

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U071620\
 Data File : VU039513.D
 Acq On : 16 Jul 2020 09:55
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

Quant Time: Jul 17 01:02:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 16 10:53:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	112692	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	110510	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	54728	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	26281	4.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.60%
7) Chloroethane-d5	1.92	69	29316	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.80%
11) 1,1-Dichloroethene-d2	2.58	63	57188	4.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.00%
20) 2-Butanone-d5	4.65	46	117284	39.25	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	78.50%
24) Chloroform-d	5.08	84	62696	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
26) 1,2-Dichloroethane-d4	5.72	65	41016	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
32) Benzene-d6	5.74	84	123482	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.70	67	41448	4.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.60%
41) Toluene-d8	7.91	98	114290	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
43) trans-1,3-Dichloropropene-	8.19	79	18420	4.46	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.20%
46) 2-Hexanone-d5	8.64	63	92673	37.85	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.70%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	39692	4.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	46067	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	32476	4.755	ug/L 99
3) Chloromethane	1.53	50	35406	4.279	ug/L 98
5) Vinyl chloride	1.61	62	37177	4.046	ug/L 96
6) Bromomethane	1.87	94	24049	6.077	ug/L 99
8) Chloroethane	1.94	64	29401	4.429	ug/L 100
9) Trichlorofluoromethane	2.15	101	71774	4.498	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	31714	4.844	ug/L 99
12) 1,1-Dichloroethene	2.59	96	28899	4.312	ug/L 92
13) Acetone	2.66	43	65545	40.633	ug/L 99
14) Carbon disulfide	2.81	76	91426	3.872	ug/L 99
15) Methyl Acetate	2.97	43	17552	4.119	ug/L 93
16) Methylene chloride	3.06	84	37025	4.392	ug/L 94
17) Methyl tert-butyl Ether	3.38	73	90854	4.302	ug/L 100
18) trans-1,2-Dichloroethene	3.37	96	31579	4.256	ug/L 94
19) 1,1-Dichloroethane	3.89	63	66501	4.581	ug/L 97
21) 2-Butanone	4.73	43	119617	41.546	ug/L 99
22) cis-1,2-Dichloroethene	4.69	96	37654	4.526	ug/L 96

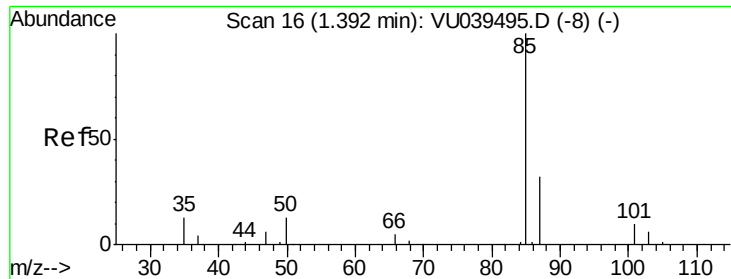
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071620\
 Data File : VU039513.D
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Instrument :
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 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	17181	4.546	ug/L	95
25) Chloroform	5.11	83	75475	5.148	ug/L	100
27) 1,2-Dichloroethane	5.81	62	52948	4.993	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	62175	4.777	ug/L	99
30) Cyclohexane	5.40	56	60702	4.430	ug/L	100
31) Carbon tetrachloride	5.54	117	53983	4.861	ug/L	98
33) Benzene	5.79	78	149411	4.522	ug/L	100
34) Trichloroethene	6.55	95	39657	4.643	ug/L	98
35) Methylcyclohexane	6.77	83	64229	4.694	ug/L	99
37) 1,2-Dichloropropane	6.80	63	40283	4.472	ug/L #	97
38) Bromodichloromethane	7.12	83	54291	4.720	ug/L	98
39) cis-1,3-Dichloropropene	7.62	75	58446	4.293	ug/L	98
40) 4-Methyl-2-pentanone	7.80	43	313183	41.682	ug/L	98
42) Toluene	7.98	91	161716	4.571	ug/L	97
44) trans-1,3-Dichloropropene	8.22	75	53842	4.457	ug/L	99
45) 1,1,2-Trichloroethane	8.41	97	29497	4.560	ug/L	93
47) Tetrachloroethene	8.56	164	28903	4.865	ug/L	97
48) 2-Hexanone	8.69	43	226477	40.880	ug/L	99
49) Dibromochloromethane	8.82	129	36786	4.695	ug/L	96
50) 1,2-Dibromoethane	8.93	107	29508	4.490	ug/L	97
51) Chlorobenzene	9.45	112	103025	4.765	ug/L	98
52) Ethylbenzene	9.57	91	187951	4.807	ug/L	100
53) m,p-Xylene	9.70	106	69666	4.729	ug/L	99
54) o-Xylene	10.10	106	68305	4.762	ug/L	100
55) Styrene	10.11	104	115883	4.644	ug/L	98
56) Isopropylbenzene	10.48	105	186955	4.820	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	40550	4.503	ug/L	99
59) 1,2,3-Trichloropropane	10.82	75	29132	4.389	ug/L	98
61) Bromoform	10.29	173	20719	4.492	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	82374	4.803	ug/L	97
63) 1,4-Dichlorobenzene	11.84	146	81503	4.737	ug/L	99
65) 1,2-Dichlorobenzene	12.21	146	79395	4.618	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.99	75	6992	4.604	ug/L	98
67) 1,3,5-Trichlorobenzene	13.21	180	60539	4.717	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	51784	4.715	ug/L	95
69) Naphthalene	14.08	128	84601	3.829	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	44267	4.350	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 4.755 ug/L

RT: 1.39 min Scan# 16

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

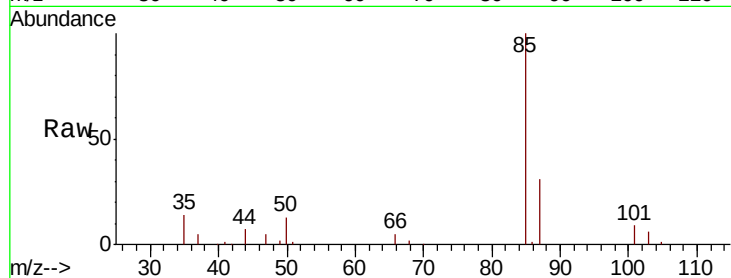
VSTD00523

Tot Ion: 85 Resp: 32476

Ion Ratio Lower Upper

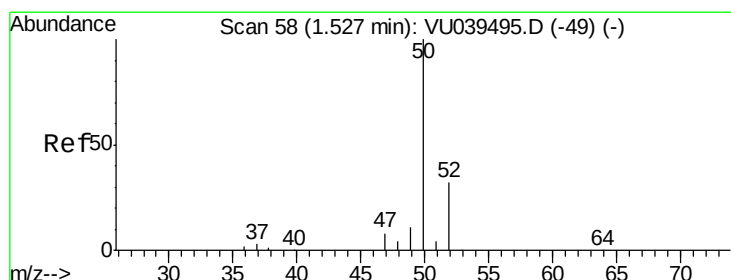
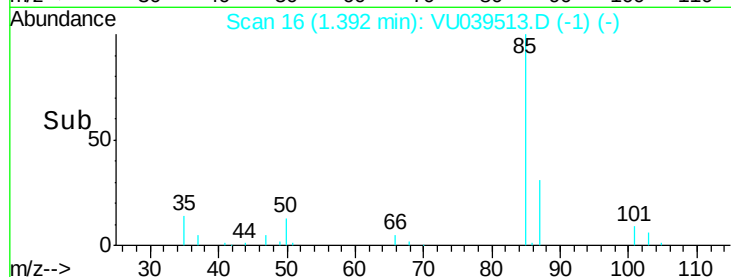
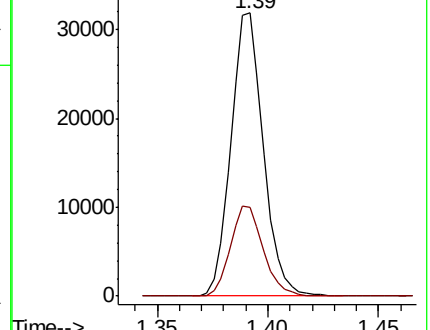
85 100

87 32.2 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU039495.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039495.D (-8) (-)



#3

Chloromethane

Concen: 4.279 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU039513.D

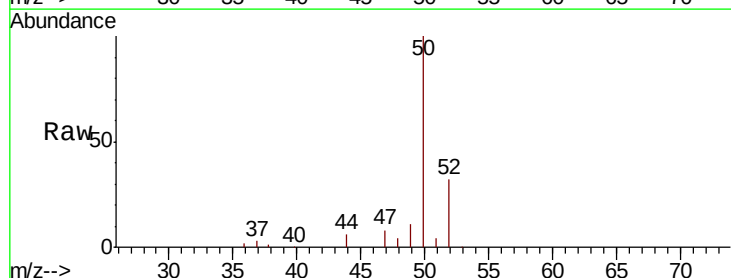
Acq: 16 Jul 2020 09:55

Tgt Ion: 50 Resp: 35406

Ion Ratio Lower Upper

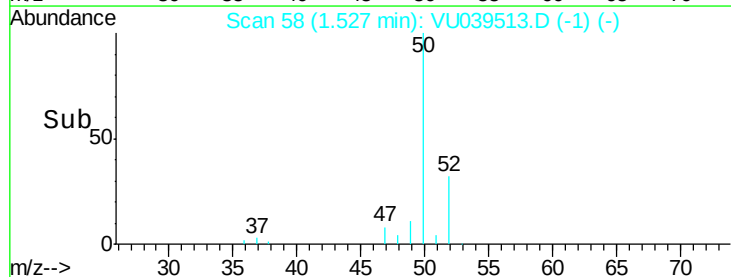
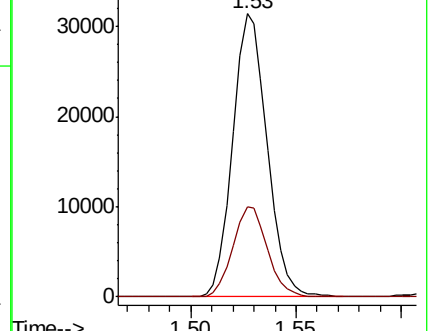
50 100

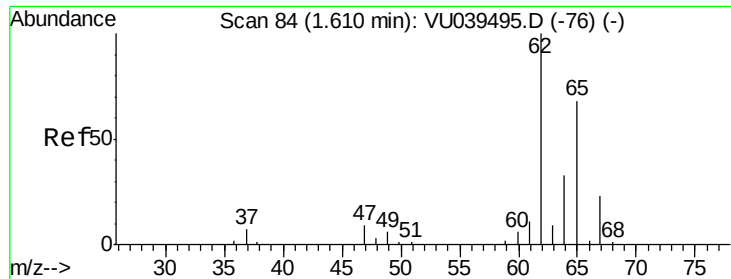
52 31.8 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU039495.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU039495.D (-49) (-)





#5

Vinyl chloride

Concen: 4.046 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

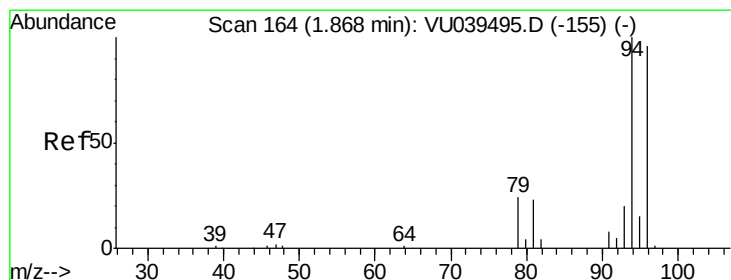
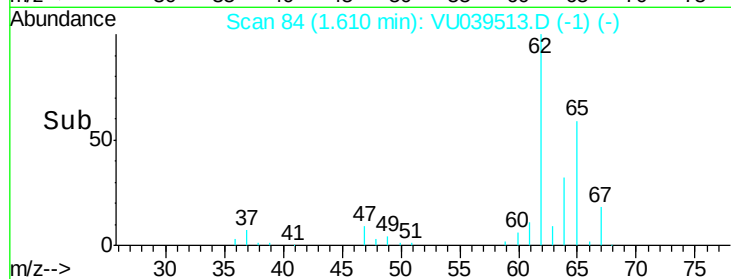
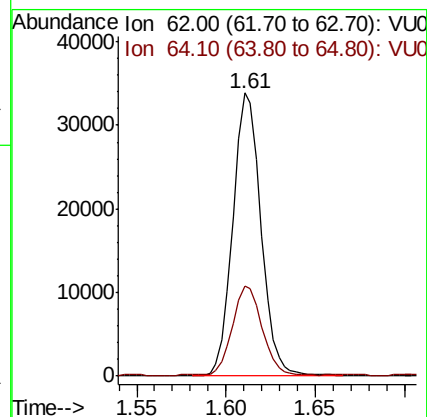
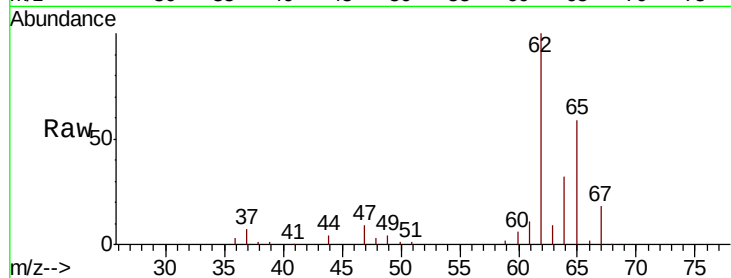
VSTD00523

Tot Ion: 62 Resp: 37177

Ion Ratio Lower Upper

62 100

64 31.6 23.7 44.1



#6

Bromomethane

Concen: 6.077 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039513.D

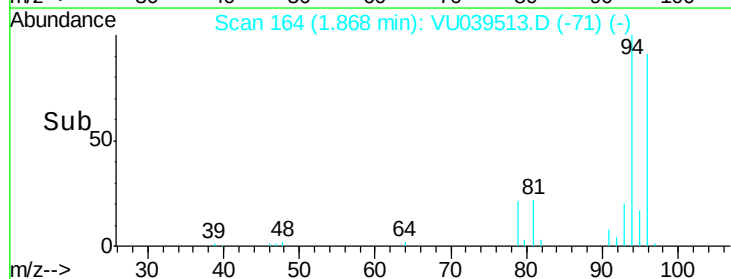
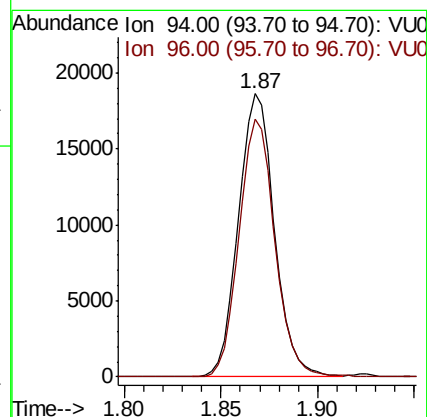
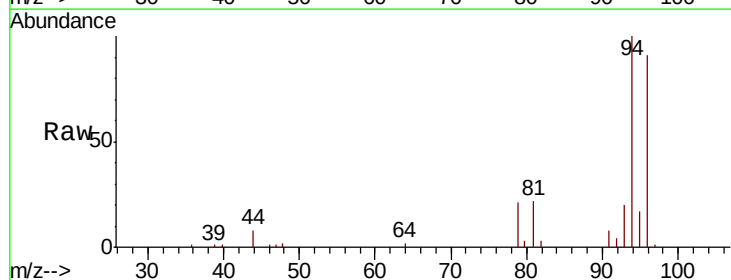
Acq: 16 Jul 2020 09:55

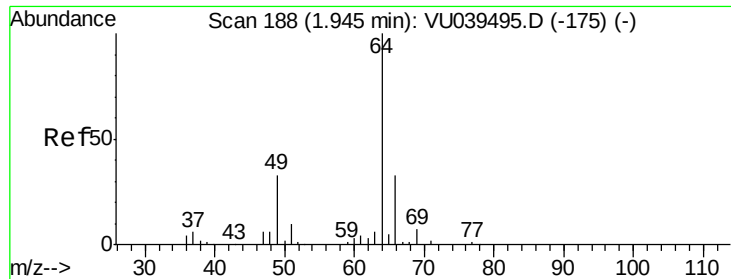
Tgt Ion: 94 Resp: 24049

Ion Ratio Lower Upper

94 100

96 91.0 62.7 116.5





#8

Chloroethane

Concen: 4.429 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

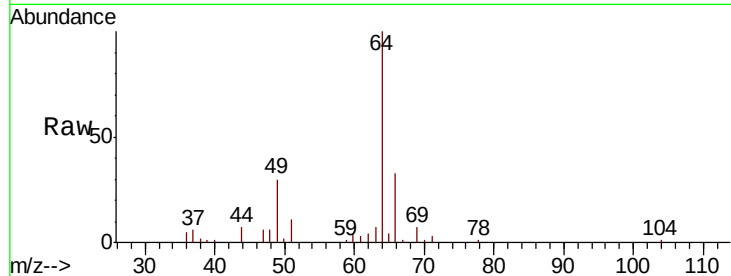
VSTD00523

Tot Ion: 64 Resp: 29401

Ion Ratio Lower Upper

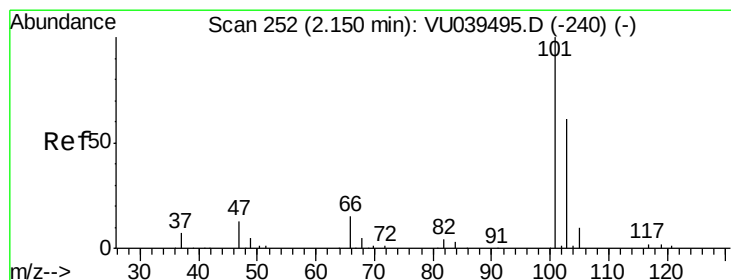
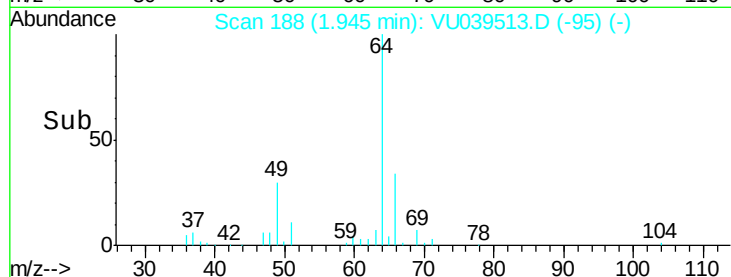
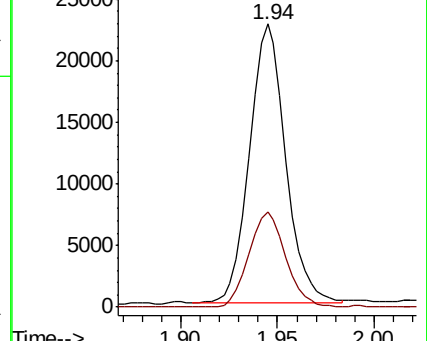
64 100

