

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070620\
 Data File : VU039289.D
 Acq On : 06 Jul 2020 14:28
 Operator : SY/MD
 Sample : L3193-07MS
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4296MS

Quant Time: Jul 07 01:19:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jul 07 01:17:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	120716	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	111976	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	53663	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	46945	5.06	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	101.20%
7) Chloroethane-d5	1.93	69	40191	4.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.60%
11) 1,1-Dichloroethene-d2	2.58	63	88669	5.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	102.80%
20) 2-Butanone-d5	4.66	46	163204	46.64	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.28%
24) Chloroform-d	5.08	84	87842	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	5.72	65	52000	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.60%
32) Benzene-d6	5.74	84	174638	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
36) 1,2-Dichloropropane-d6	6.71	67	58488	5.11	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.20%
41) Toluene-d8	7.91	98	160038	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
43) trans-1,3-Dichloropropene-	8.19	79	22262	4.20	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.00%
46) 2-Hexanone-d5	8.64	63	135971	48.72	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.44%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	51944	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	60568	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	1018	0.116 ug/L #	39
5) Vinyl chloride	1.61	62	38094	4.236 ug/L #	64
12) 1,1-Dichloroethene	2.59	96	35650	5.213 ug/L	95
16) Methylene chloride	3.06	84	1334	0.153 ug/L #	76
18) trans-1,2-Dichloroethene	3.37	96	6456	0.868 ug/L	87
22) cis-1,2-Dichloroethene	4.69	96	12286	1.450 ug/L	98
27) 1,2-Dichloroethane	5.79	62	1908	0.171 ug/L #	56
30) Cyclohexane	5.40	56	10983	0.853 ug/L	95
33) Benzene	5.79	78	173684	5.503 ug/L	100
34) Trichloroethene	6.56	95	43005	5.285 ug/L	93
35) Methylcyclohexane	6.70	83	14169	1.087 ug/L #	50
37) 1,2-Dichloropropane	6.71	63	6966	0.791 ug/L #	90
39) cis-1,3-Dichloropropene	7.58	75	1949	0.142 ug/L #	53
42) Toluene	7.98	91	182721	5.319 ug/L	99
45) 1,1,2-Trichloroethane	8.38	97	9805	1.497 ug/L #	19
51) Chlorobenzene	9.45	112	110335	5.194 ug/L	98
52) Ethylbenzene	9.57	91	3417	0.089 ug/L	88

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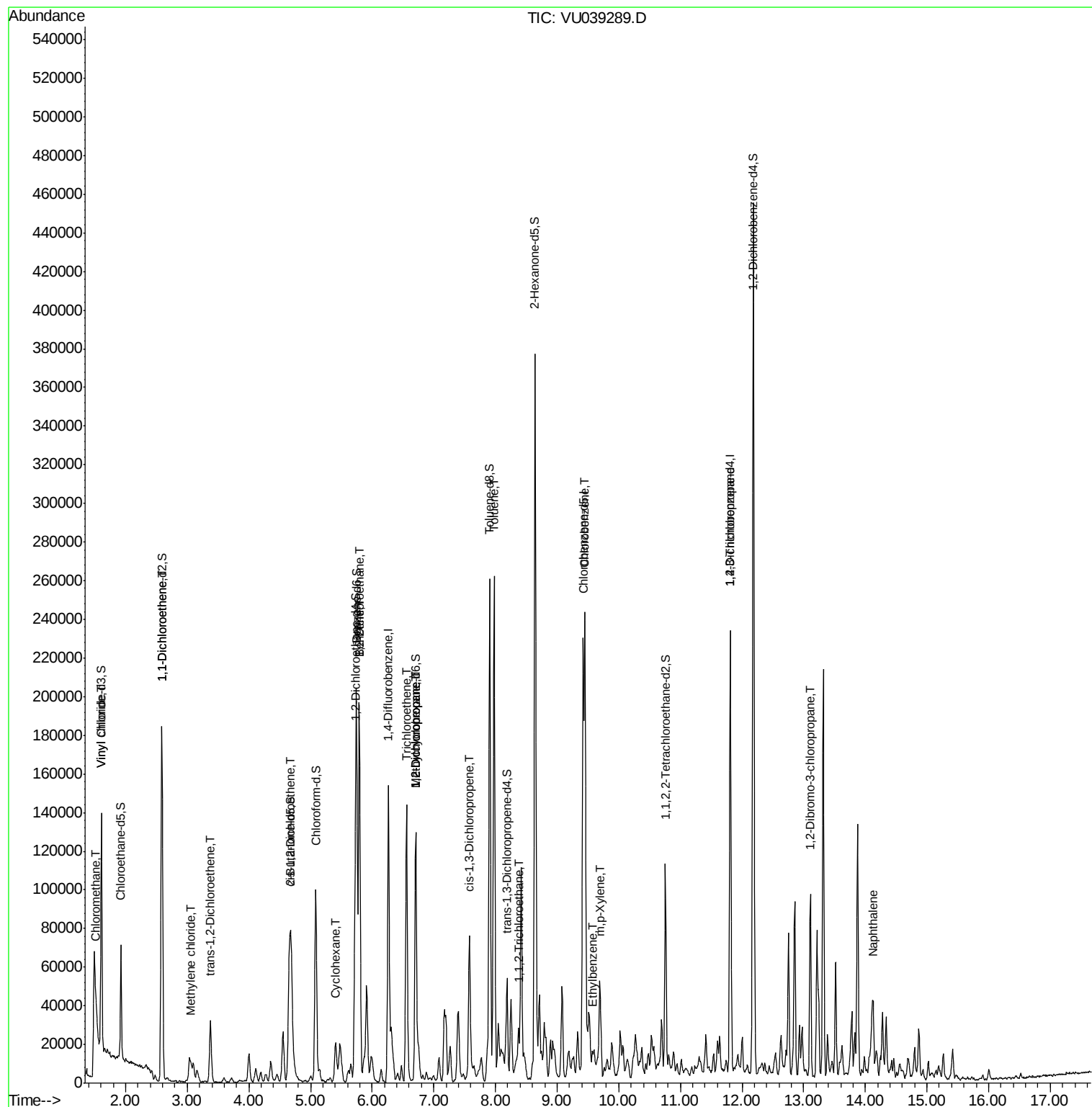
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.70	106	1552	0.108	ug/L	66
59) 1,2,3-Trichloropropane	11.81	75	8213	1.241	ug/L #	83
66) 1,2-Dibromo-3-chloropropan	13.11	75	860	0.522	ug/L #	8
69) Naphthalene	14.13	128	7581	0.369	ug/L #	27

