

Data File : VU041405.D
Acq On : 23 Nov 2020 22:14
Operator : SY/MD
Sample : L4849-13MS
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
H4404MS

Quant Time: Nov 24 01:57:23 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR112320WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 24 01:52:19 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	63821	5.00	ug/L	0.01
28) Chlorobenzene-d5	9.42	117	64302	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	27587	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	23168	5.16	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.20%
7) Chloroethane-d5	1.92	69	15643	4.97	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.40%
11) 1,1-Dichloroethene-d2	2.57	63	44921	5.11	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	102.20%
20) 2-Butanone-d5	4.75	46	69012	60.39	ug/L	0.11
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.78%
24) Chloroform-d	5.10	84	47068	5.15	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.00%
26) 1,2-Dichloroethane-d4	5.74	65	29312	5.51	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.20%
32) Benzene-d6	5.75	84	80943	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.00%
36) 1,2-Dichloropropane-d6	6.71	67	26867	5.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.40%
41) Toluene-d8	7.91	98	66990	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
43) trans-1,3-Dichloropropene-	8.19	79	11478	5.05	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.00%
46) 2-Hexanone-d5	8.65	63	45089	60.64	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	121.28%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	23852	5.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	117.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	25297	5.50	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.00%

Target Compounds

					Qvalue
3) Chloromethane	1.53	50	513	0.098 ug/L #	43
5) Vinyl chloride	1.61	62	201274	36.089 ug/L	97
8) Chloroethane	1.90	64	738	0.233 ug/L #	46
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	220	0.049 ug/L #	21
12) 1,1-Dichloroethene	2.58	96	20200	5.140 ug/L	98
14) Carbon disulfide	2.80	76	640	0.047 ug/L #	76
17) Methyl tert-butyl Ether	3.40	73	32098	3.280 ug/L	98
18) trans-1,2-Dichloroethene	3.36	96	4595	1.078 ug/L	97
19) 1,1-Dichloroethane	3.89	63	4599	0.542 ug/L	95
21) 2-Butanone	4.88	43	22175	18.078 ug/L #	55
22) cis-1,2-Dichloroethene	4.69	96	52116	11.499 ug/L	100
27) 1,2-Dichloroethane	5.80	62	1149	0.189 ug/L #	78
30) Cyclohexane	5.41	56	502	0.073 ug/L #	19
33) Benzene	5.80	78	97998	5.682 ug/L	100
34) Trichloroethene	6.56	95	24703	5.259 ug/L	97
35) Methylcyclohexane	6.71	83	6623	0.967 ug/L #	18
37) 1,2-Dichloropropane	6.71	63	3368	0.712 ug/L #	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU112320\
Quantitation Report (Not Reviewed)

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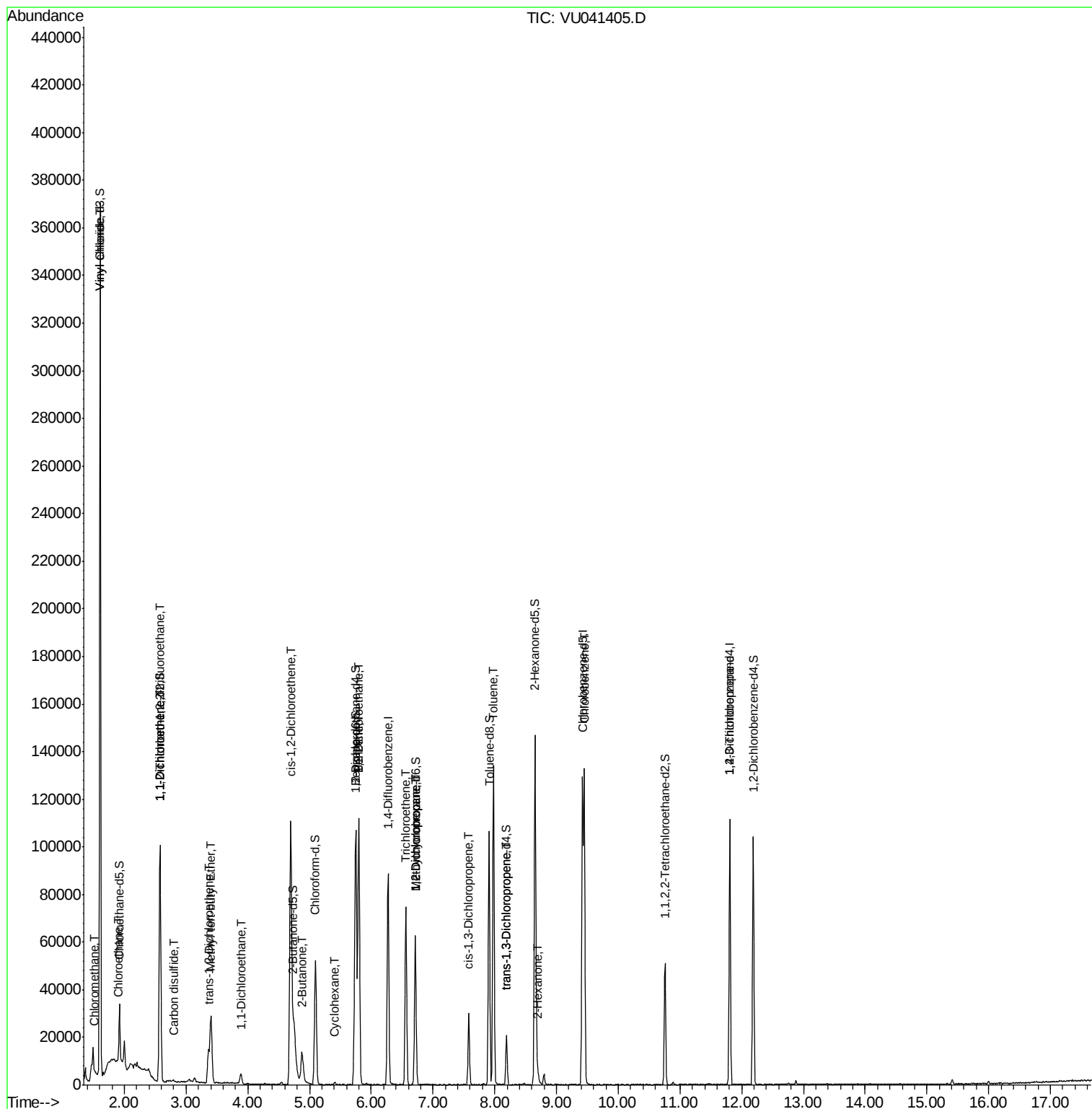
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	823	0.126	ug/L #	39
42) Toluene	7.98	91	89798	4.883	ug/L	99
44) trans-1,3-Dichloropropene	8.20	75	466	0.078	ug/L #	79
48) 2-Hexanone	8.70	43	1447	0.679	ug/L #	43
51) Chlorobenzene	9.45	112	61684	5.182	ug/L	99
59) 1,2,3-Trichloropropane	11.81	75	3496	1.131	ug/L #	82

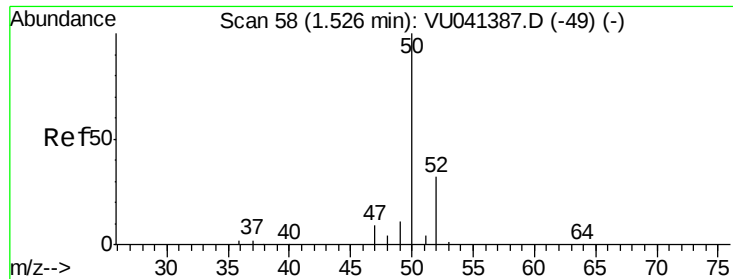
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.098 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041405.D

Acq: 23 Nov 2020 22:14

Instrument :

MSVOA_U

ClientSampled :

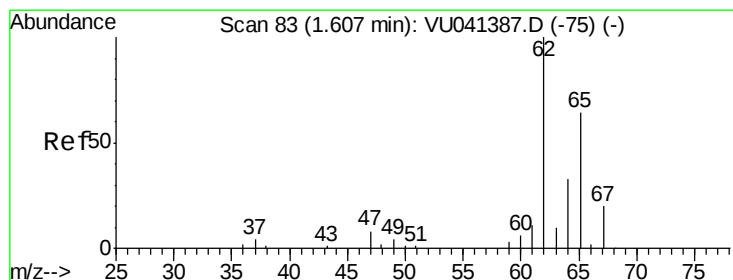
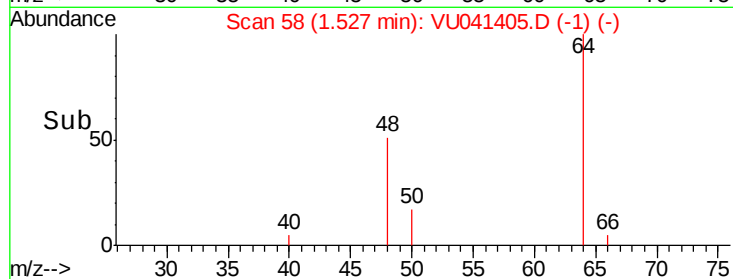
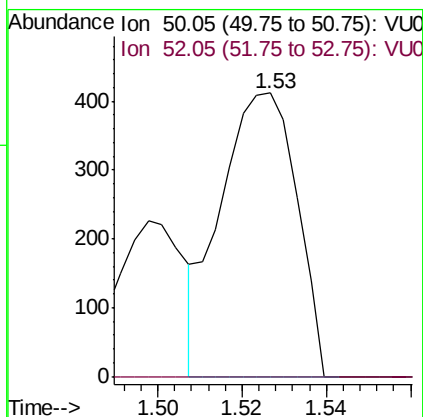
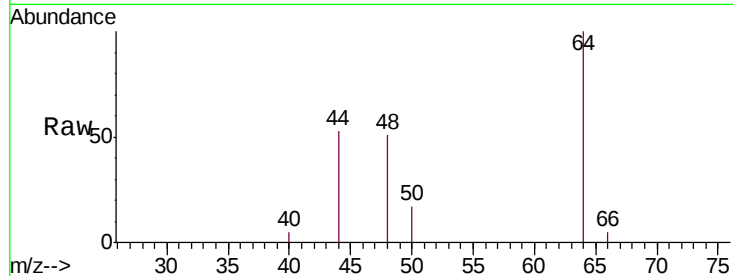
H4404MS