66 33.5 23.5 43.7



Abundance Ion 64.10 (63.80 to 64.80): VU039495.D (-175) (-)

Ion 66.05 (65.75 to 66.75): VU039495.D (-175) (-)



#9

Trichlorofluoromethane

Concen: 4.498 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU039513.D

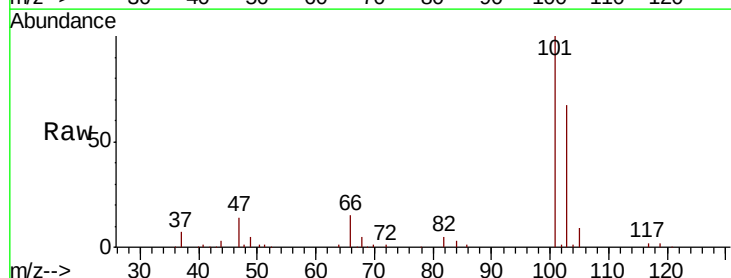
Acq: 16 Jul 2020 09:55

Tgt Ion: 101 Resp: 71774

Ion Ratio Lower Upper

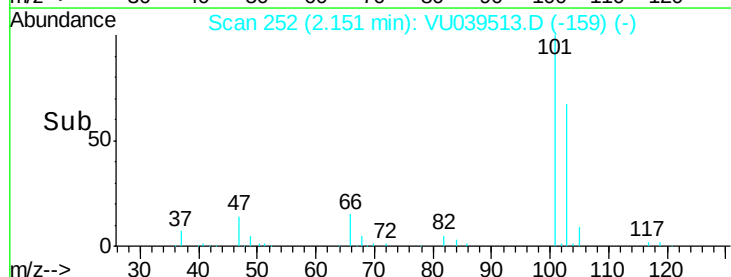
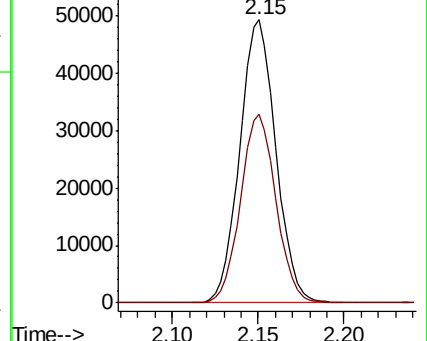
101 100

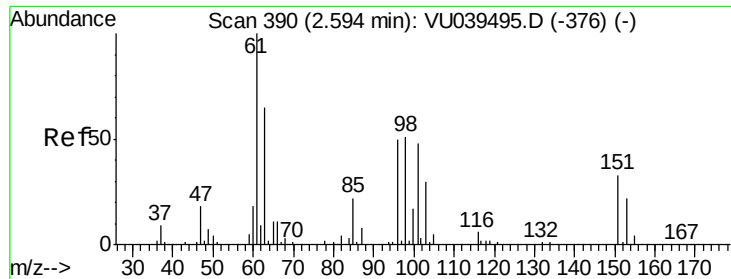
103 65.4 50.6 76.0



Abundance Ion 101.00 (100.70 to 101.70): VU039495.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU039495.D (-240) (-)





#10

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

Concen: 4.844 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00523

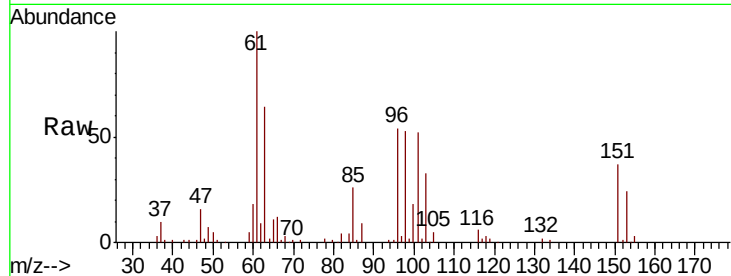
Tot Ion:101 Resp: 31714

Ion Ratio Lower Upper

101 100

85 49.3 38.9 58.3

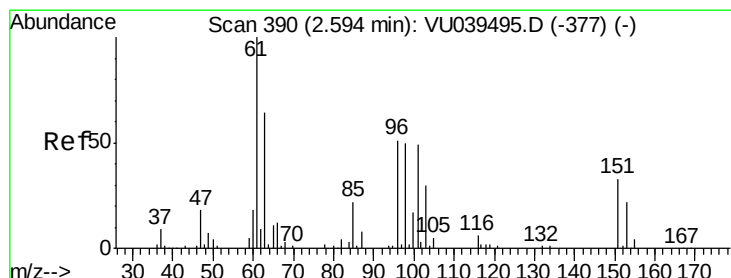
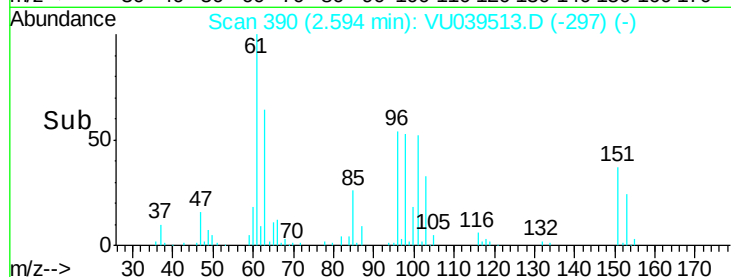
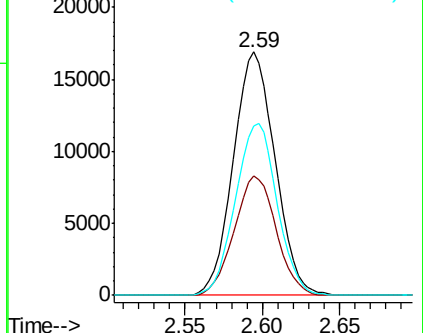
151 70.6 57.0 85.4



Abundance Ion 101.00 (100.70 to 101.70): VU039495.D (-376) (-)

Ion 85.00 (84.70 to 85.70): VU039495.D (-376) (-)

Ion 151.00 (150.70 to 151.70): VU039495.D (-376) (-)



#12

1,1-Dichloroethene

Concen: 4.312 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

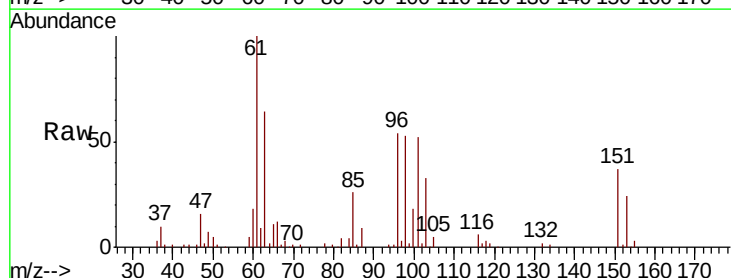
Tgt Ion: 96 Resp: 28899

Ion Ratio Lower Upper

96 100

61 185.2 125.4 232.8

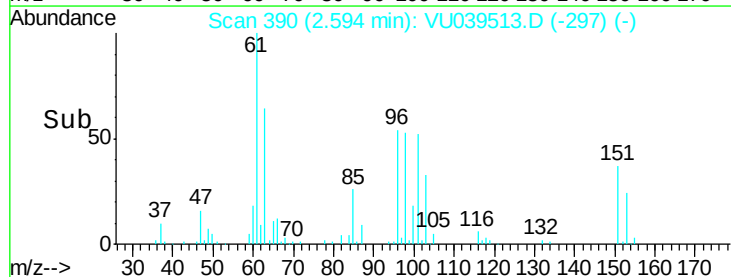
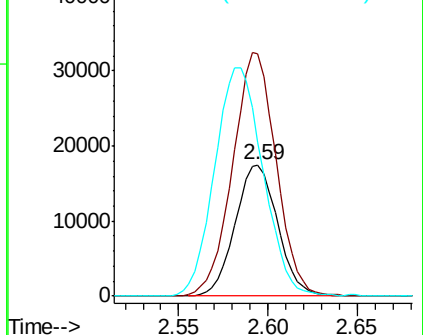
63 118.1 92.7 172.3

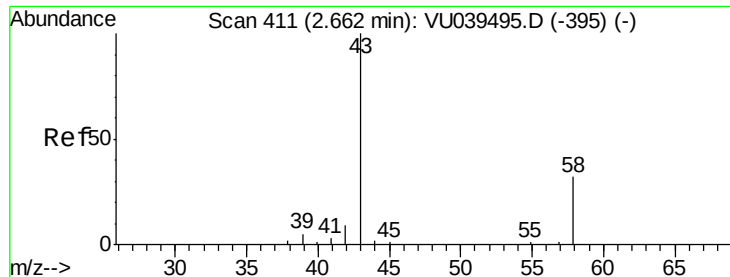


Abundance Ion 96.00 (95.70 to 96.70): VU039495.D (-377) (-)

Ion 61.05 (60.75 to 61.75): VU039495.D (-377) (-)

Ion 63.00 (62.70 to 63.70): VU039495.D (-377) (-)





#13

Acetone

Concen: 40.633 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.01 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

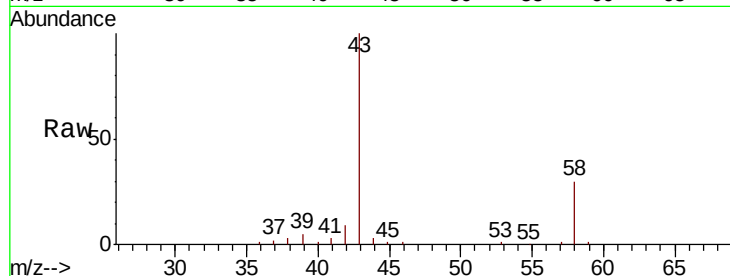
VSTD00523

Tot Ion: 43 Resp: 65545

Ion Ratio Lower Upper

43 100

58 31.0 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU039495.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU039495.D (-395) (-)

2.66

25000

20000

15000

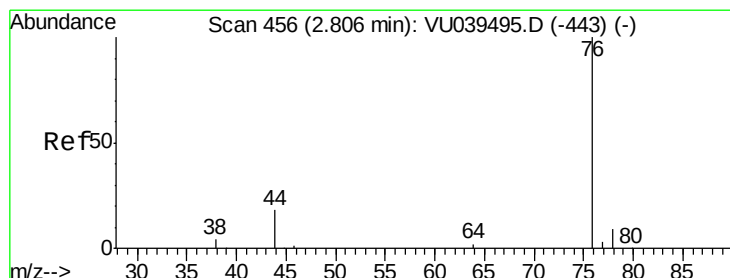
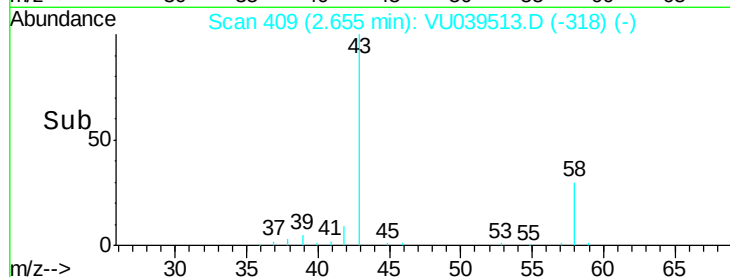
10000

5000

0

Time-->

2.60 2.70 2.80



#14

Carbon disulfide

Concen: 3.872 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU039513.D

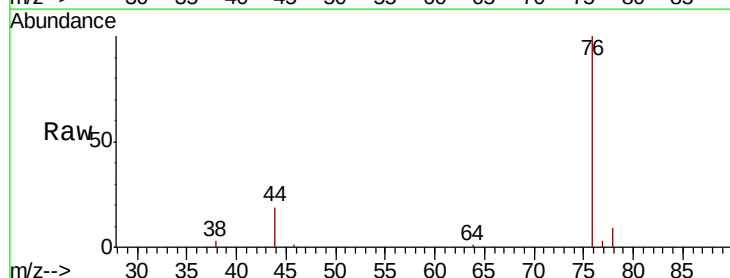
Acq: 16 Jul 2020 09:55

Tgt Ion: 76 Resp: 91426

Ion Ratio Lower Upper

76 100

78 9.1 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU039495.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU039495.D (-443) (-)

2.81

60000

50000

40000

30000

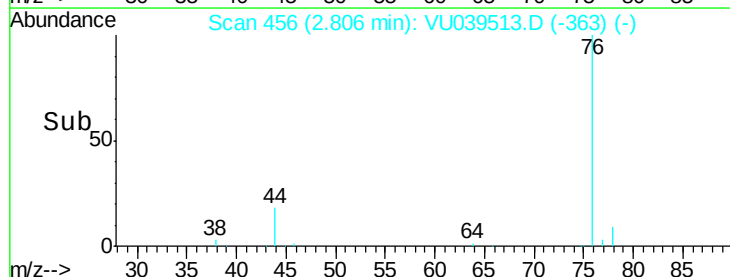
20000

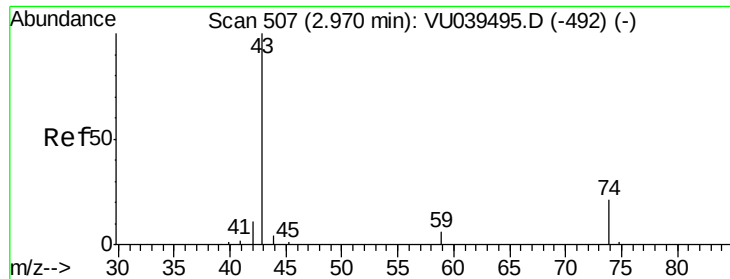
10000

0

Time-->

2.75 2.80 2.85





#15

Methyl Acetate

Concen: 4.119 ug/L

RT: 2.97 min Scan# 506

Delta R.T. -0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

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ClientSampleId :

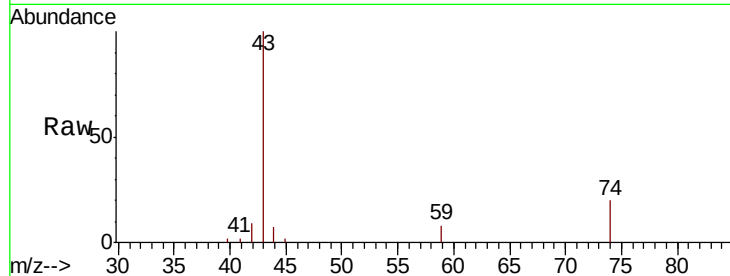
VSTD00523

Tot Ion: 43 Resp: 17552

Ion Ratio Lower Upper

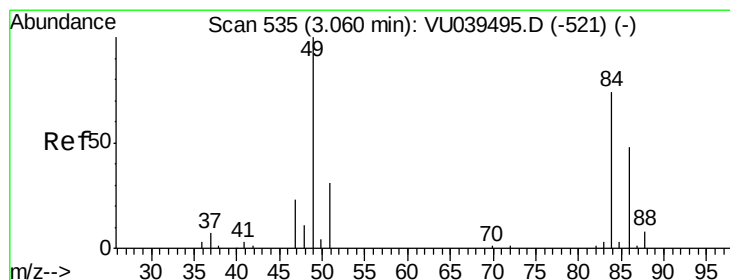
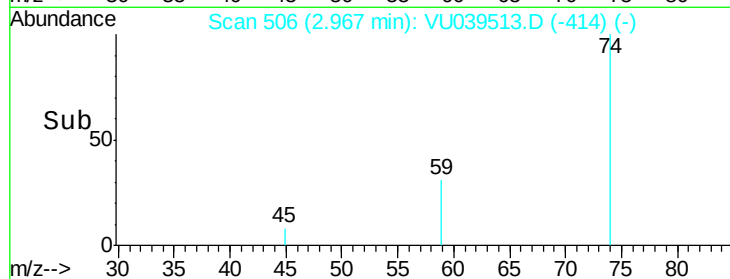
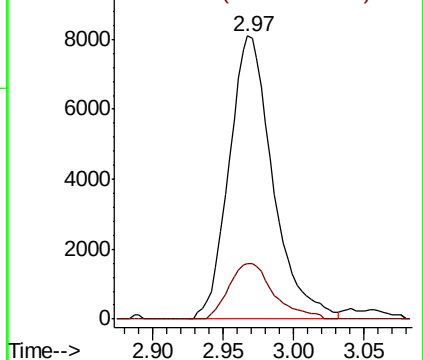
43 100

74 20.1 18.7 28.1



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.392 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

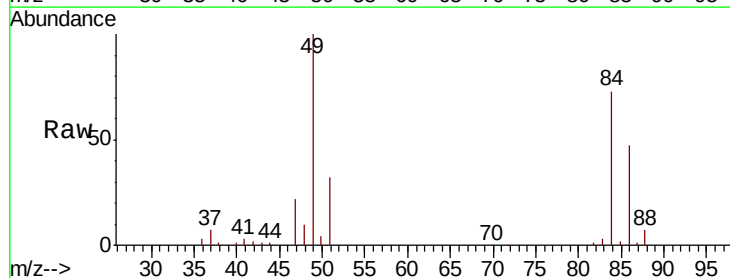
Tgt Ion: 84 Resp: 37025

Ion Ratio Lower Upper

84 100

86 65.3 43.5 80.9

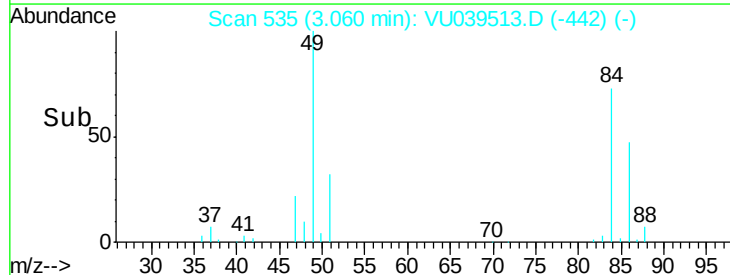
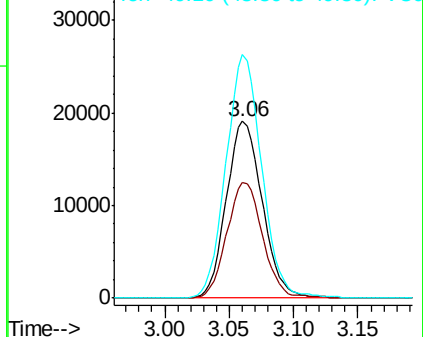
49 137.7 91.1 169.1