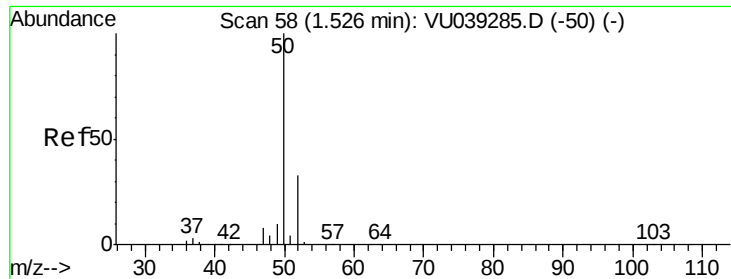
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.116 ug/L

RT: 1.52 min Scan# 56

Delta R.T. -0.01 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

Instrument :

MSVOA_U

ClientSampled :

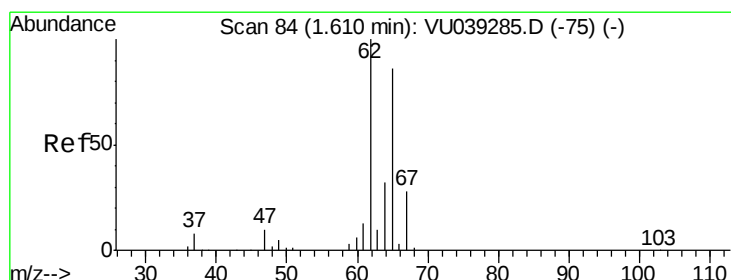
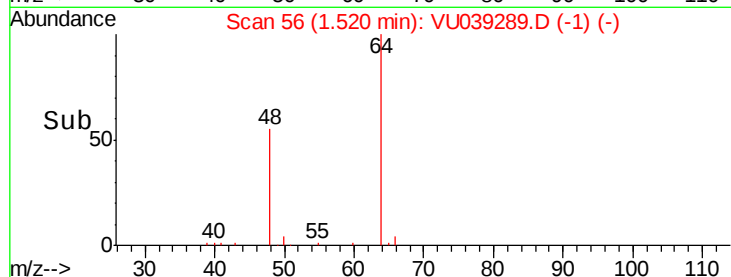
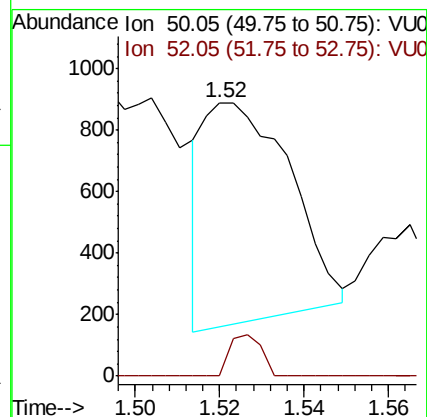
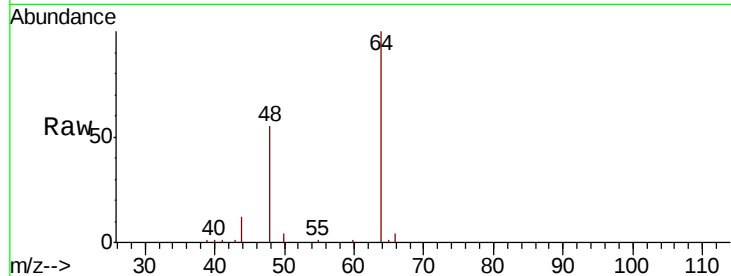
H4296MS

Tot Ion: 50 Resp: 1018

Ion Ratio Lower Upper

50 100

52 0.0 24.7 45.9#



#5

Vinyl chloride

Concen: 4.236 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039289.D

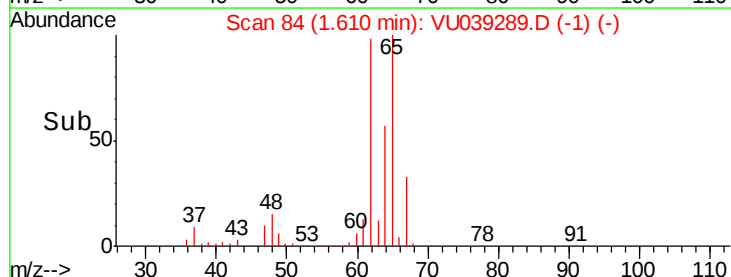
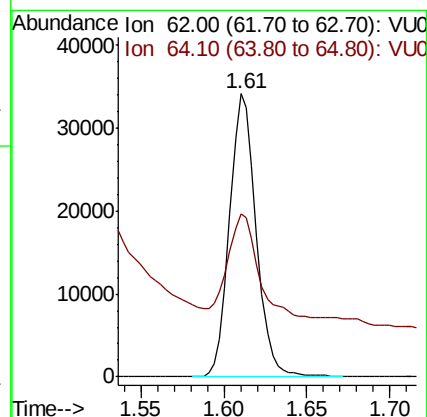
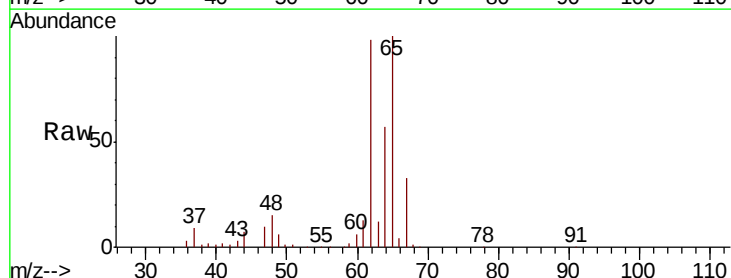
Acq: 06 Jul 2020 14:28

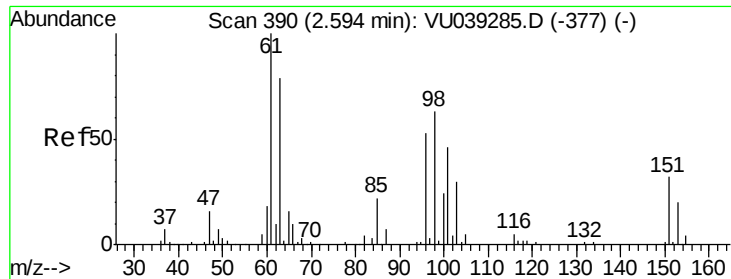
Tgt Ion: 62 Resp: 38094

Ion Ratio Lower Upper

62 100

64 57.6 25.6 47.4#





#12

1,1-Dichloroethene

Concen: 5.213 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.00 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

Instrument :

MSVOA_U

ClientSampleId :

