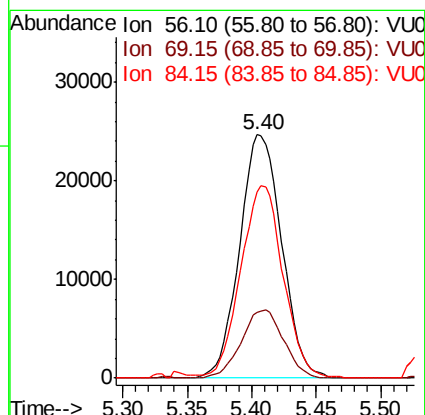
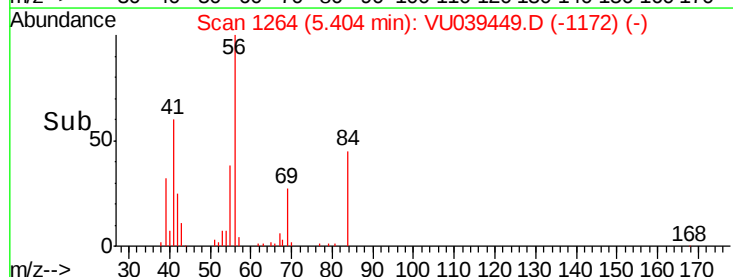
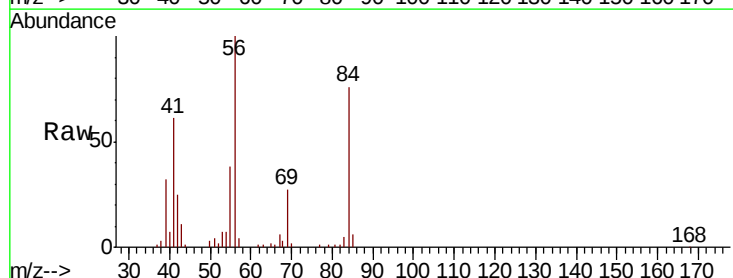
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

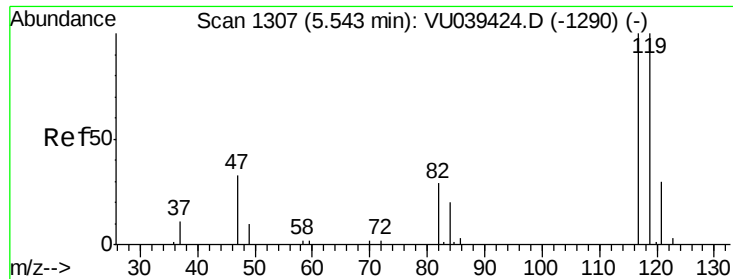
Tot Ion: 97 Resp: 53621
 Ion Ratio Lower Upper
 97 100
 99 64.6 52.6 79.0
 61 48.4 37.9 56.9



#30
 Cyclohexane
 Concen: 5.093 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion: 56 Resp: 56060
 Ion Ratio Lower Upper
 56 100
 69 28.0 24.1 36.1
 84 79.7 67.0 100.6

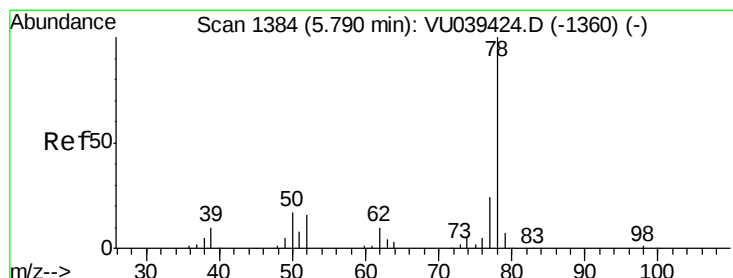
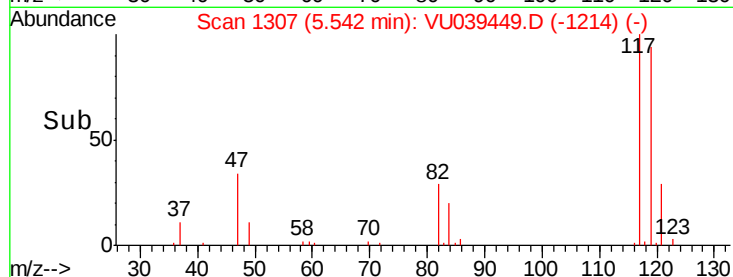
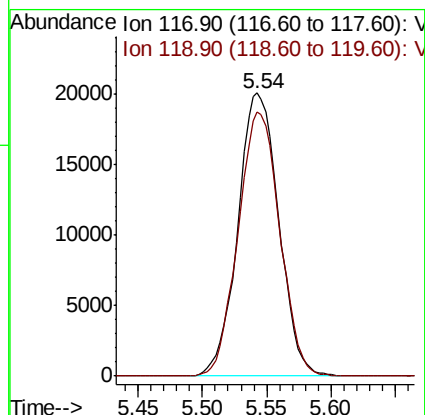
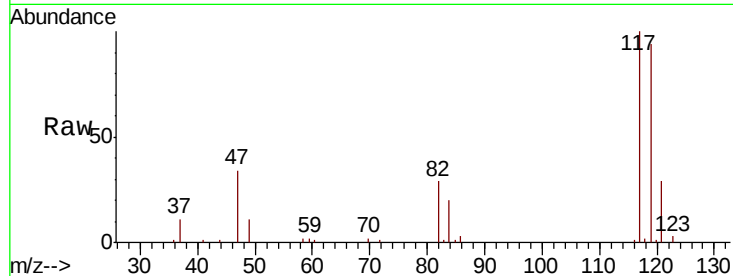




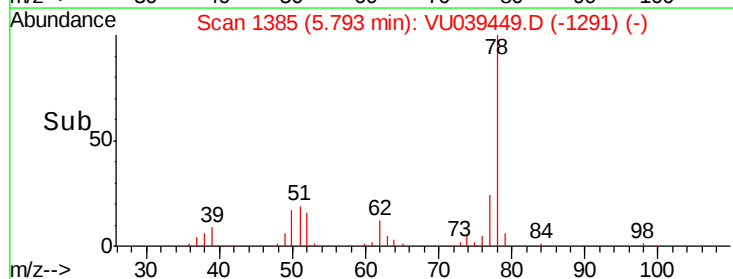
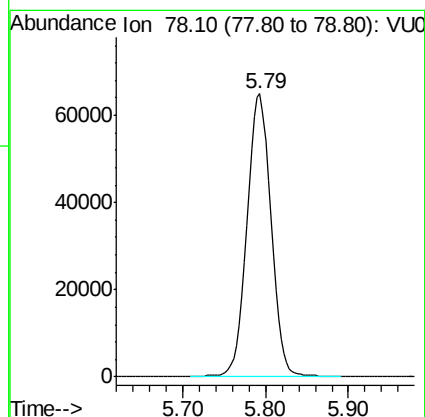
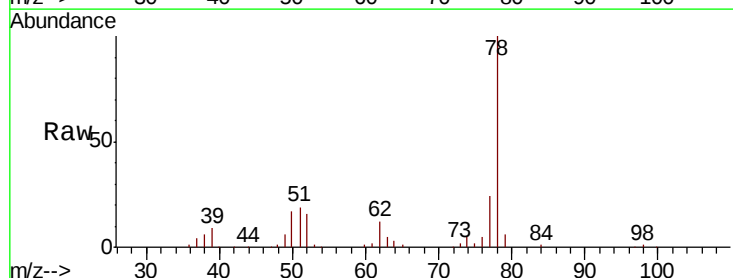
#31
Carbon tetrachloride
Concen: 4.961 ug/L
RT: 5.54 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

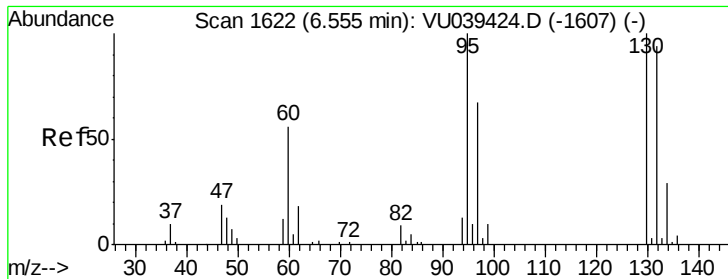
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

Tot Ion:117 Resp: 44259
Ion Ratio Lower Upper
117 100
119 94.8 77.4 116.0



#33
Benzene
Concen: 4.945 ug/L
RT: 5.79 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38
Tgt Ion: 78 Resp: 131241





#34

Trichloroethene

Concen: 4.927 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

Tot Ion: 95 Resp: 33806

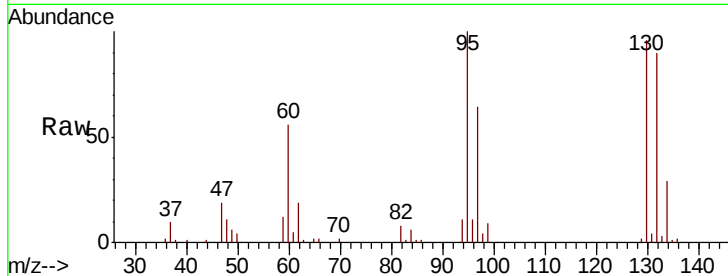
Ion Ratio Lower Upper

95 100

97 63.6 46.3 85.9

132 90.0 64.0 118.8

130 95.8 64.3 119.5

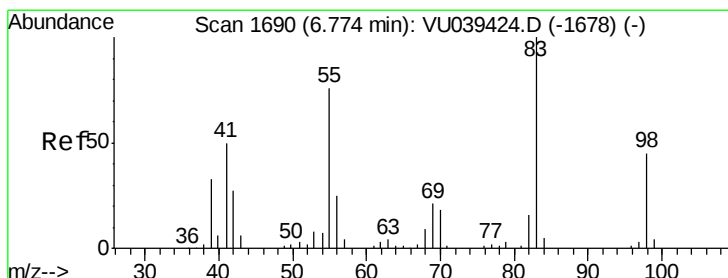
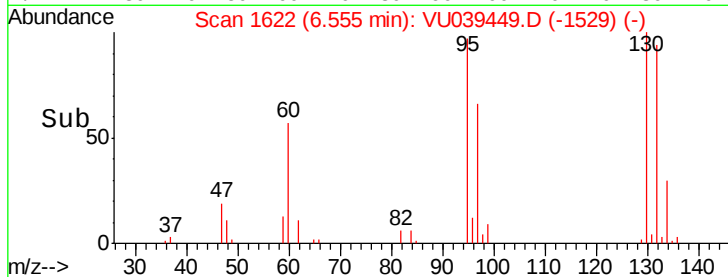
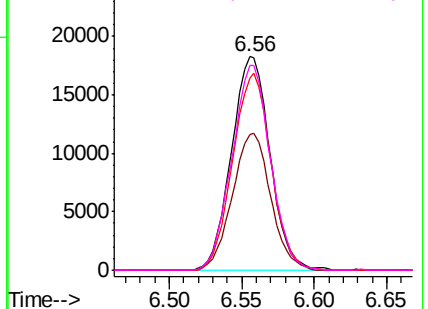


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.965 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