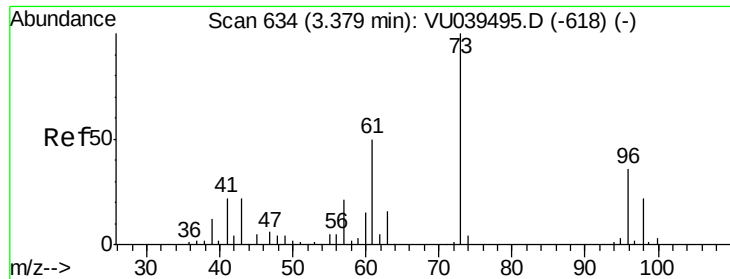


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

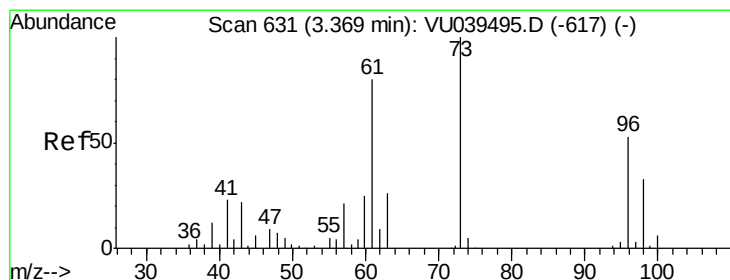
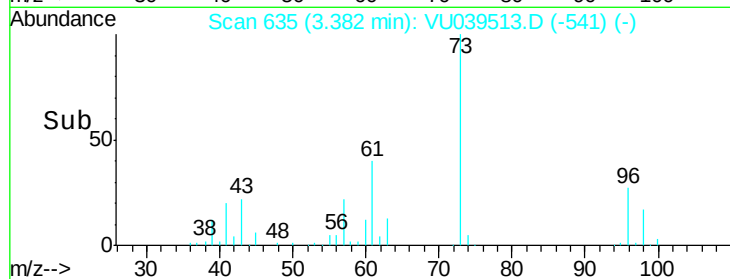
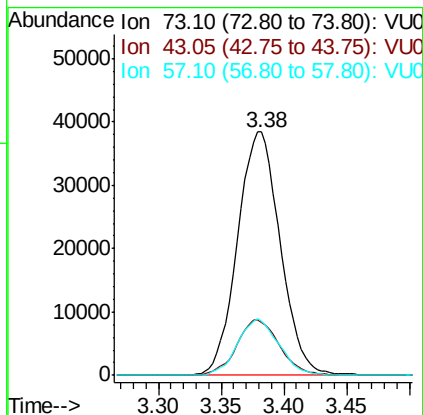
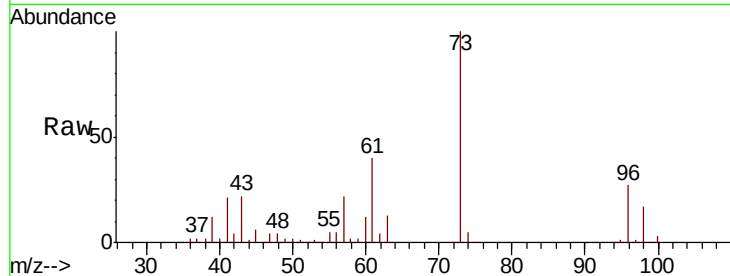




#17
Methyl tert-butyl Ether
Concen: 4.302 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU039513.D
Acq: 16 Jul 2020 09:55

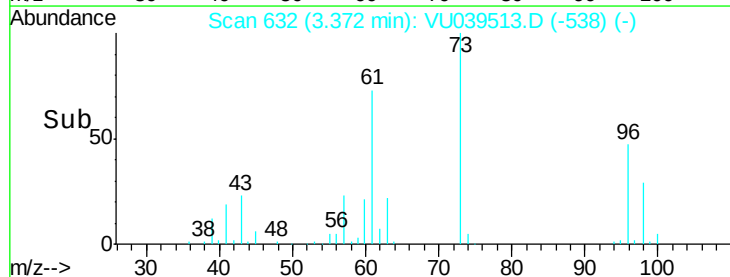
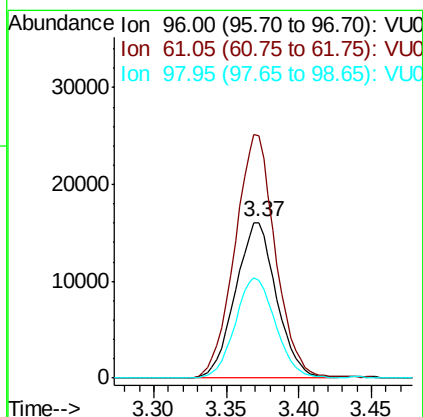
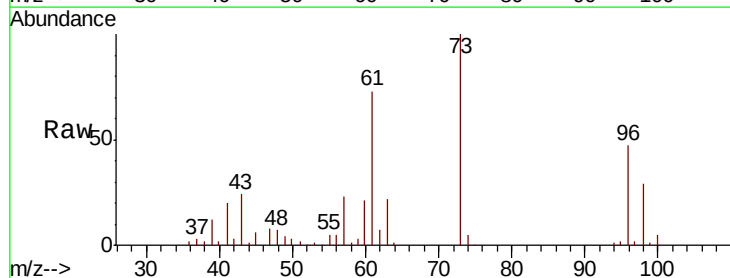
Instrument :
MSVOA_U
ClientSampleId :
VSTD00523

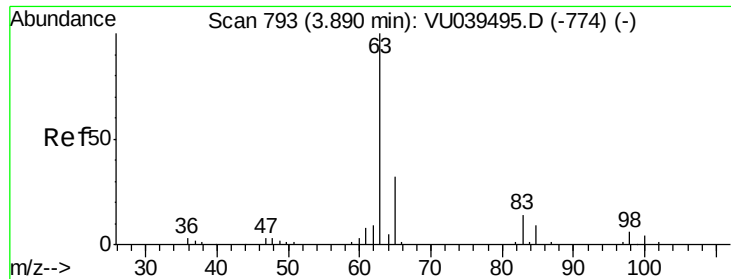
Tot Ion: 73 Resp: 90854
Ion Ratio Lower Upper
73 100
43 22.9 18.6 28.0
57 22.3 17.9 26.9



#18
trans-1,2-Dichloroethene
Concen: 4.256 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU039513.D
Acq: 16 Jul 2020 09:55

Tgt Ion: 96 Resp: 31579
Ion Ratio Lower Upper
96 100
61 155.7 102.1 189.5
98 62.5 42.5 78.9

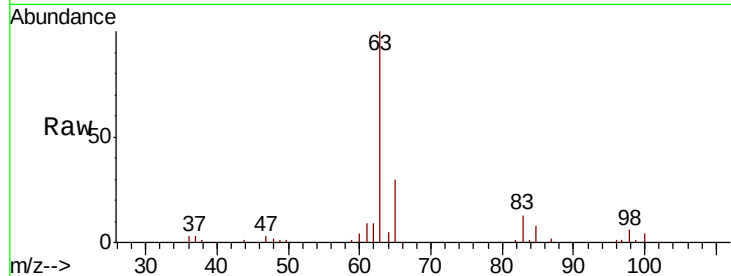




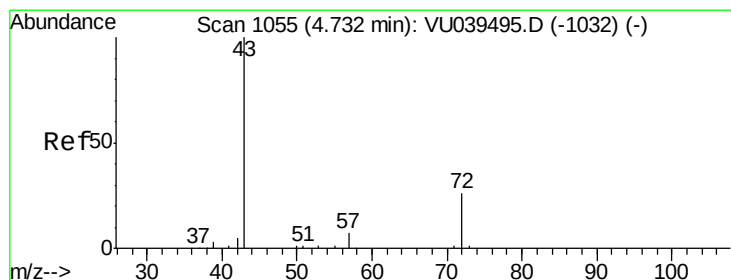
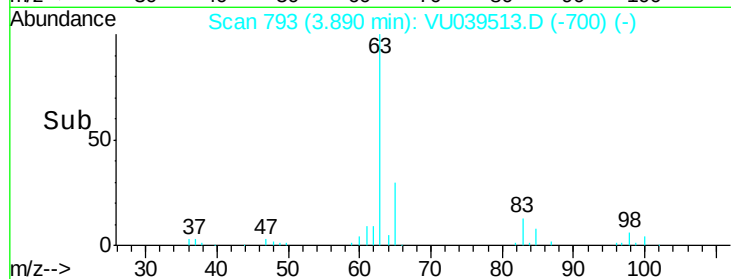
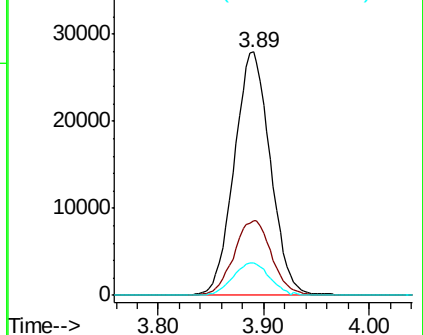
#19
 1,1-Dichloroethane
 Concen: 4.581 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

Tot Ion: 63 Resp: 66501
 Ion Ratio Lower Upper
 63 100
 65 30.5 23.0 42.6
 83 13.3 9.6 17.8

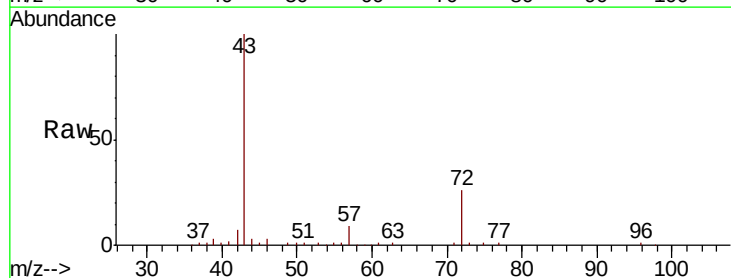


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

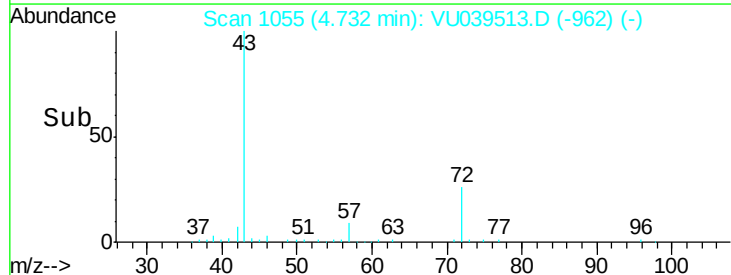
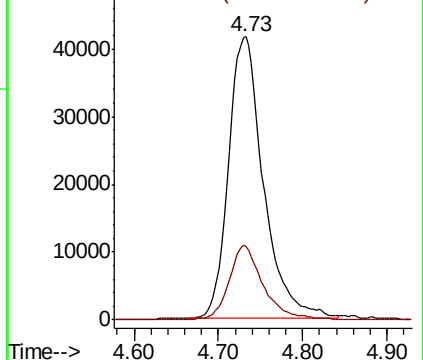


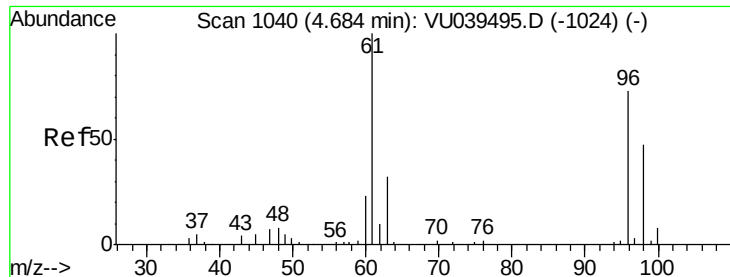
#21
 2-Butanone
 Concen: 41.546 ug/L
 RT: 4.73 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Tgt Ion: 43 Resp: 119617
 Ion Ratio Lower Upper
 43 100
 72 25.8 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: 4.526 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00523

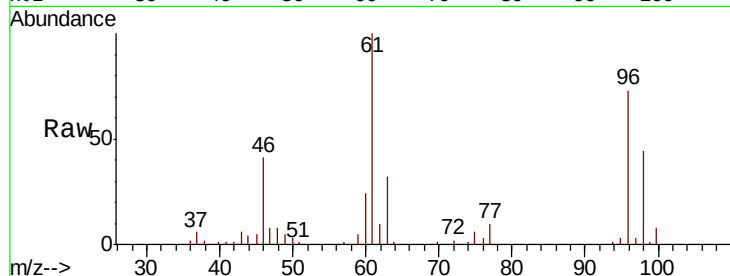
Tot Ion: 96 Resp: 37654

Ion Ratio Lower Upper

96 100

61 137.5 92.8 172.4

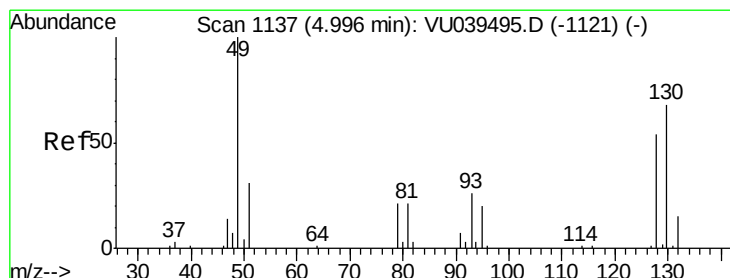
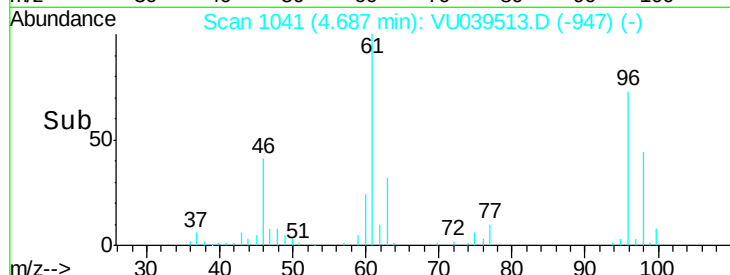
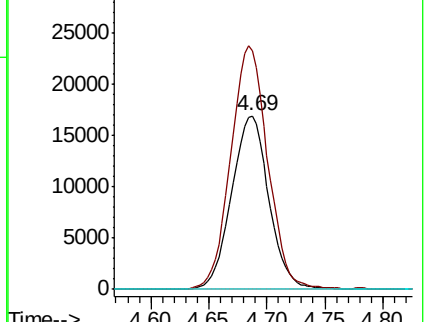
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039513.D (-1044) (-)

Ion 61.05 (60.75 to 61.75): VU039513.D (-1044) (-)

Ion 68.15 (67.85 to 68.85): VU039513.D (-1044) (-)



#23

Bromochloromethane

Concen: 4.546 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Tgt Ion:128 Resp: 17181

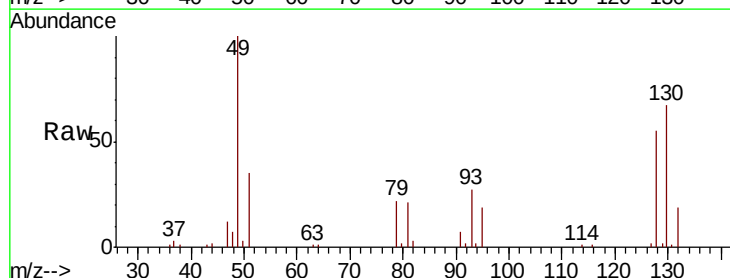
Ion Ratio Lower Upper

128 100

49 188.2 128.5 238.7

130 122.2 91.5 169.9

51 63.7 47.0 70.6

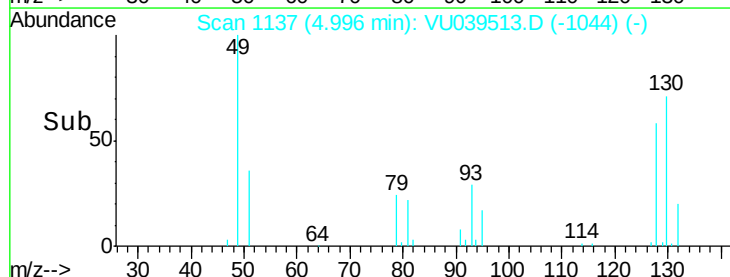
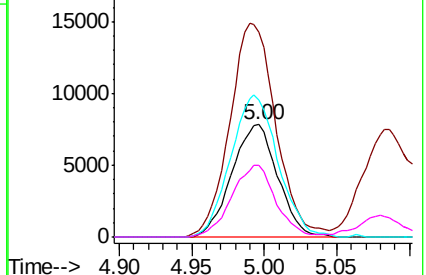


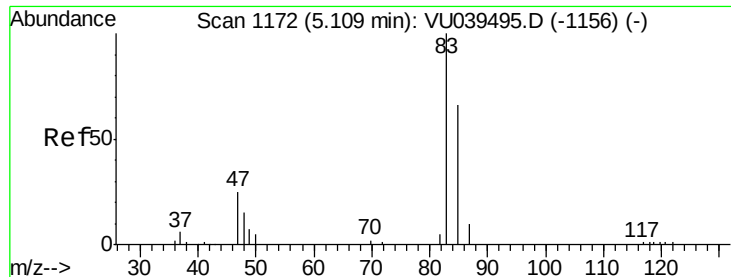
Abundance Ion 127.90 (127.60 to 128.60): VU039513.D (-1044) (-)

Ion 49.10 (48.80 to 49.80): VU039513.D (-1044) (-)

Ion 129.95 (129.65 to 130.65): VU039513.D (-1044) (-)

Ion 51.05 (50.75 to 51.75): VU039513.D (-1044) (-)

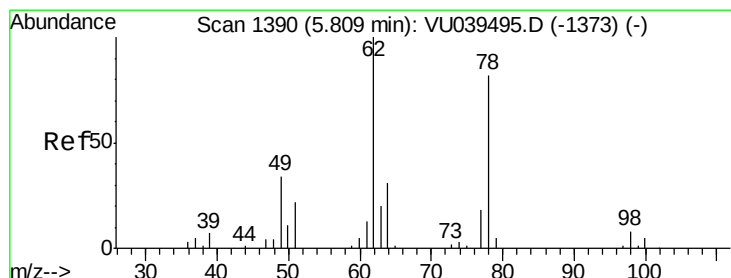
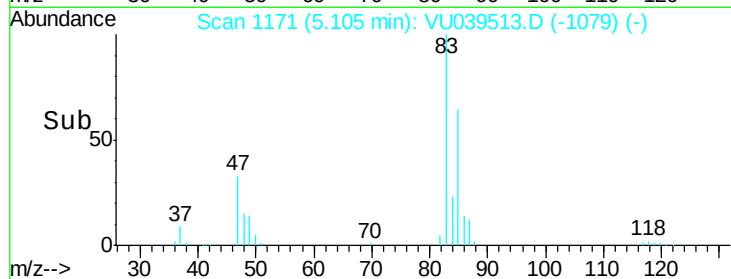
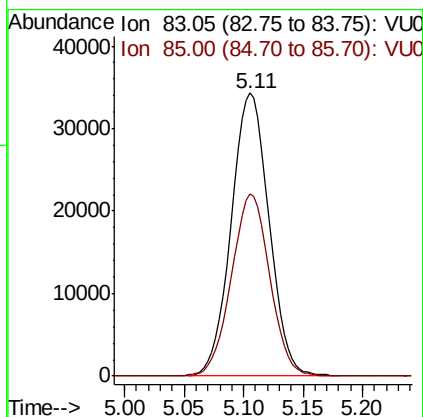
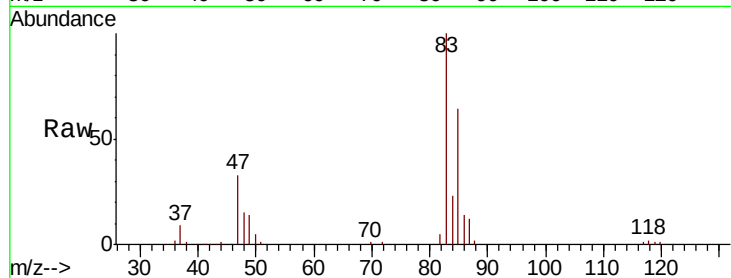