H4296MS

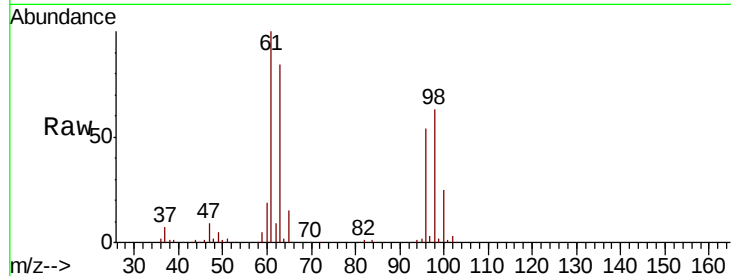
Tot Ion: 96 Resp: 35650

Ion Ratio Lower Upper

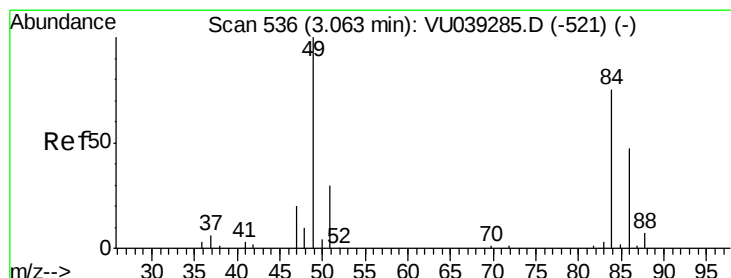
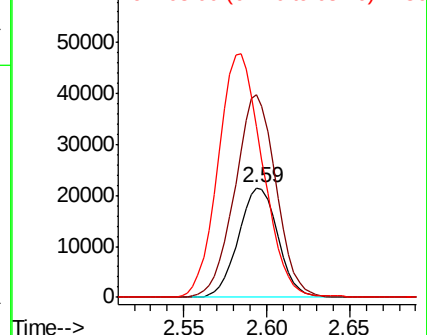
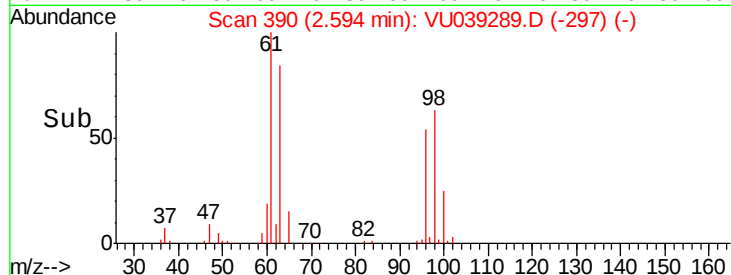
96 100

61 185.9 123.8 230.0

63 155.7 112.1 208.3



Abundance Ion 96.00 (95.70 to 96.70): VU039289.D (-297) (-)



#16

Methylene chloride

Concen: 0.153 ug/L

RT: 3.06 min Scan# 536

Delta R.T. -0.00 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

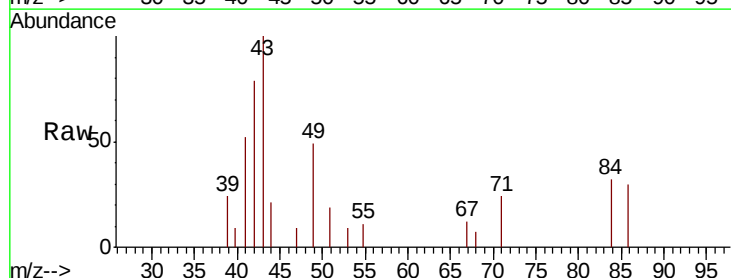
Tgt Ion: 84 Resp: 1334

Ion Ratio Lower Upper

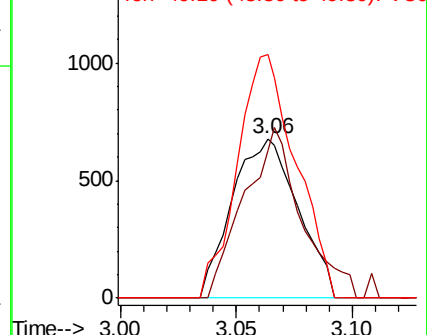
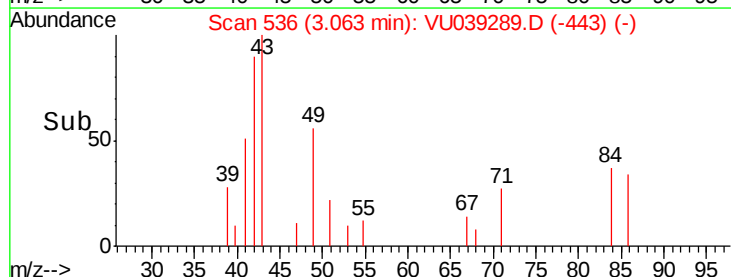
84 100

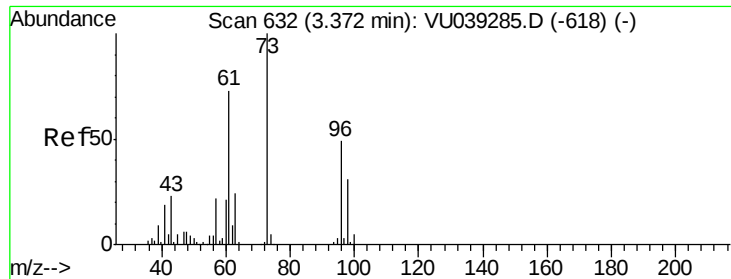
86 92.3 42.6 79.0#

49 152.6 93.0 172.8



Abundance Ion 84.05 (83.75 to 84.75): VU039289.D (-443) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.868 ug/L

RT: 3.37 min Scan# 632

Delta R.T. -0.00 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

Instrument :

MSVOA_U

ClientSampleId :