Tgt Ion: 50 Resp: 513

Ion Ratio Lower Upper

50 100

52 0.0 22.3 41.5#



#5

Vinyl chloride

Concen: 36.089 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041405.D

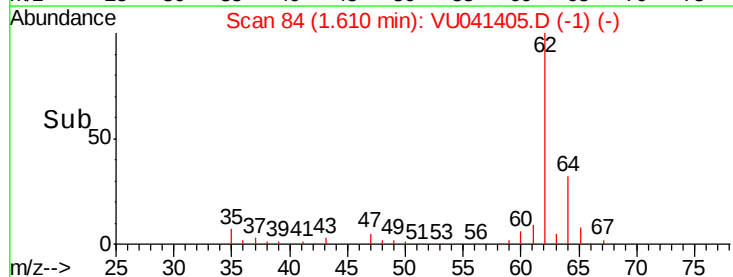
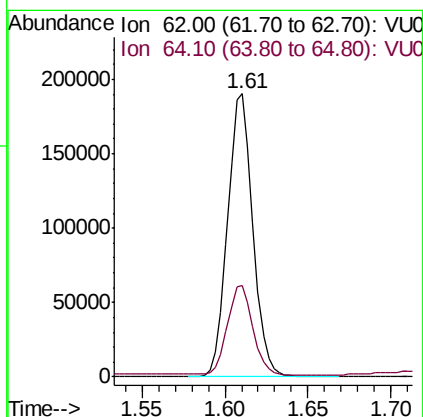
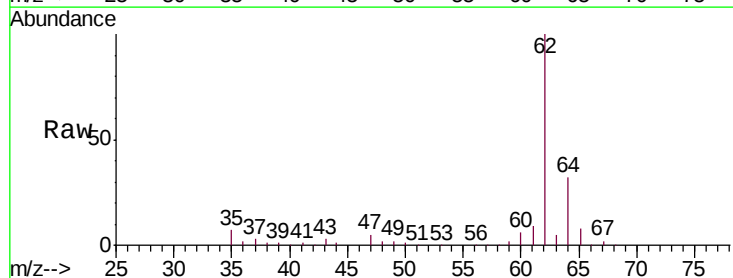
Acq: 23 Nov 2020 22:14

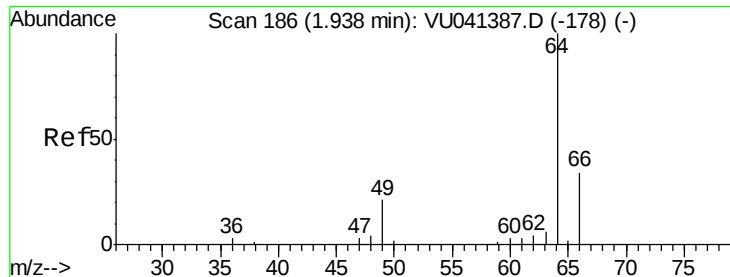
Tgt Ion: 62 Resp: 201274

Ion Ratio Lower Upper

62 100

64 32.4 23.8 44.2

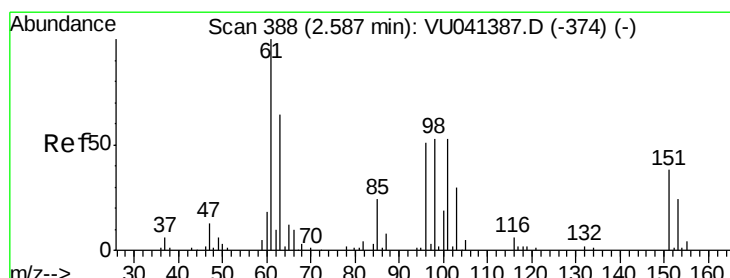
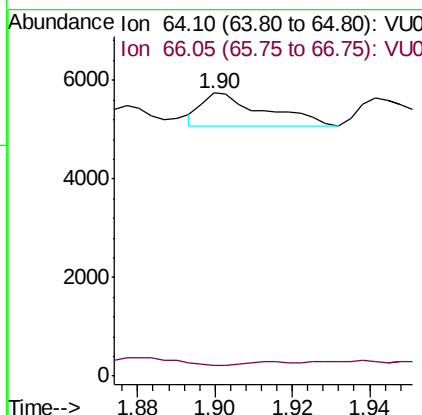
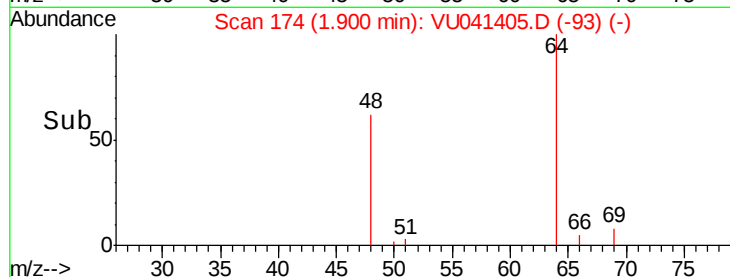
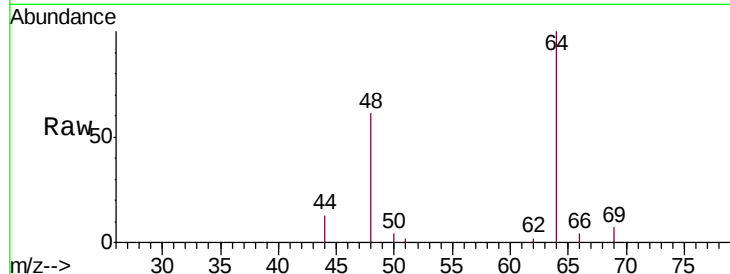




#8
 Chloroethane
 Concen: 0.233 ug/L
 RT: 1.90 min Scan# 174
 Delta R.T. -0.04 min
 Lab File: VU041405.D
 Acq: 23 Nov 2020 22:14

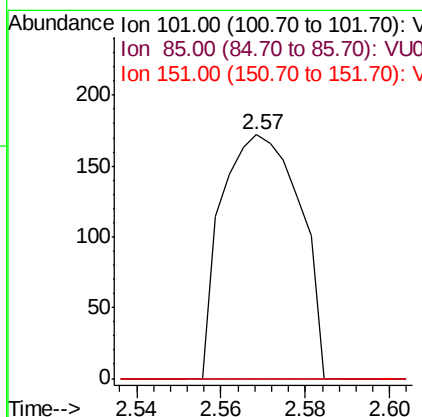
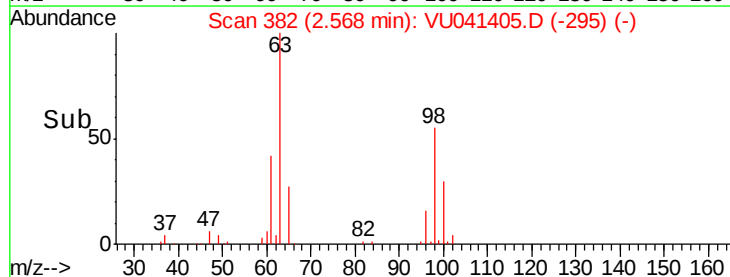
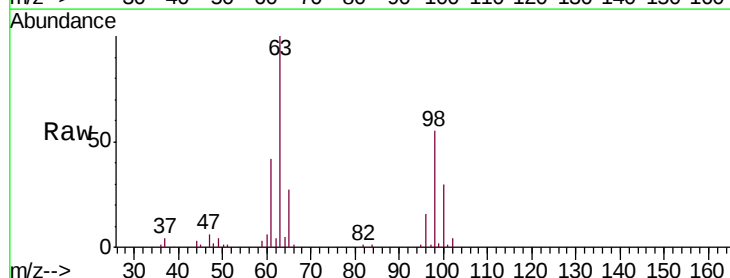
Instrument :
 MSVOA_U
 ClientSampleId :
 H4404MS