#25
Chloroform
Concen: 5.148 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU039513.D
Acq: 16 Jul 2020 09:55

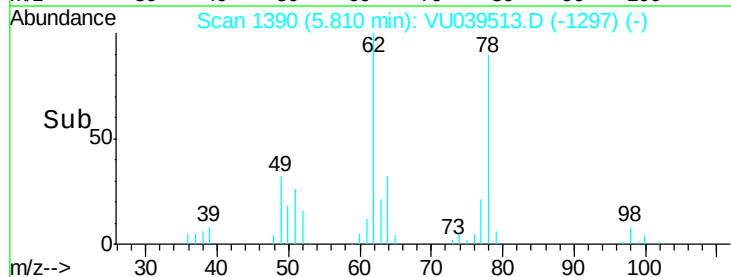
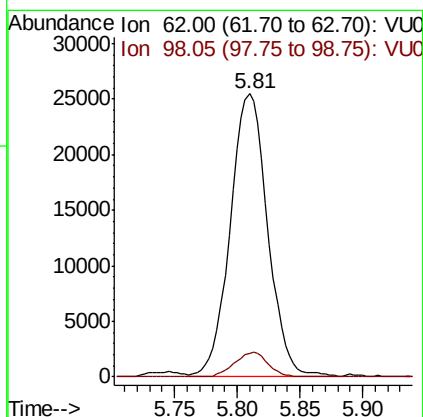
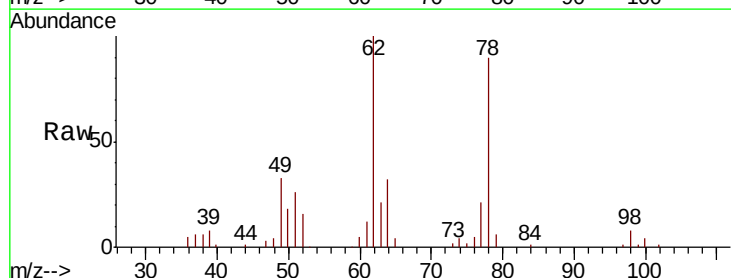
Instrument :
MSVOA_U
ClientSampleId :
VSTD00523

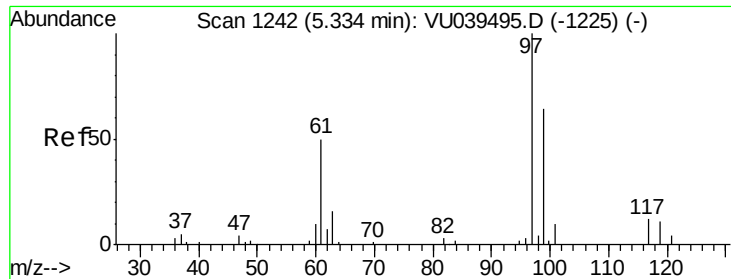
Tot Ion: 83 Resp: 75475
Ion Ratio Lower Upper
83 100
85 64.5 44.9 83.5



#27
1,2-Dichloroethane
Concen: 4.993 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU039513.D
Acq: 16 Jul 2020 09:55

Tgt Ion: 62 Resp: 52948
Ion Ratio Lower Upper
62 100
98 8.2 6.3 9.5

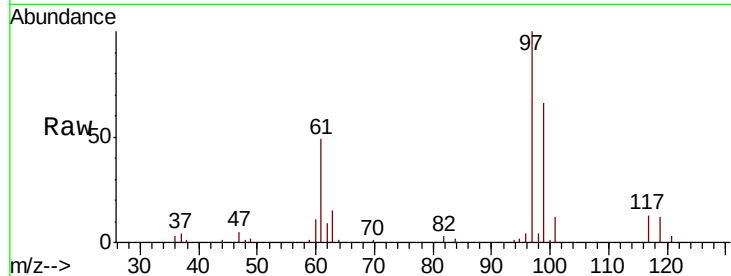




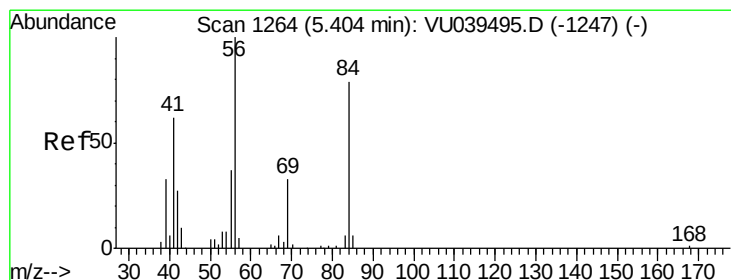
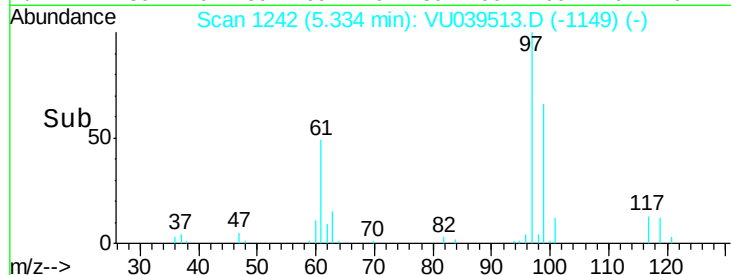
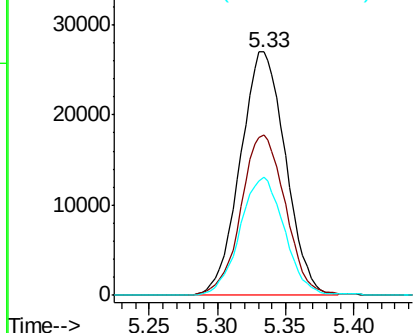
#29
 1,1,1-Trichloroethane
 Concen: 4.777 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

Tot Ion: 97 Resp: 62175
 Ion Ratio Lower Upper
 97 100
 99 64.7 52.6 79.0
 61 47.5 37.9 56.9

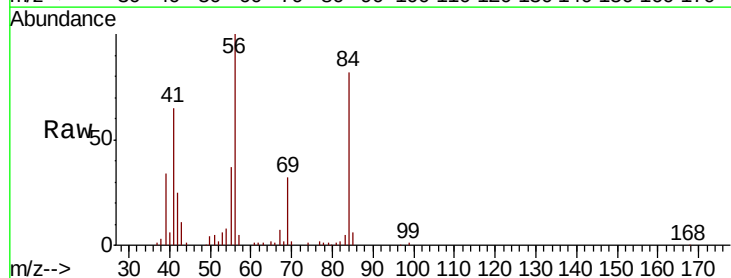


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

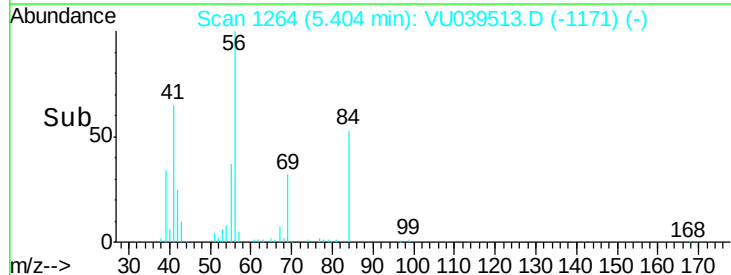
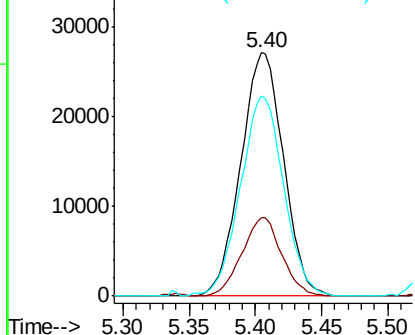


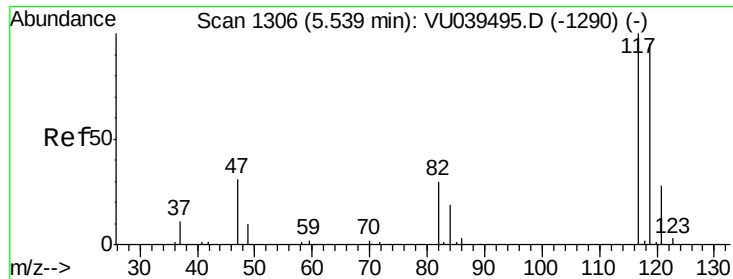
#30
 Cyclohexane
 Concen: 4.430 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Tgt Ion: 56 Resp: 60702
 Ion Ratio Lower Upper
 56 100
 69 30.2 24.1 36.1
 84 83.5 67.0 100.6



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





#31

Carbon tetrachloride

Concen: 4.861 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

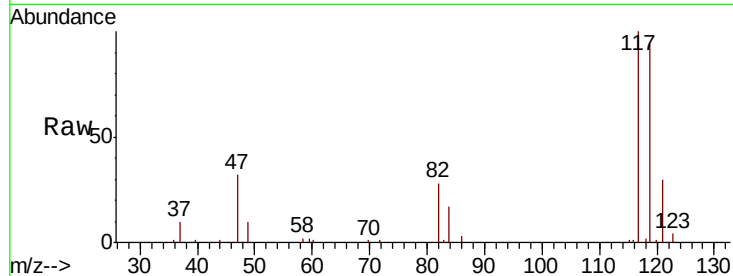
VSTD00523

Tot Ion:117 Resp: 53983

Ion Ratio Lower Upper

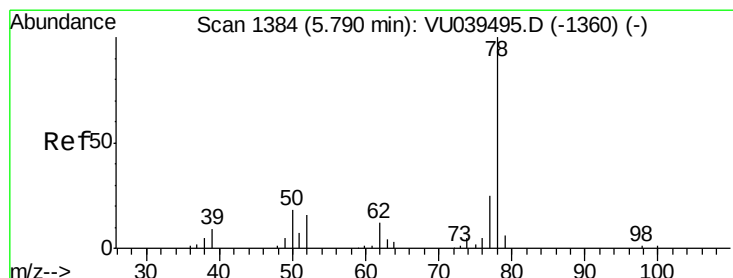
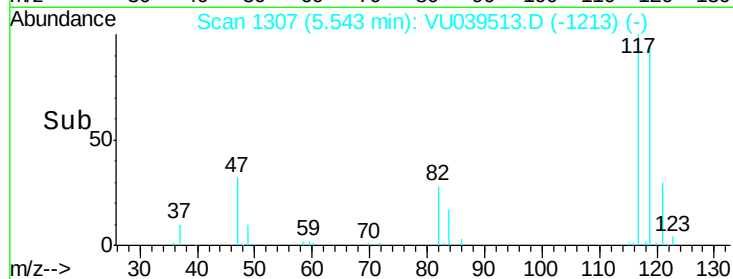
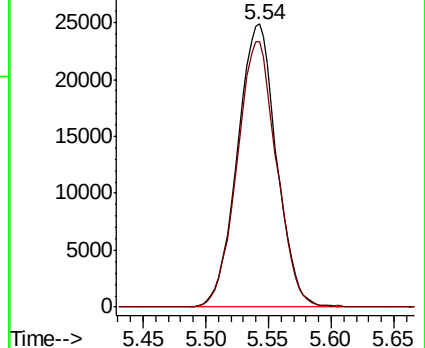
117 100

119 94.3 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.522 ug/L

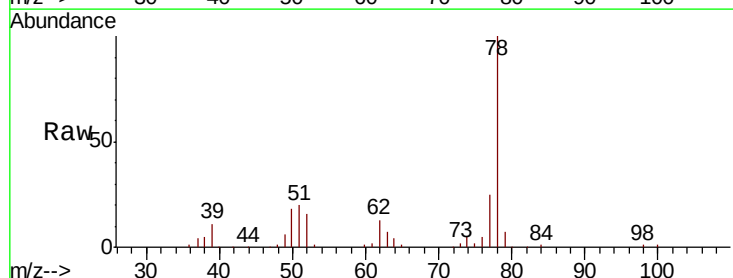
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

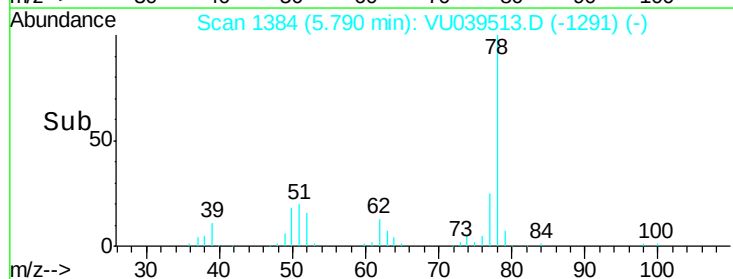
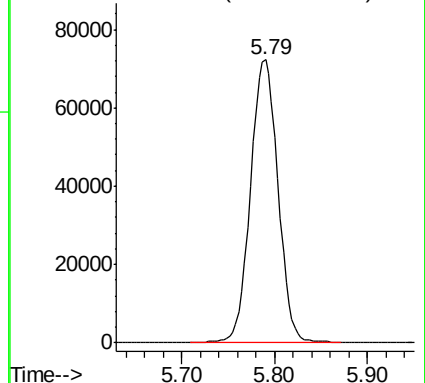
Lab File: VU039513.D

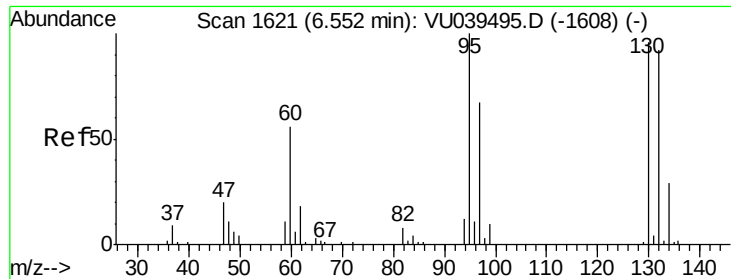
Acq: 16 Jul 2020 09:55

Tgt Ion: 78 Resp: 149411



Abundance Ion 78.10 (77.80 to 78.80): VU0

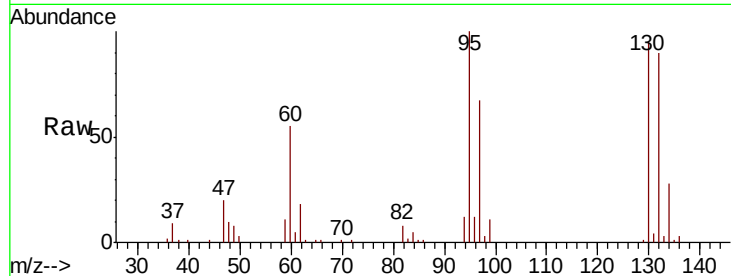




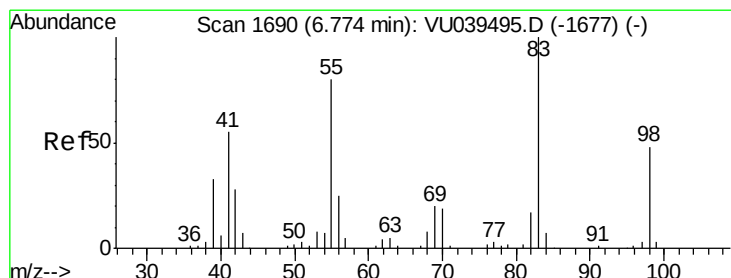
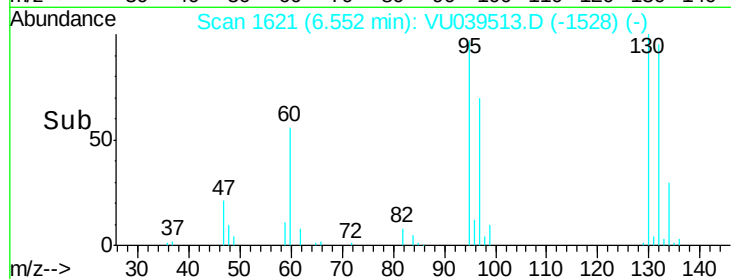
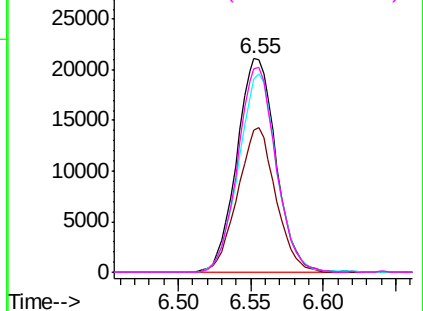
#34
 Trichloroethene
 Concen: 4.643 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

Tot Ion:	95	Resp:	39657
Ion	Ratio	Lower	Upper
95	100		
97	66.6	46.3	85.9
132	90.2	64.0	118.8
130	95.4	64.3	119.5

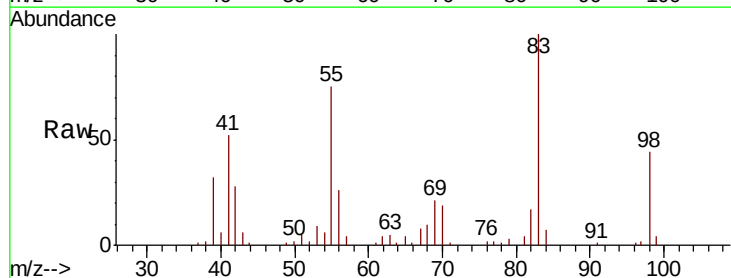


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

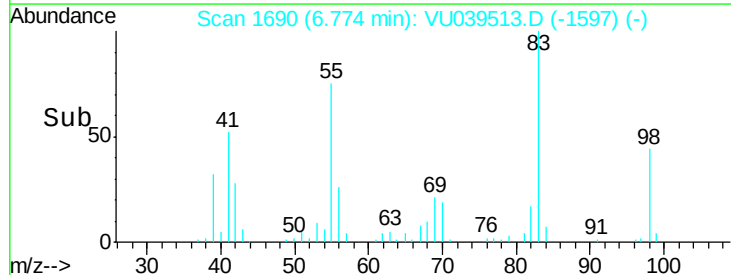
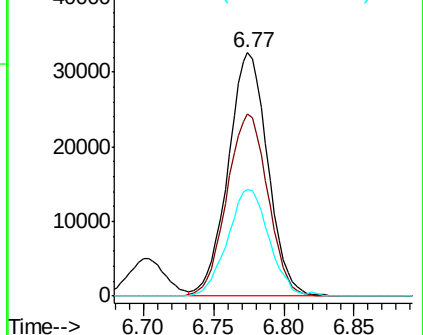