H4296MS

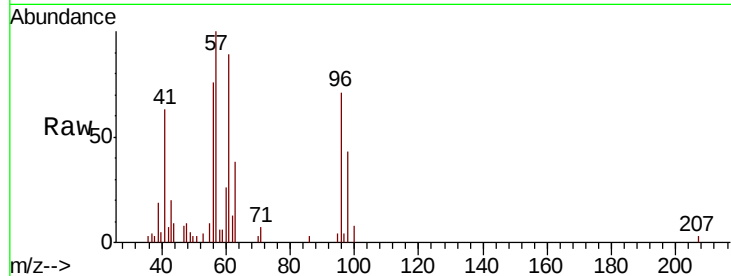
Tot Ion: 96 Resp: 6456

Ion Ratio Lower Upper

96 100

61 126.0 104.7 194.5

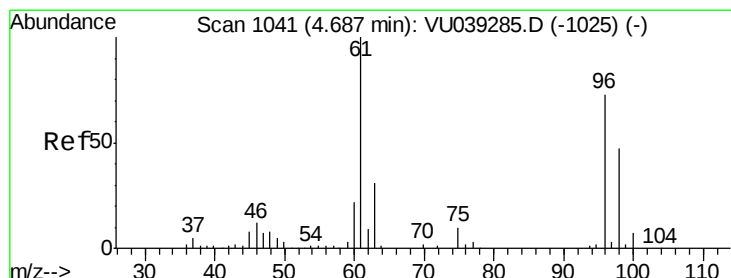
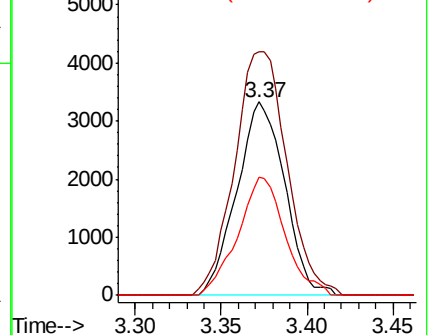
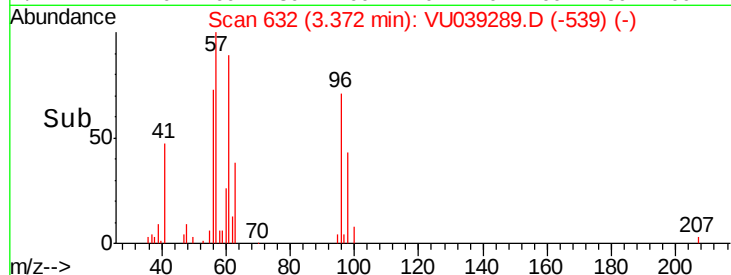
98 61.2 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VU039289.D (-539) (-)

Ion 61.05 (60.75 to 61.75): VU039289.D (-539) (-)

Ion 97.95 (97.65 to 98.65): VU039289.D (-539) (-)



#22

cis-1,2-Dichloroethene

Concen: 1.450 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

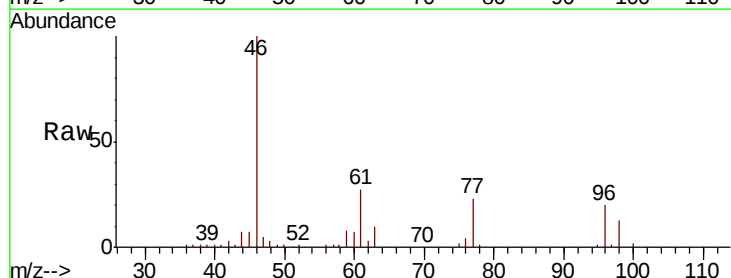
Tgt Ion: 96 Resp: 12286

Ion Ratio Lower Upper

96 100

61 136.3 93.7 173.9

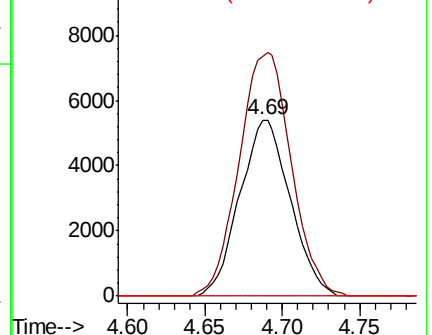
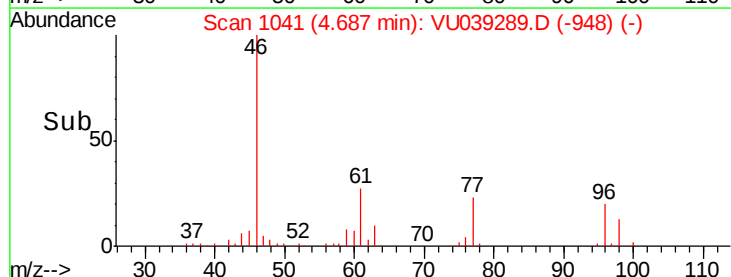
68 0.0 0.0 0.0

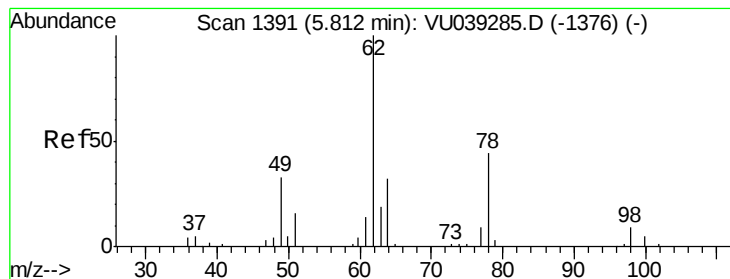


Abundance Ion 96.00 (95.70 to 96.70): VU039289.D (-948) (-)

Ion 61.05 (60.75 to 61.75): VU039289.D (-948) (-)

Ion 68.15 (67.85 to 68.85): VU039289.D (-948) (-)





#27

1,2-Dichloroethane

Concen: 0.171 ug/L

RT: 5.79 min Scan# 1385

Delta R.T. -0.02 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

Instrument :

MSVOA_U

ClientSampleId :

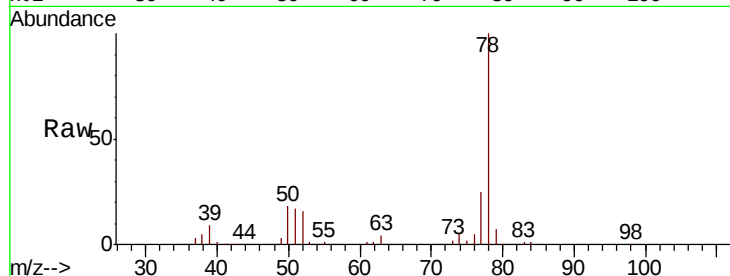
H4296MS

Tot Ion: 62 Resp: 1908

Ion Ratio Lower Upper

62 100

98 23.3 6.2 9.4#



Abundance Ion 62.00 (61.70 to 62.70): VU039285.D (-1376) (-)

Ion 98.05 (97.75 to 98.75): VU039285.D (-1376) (-)

5.79

1000

800

600

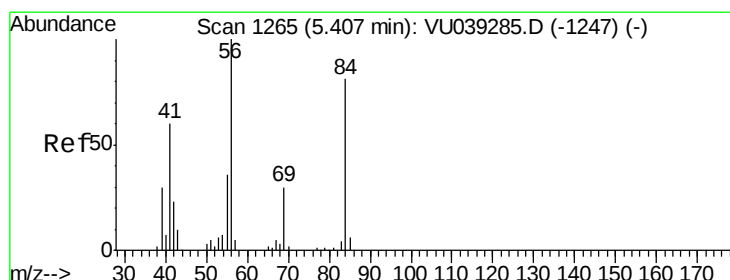
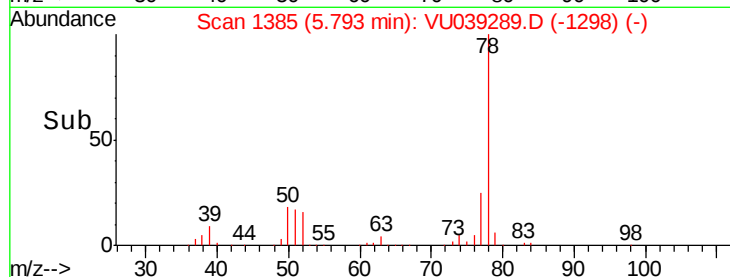
400