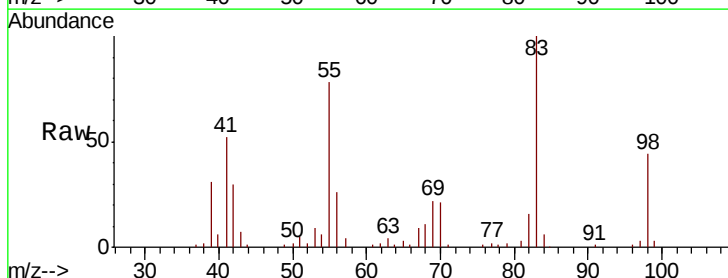
Tgt Ion: 83 Resp: 54580

Ion Ratio Lower Upper

83 100

55 79.8 62.1 93.1

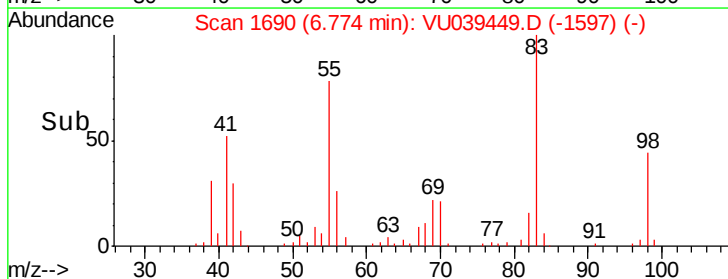
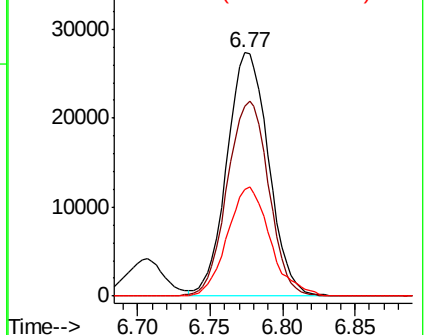
98 46.1 35.9 53.9

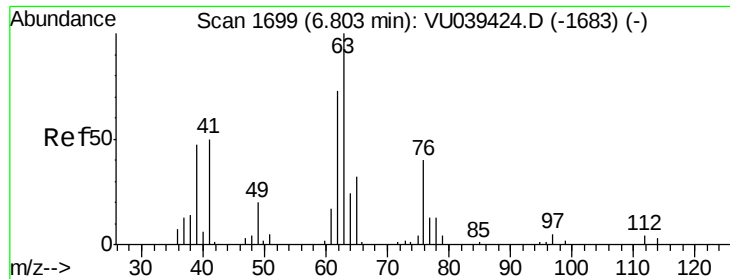


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

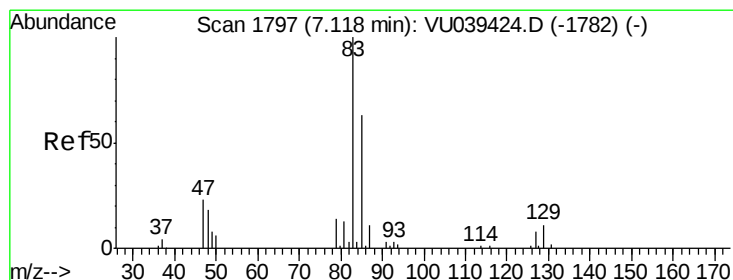
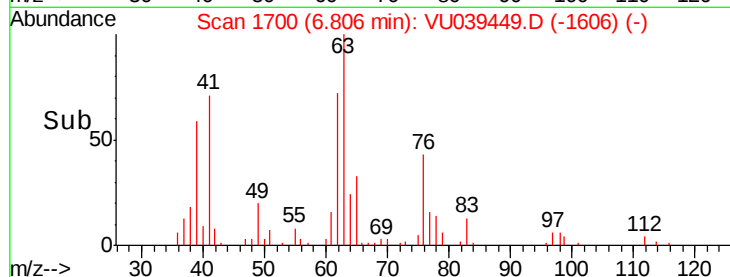
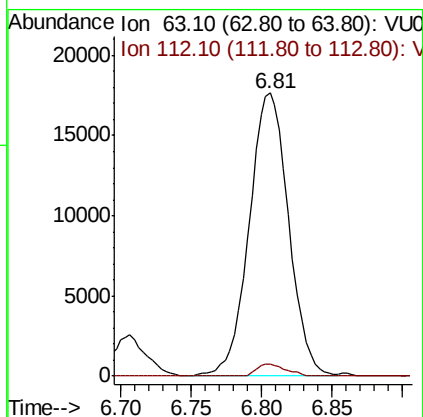
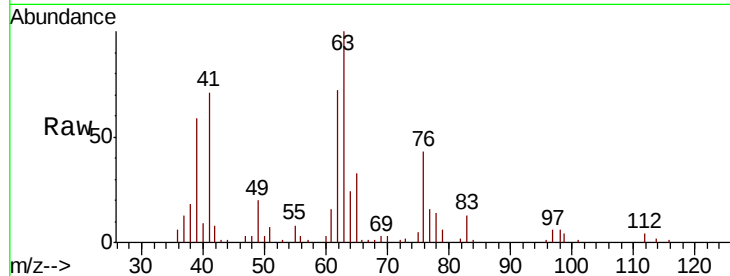




#37
 1,2-Dichloropropane
 Concen: 4.765 ug/L
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

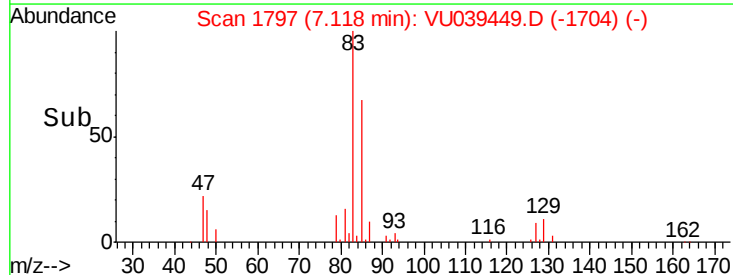
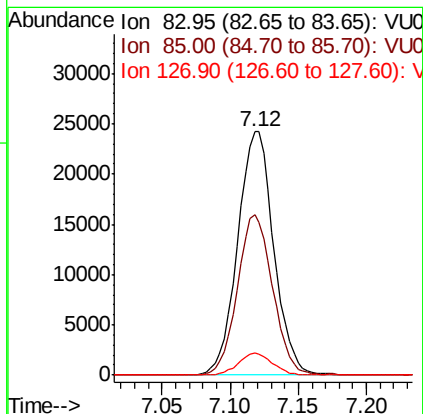
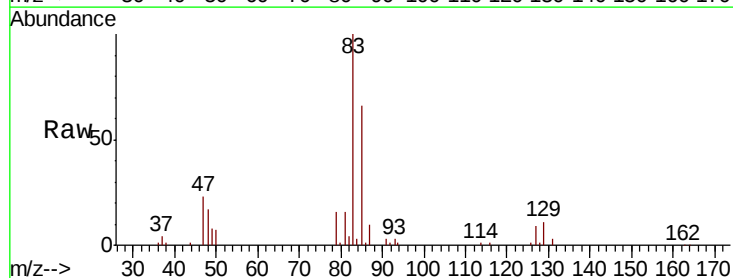
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00515

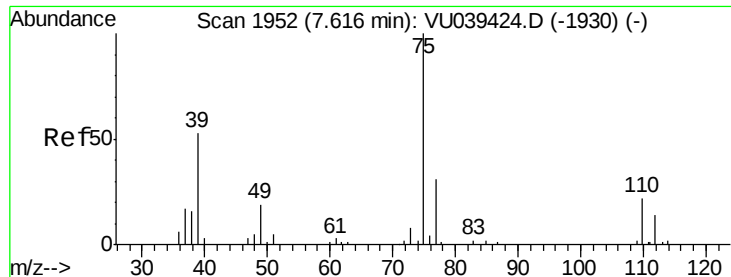
Tot Ion: 63 Resp: 34480
 Ion Ratio Lower Upper
 63 100
 112 3.2 2.5 3.7



#38
 Bromodichloromethane
 Concen: 4.807 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion: 83 Resp: 44411
 Ion Ratio Lower Upper
 83 100
 85 65.7 44.0 81.6
 127 9.3 6.2 9.4

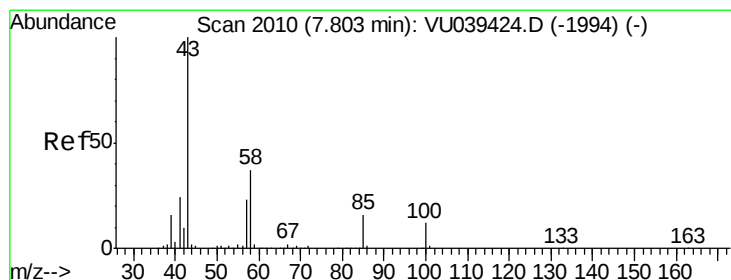
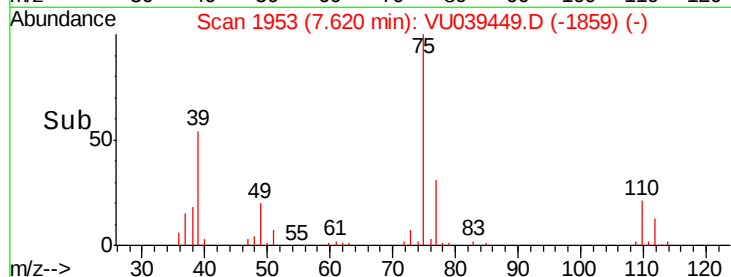
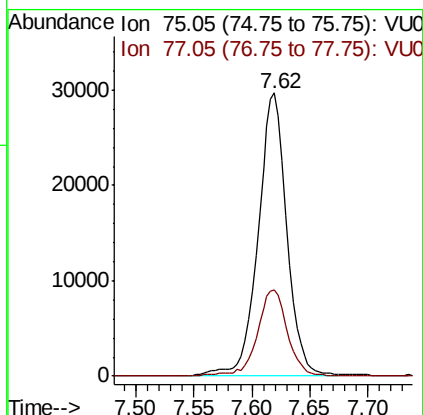
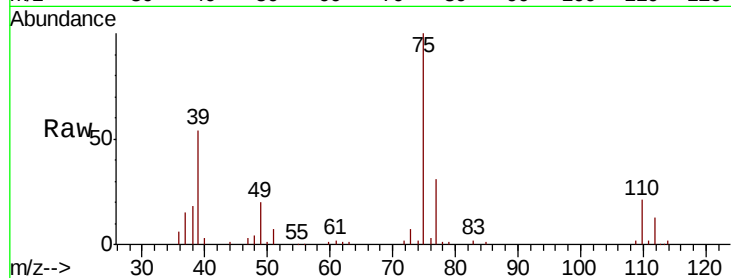




#39
 cis-1,3-Dichloropropene
 Concen: 4.688 ug/L
 RT: 7.62 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