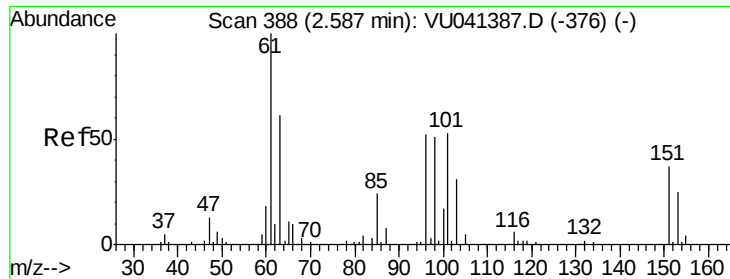
Tgt Ion: 64 Resp: 738
 Ion Ratio Lower Upper
 64 100
 66 4.0 24.6 45.8#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.049 ug/L
 RT: 2.57 min Scan# 382
 Delta R.T. -0.02 min
 Lab File: VU041405.D
 Acq: 23 Nov 2020 22:14

Tgt Ion: 101 Resp: 220
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.2 84.2#





#12

1,1-Dichloroethene

Concen: 5.140 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.00 min

Lab File: VU041405.D

Acq: 23 Nov 2020 22:14

Instrument :

MSVOA_U

ClientSampleId :

H4404MS

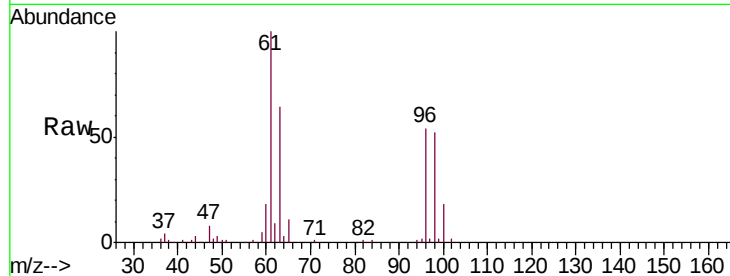
Tgt Ion: 96 Resp: 20200

Ion Ratio Lower Upper

96 100

61 185.3 129.8 241.2

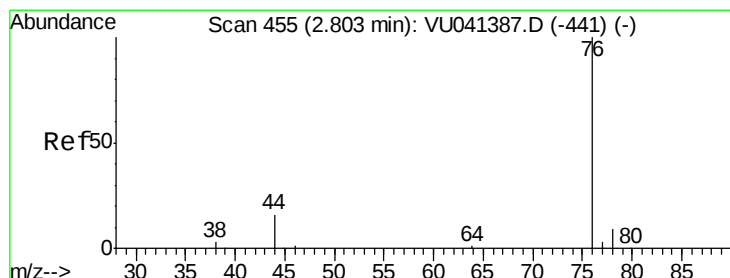
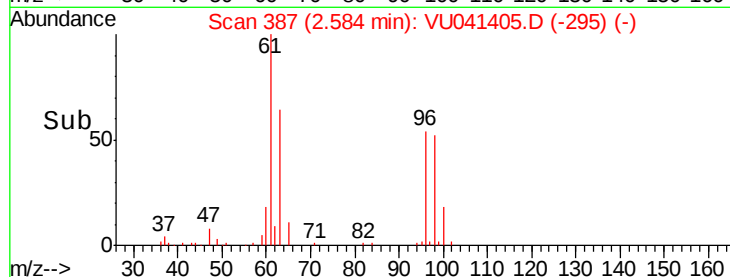
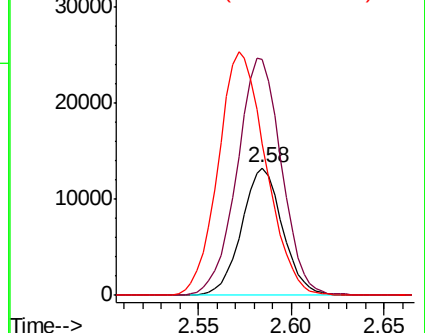
63 119.2 79.2 147.0



Abundance Ion 96.00 (95.70 to 96.70): VU041405.D (-295) (-)

Ion 61.05 (60.75 to 61.75): VU041405.D (-295) (-)

Ion 63.00 (62.70 to 63.70): VU041405.D (-295) (-)



#14

Carbon disulfide

Concen: 0.047 ug/L

RT: 2.80 min Scan# 454

Delta R.T. -0.00 min

Lab File: VU041405.D

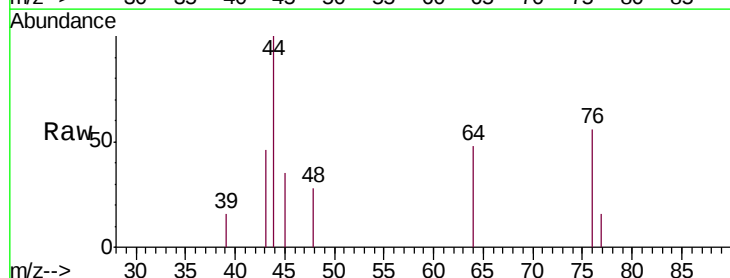
Acq: 23 Nov 2020 22:14

Tgt Ion: 76 Resp: 640

Ion Ratio Lower Upper

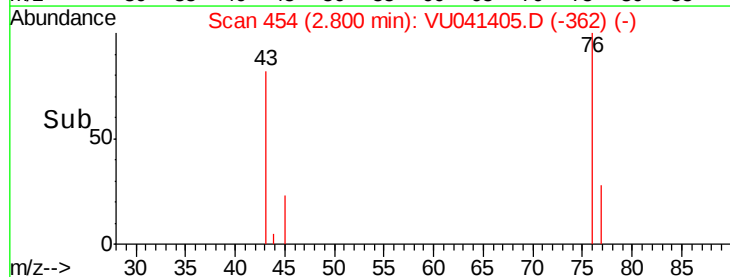
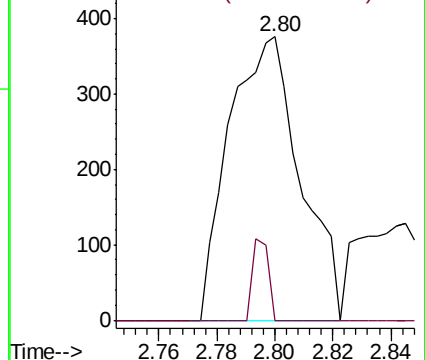
76 100

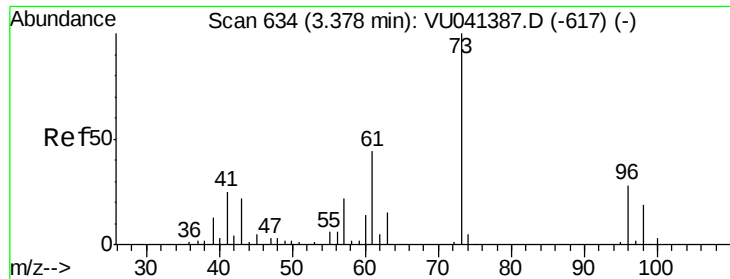
78 0.0 7.0 10.6#



Abundance Ion 76.05 (75.75 to 76.75): VU041405.D (-362) (-)

Ion 78.00 (77.70 to 78.70): VU041405.D (-362) (-)

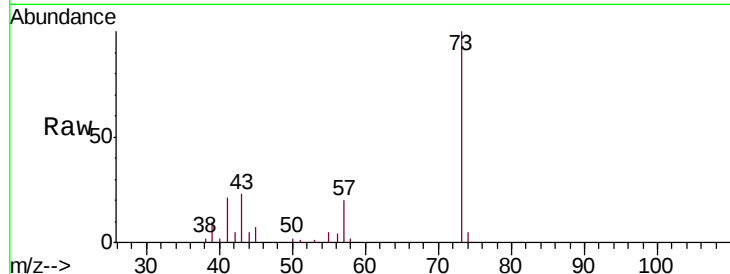




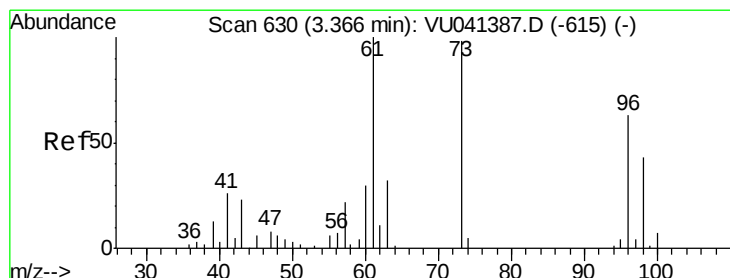
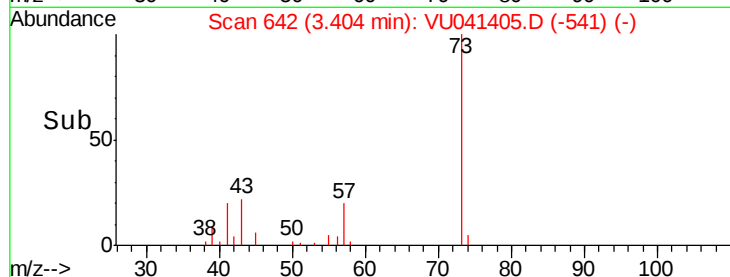
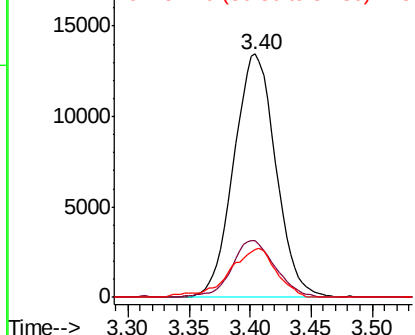
#17
Methyl tert-butyl Ether
Concen: 3.280 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.03 min
Lab File: VU041405.D
Acq: 23 Nov 2020 22:14