200

0

5.75 5.80 5.85

Time-->



#30

Cyclohexane

Concen: 0.853 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

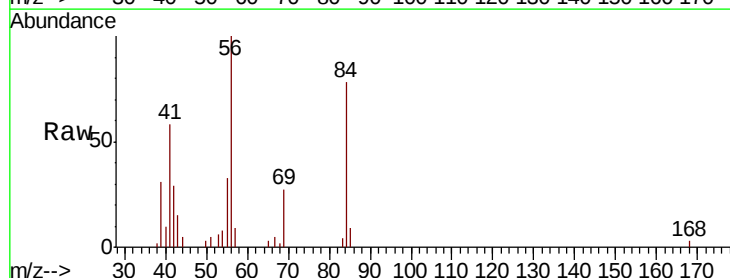
Tgt Ion: 56 Resp: 10983

Ion Ratio Lower Upper

56 100

69 27.7 24.2 36.4

84 79.4 67.0 100.4



Abundance Ion 56.10 (55.80 to 56.80): VU039285.D (-1247) (-)

Ion 69.15 (68.85 to 69.85): VU039285.D (-1247) (-)

Ion 84.15 (83.85 to 84.85): VU039285.D (-1247) (-)

5.40

6000

5000

4000

3000

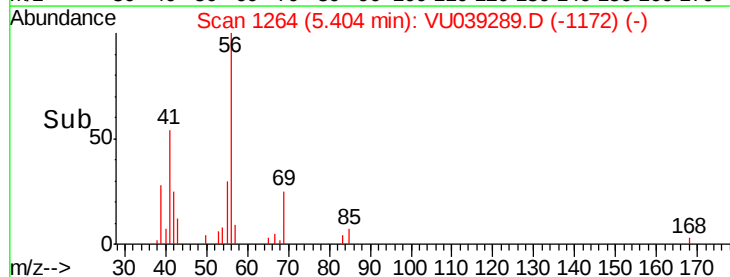
2000

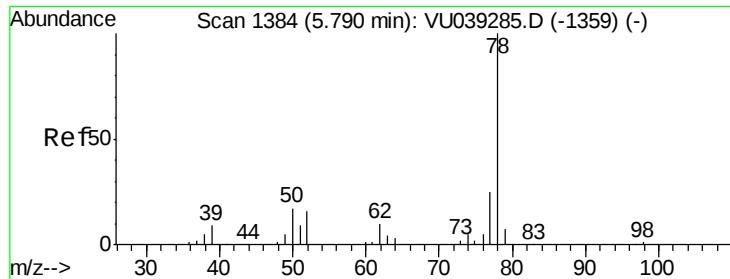
1000

0

5.35 5.40 5.45

Time-->





#33

Benzene

Concen: 5.503 ug/L

RT: 5.79 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

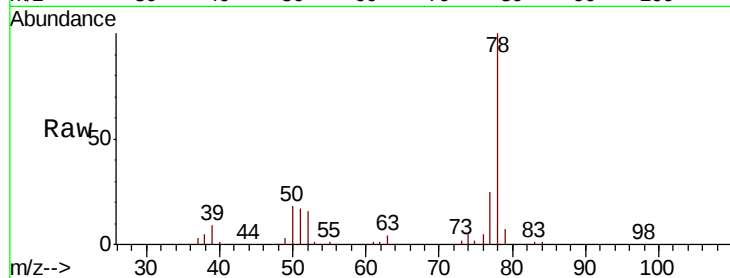
Instrument :

MSVOA_U

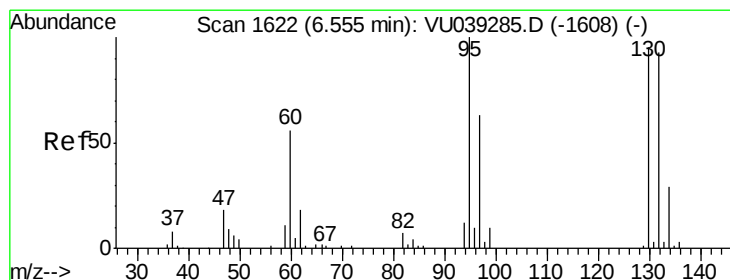
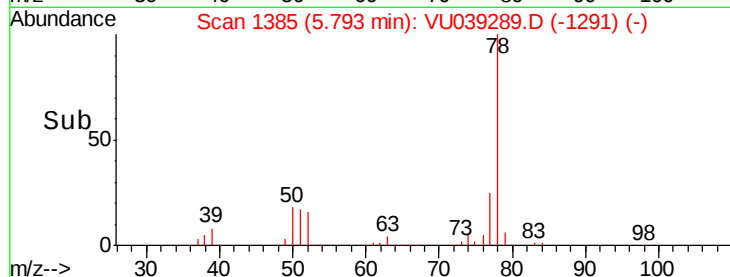
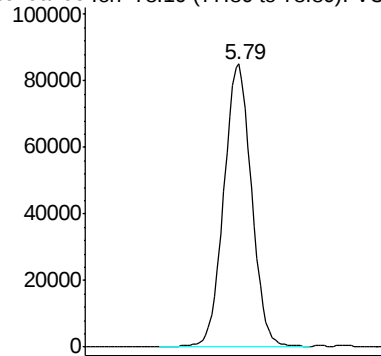
ClientSampleId :

H4296MS

Tgt Ion: 78 Resp: 173684



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 5.285 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

Tgt Ion: 95 Resp: 43005

Ion	Ratio	Lower	Upper
95	100		
97	62.3	47.0	87.2
132	86.7	65.0	120.8
130	91.4	69.8	129.6