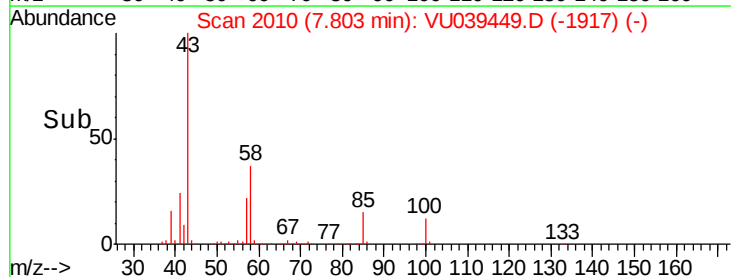
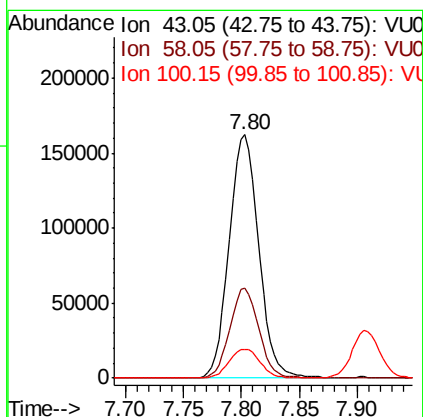
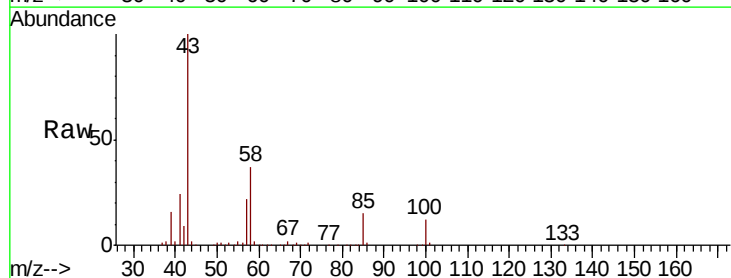
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

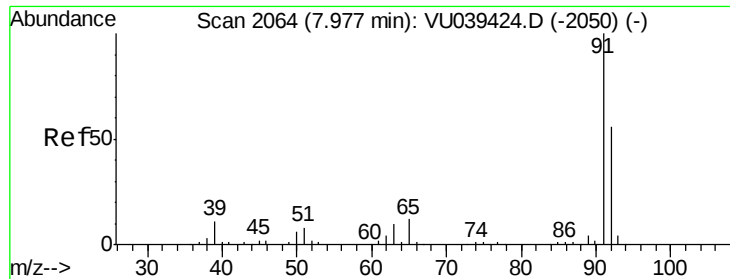
Tot Ion: 75 Resp: 51271
 Ion Ratio Lower Upper
 75 100
 77 30.5 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 47.428 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion: 43 Resp: 286271
 Ion Ratio Lower Upper
 43 100
 58 36.0 30.5 45.7
 100 12.5 10.3 15.5





#42

Toluene

Concen: 4.957 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

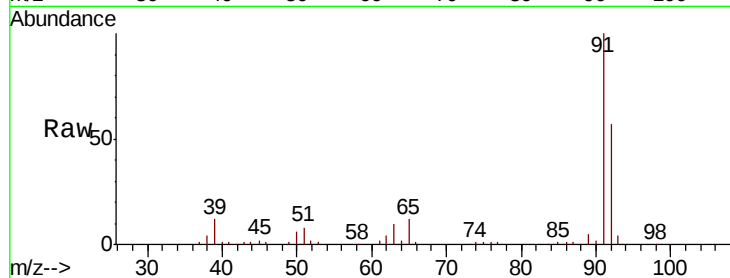
VSTD00515

Tot Ion: 91 Resp: 140886

Ion Ratio Lower Upper

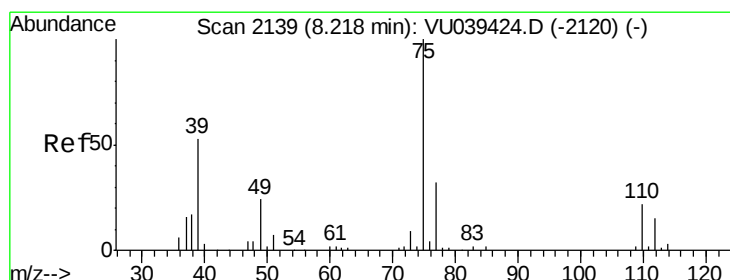
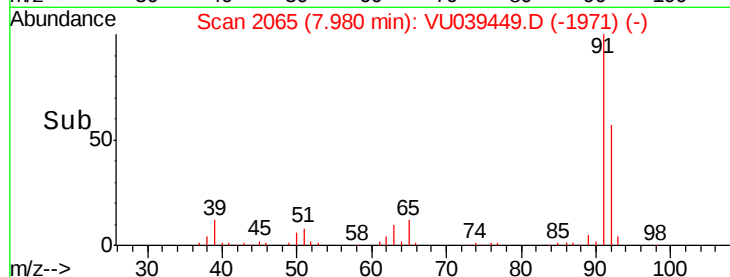
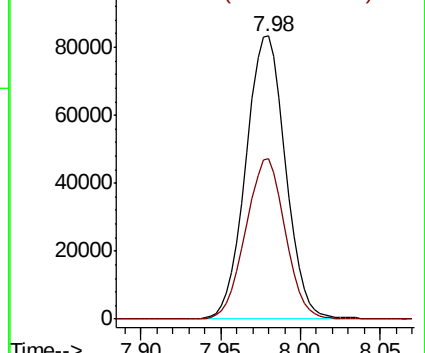
91 100

92 56.6 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU039424.D (-2050) (-)

Ion 92.15 (91.85 to 92.85): VU039424.D (-2050) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.605 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. -0.00 min

Lab File: VU039449.D

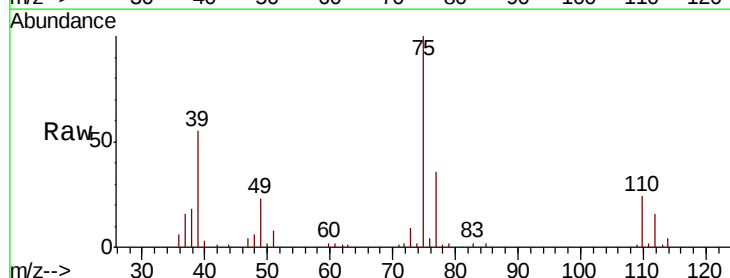
Acq: 10 Jul 2020 22:38

Tgt Ion: 75 Resp: 44688

Ion Ratio Lower Upper

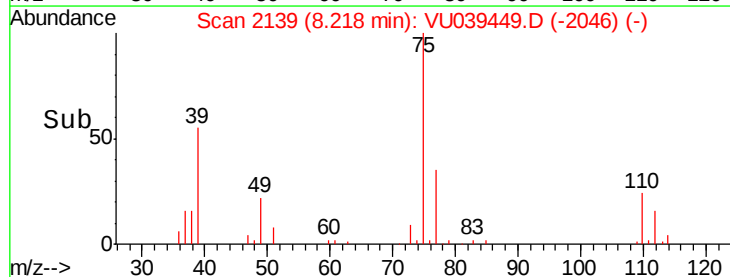
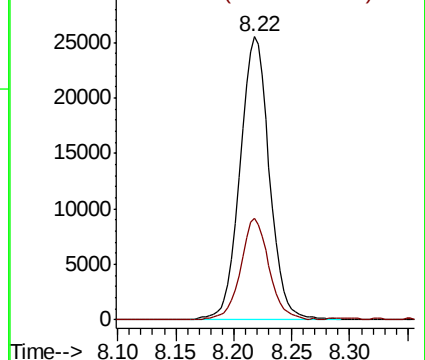
75 100

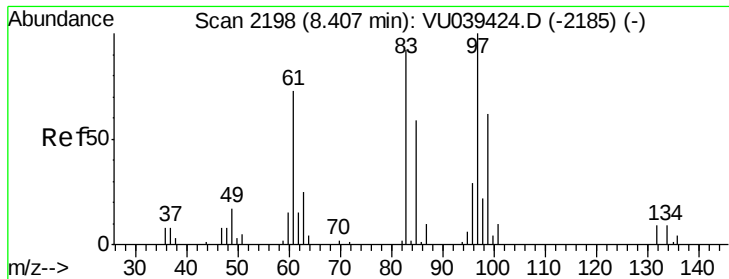
77 35.7 23.7 43.9



Abundance Ion 75.05 (74.75 to 75.75): VU039424.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU039424.D (-2120) (-)

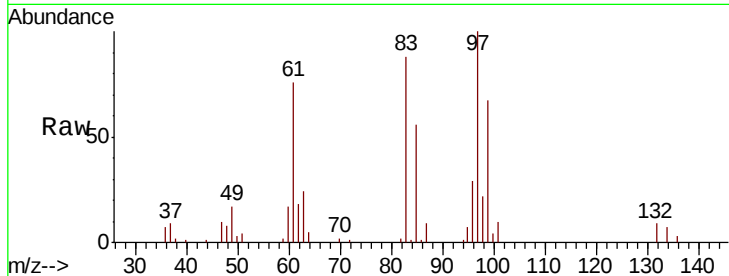




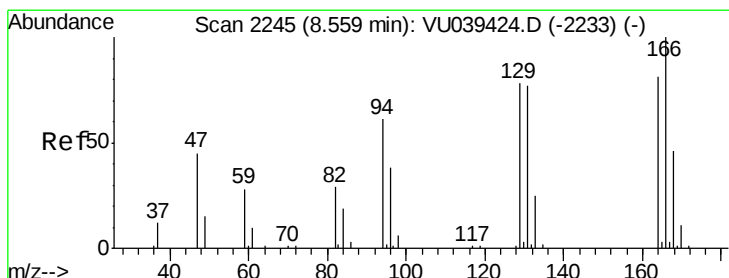
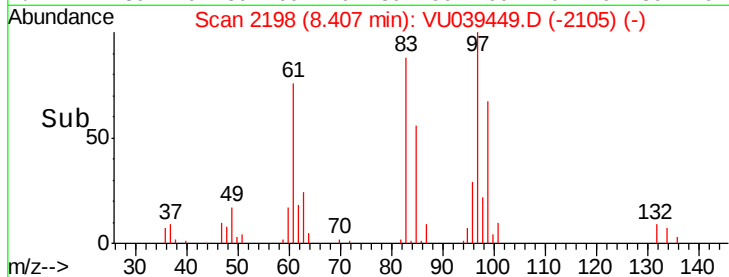
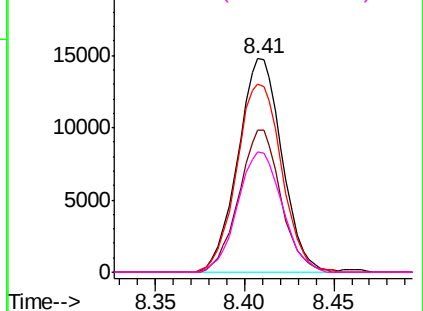
#45
 1,1,2-Trichloroethane
 Concen: 4.891 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion:	97	Resp:	25420
Ion	Ratio	Lower	Upper
97	100		
99	66.7	40.7	75.7
83	87.8	60.6	112.6
85	56.1	38.3	71.1