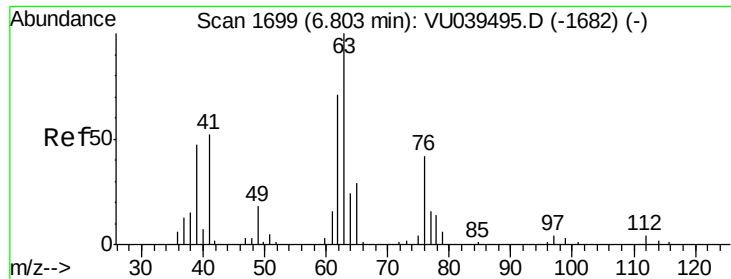
#35
 Methylcyclohexane
 Concen: 4.694 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Tgt Ion:	83	Resp:	64229
Ion	Ratio	Lower	Upper
83	100		
55	77.0	62.1	93.1
98	45.3	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

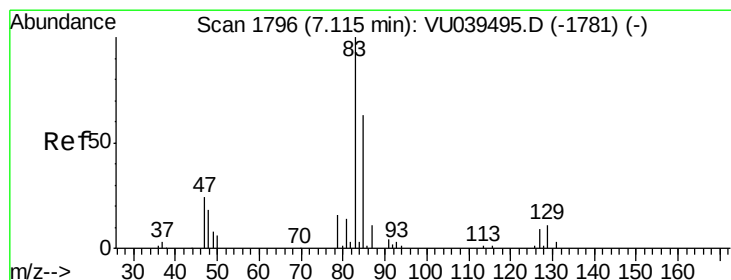
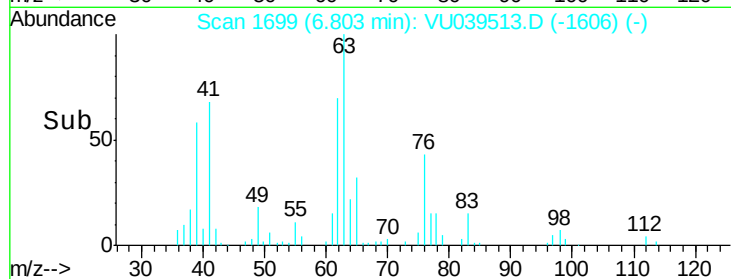
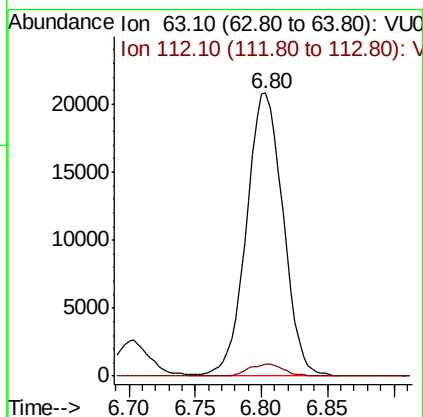
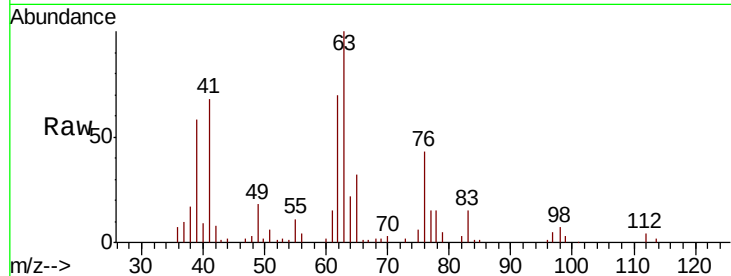




#37
 1,2-Dichloropropane
 Concen: 4.472 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

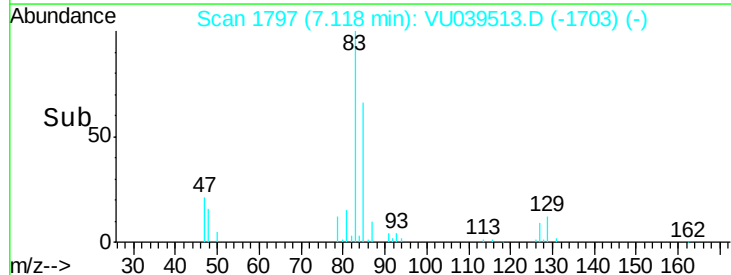
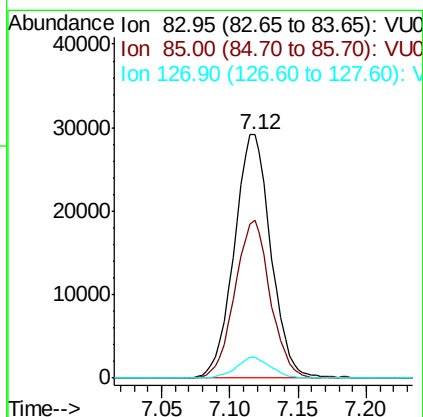
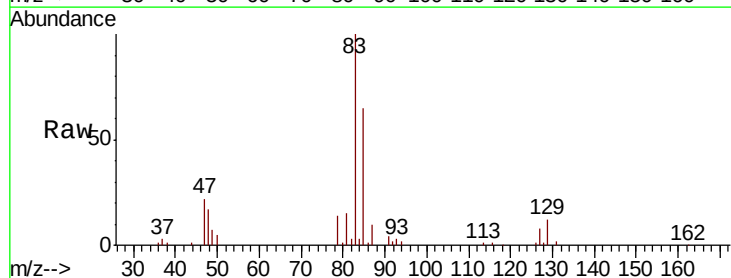
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

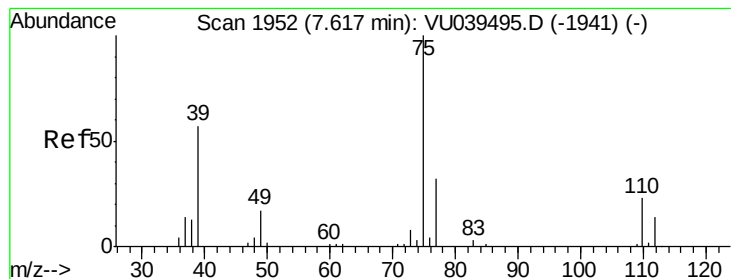
Tot Ion: 63 Resp: 40283
 Ion Ratio Lower Upper
 63 100
 112 4.1 2.5 3.7#



#38
 Bromodichloromethane
 Concen: 4.720 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Tgt Ion: 83 Resp: 54291
 Ion Ratio Lower Upper
 83 100
 85 64.6 44.0 81.6
 127 8.4 6.2 9.4





#39

cis-1,3-Dichloropropene

Concen: 4.293 ug/L

RT: 7.62 min Scan# 1952

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

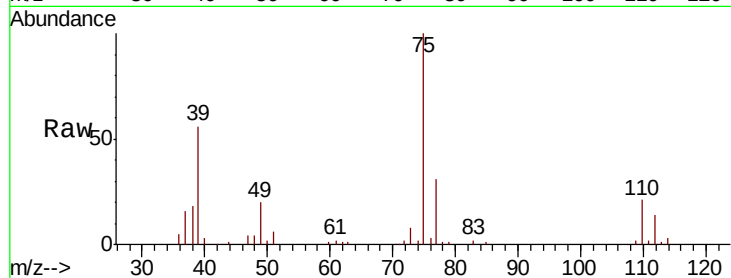
VSTD00523

Tot Ion: 75 Resp: 58446

Ion Ratio Lower Upper

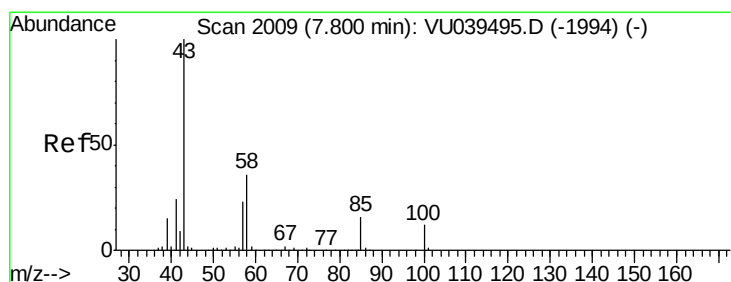
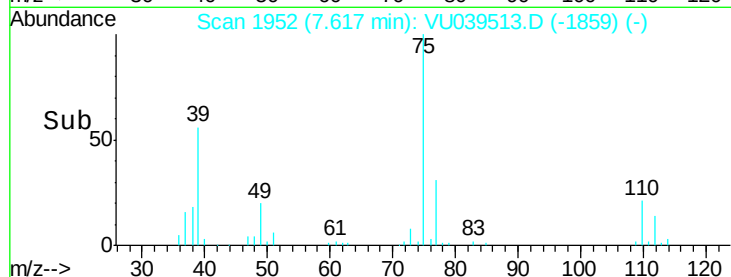
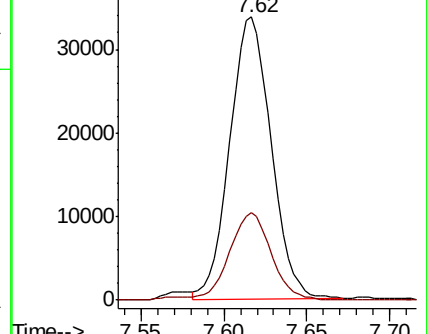
75 100

77 30.8 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU039513.D (-1859) (-)

Ion 77.05 (76.75 to 77.75): VU039513.D (-1859) (-)



#40

4-Methyl-2-pentanone

Concen: 41.682 ug/L

RT: 7.80 min Scan# 2009

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

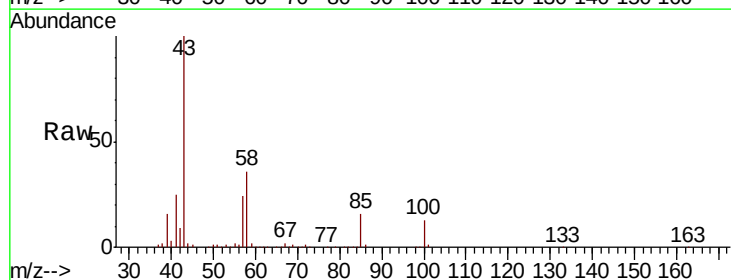
Tgt Ion: 43 Resp: 313183

Ion Ratio Lower Upper

43 100

58 36.4 30.5 45.7

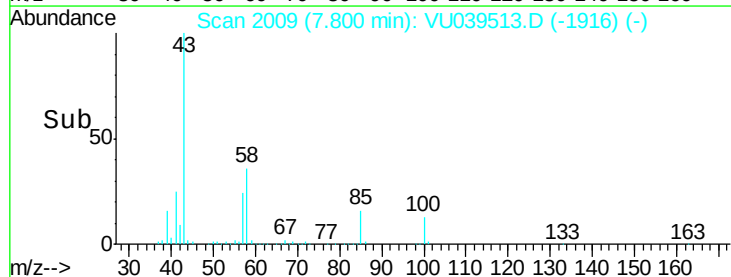
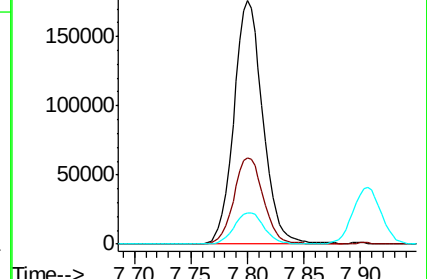
100 13.3 10.3 15.5

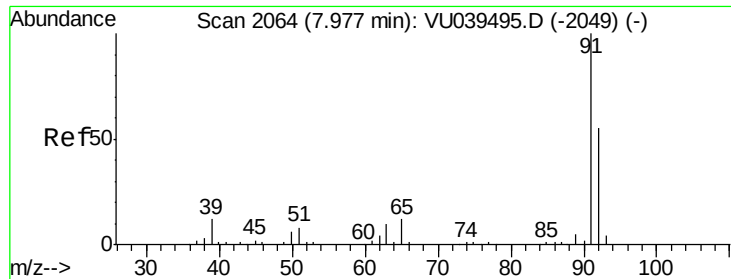


Abundance Ion 43.05 (42.75 to 43.75): VU039513.D (-1916) (-)

Ion 58.05 (57.75 to 58.75): VU039513.D (-1916) (-)

Ion 100.15 (99.85 to 100.85): VU039513.D (-1916) (-)





#42

Toluene

Concen: 4.571 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

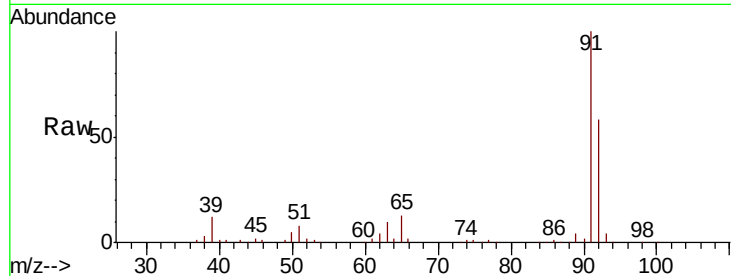
VSTD00523

Tot Ion: 91 Resp: 161716

Ion Ratio Lower Upper

91 100

92 58.3 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU039495.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU039495.D (-2049) (-)

7.98

100000

80000

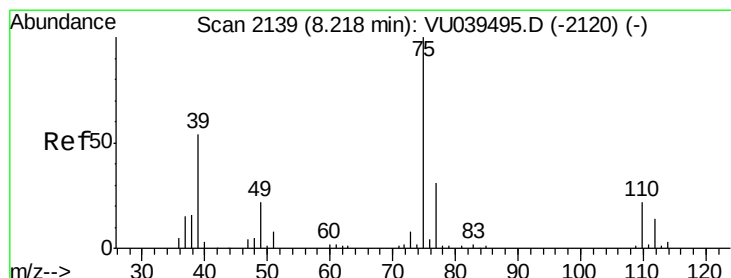
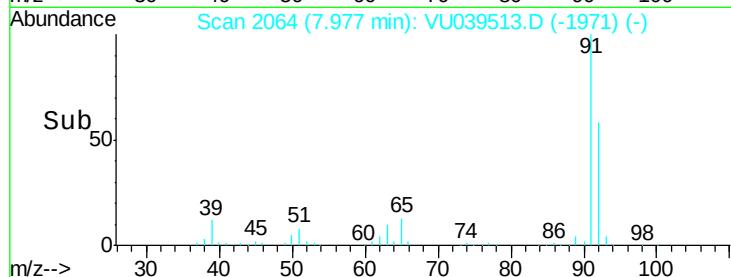
60000

40000

20000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.457 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU039513.D

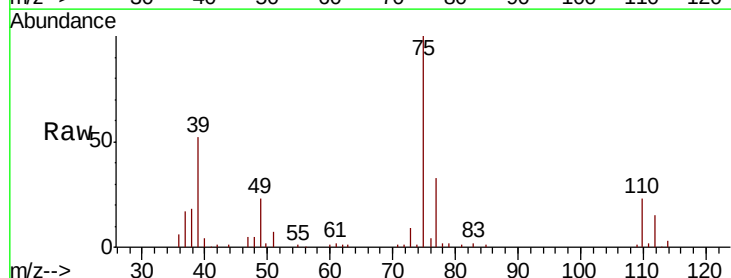
Acq: 16 Jul 2020 09:55

Tgt Ion: 75 Resp: 53842

Ion Ratio Lower Upper

75 100

77 33.3 23.7 43.9



Abundance Ion 75.05 (74.75 to 75.75): VU039495.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU039495.D (-2120) (-)

8.22

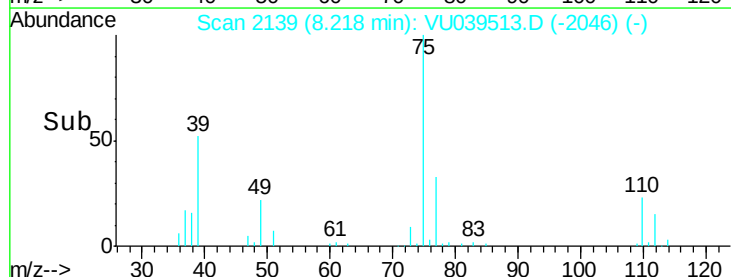
30000

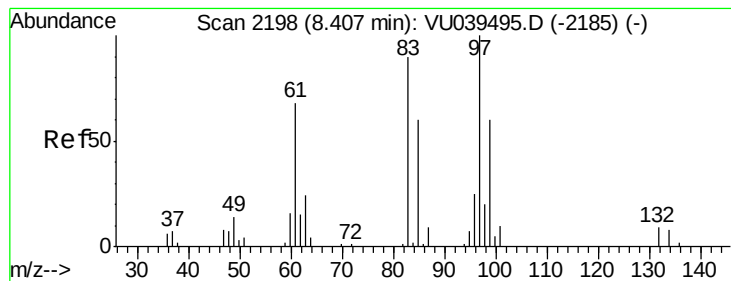
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.560 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00523

Tot Ion: 97 Resp: 29497

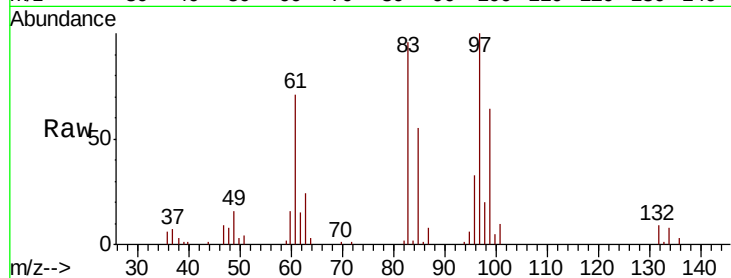
Ion Ratio Lower Upper

97 100

99 63.5 40.7 75.7

83 96.2 60.6 112.6

85 54.8 38.3 71.1



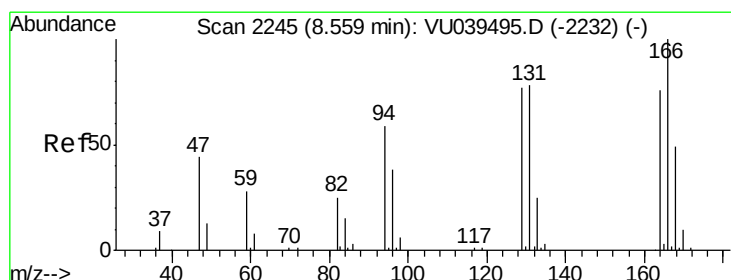
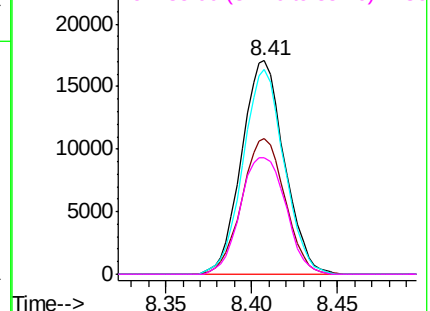
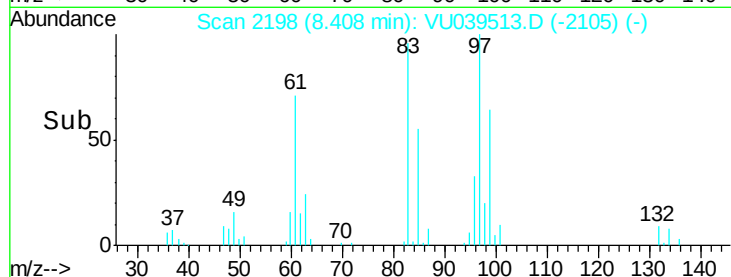
Abundance