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

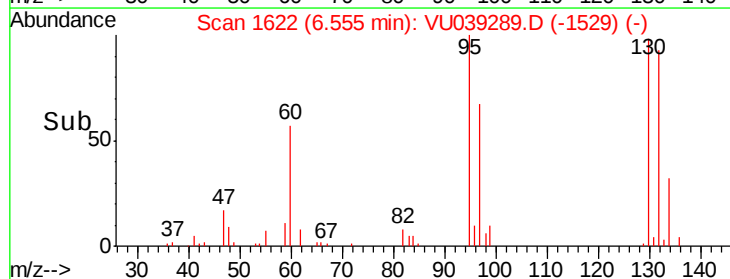
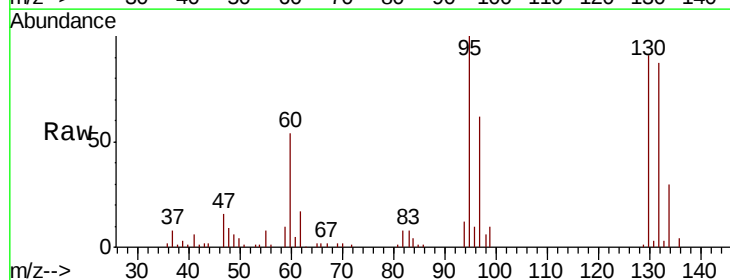
Ion 129.95 (129.65 to 130.65): V

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



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

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

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

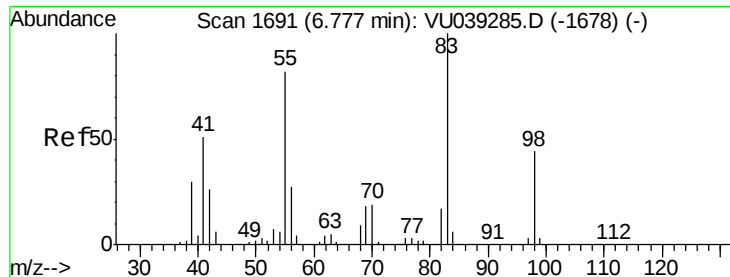
Ion 129.95 (129.65 to 130.65): V

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

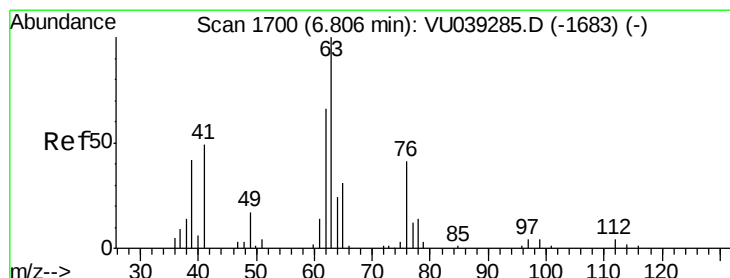
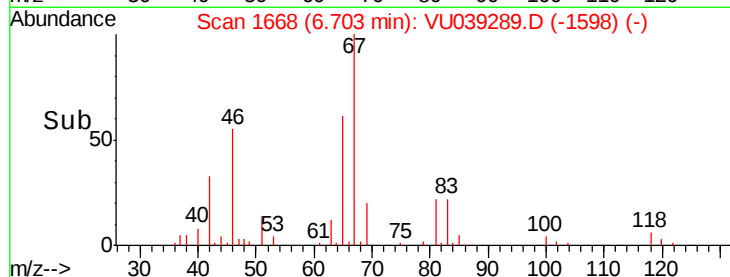
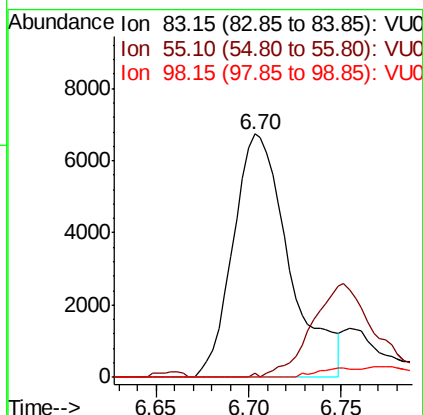
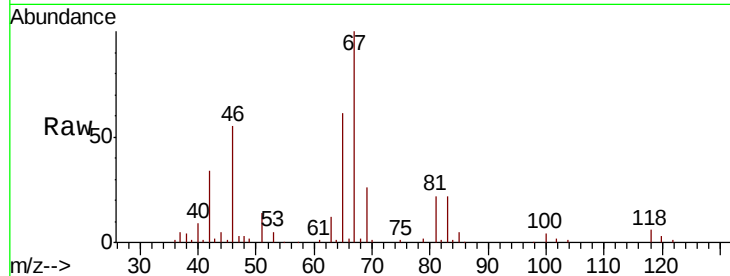
Ion 129.95 (129.65 to 130.65): V



#35
Methylcyclohexane
Concen: 1.087 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU039289.D
Acq: 06 Jul 2020 14:28

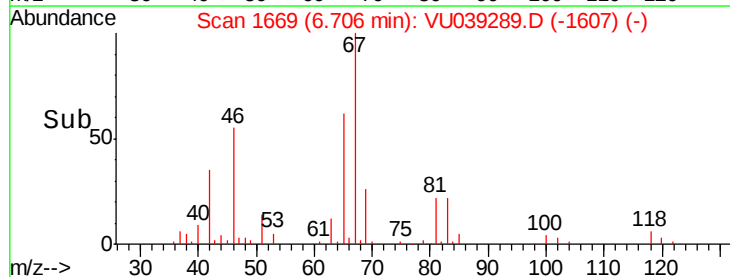
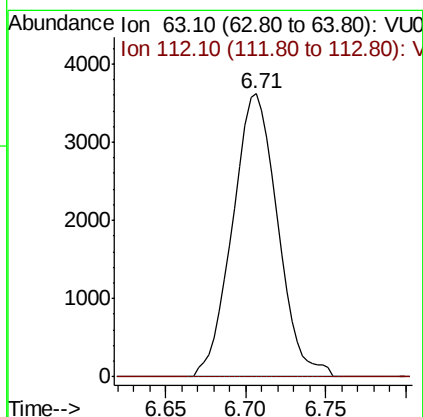
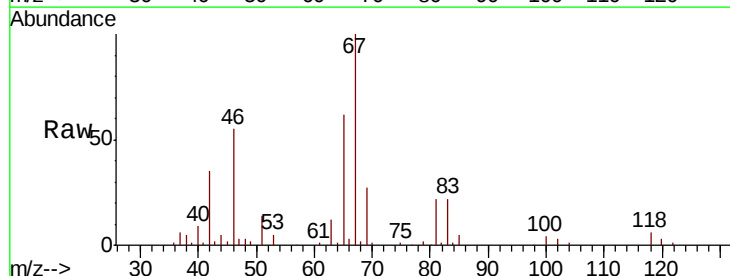
Instrument :
MSVOA_U
ClientSampleId :
H4296MS