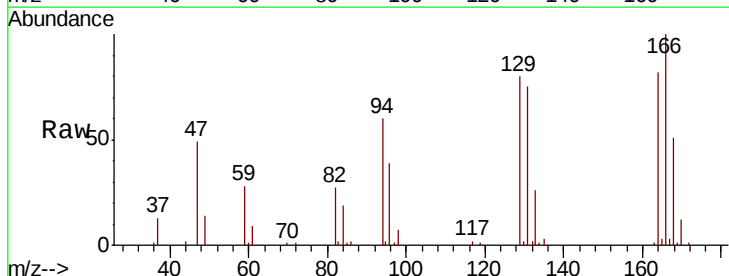


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

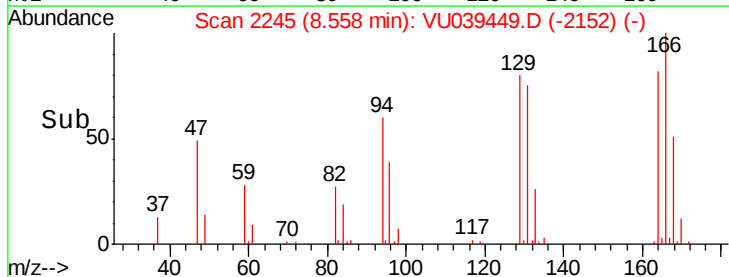
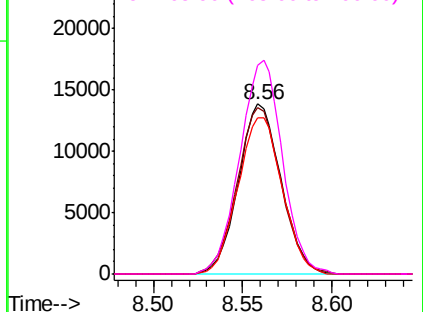


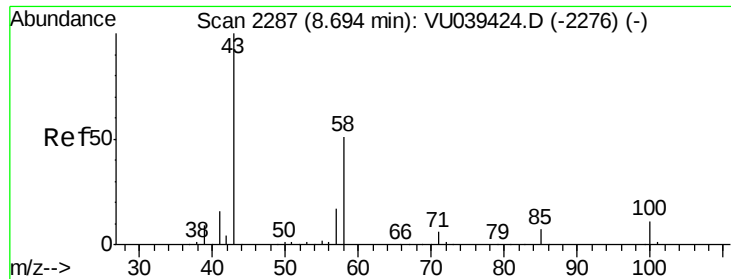
#47
 Tetrachloroethene
 Concen: 4.850 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion:	164	Resp:	23150
Ion	Ratio	Lower	Upper
164	100		
129	98.1	68.6	127.4
131	91.5	66.4	123.4
166	122.4	85.9	159.5



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

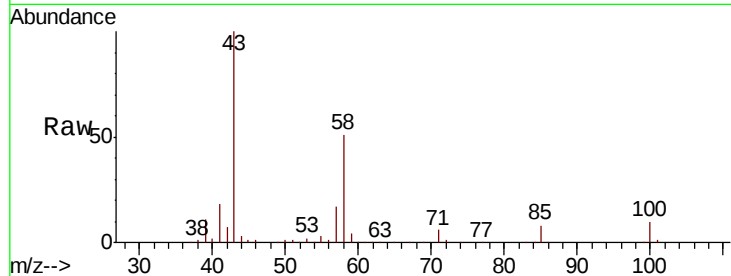




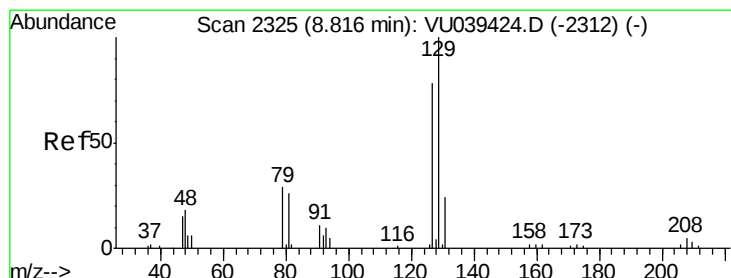
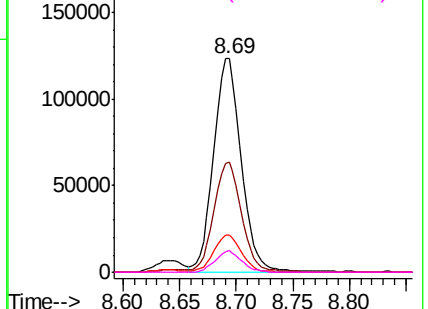
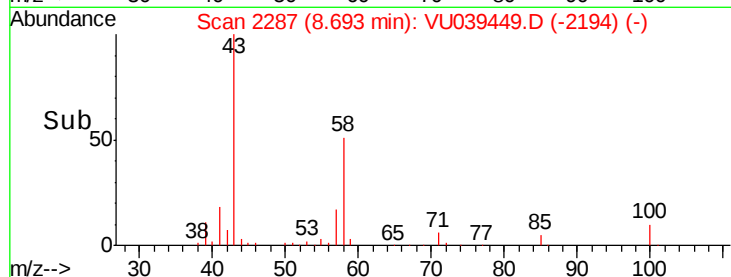
#48
2-Hexanone
Concen: 46.988 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

Tot Ion: 43 Resp: 209118
Ion Ratio Lower Upper
43 100
58 51.2 42.0 63.0
57 17.4 14.0 21.0
100 9.7 8.2 12.2

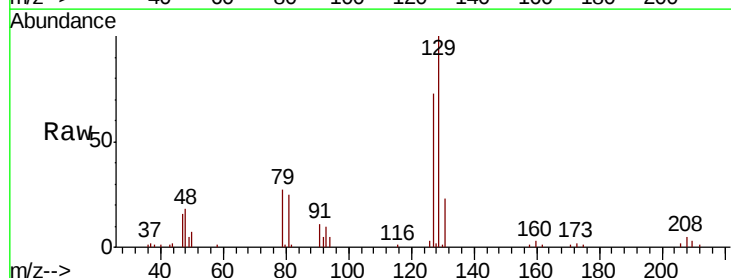


Abundance Ion 43.05 (42.75 to 43.75): VU039449.D (-2194) (-)
Ion 58.05 (57.75 to 58.75): VU039449.D (-2194) (-)
Ion 57.20 (56.90 to 57.90): VU039449.D (-2194) (-)
Ion 100.15 (99.85 to 100.85): VU039449.D (-2194) (-)

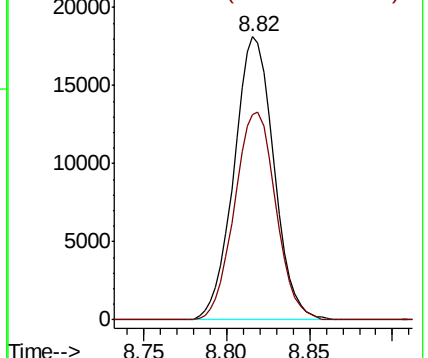
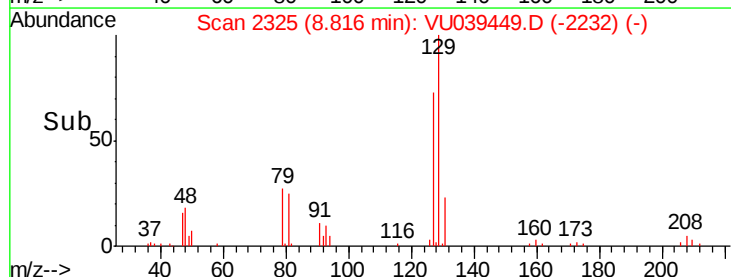


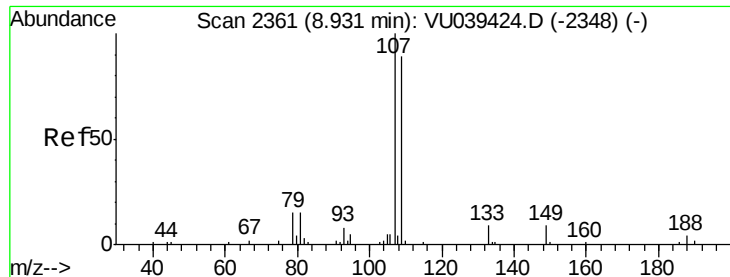
#49
Dibromochloromethane
Concen: 4.819 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Tgt Ion:129 Resp: 30337
Ion Ratio Lower Upper
129 100
127 72.6 55.4 102.8



Abundance Ion 128.95 (128.65 to 129.65): VU039449.D (-2232) (-)
Ion 126.90 (126.60 to 127.60): VU039449.D (-2232) (-)

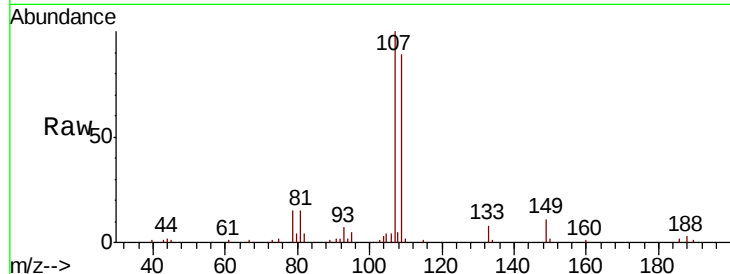




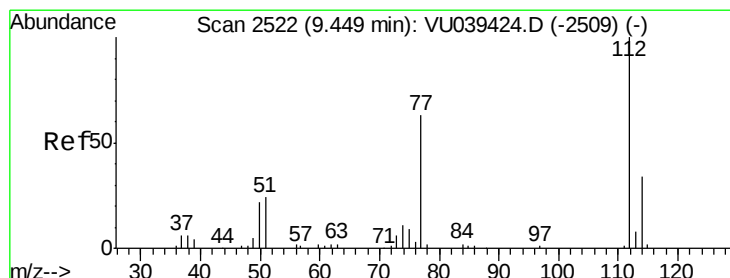
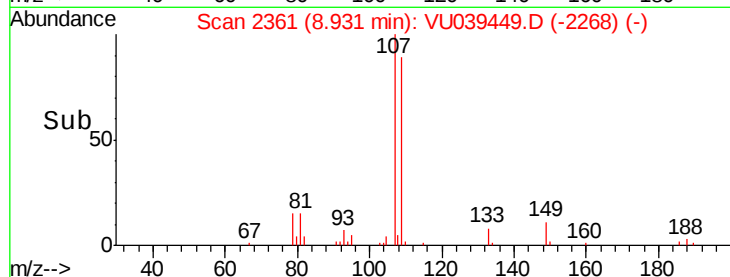
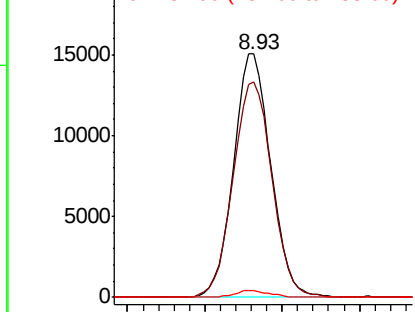
#50
1,2-Dibromoethane
Concen: 4.759 ug/L
RT: 8.93 min Scan# 2361
Delta R.T. -0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

Tot Ion:107 Resp: 25125
Ion Ratio Lower Upper
107 100
109 88.6 64.0 118.8
188 2.5 2.6 3.8#