Instrument :
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ClientSampleId :
H4404MS

Tgt Ion: 73 Resp: 32098
Ion Ratio Lower Upper
73 100
43 24.3 18.3 27.5
57 22.5 17.7 26.5

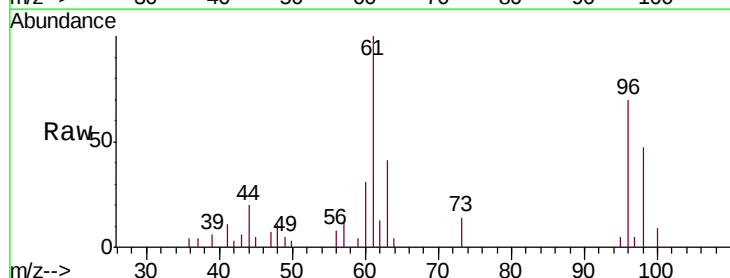


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

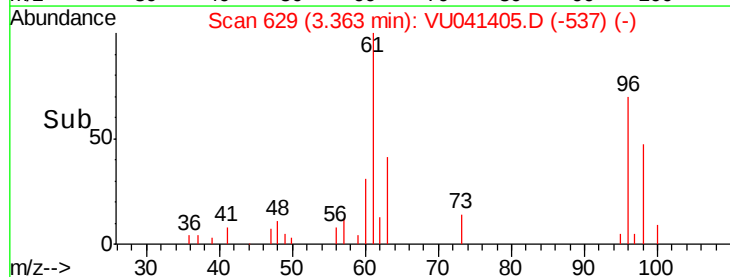
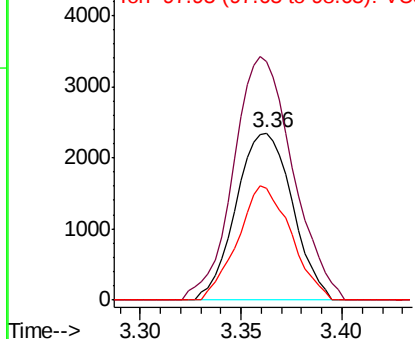


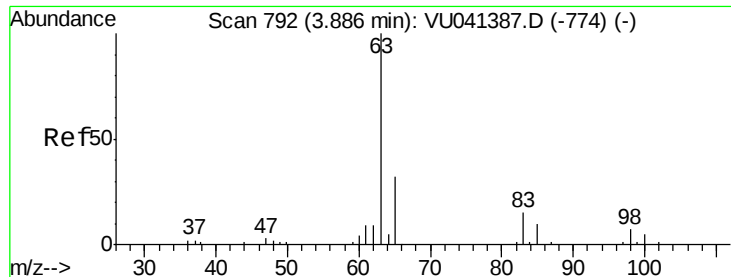
#18
trans-1,2-Dichloroethene
Concen: 1.078 ug/L
RT: 3.36 min Scan# 629
Delta R.T. -0.00 min
Lab File: VU041405.D
Acq: 23 Nov 2020 22:14

Tgt Ion: 96 Resp: 4595
Ion Ratio Lower Upper
96 100
61 143.0 103.7 192.5
98 67.0 47.5 88.3



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

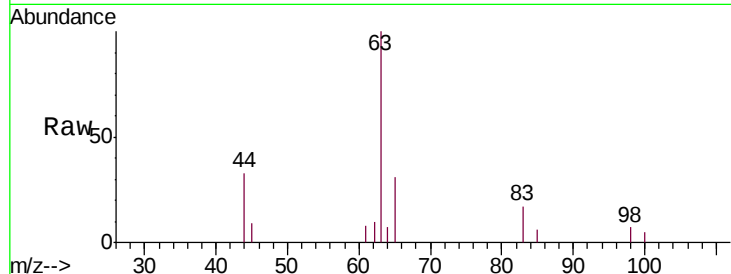




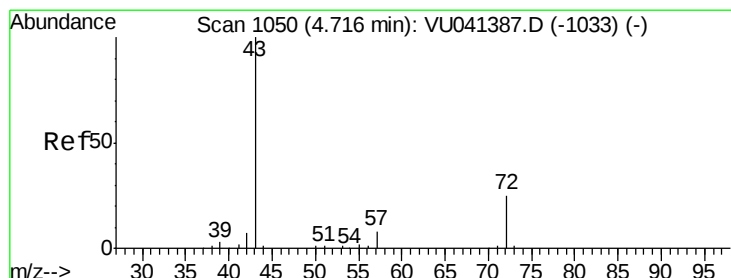
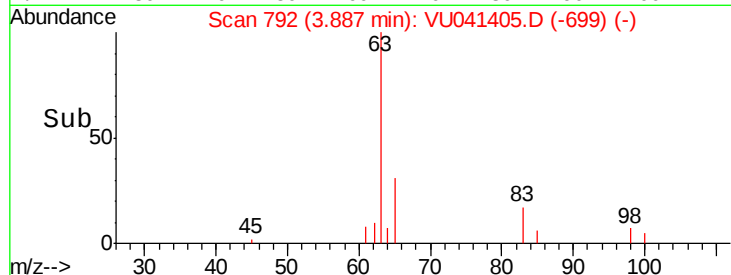
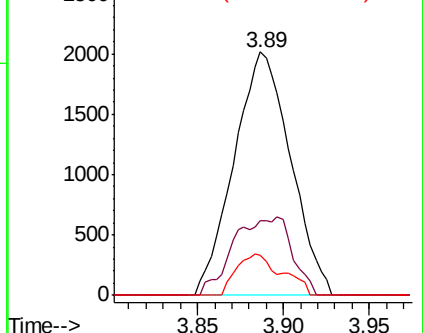
#19
 1,1-Dichloroethane
 Concen: 0.542 ug/L
 RT: 3.89 min Scan# 792
 Delta R.T. 0.00 min
 Lab File: VU041405.D
 Acq: 23 Nov 2020 22:14

Instrument :
 MSVOA_U
 ClientSampleId :
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Tgt Ion: 63 Resp: 4599
 Ion Ratio Lower Upper
 63 100
 65 30.6 23.0 42.8
 83 16.7 9.4 17.4

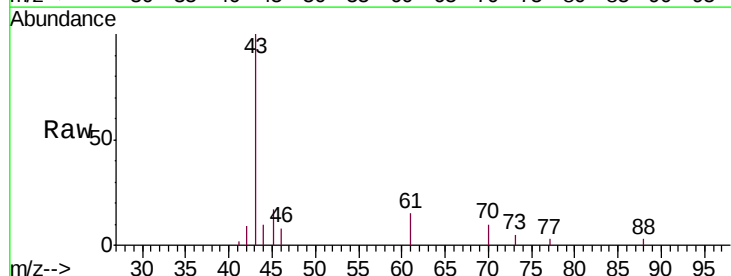


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

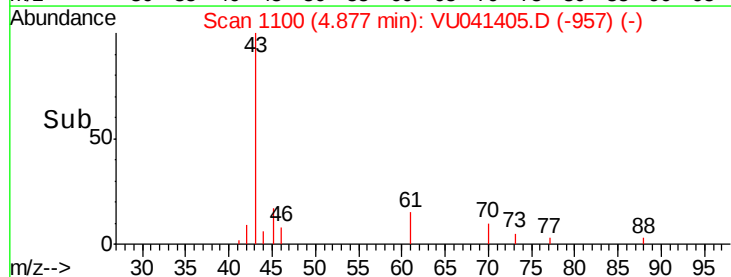
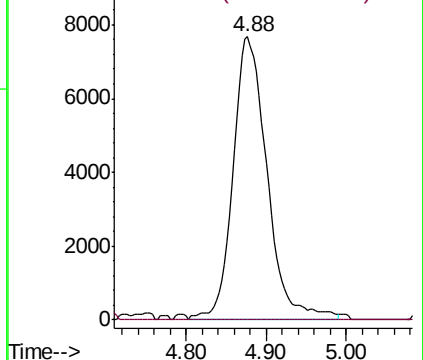