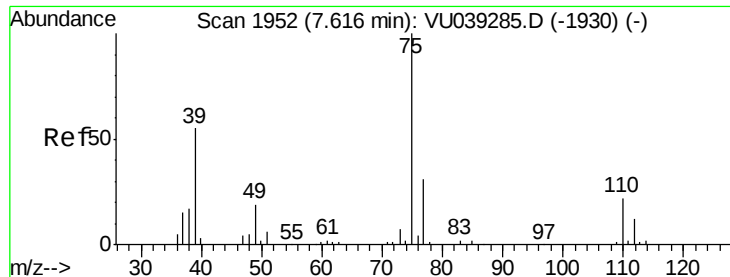
Tot Ion: 83 Resp: 14169
Ion Ratio Lower Upper
83 100
55 44.3 63.3 94.9#
98 2.6 37.4 56.2#



#37
1,2-Dichloropropane
Concen: 0.791 ug/L
RT: 6.71 min Scan# 1669
Delta R.T. -0.10 min
Lab File: VU039289.D
Acq: 06 Jul 2020 14:28

Tgt Ion: 63 Resp: 6966
Ion Ratio Lower Upper
63 100
112 0.0 2.6 3.8#

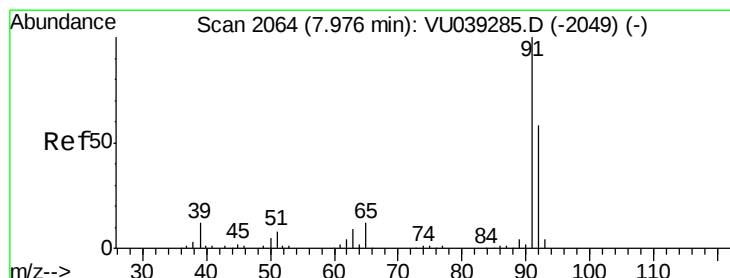
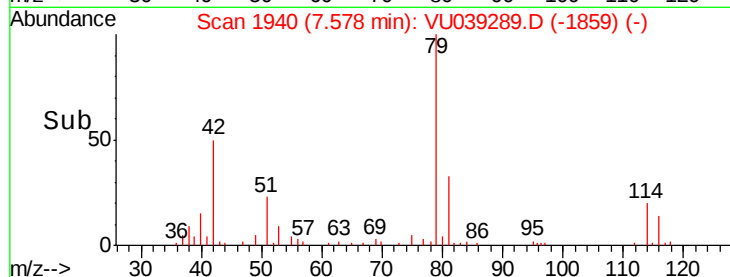
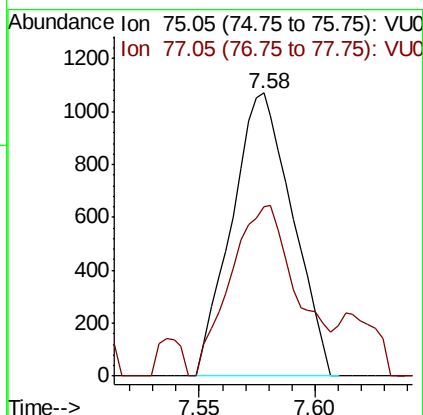
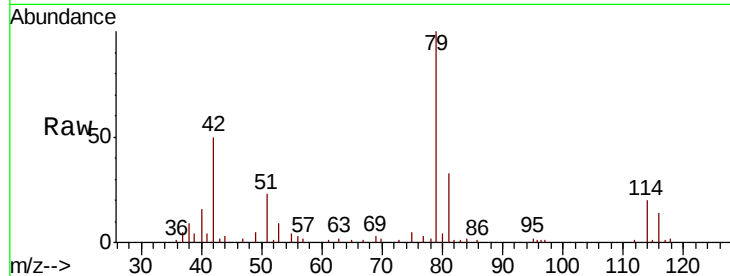




#39
 cis-1,3-Dichloropropene
 Concen: 0.142 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU039289.D
 Acq: 06 Jul 2020 14:28

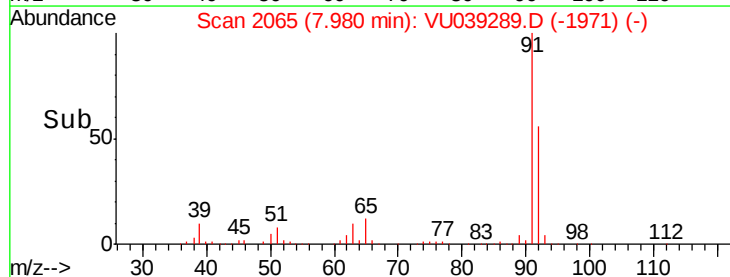
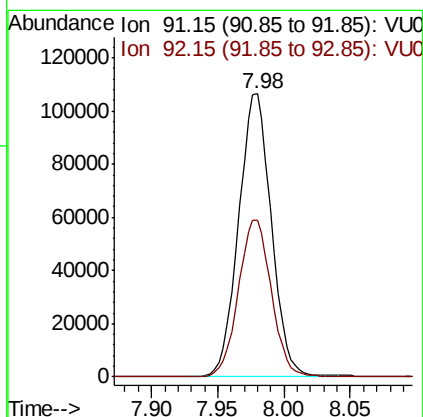
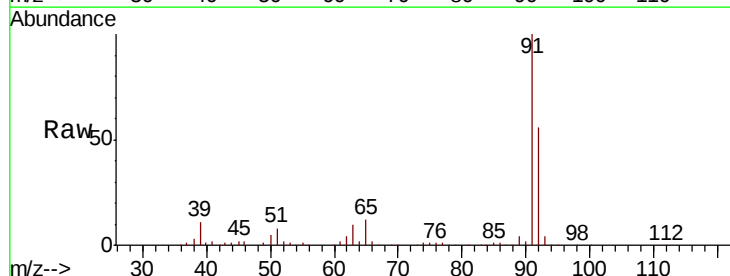
Instrument :
 MSVOA_U
 ClientSampleId :
 H4296MS

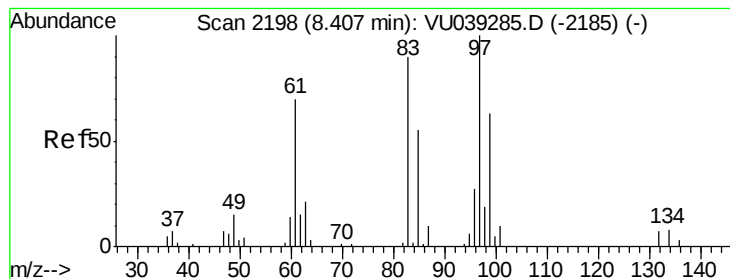
Tot Ion: 75 Resp: 1949
 Ion Ratio Lower Upper
 75 100
 77 60.1 23.3 43.3#



#42
 Toluene
 Concen: 5.319 ug/L
 RT: 7.98 min Scan# 2065
 Delta R.T. 0.00 min
 Lab File: VU039289.D
 Acq: 06 Jul 2020 14:28