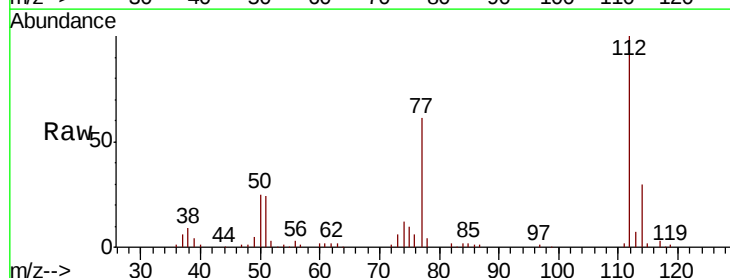


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

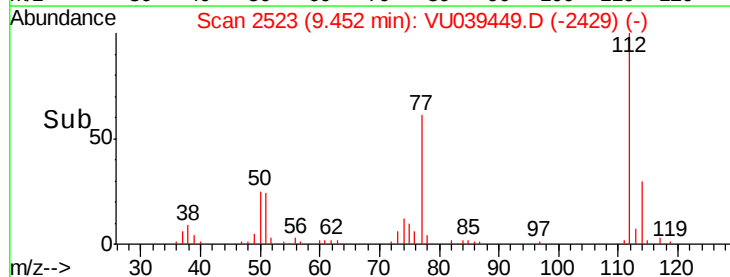
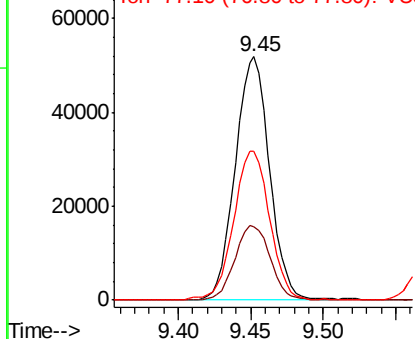


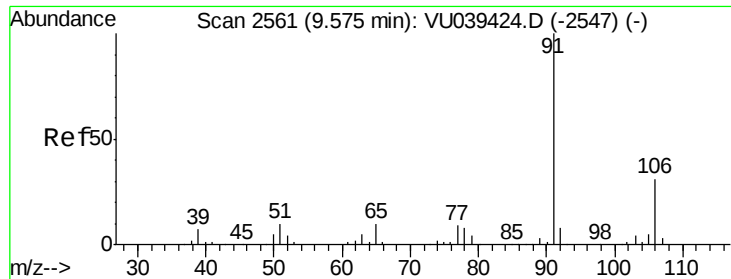
#51
Chlorobenzene
Concen: 4.903 ug/L
RT: 9.45 min Scan# 2523
Delta R.T. 0.00 min
Lab File: VU039449.D
Acq: 10 Jul 2020 22:38

Tgt Ion:112 Resp: 85156
Ion Ratio Lower Upper
112 100
114 30.3 22.1 41.1
77 61.1 49.9 74.9



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: 4.965 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

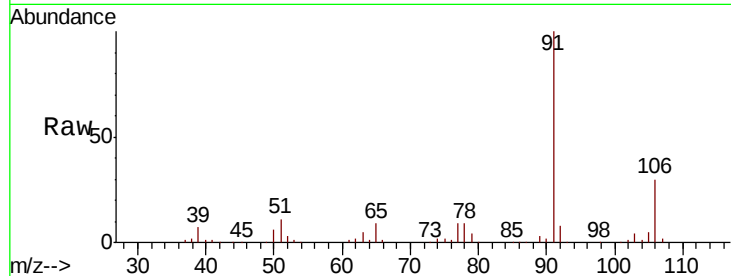
VSTD00515

Tot Ion: 91 Resp: 155940

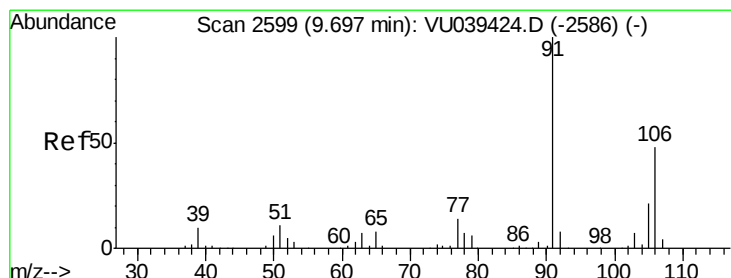
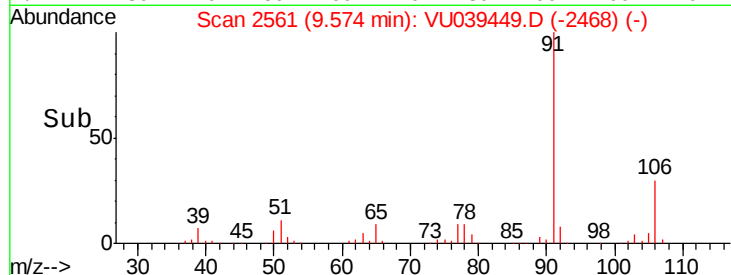
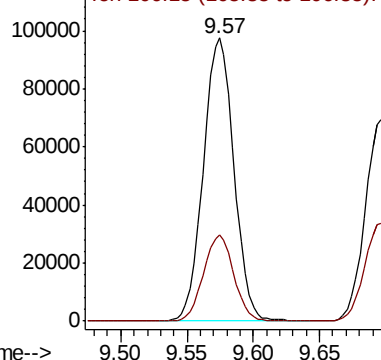
Ion Ratio Lower Upper

91 100

106 30.3 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039449.D (-2547) (-)



#53

m,p-Xylene

Concen: 4.883 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU039449.D

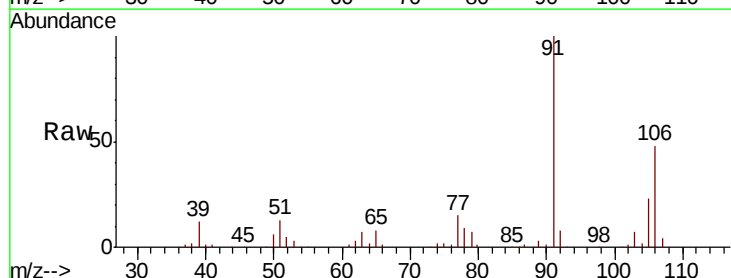
Acq: 10 Jul 2020 22:38

Tgt Ion: 106 Resp: 57790

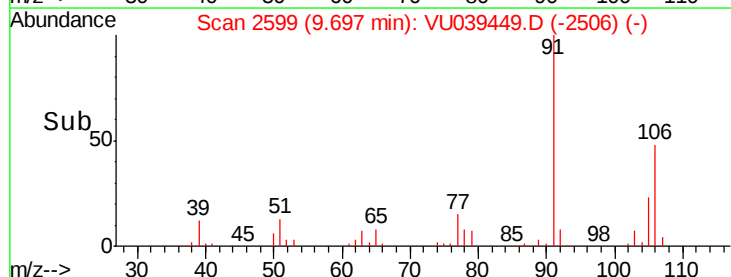
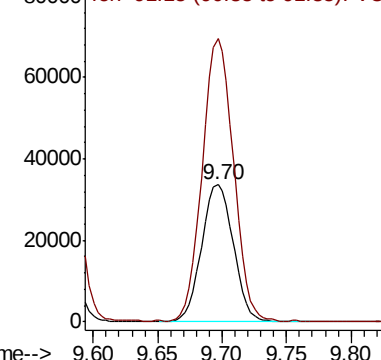
Ion Ratio Lower Upper

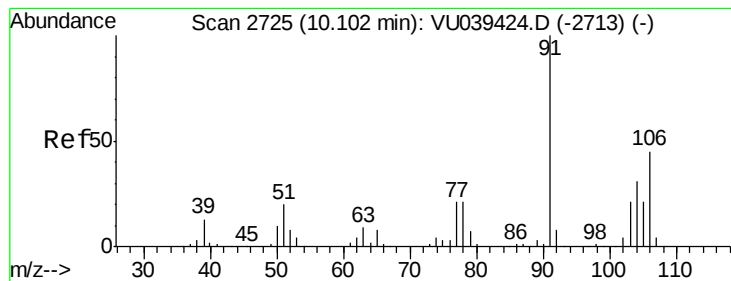
106 100

91 206.6 144.0 267.4



Abundance Ion 106.15 (105.85 to 106.85): VU039449.D (-2599) (-)





#54

o-Xylene

Concen: 4.879 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

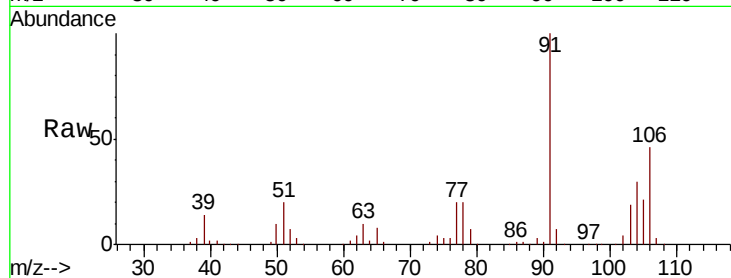
VSTD00515

Tot Ion:106 Resp: 56219

Ion Ratio Lower Upper

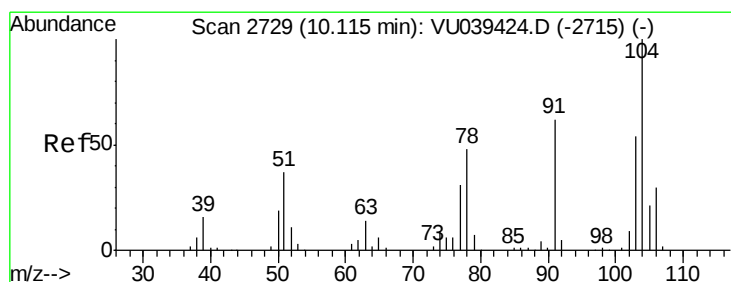
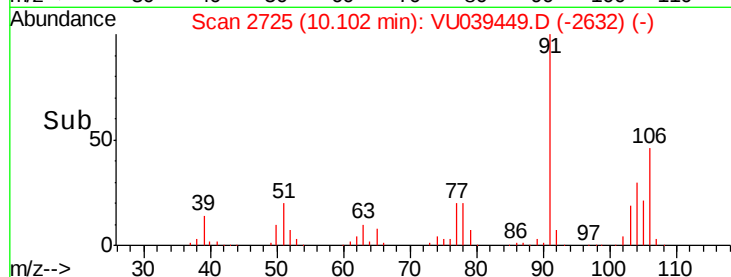
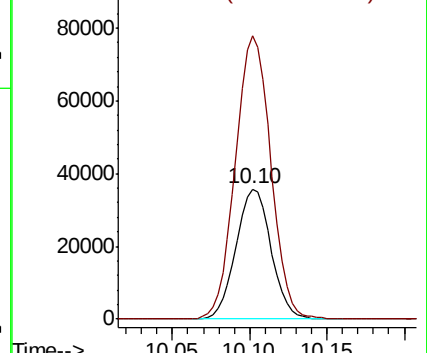
106 100

91 217.7 154.6 287.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.713 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU039449.D