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: 4.865 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Tgt Ion: 164 Resp: 28903

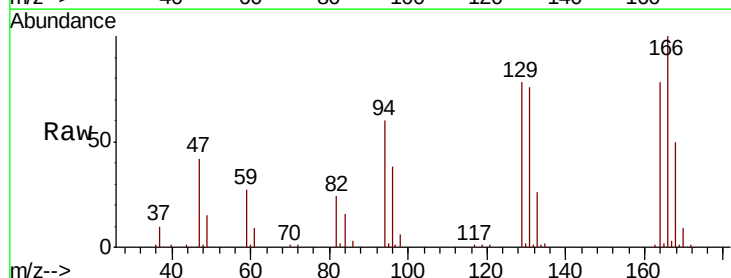
Ion Ratio Lower Upper

164 100

129 100.1 68.6 127.4

131 97.4 66.4 123.4

166 128.2 85.9 159.5



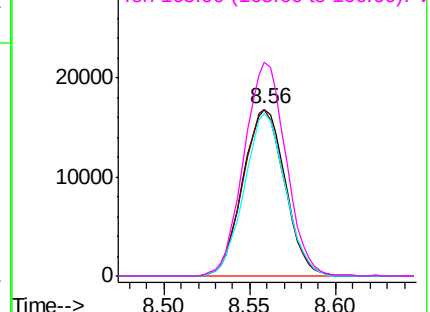
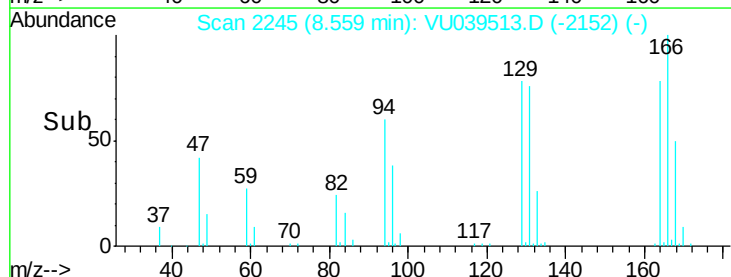
Abundance

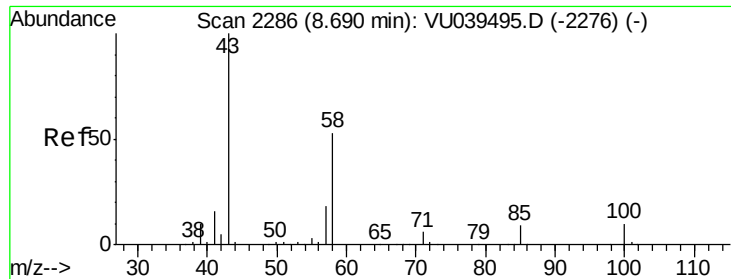
Ion 163.90 (163.60 to 164.60): V

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

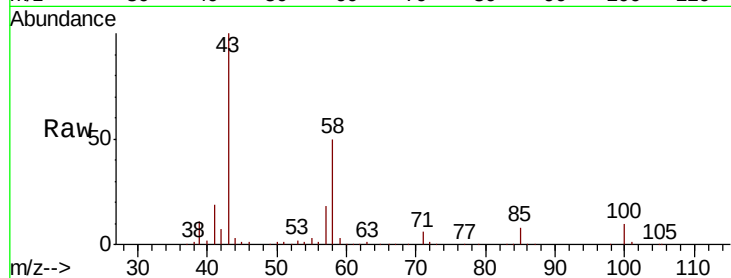




#48
2-Hexanone
Concen: 40.880 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU039513.D
Acq: 16 Jul 2020 09:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD00523

Tot Ion:	43	Resp:	226477
Ion	Ratio	Lower	Upper
43	100		
58	52.3	42.0	63.0
57	18.3	14.0	21.0
100	10.2	8.2	12.2

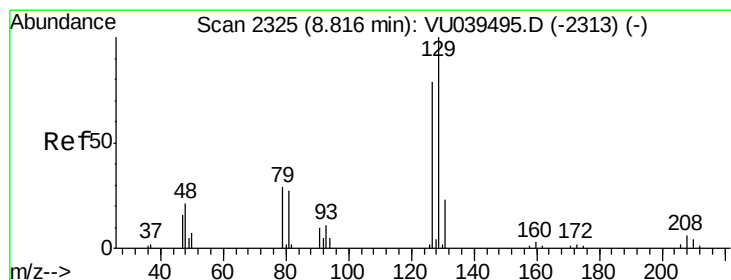
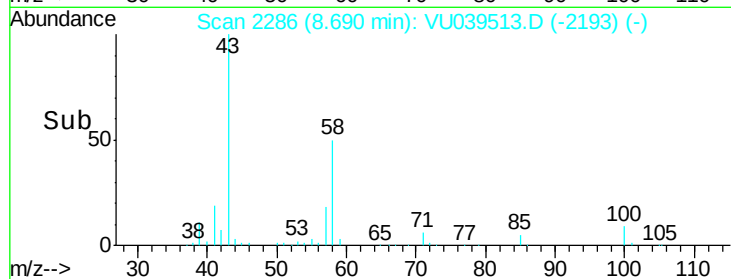
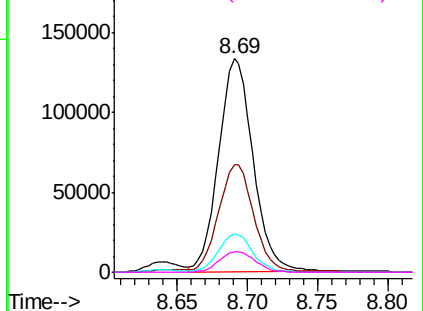


Abundance Ion 43.05 (42.75 to 43.75): VU039513.D (-2193) (-)

Ion 58.05 (57.75 to 58.75): VU039513.D (-2193) (-)

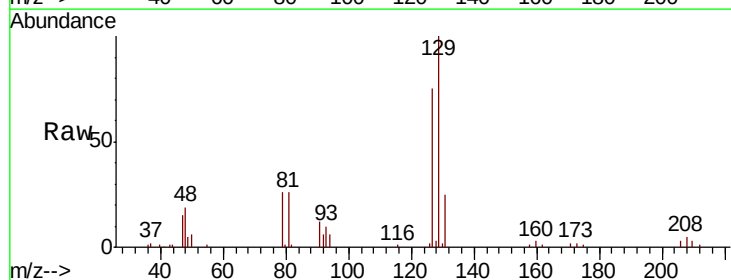
Ion 57.20 (56.90 to 57.90): VU039513.D (-2193) (-)

Ion 100.15 (99.85 to 100.85): VU039513.D (-2193) (-)



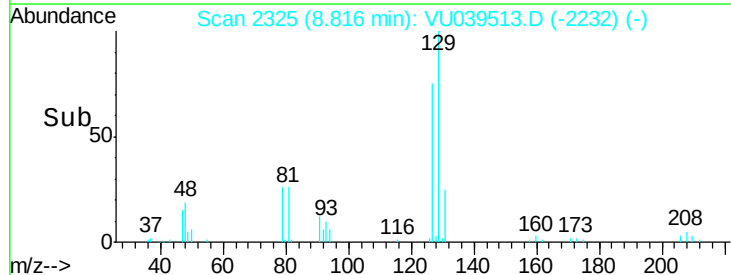
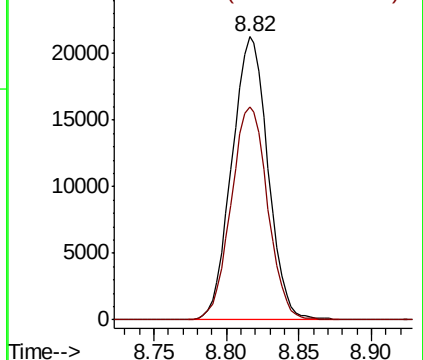
#49
Dibromochloromethane
Concen: 4.695 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU039513.D
Acq: 16 Jul 2020 09:55

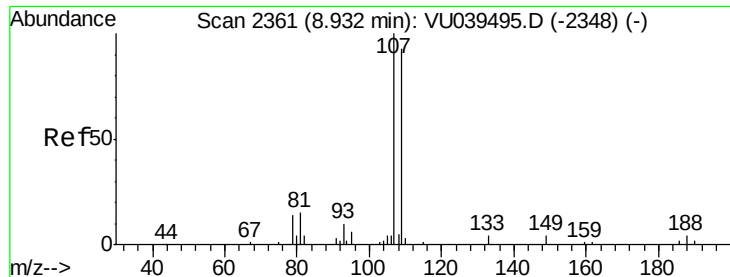
Tgt Ion:	129	Resp:	36786
Ion	Ratio	Lower	Upper
129	100		
127	75.2	55.4	102.8



Abundance Ion 128.95 (128.65 to 129.65): VU039513.D (-2232) (-)

Ion 126.90 (126.60 to 127.60): VU039513.D (-2232) (-)

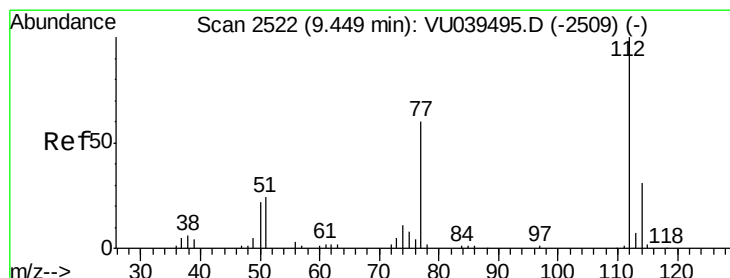
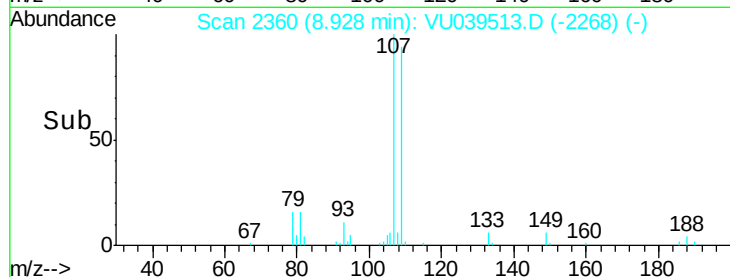
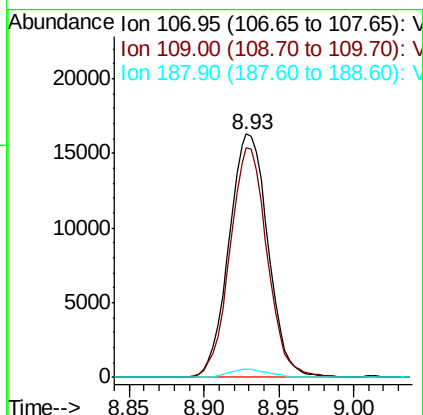
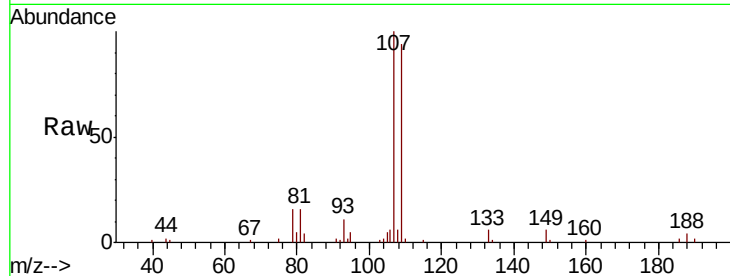




#50
 1,2-Dibromoethane
 Concen: 4.490 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. -0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

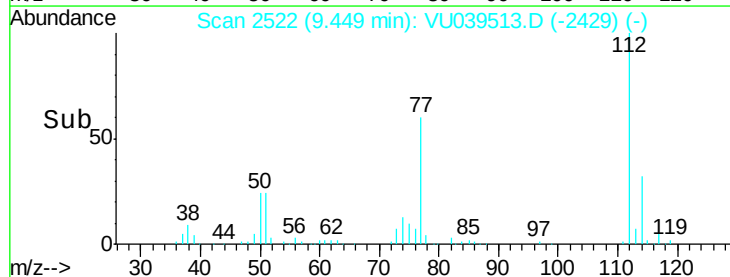
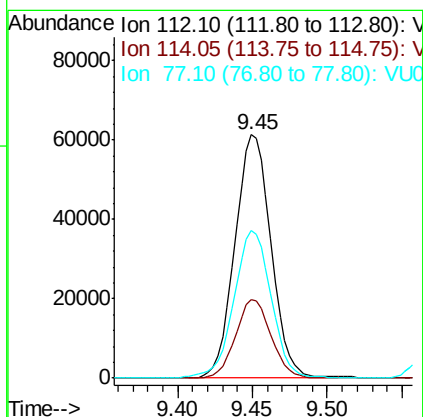
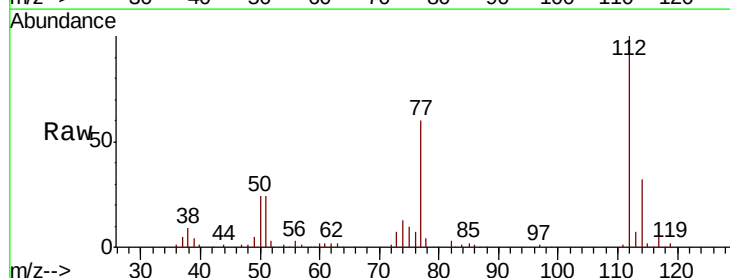
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

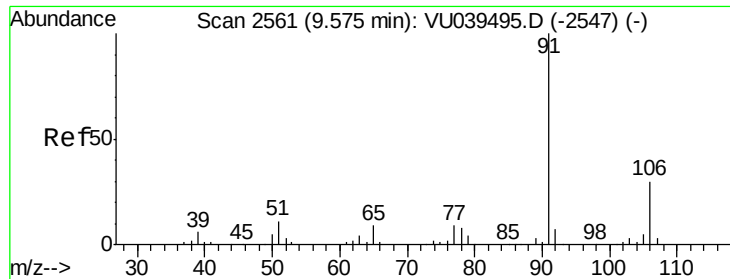
Tot Ion:107 Resp: 29508
 Ion Ratio Lower Upper
 107 100
 109 94.3 64.0 118.8
 188 3.6 2.6 3.8



#51
 Chlorobenzene
 Concen: 4.765 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Tgt Ion:112 Resp: 103025
 Ion Ratio Lower Upper
 112 100
 114 32.4 22.1 41.1
 77 60.4 49.9 74.9





#52

Ethylbenzene

Concen: 4.807 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

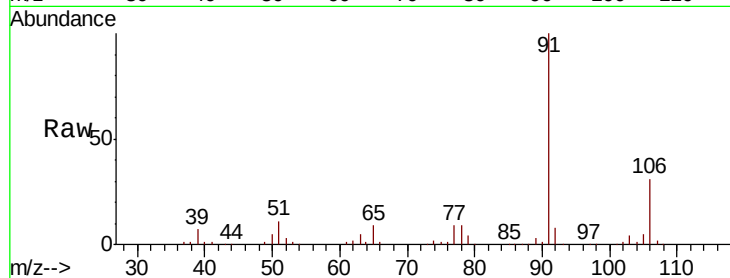
VSTD00523

Tot Ion: 91 Resp: 187951

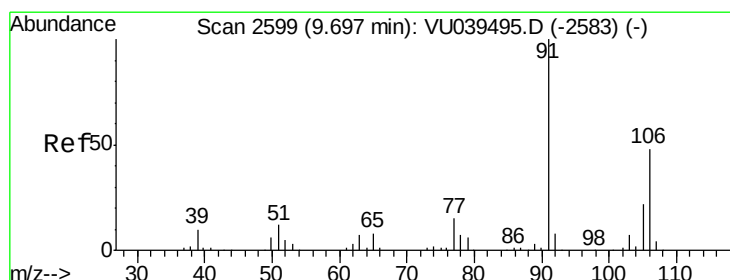
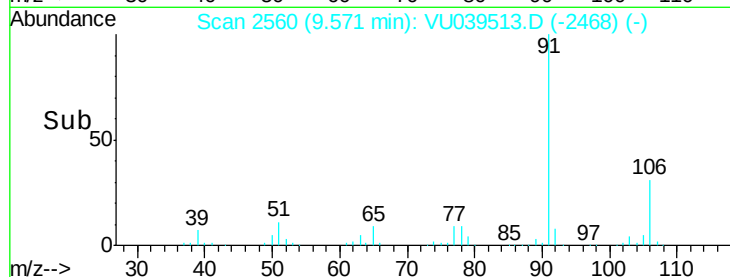
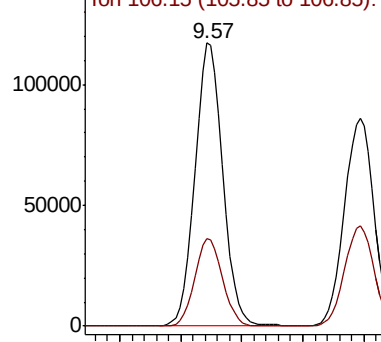
Ion Ratio Lower Upper

91 100

106 30.7 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039513.D (-2547) (-)



#53

m,p-Xylene

Concen: 4.729 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU039513.D

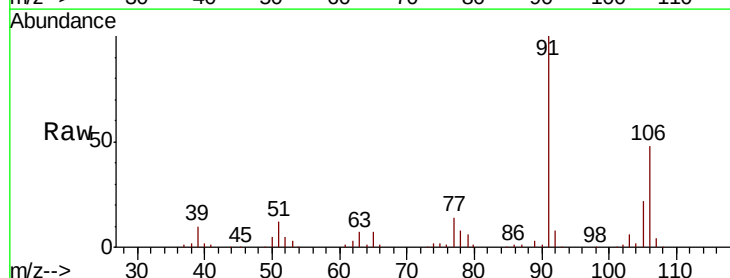
Acq: 16 Jul 2020 09:55

Tgt Ion: 106 Resp: 69666

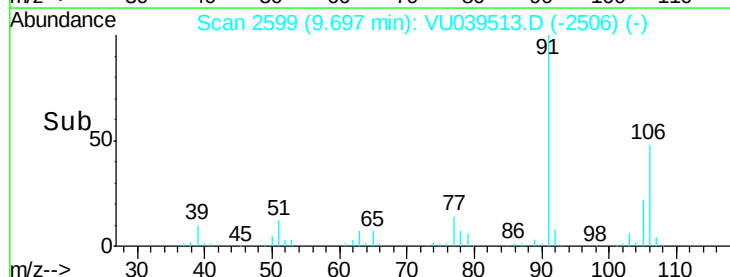
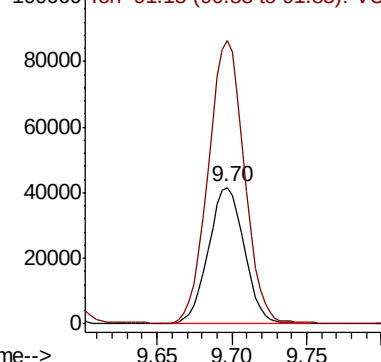
Ion Ratio Lower Upper