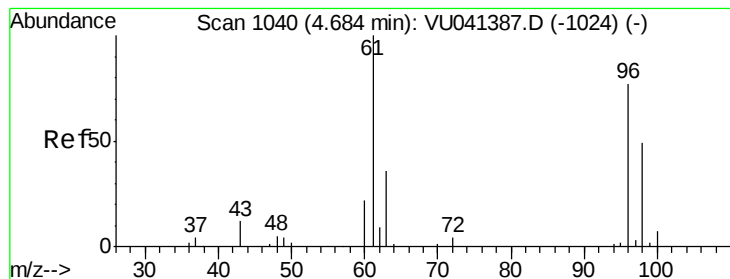
#21
 2-Butanone
 Concen: 18.078 ug/L
 RT: 4.88 min Scan# 1100
 Delta R.T. 0.16 min
 Lab File: VU041405.D
 Acq: 23 Nov 2020 22:14

Tgt Ion: 43 Resp: 22175
 Ion Ratio Lower Upper
 43 100
 72 2.4 12.6 37.6#



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: 11.499 ug/L

RT: 4.69 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VU041405.D

Acq: 23 Nov 2020 22:14

Instrument :

MSVOA_U

ClientSampleId :

H4404MS

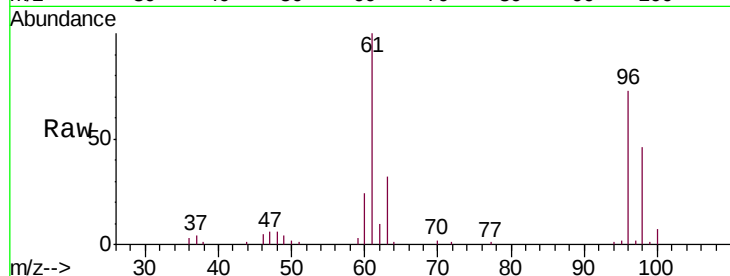
Tgt Ion: 96 Resp: 52116

Ion Ratio Lower Upper

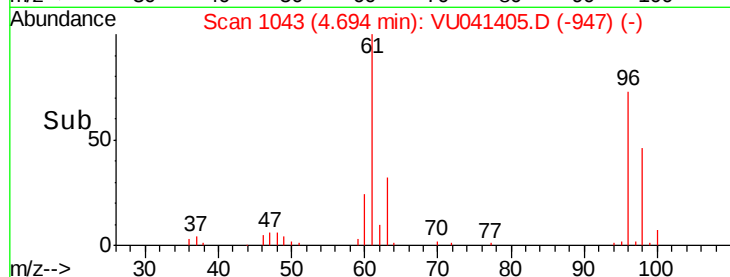
96 100

61 136.4 95.3 176.9

68 0.0 0.0 0.0

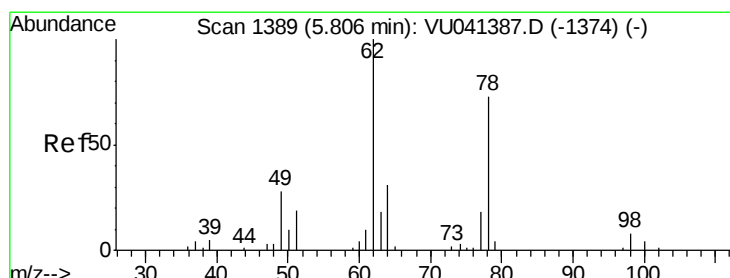
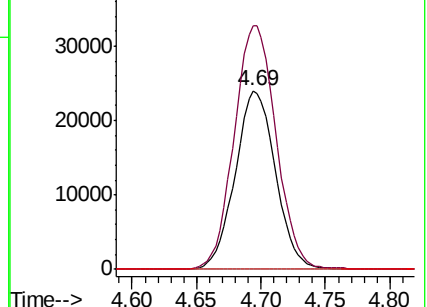


Abundance Ion 96.00 (95.70 to 96.70): VU041405.D (-947) (-)



Ion 61.05 (60.75 to 61.75): VU041405.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU041405.D (-947) (-)



#27

1,2-Dichloroethane

Concen: 0.189 ug/L

RT: 5.80 min Scan# 1387

Delta R.T. -0.01 min

Lab File: VU041405.D

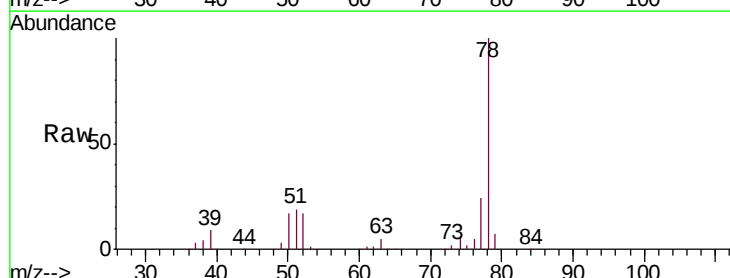
Acq: 23 Nov 2020 22:14

Tgt Ion: 62 Resp: 1149

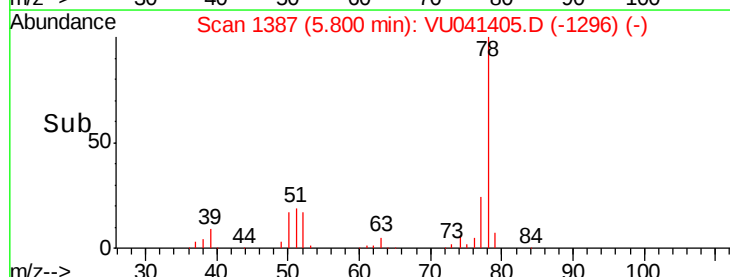
Ion Ratio Lower Upper

62 100

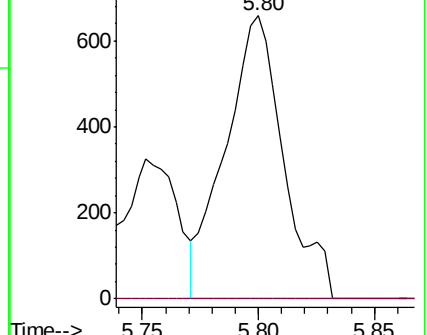
98 0.0 6.0 9.0#

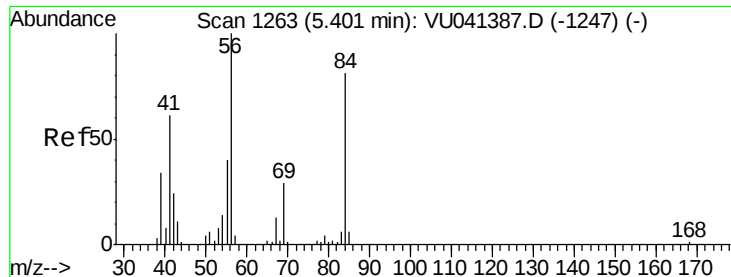


Abundance Ion 62.00 (61.70 to 62.70): VU041405.D (-1296) (-)



Ion 98.05 (97.75 to 98.75): VU041405.D (-1296) (-)

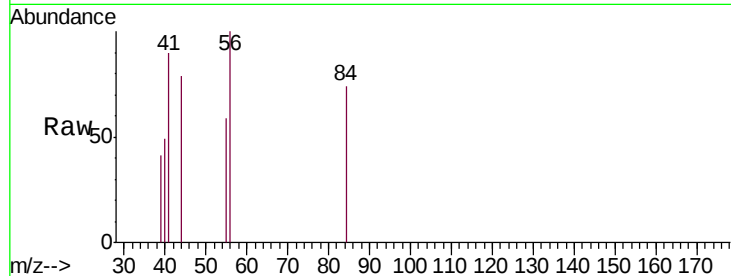




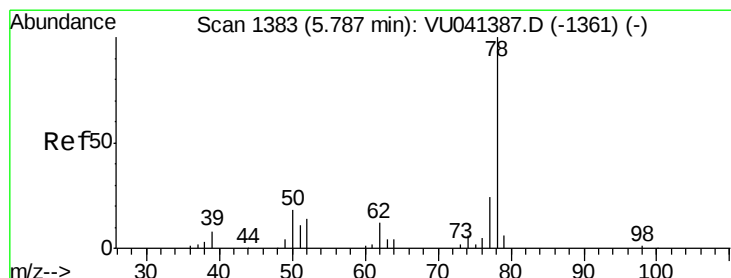
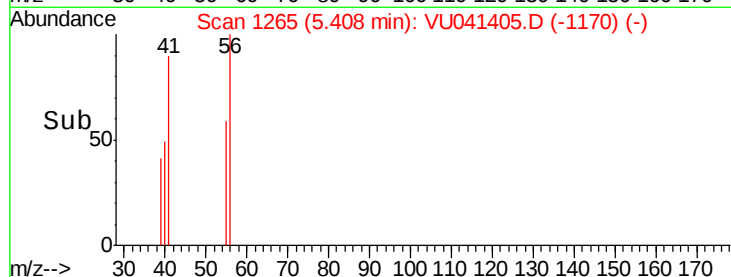
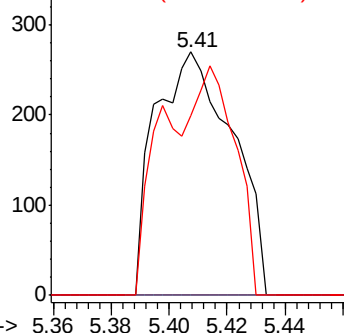
#30
Cyclohexane
Concen: 0.073 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VU041405.D
Acq: 23 Nov 2020 22:14