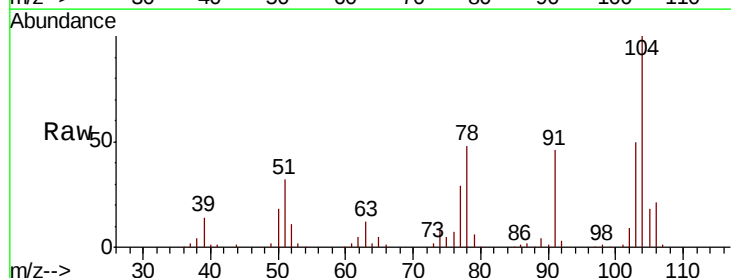
Acq: 10 Jul 2020 22:38

Tgt Ion:104 Resp: 94490

Ion Ratio Lower Upper

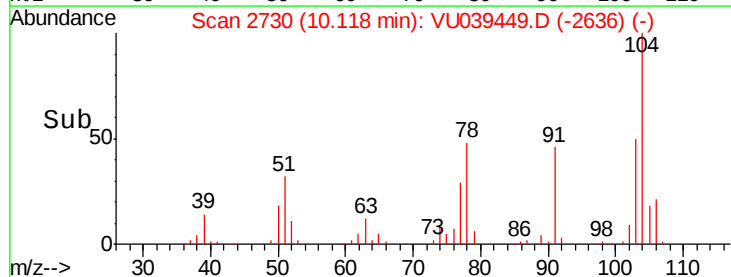
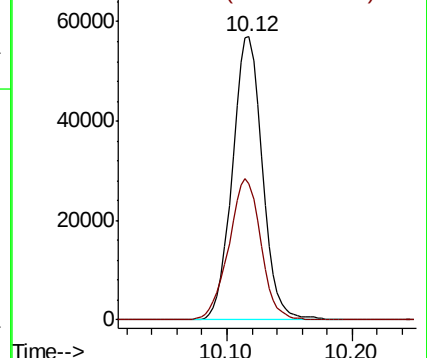
104 100

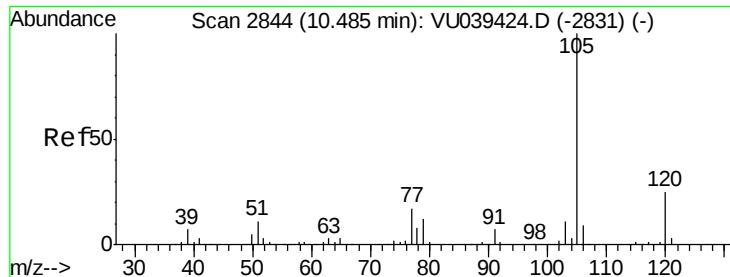
78 48.2 33.1 61.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.861 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

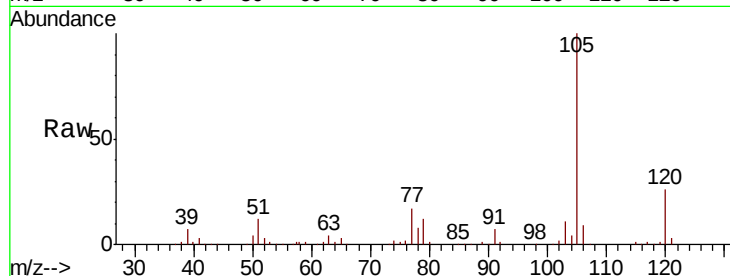
Tot Ion:105 Resp: 151469

Ion Ratio Lower Upper

105 100

120 26.1 20.7 31.1

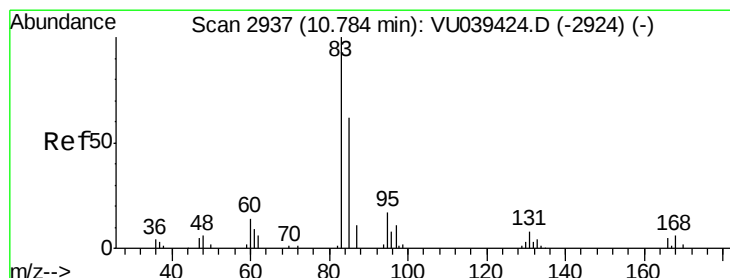
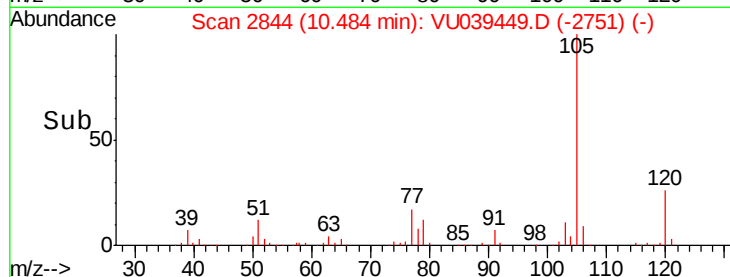
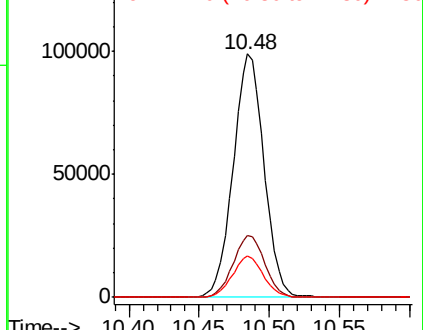
77 16.8 13.9 20.9



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: 4.674 ug/L

RT: 10.78 min Scan# 2937

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

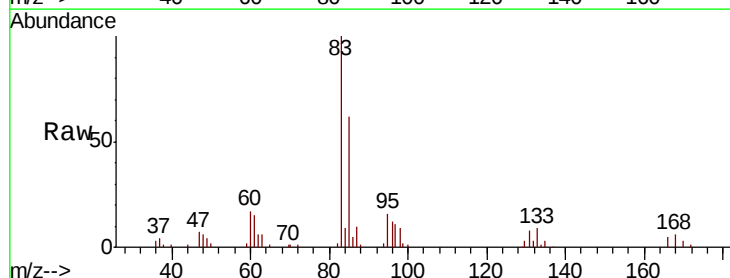
Tgt Ion: 83 Resp: 33812

Ion Ratio Lower Upper

83 100

85 62.0 46.1 85.7

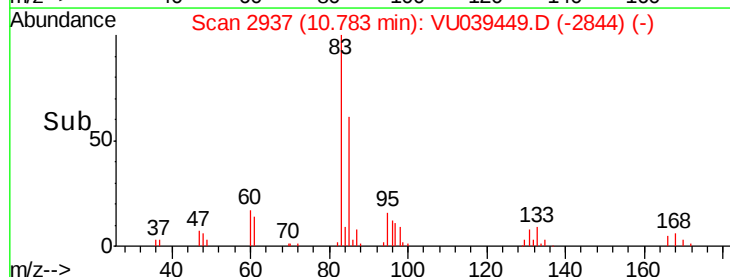
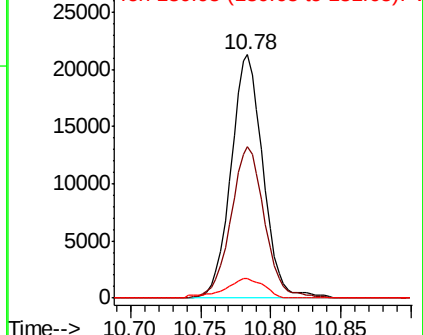
131 8.1 7.4 11.0

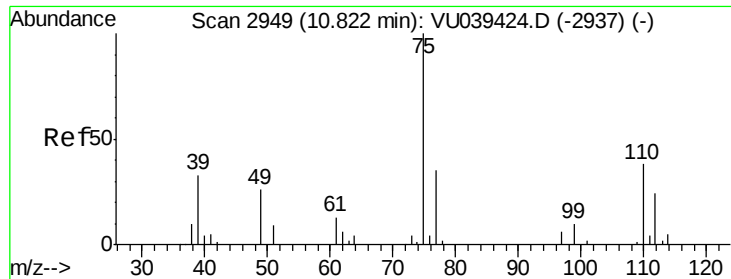


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

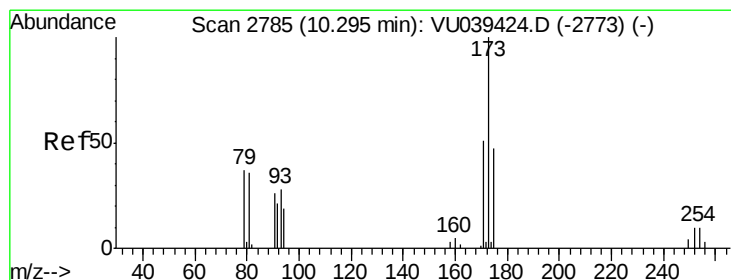
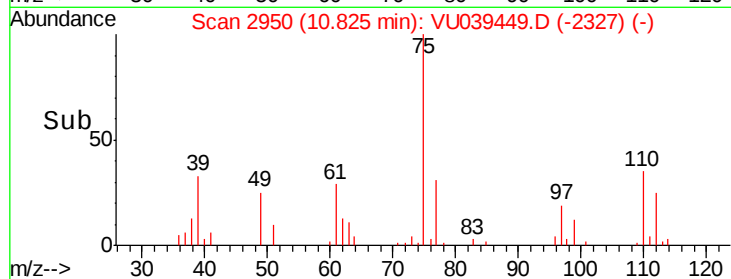
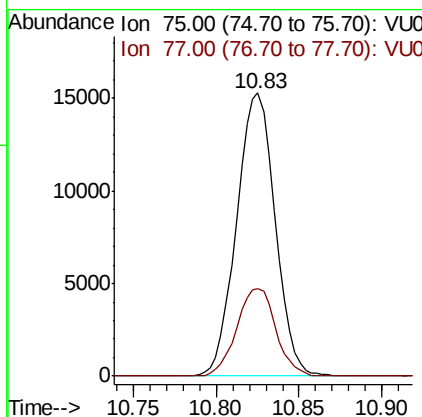
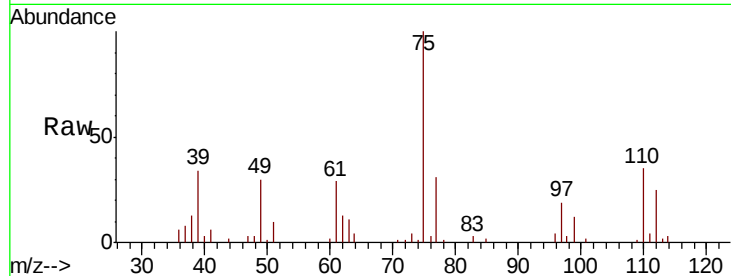




#59
 1,2,3-Trichloropropane
 Concen: 4.644 ug/L
 RT: 10.83 min Scan# 2950
 Delta R.T. 0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