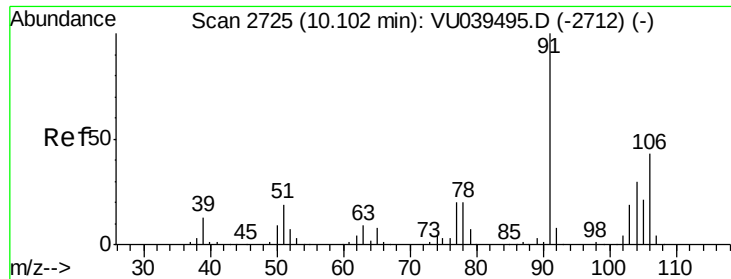
106 100

91 207.5 144.0 267.4



Abundance Ion 106.15 (105.85 to 106.85): VU039513.D (-2599) (-)

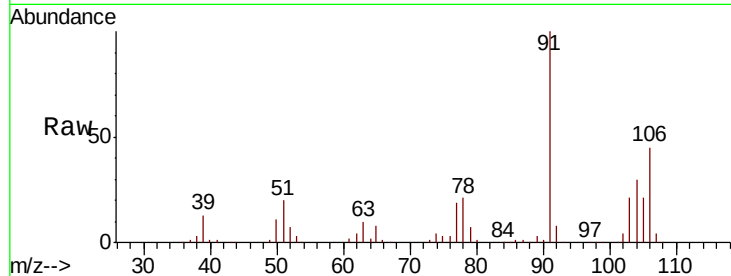




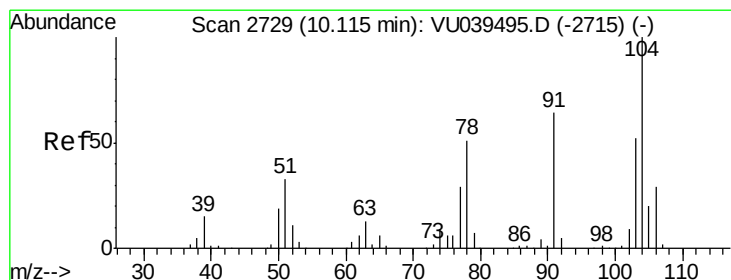
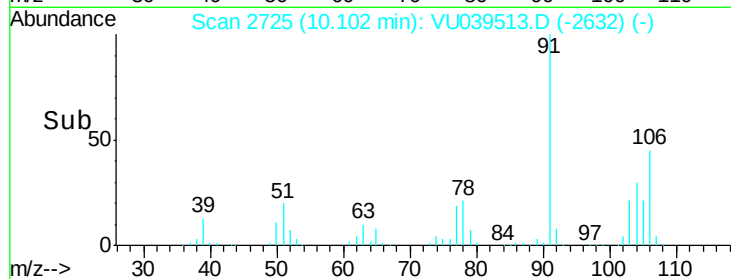
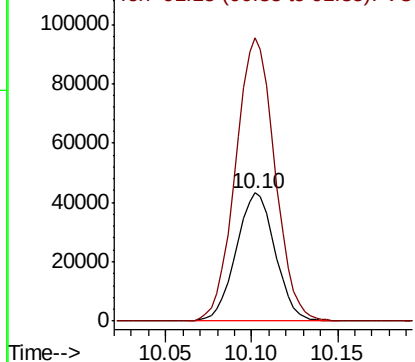
#54
o-Xylene
Concen: 4.762 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU039513.D
Acq: 16 Jul 2020 09:55

Instrument :
MSVOA_U
ClientSampleId :
VSTD00523

Tot Ion:106 Resp: 68305
Ion Ratio Lower Upper
106 100
91 220.4 154.6 287.2

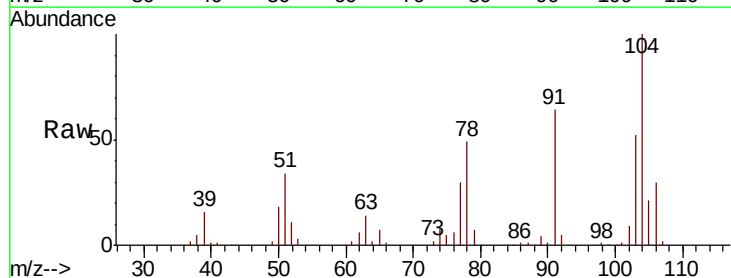


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

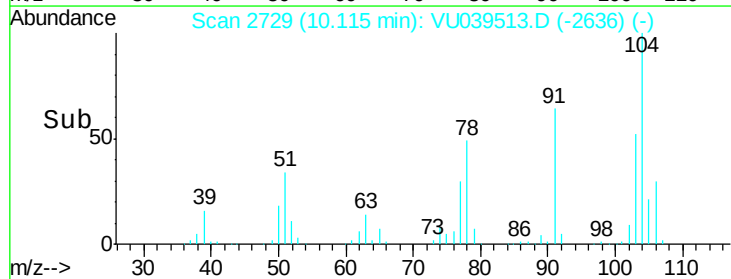
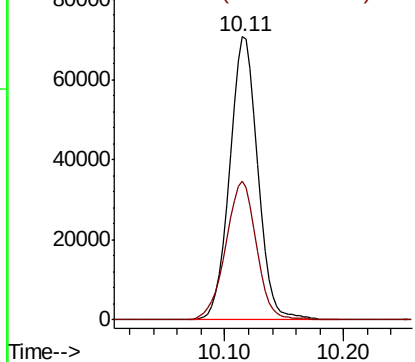


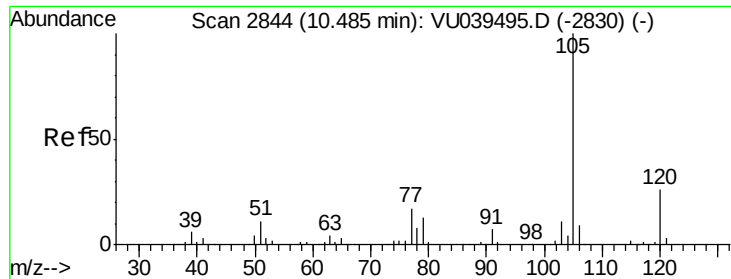
#55
Styrene
Concen: 4.644 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU039513.D
Acq: 16 Jul 2020 09:55

Tgt Ion:104 Resp: 115883
Ion Ratio Lower Upper
104 100
78 49.0 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: 4.820 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00523

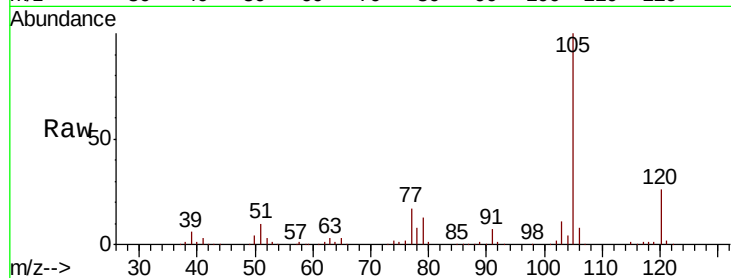
Tot Ion:105 Resp: 186955

Ion Ratio Lower Upper

105 100

120 25.6 20.7 31.1

77 17.2 13.9 20.9

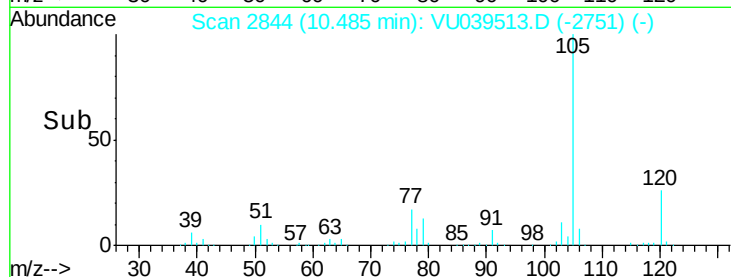


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V

Time-->



10.48

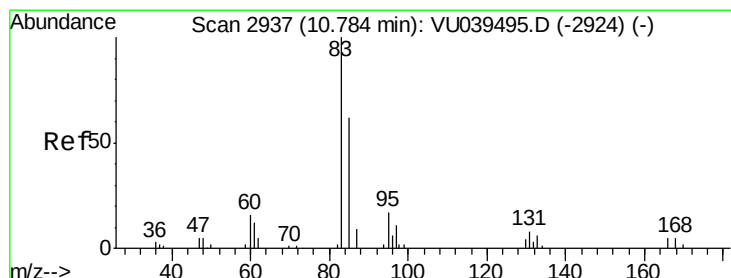
150000

100000

50000

0

10.40 10.45 10.50 10.55



#58

1,1,2,2-Tetrachloroethane

Concen: 4.503 ug/L

RT: 10.78 min Scan# 2937

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

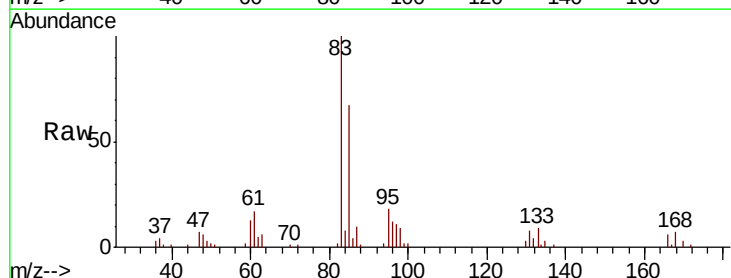
Tgt Ion: 83 Resp: 40550

Ion Ratio Lower Upper

83 100

85 66.8 46.1 85.7

131 8.4 7.4 11.0

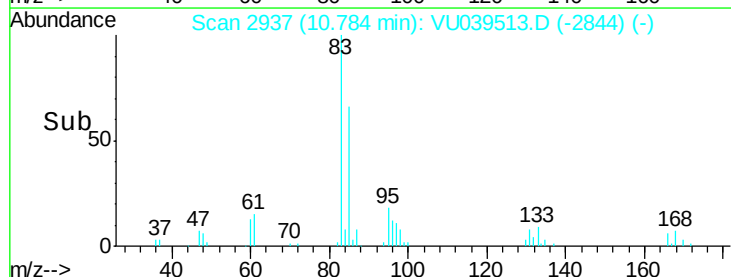


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

Time-->



10.78

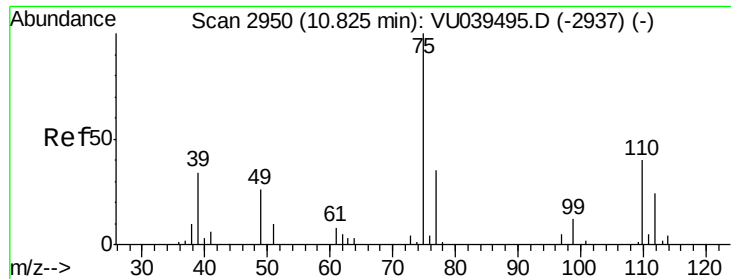
30000

20000

10000

0

10.70 10.75 10.80 10.85



#59

1,2,3-Trichloropropane

Concen: 4.389 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

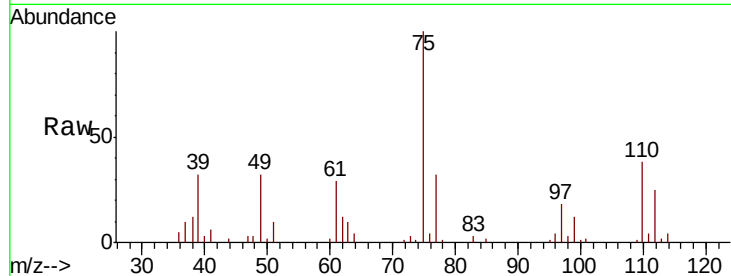
VSTD00523

Tot Ion: 75 Resp: 29132

Ion Ratio Lower Upper

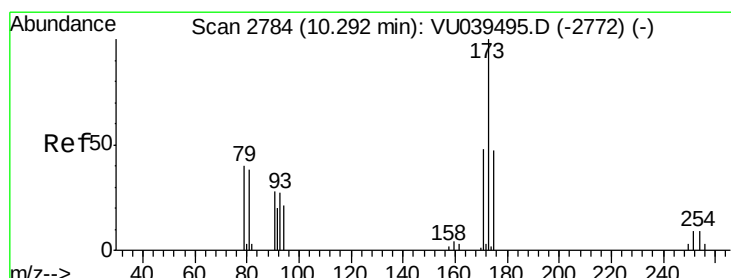
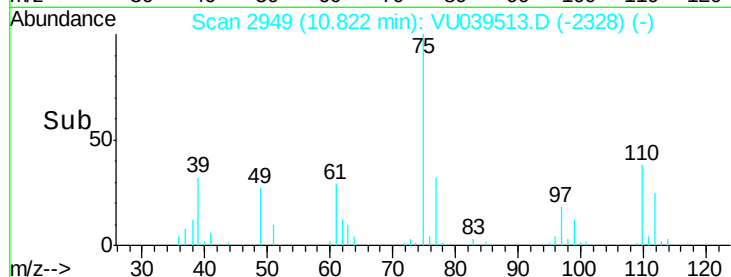
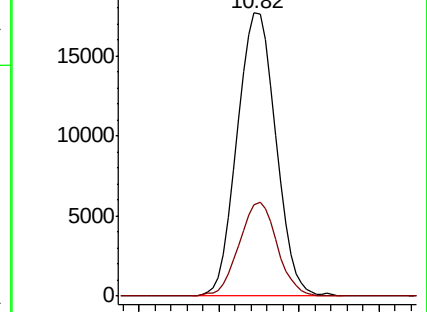
75 100

77 32.5 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU039495.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU039495.D (-2937) (-)



#61

Bromoform

Concen: 4.492 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

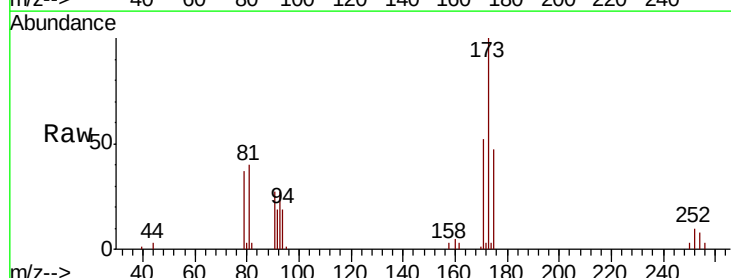
Tgt Ion: 173 Resp: 20719

Ion Ratio Lower Upper

173 100

175 48.2 37.5 56.3

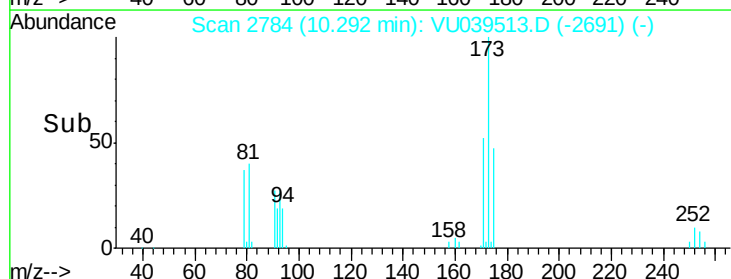
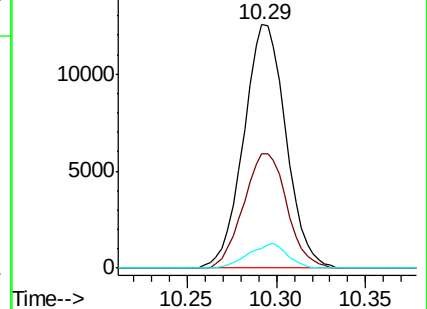
254 9.2 6.7 10.1

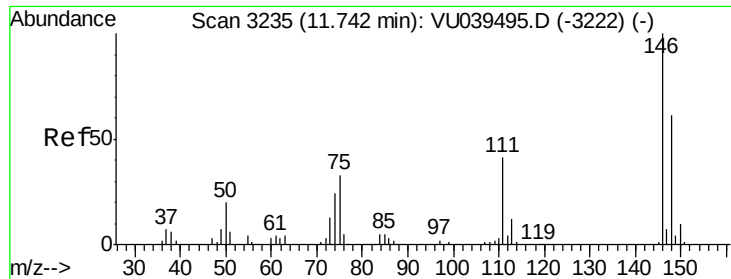


Abundance Ion 172.90 (172.60 to 173.60): VU039495.D (-2772) (-)

Ion 174.90 (174.60 to 175.60): VU039495.D (-2772) (-)

Ion 253.75 (253.45 to 254.45): VU039495.D (-2772) (-)

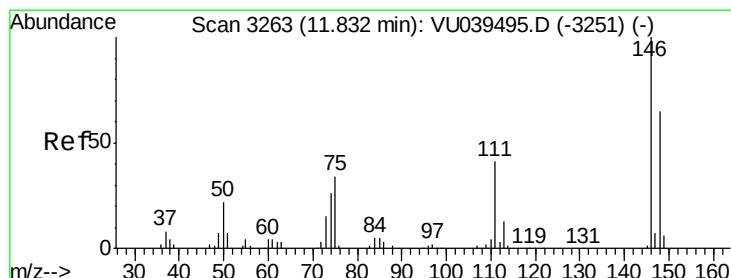
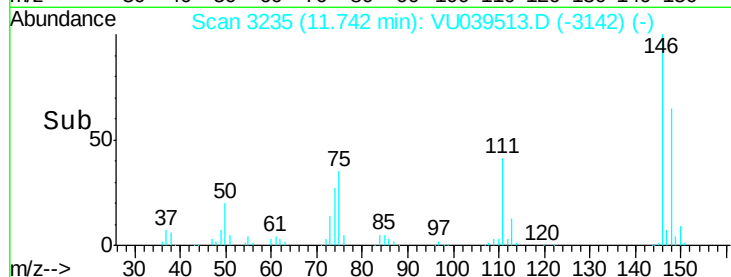
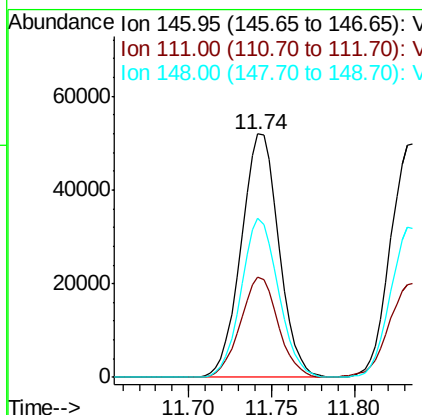
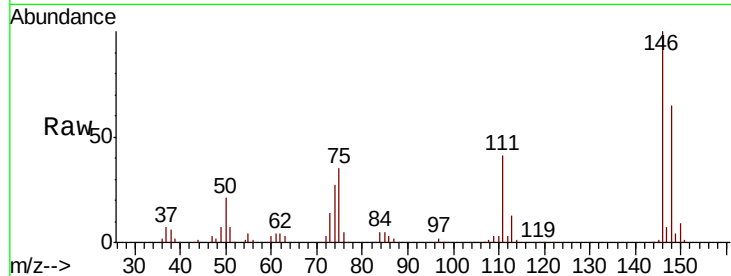