Instrument :
MSVOA_U
ClientSampleId :
H4404MS

Tgt Ion: 56 Resp: 502
Ion Ratio Lower Upper
56 100
69 0.0 23.8 35.6#
84 0.0 64.6 97.0#

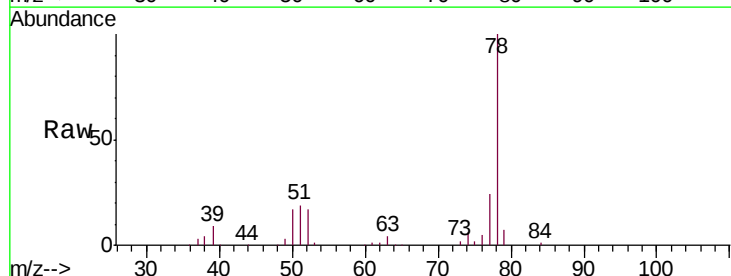


Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

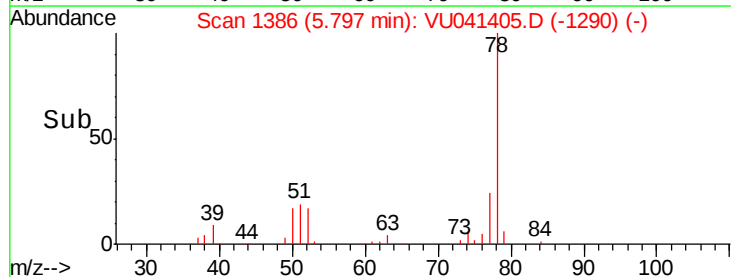
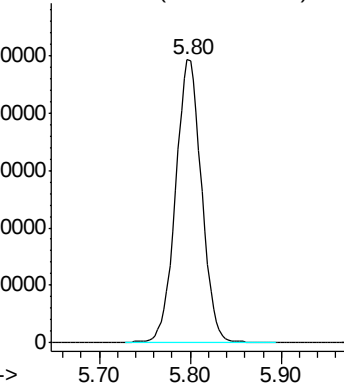


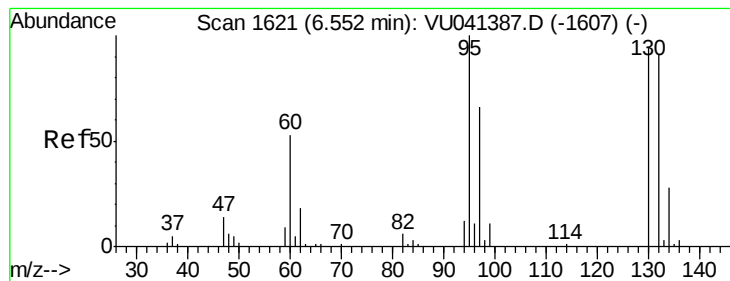
#33
Benzene
Concen: 5.682 ug/L
RT: 5.80 min Scan# 1386
Delta R.T. 0.01 min
Lab File: VU041405.D
Acq: 23 Nov 2020 22:14

Tgt Ion: 78 Resp: 97998



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.259 ug/L

RT: 6.56 min Scan# 1624

Delta R.T. 0.01 min

Lab File: VU041405.D

Acq: 23 Nov 2020 22:14

Instrument :

MSVOA_U

ClientSampleId :

H4404MS

Tgt Ion: 95 Resp: 24703

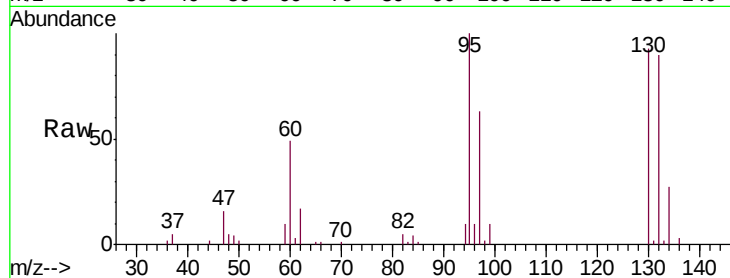
Ion Ratio Lower Upper

95 100

97 63.4 46.5 86.5

132 89.9 60.8 113.0

130 92.5 63.3 117.7

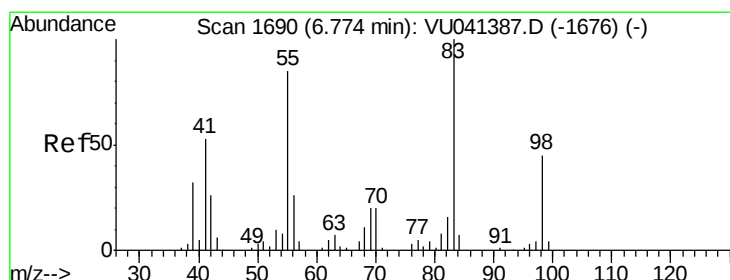
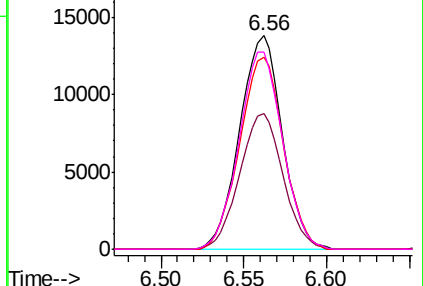
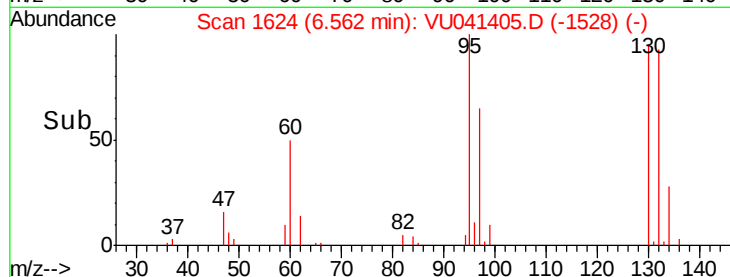


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.967 ug/L

RT: 6.71 min Scan# 1671

Delta R.T. -0.06 min

Lab File: VU041405.D

Acq: 23 Nov 2020 22:14

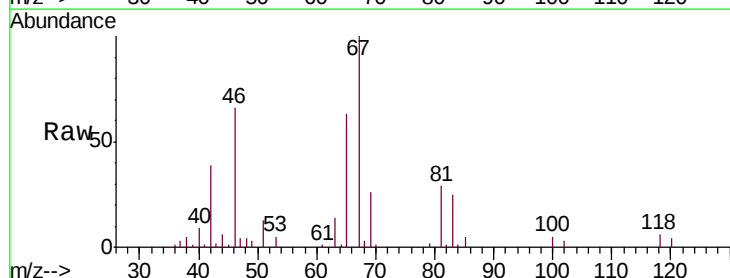
Tgt Ion: 83 Resp: 6623

Ion Ratio Lower Upper

83 100

55 0.0 68.4 102.6#

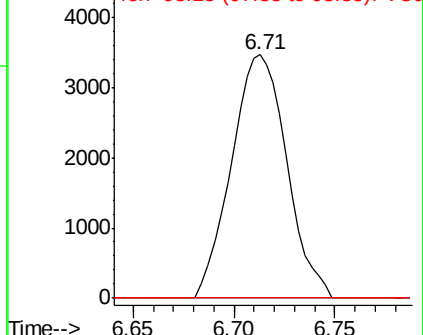
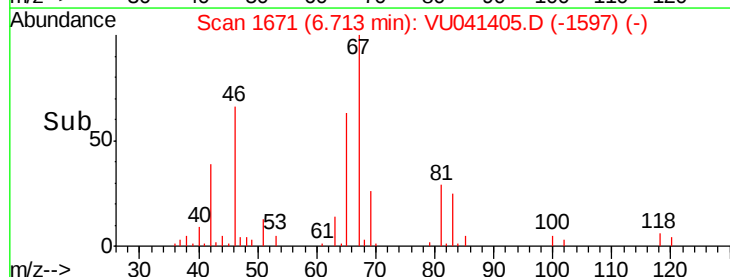
98 5.3 36.5 54.7#