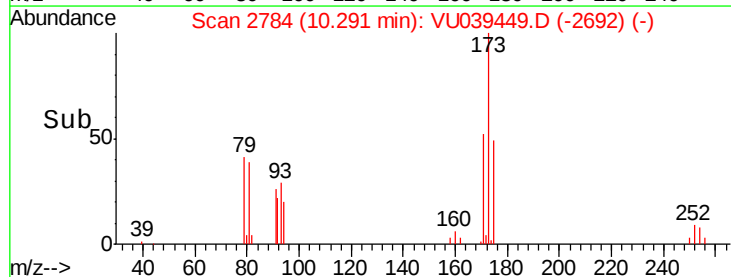
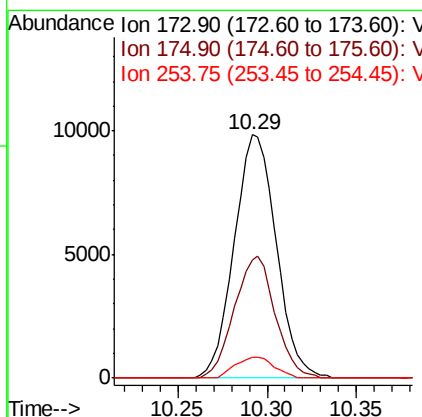
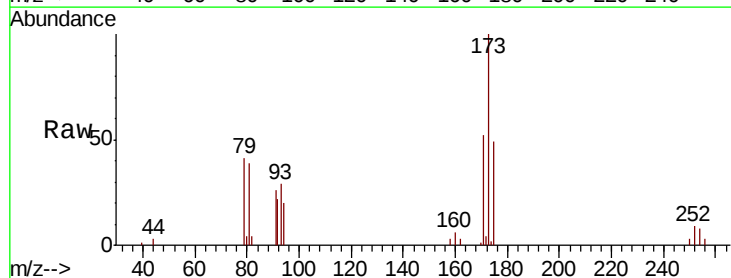
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

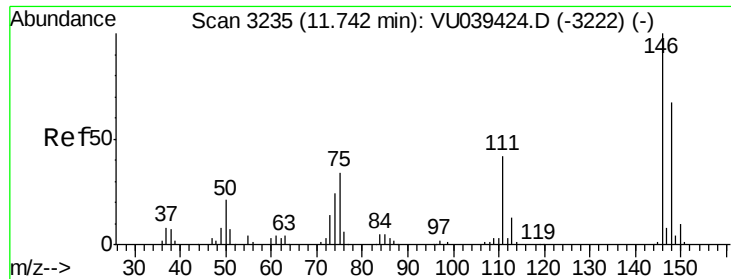
Tot Ion: 75 Resp: 24762
 Ion Ratio Lower Upper
 75 100
 77 31.3 26.8 40.2



#61
 Bromoform
 Concen: 4.304 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion:173 Resp: 16197
 Ion Ratio Lower Upper
 173 100
 175 48.5 37.5 56.3
 254 8.0 6.7 10.1

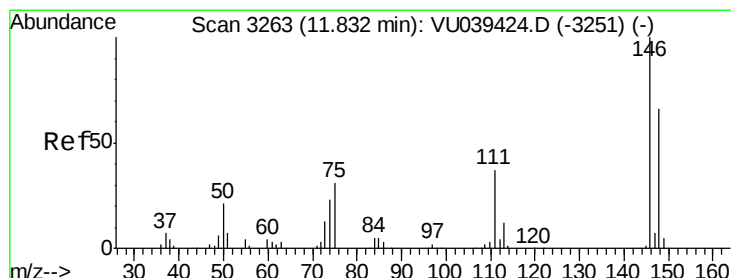
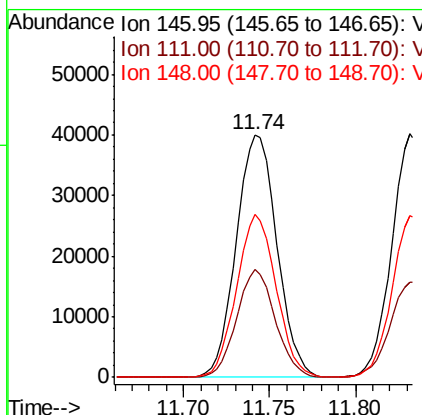
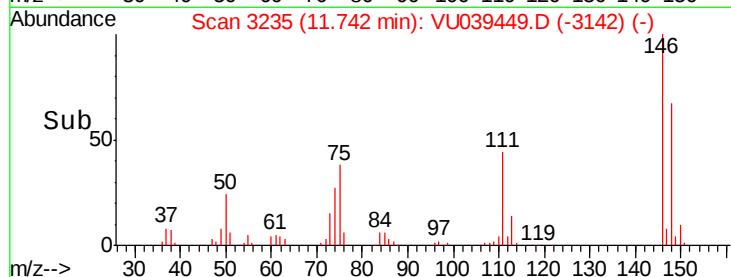
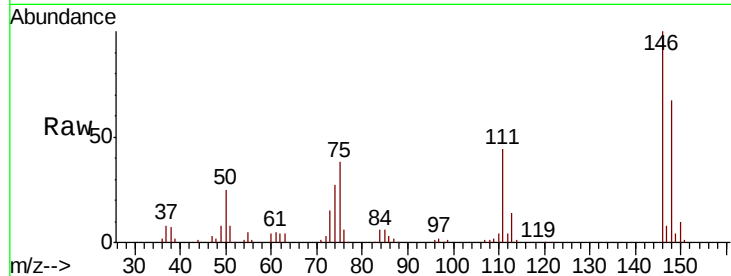




#62
 1,3-Dichlorobenzene
 Concen: 4.690 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

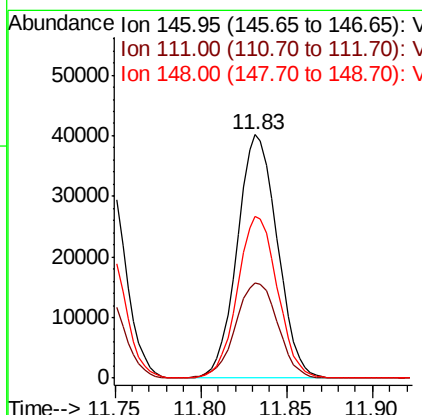
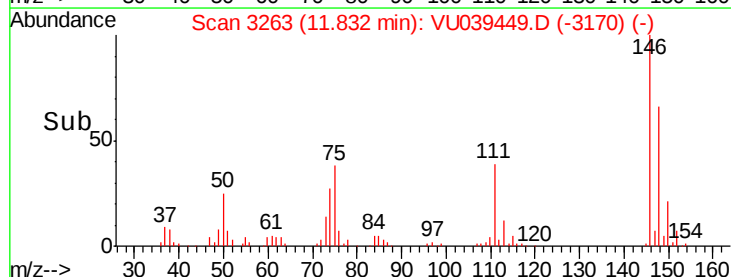
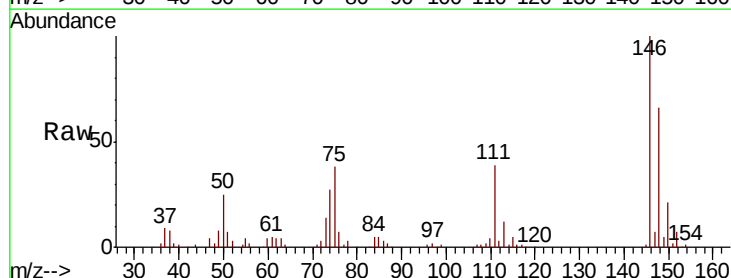
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

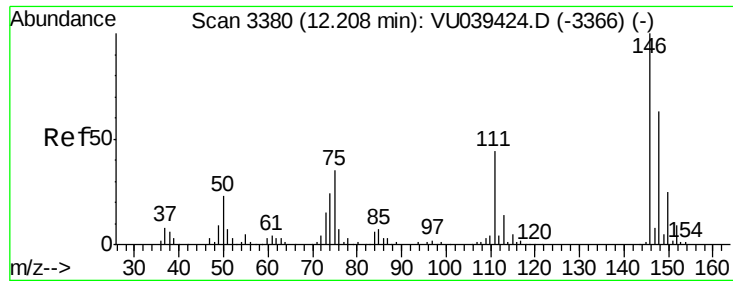
Tot Ion:146 Resp: 65611
 Ion Ratio Lower Upper
 146 100
 111 44.3 29.0 53.8
 148 67.0 43.5 80.9



#63
 1,4-Dichlorobenzene
 Concen: 4.636 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion:146 Resp: 65071
 Ion Ratio Lower Upper
 146 100
 111 39.2 28.6 53.0
 148 66.3 45.0 83.6

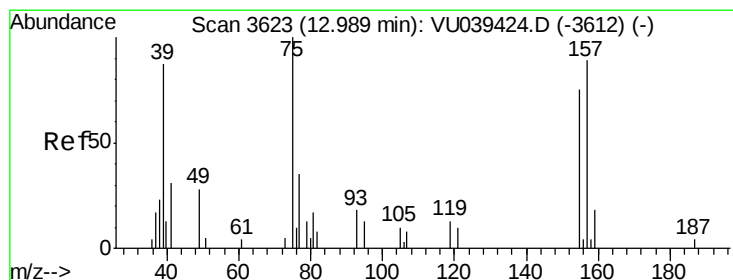
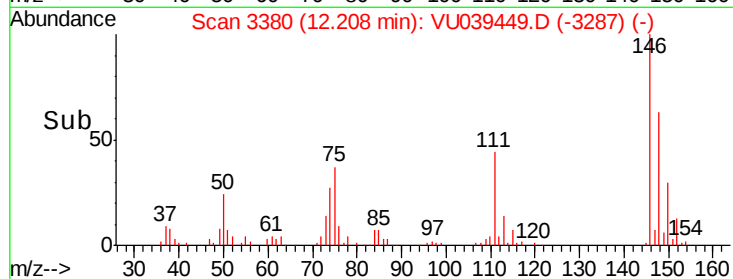
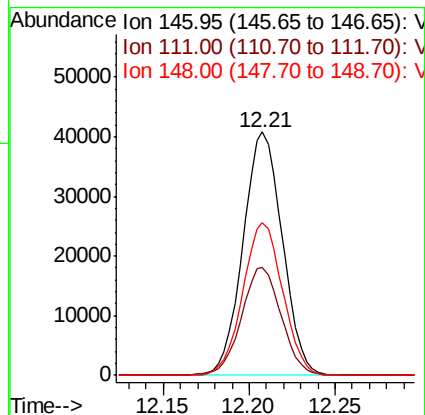
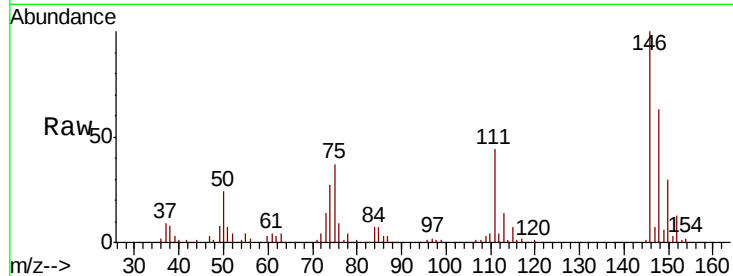




#65
 1,2-Dichlorobenzene
 Concen: 4.608 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