#62
 1,3-Dichlorobenzene
 Concen: 4.803 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

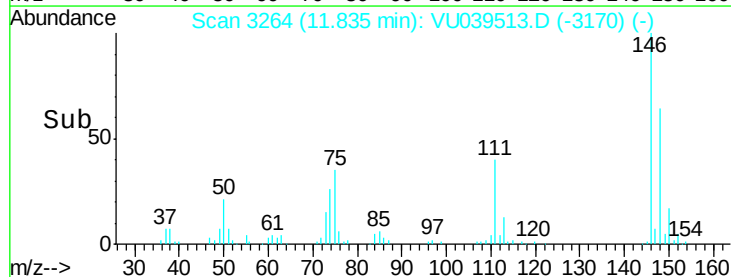
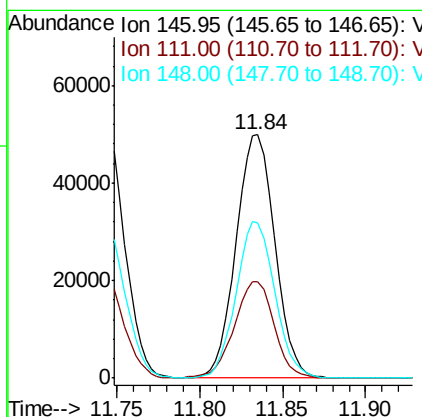
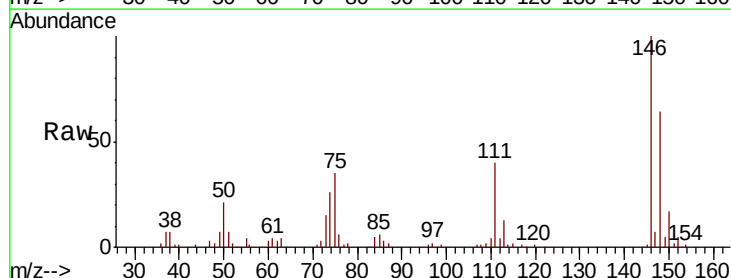
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

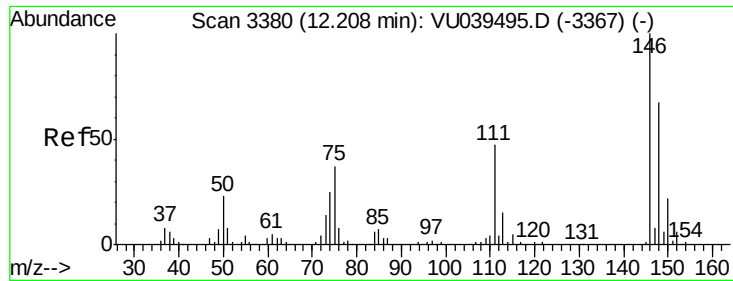
Tot Ion:146 Resp: 82374
 Ion Ratio Lower Upper
 146 100
 111 41.2 29.0 53.8
 148 65.3 43.5 80.9



#63
 1,4-Dichlorobenzene
 Concen: 4.737 ug/L
 RT: 11.84 min Scan# 3264
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Tgt Ion:146 Resp: 81503
 Ion Ratio Lower Upper
 146 100
 111 39.9 28.6 53.0
 148 63.7 45.0 83.6

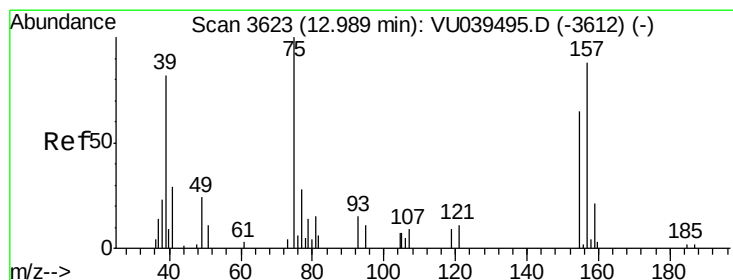
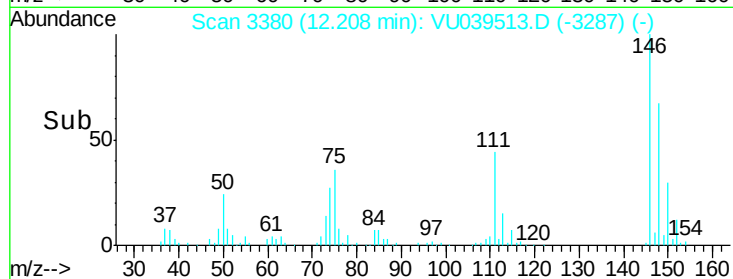
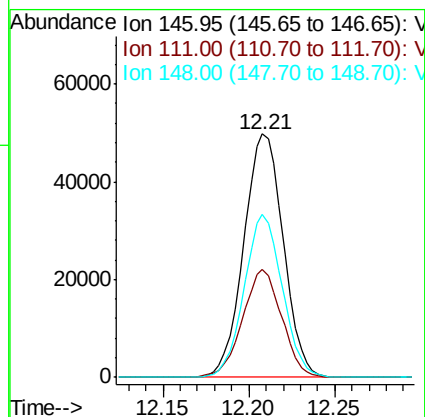
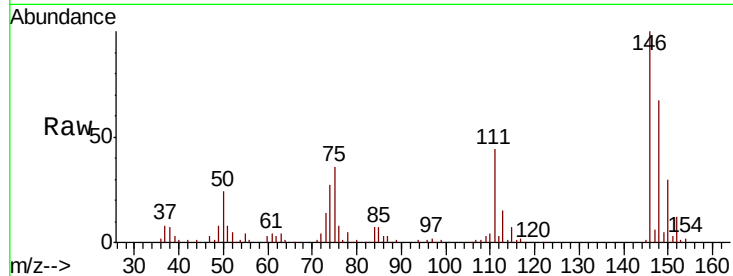




#65
 1,2-Dichlorobenzene
 Concen: 4.618 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

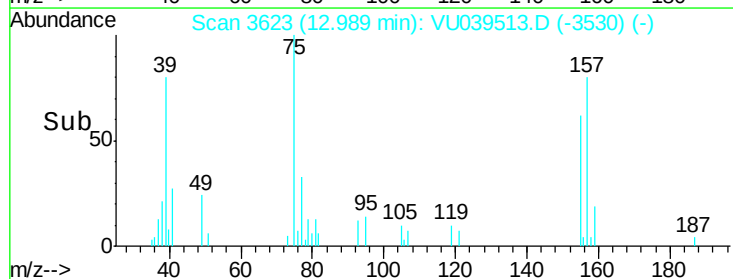
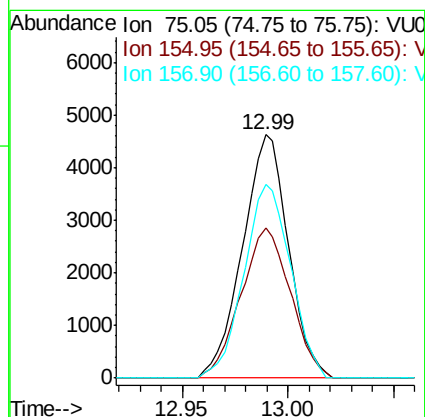
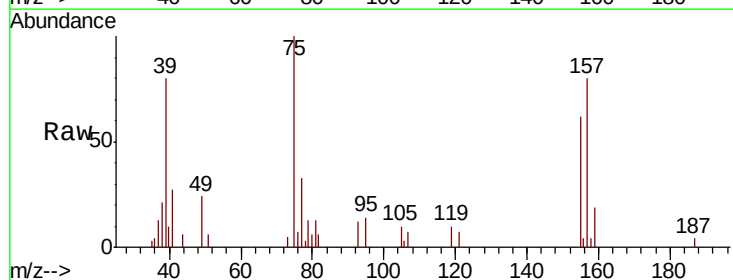
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

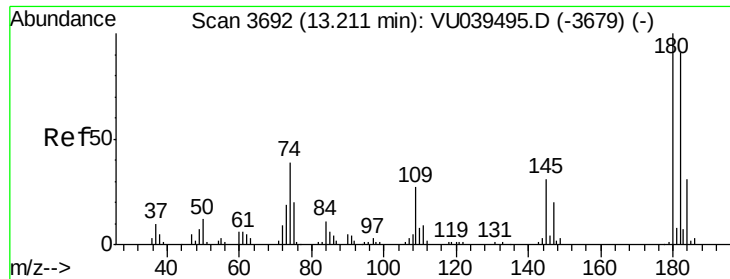
Tot Ion:146 Resp: 79395
 Ion Ratio Lower Upper
 146 100
 111 44.4 35.0 52.4
 148 67.0 50.6 75.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.604 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Tgt Ion: 75 Resp: 6992
 Ion Ratio Lower Upper
 75 100
 155 61.7 51.9 77.9
 157 79.8 63.2 94.8

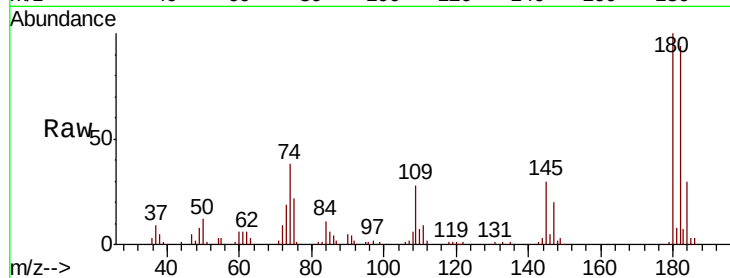




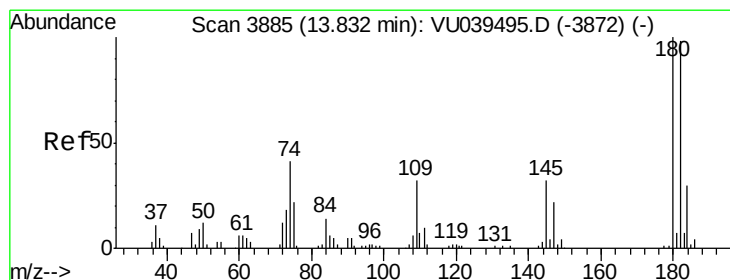
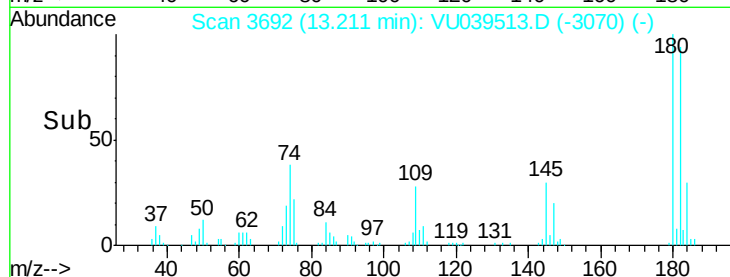
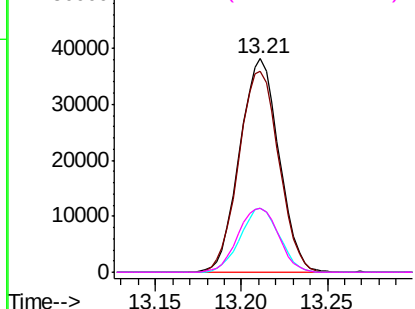
#67
 1,3,5-Trichlorobenzene
 Concen: 4.717 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00523

Tot Ion:180	Resp:	60539	
Ion Ratio	Lower	Upper	
180 100			
182 96.0	76.2	114.4	
184 29.8	24.2	36.4	
145 31.1	24.2	36.2	

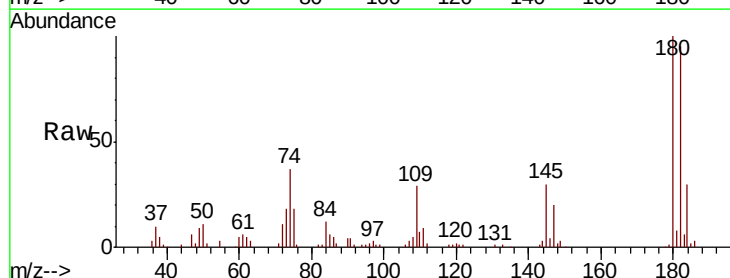


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

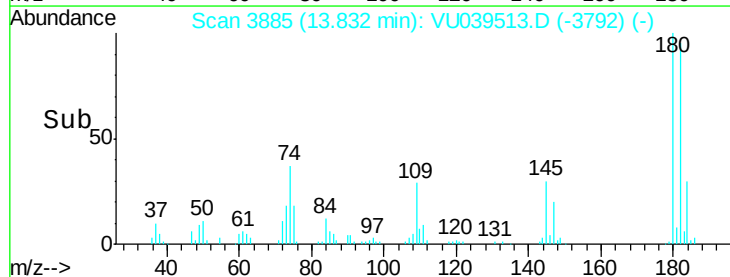
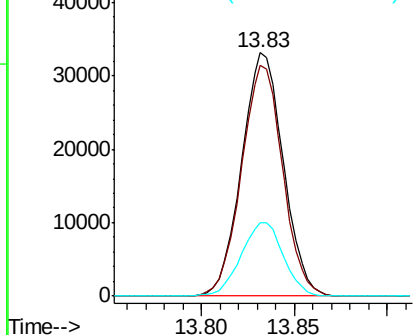


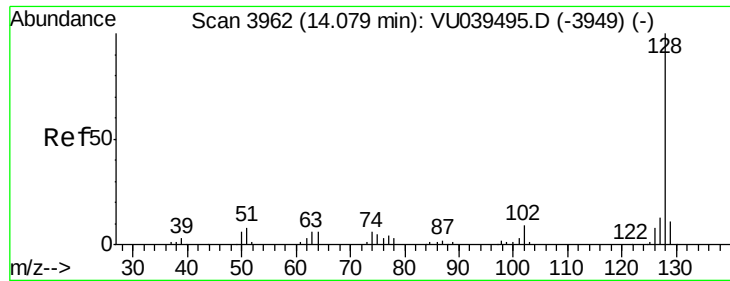
#68
 1,2,4-trichlorobenzene
 Concen: 4.715 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU039513.D
 Acq: 16 Jul 2020 09:55

Tgt Ion:180	Resp: 51784
Ion Ratio	Lower Upper
180 100	
182 93.7	79.4 119.2
145 30.8	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: 3.829 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

Instrument :

MSVOA_U

ClientSampleId :

VSTD00523

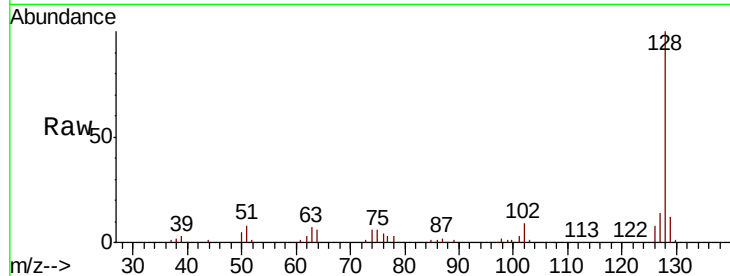
Tot Ion:128 Resp: 84601

Ion Ratio Lower Upper

128 100

129 10.9 8.6 13.0

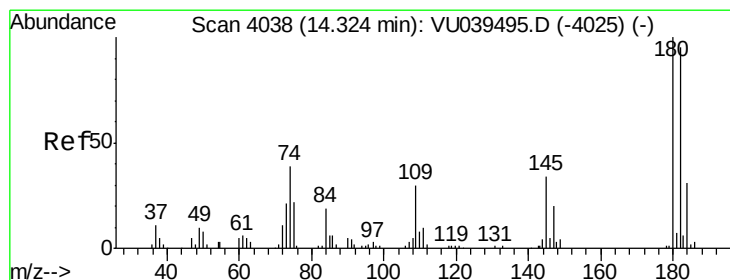
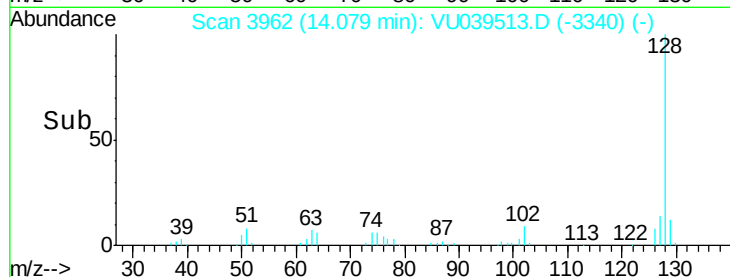
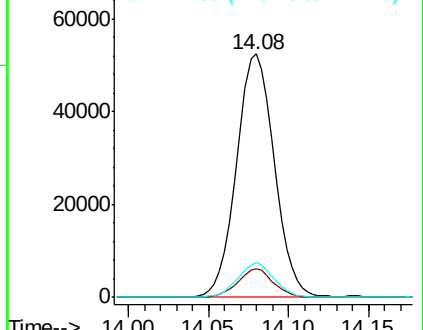
127 13.7 10.4 15.6



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: 4.350 ug/L

RT: 14.32 min Scan# 4038

Delta R.T. 0.00 min

Lab File: VU039513.D

Acq: 16 Jul 2020 09:55

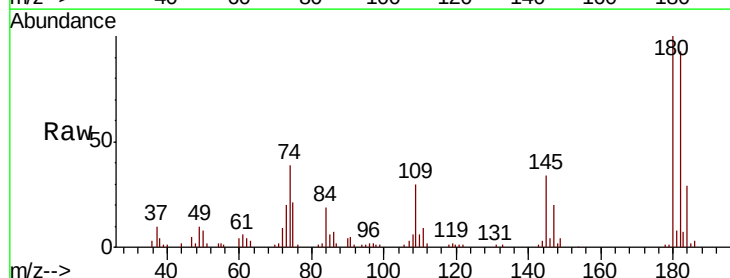
Tgt Ion:180 Resp: 44267

Ion Ratio Lower Upper

180 100

182 97.2 74.2 111.2

145 34.4 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