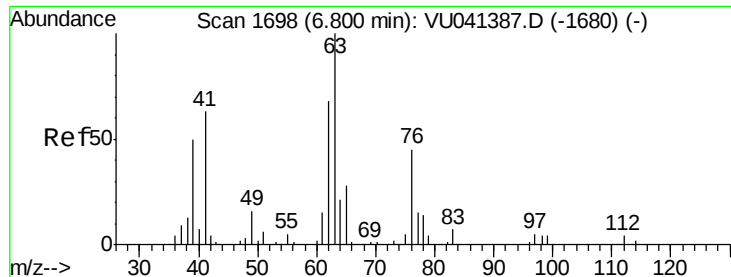


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

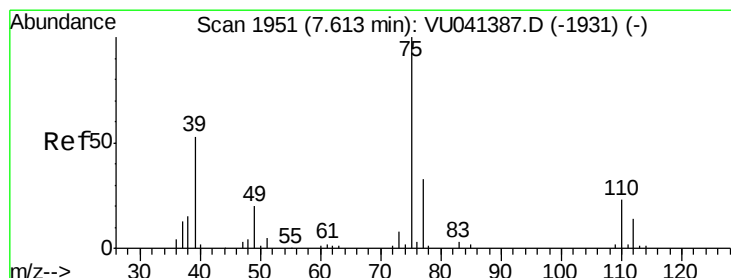
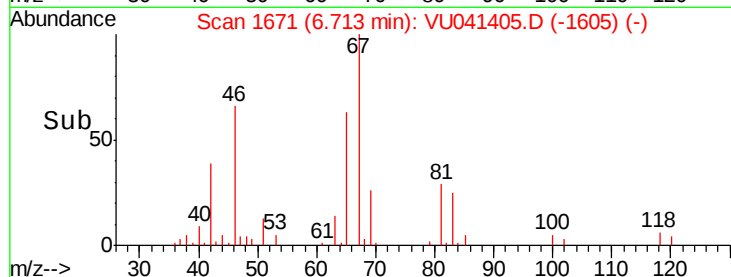
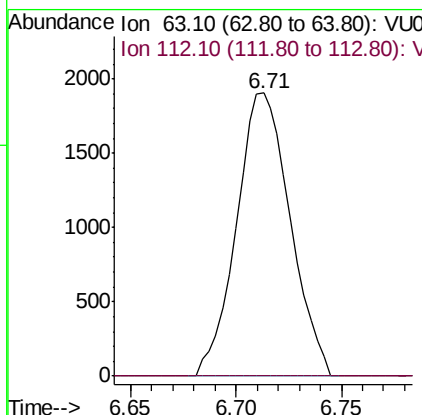
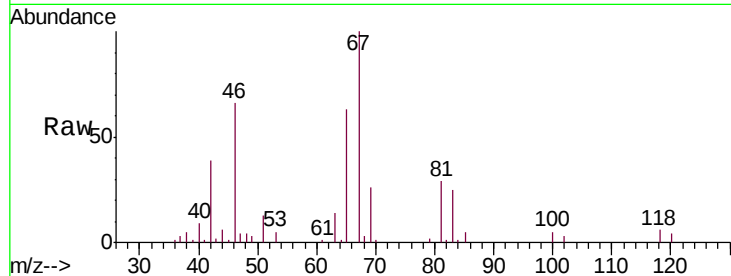




#37
 1,2-Dichloropropane
 Concen: 0.712 ug/L
 RT: 6.71 min Scan# 1671
 Delta R.T. -0.09 min
 Lab File: VU041405.D
 Acq: 23 Nov 2020 22:14

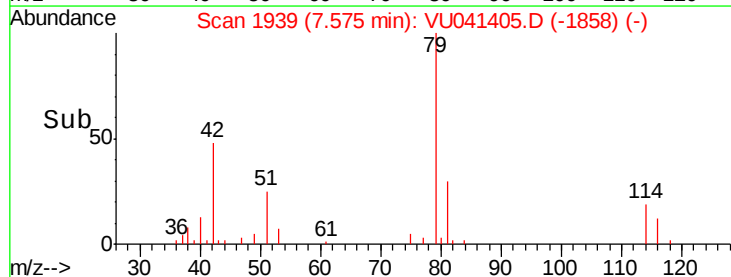
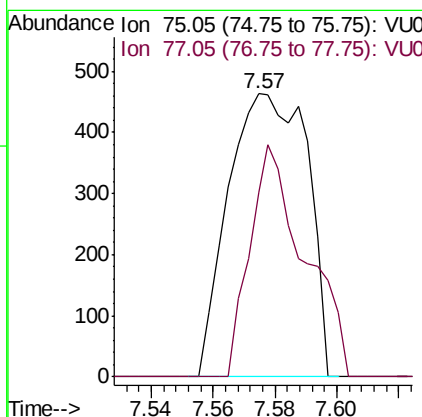
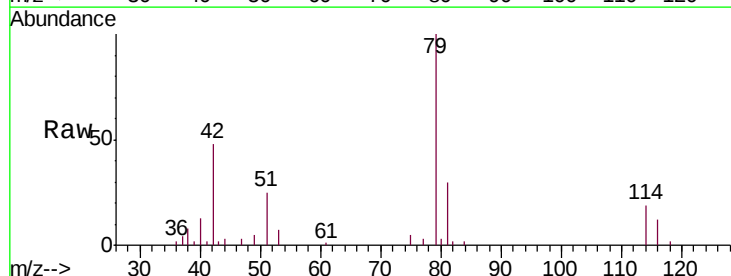
Instrument :
 MSVOA_U
 ClientSampleId :
 H4404MS

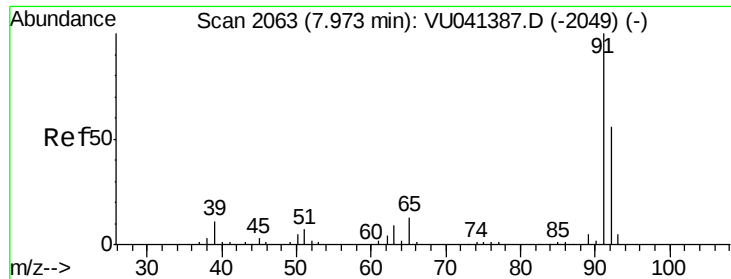
Tgt Ion: 63 Resp: 3368
 Ion Ratio Lower Upper
 63 100
 112 0.0 2.6 4.0#



#39
 cis-1,3-Dichloropropene
 Concen: 0.126 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041405.D
 Acq: 23 Nov 2020 22:14

Tgt Ion: 75 Resp: 823
 Ion Ratio Lower Upper
 75 100
 77 65.4 22.1 41.1#





#42

Toluene

Concen: 4.883 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.01 min

Lab File: VU041405.D

Acq: 23 Nov 2020 22:14

Instrument :

MSVOA_U

ClientSampleId :

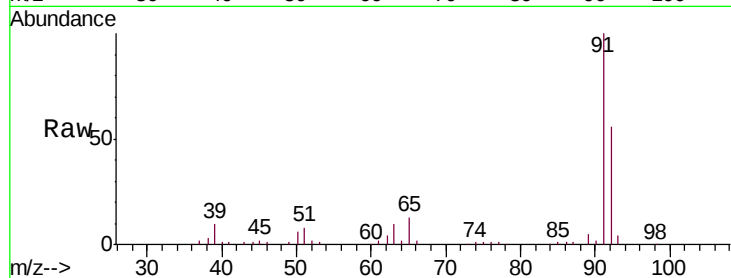
H4404MS

Tgt Ion: 91 Resp: 89798

Ion Ratio Lower Upper

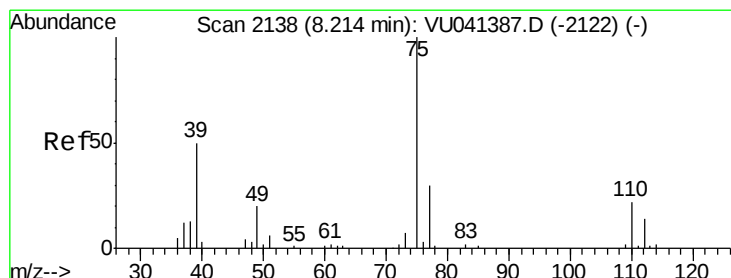
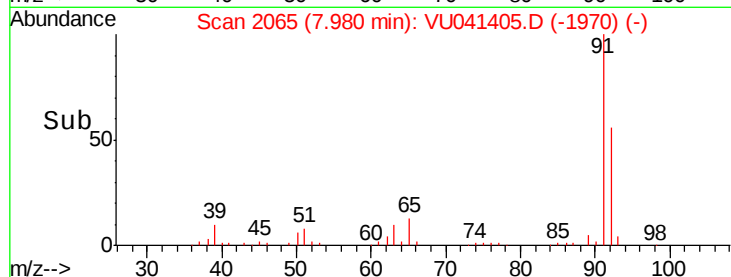
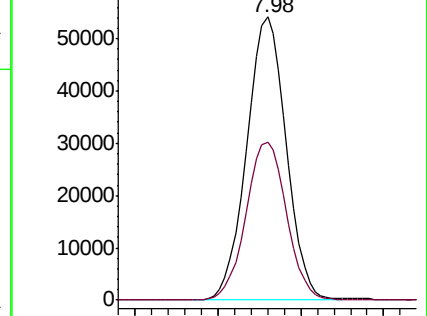
91 100