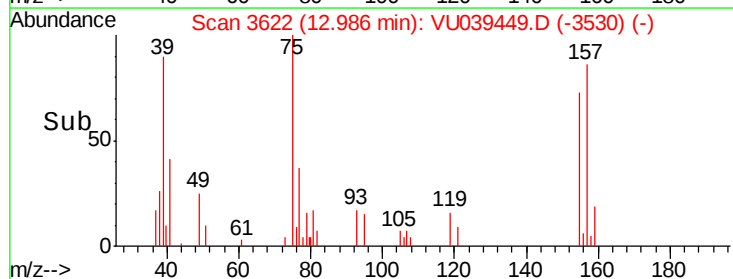
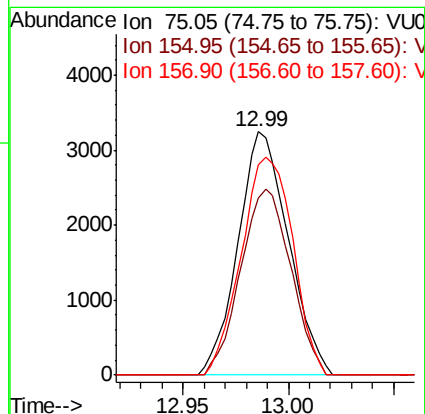
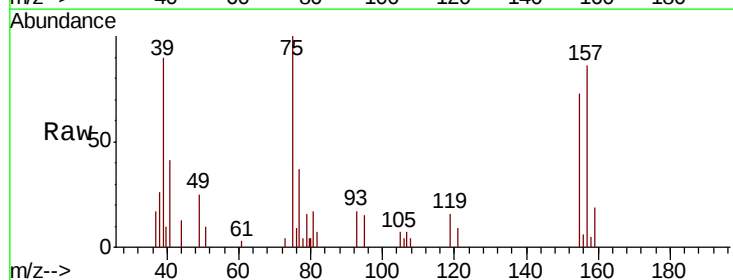
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

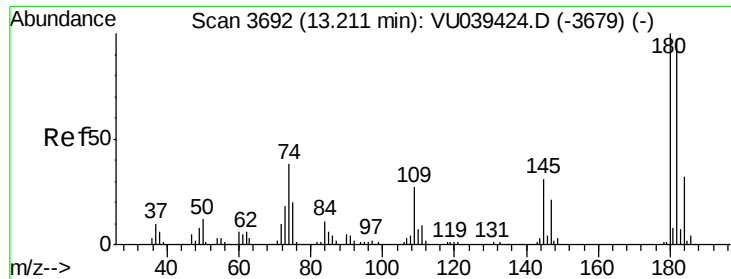
Tot Ion:146 Resp: 64621
 Ion Ratio Lower Upper
 146 100
 111 44.4 35.0 52.4
 148 62.9 50.6 75.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.346 ug/L
 RT: 12.99 min Scan# 3622
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion: 75 Resp: 5385
 Ion Ratio Lower Upper
 75 100
 155 72.9 51.9 77.9
 157 86.4 63.2 94.8

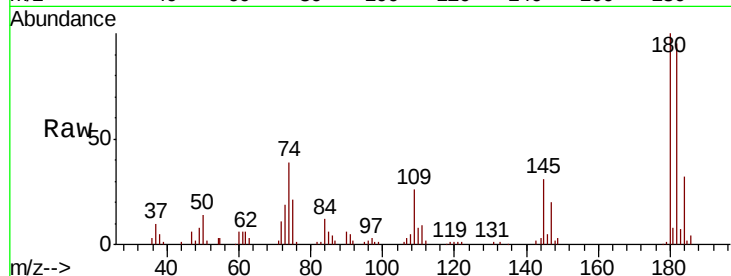




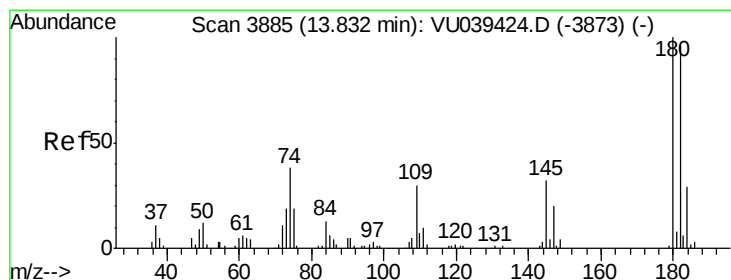
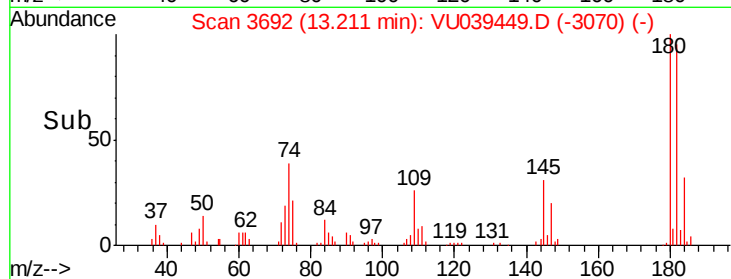
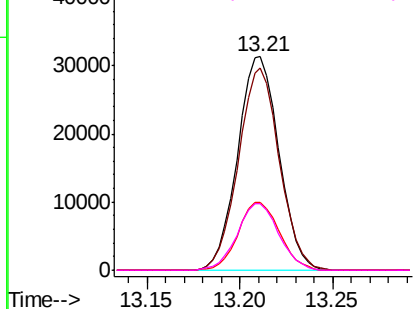
#67
 1,3,5-Trichlorobenzene
 Concen: 4.623 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion:180 Resp: 48397
 Ion Ratio Lower Upper
 180 100
 182 93.9 76.2 114.4
 184 31.9 24.2 36.4
 145 31.7 24.2 36.2

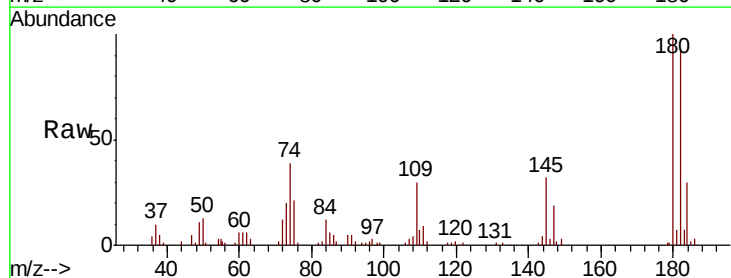


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

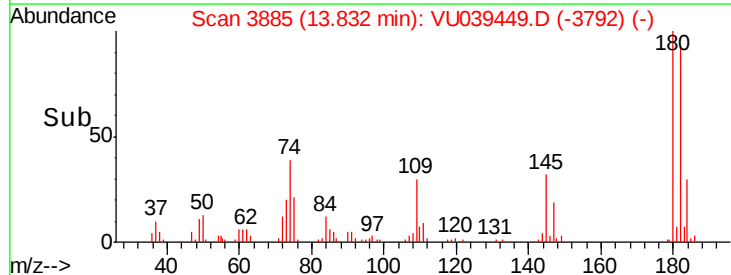
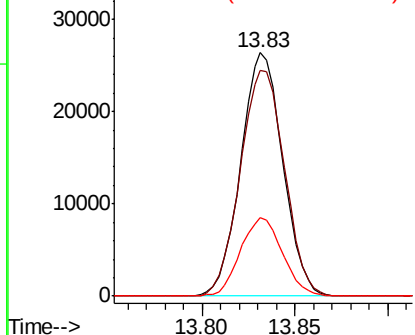


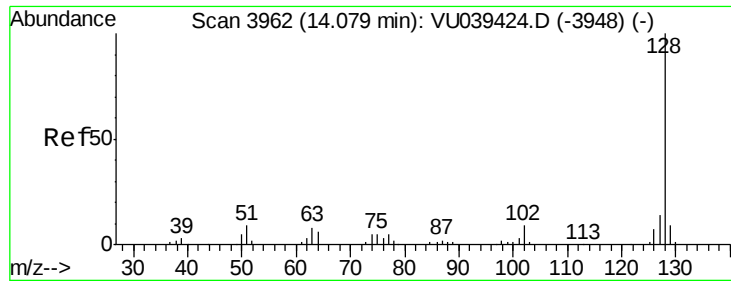
#68
 1,2,4-trichlorobenzene
 Concen: 4.628 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU039449.D
 Acq: 10 Jul 2020 22:38

Tgt Ion:180 Resp: 41463
 Ion Ratio Lower Upper
 180 100
 182 97.4 79.4 119.2
 145 32.1 26.4 39.6



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: 4.181 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

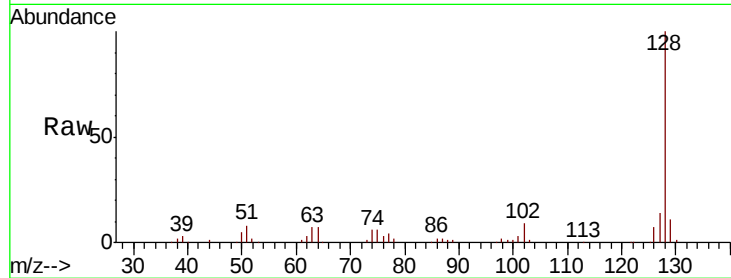
Tot Ion:128 Resp: 75374

Ion Ratio Lower Upper

128 100

129 10.2 8.6 13.0

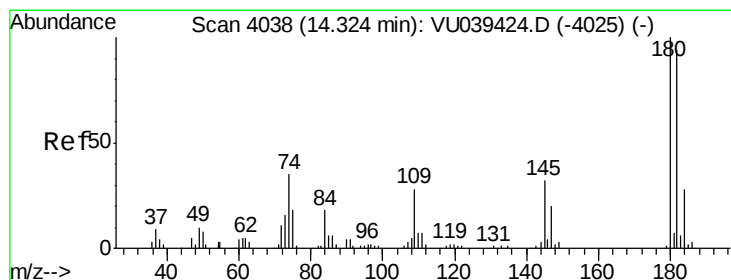
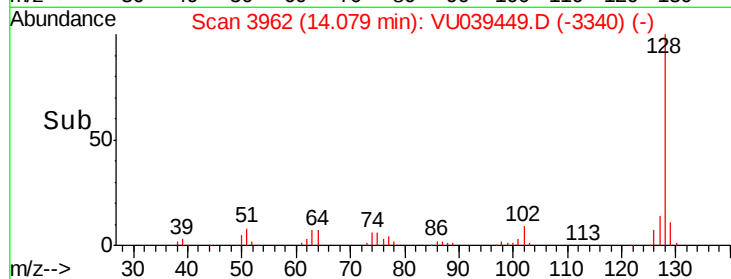
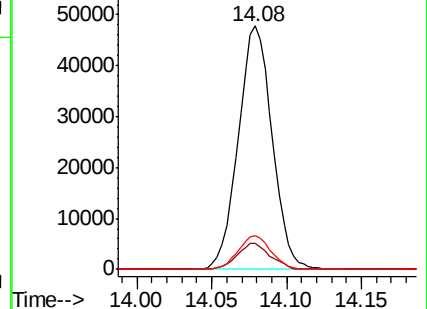
127 13.5 10.4 15.6



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: 4.608 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. -0.00 min

Lab File: VU039449.D

Acq: 10 Jul 2020 22:38

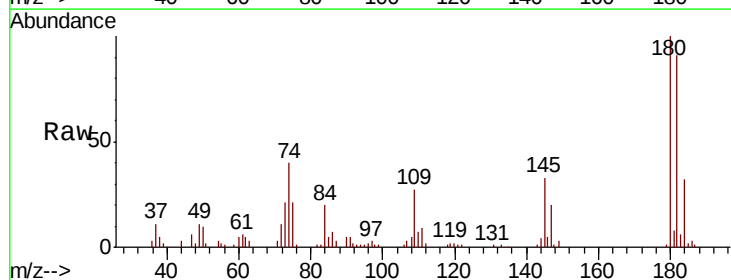
Tgt Ion:180 Resp: 38250

Ion Ratio Lower Upper

180 100

182 93.6 74.2 111.2

145 32.6 27.6 41.4



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