92 55.7 39.3 72.9



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.078 ug/L

RT: 8.20 min Scan# 2132

Delta R.T. -0.02 min

Lab File: VU041405.D

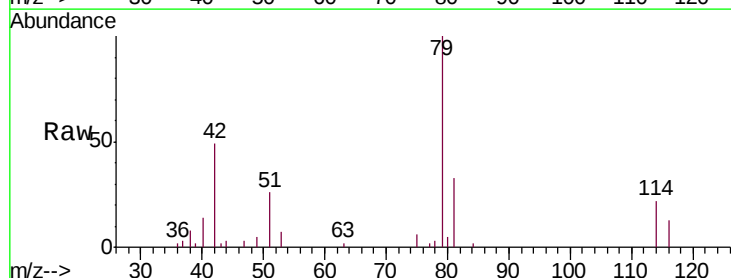
Acq: 23 Nov 2020 22:14

Tgt Ion: 75 Resp: 466

Ion Ratio Lower Upper

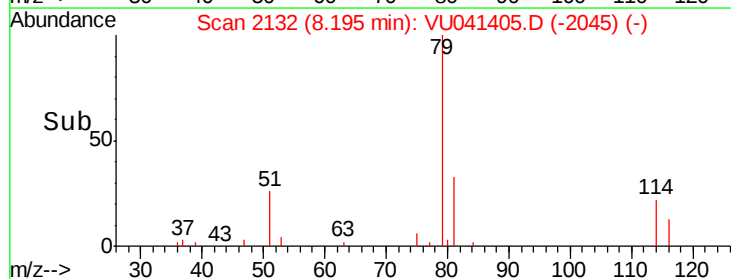
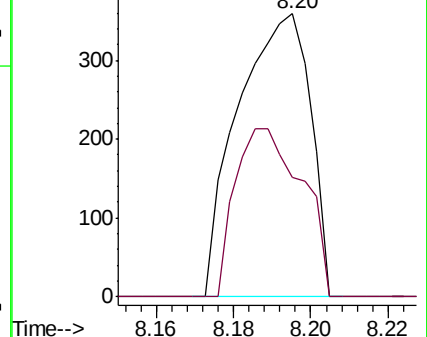
75 100

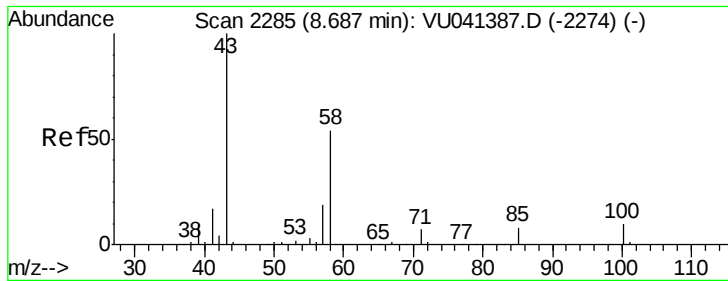
77 42.3 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

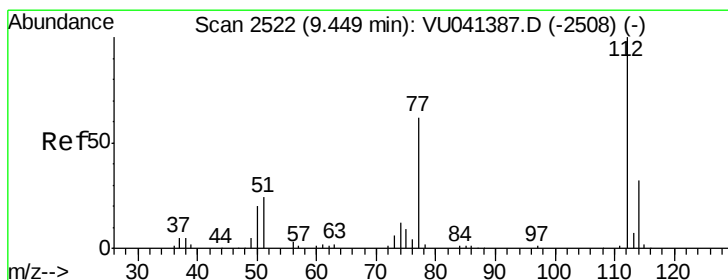
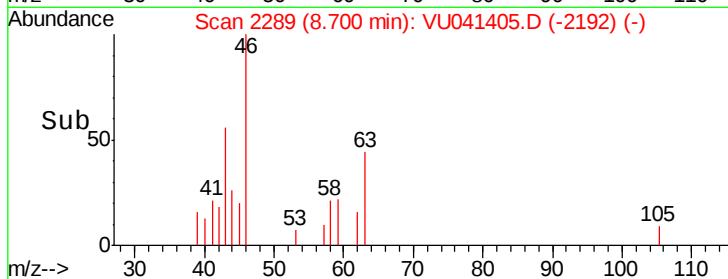
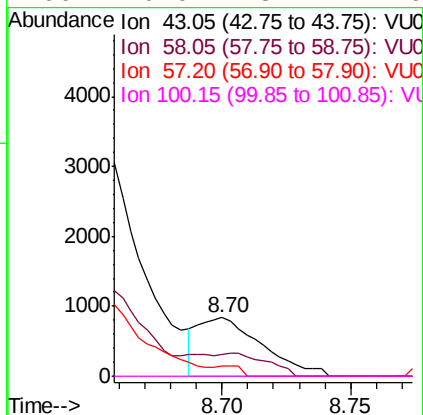
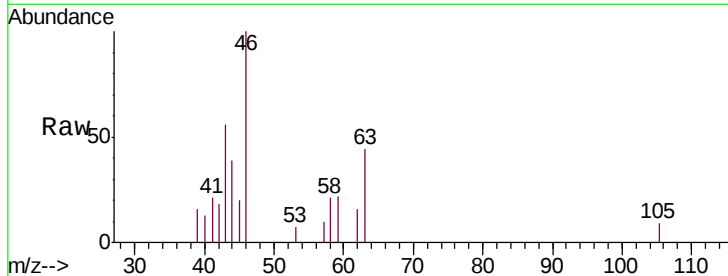




#48
2-Hexanone
Concen: 0.679 ug/L
RT: 8.70 min Scan# 2289
Delta R.T. 0.01 min
Lab File: VU041405.D
Acq: 23 Nov 2020 22:14

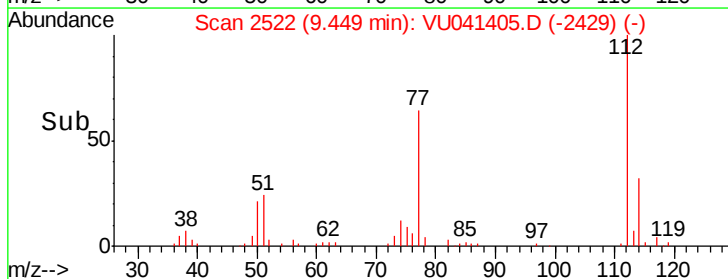
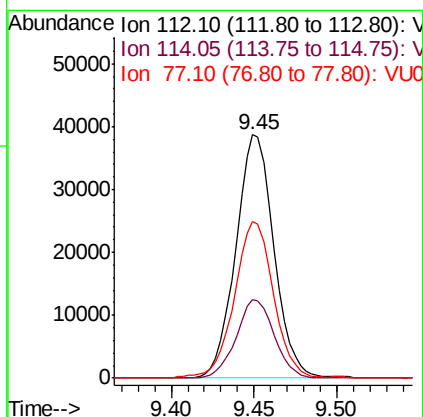
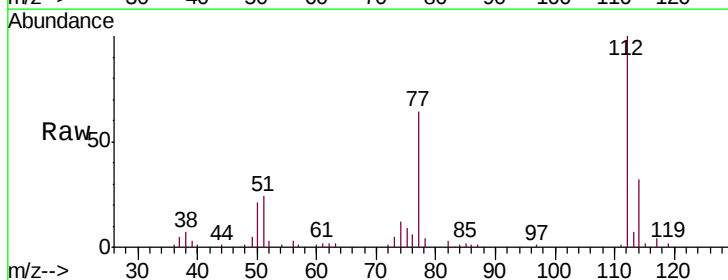
Instrument :
MSVOA_U
ClientSampleId :
H4404MS

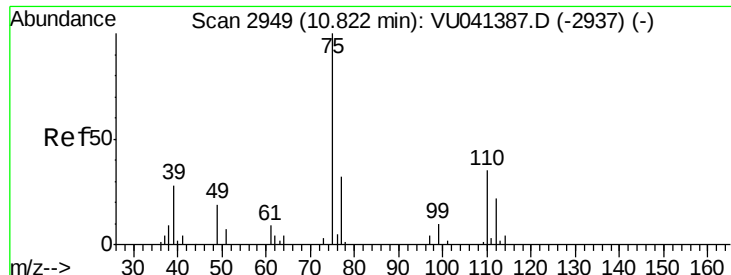
Tgt Ion:	43	Resp:	1447
Ion	Ratio	Lower	Upper
43	100		
58	0.0	42.0	63.0#
57	7.7	15.0	22.4#
100	0.0	8.4	12.6#



#51
Chlorobenzene
Concen: 5.182 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041405.D
Acq: 23 Nov 2020 22:14

Tgt Ion:	112	Resp:	61684
Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.3	41.3
77	64.1	52.2	78.4





#59

1,2,3-Trichloropropane

Concen: 1.131 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041405.D

Acq: 23 Nov 2020 22:14

Instrument :

MSVOA_U

ClientSampleId :

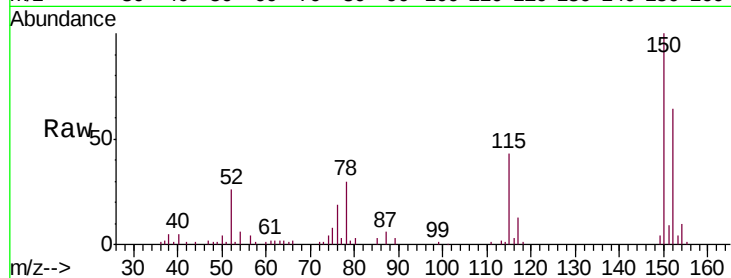
H4404MS

Tgt Ion: 75 Resp: 3496

Ion Ratio Lower Upper

75 100

77 41.3 25.1 37.7#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