Tgt Ion: 91 Resp: 182721
 Ion Ratio Lower Upper
 91 100
 92 55.6 39.3 72.9





#45

1,1,2-Trichloroethane

Concen: 1.497 ug/L

RT: 8.38 min Scan# 2188

Delta R.T. -0.03 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

Instrument :

MSVOA_U

ClientSampleId :

H4296MS

Tot Ion: 97 Resp: 9805

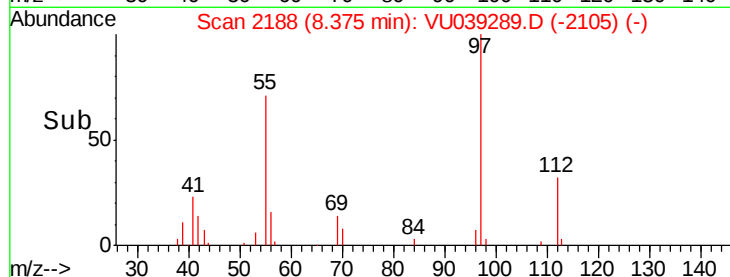
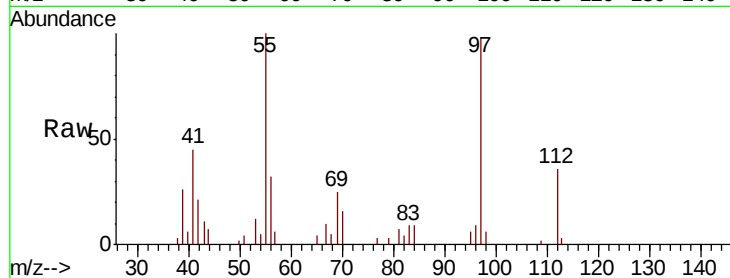
Ion Ratio Lower Upper

97 100

99 0.0 42.5 78.9#

83 8.8 62.2 115.4#

85 0.0 38.7 71.9#

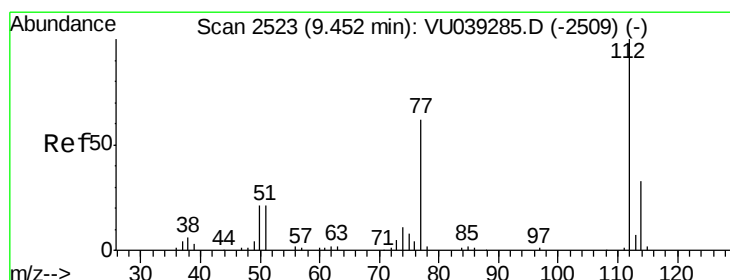
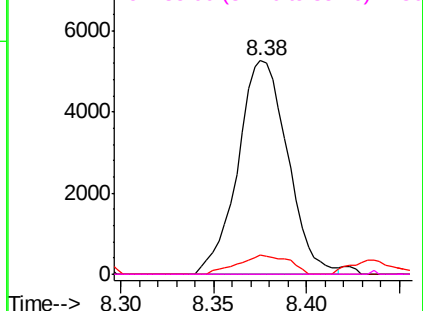


Abundance Ion 96.95 (96.65 to 97.65): VU0

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



#51

Chlorobenzene

Concen: 5.194 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. -0.00 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

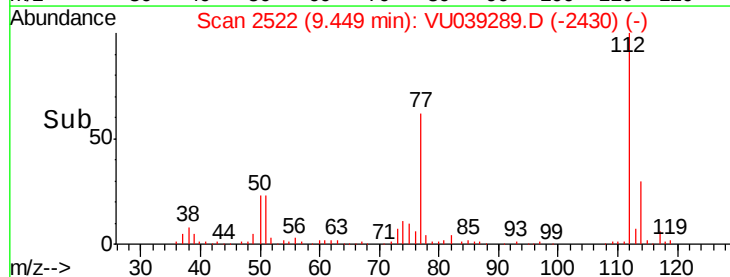
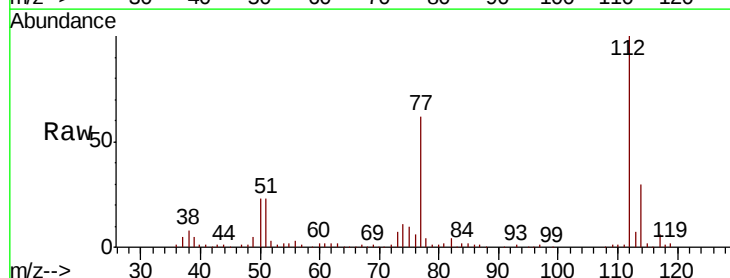
Tgt Ion: 112 Resp: 110335

Ion Ratio Lower Upper

112 100

114 30.4 21.9 40.7

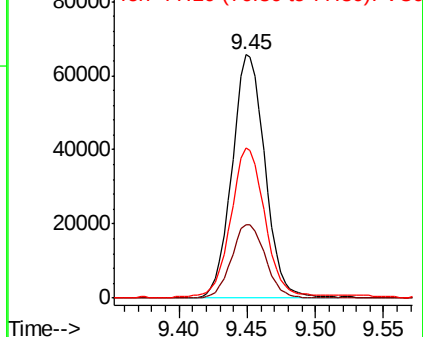
77 61.8 48.2 72.4

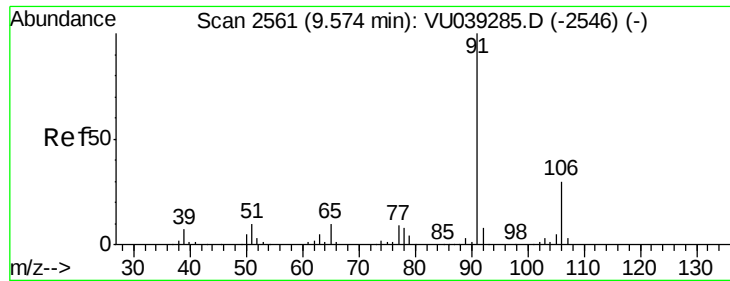


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0

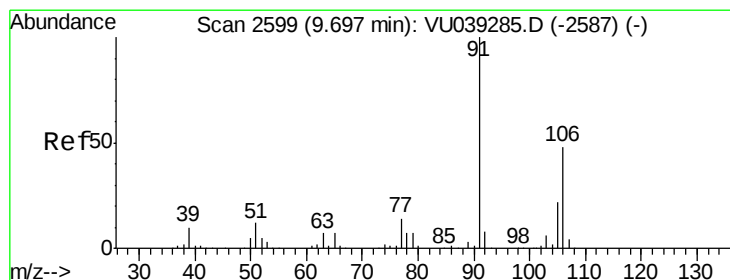
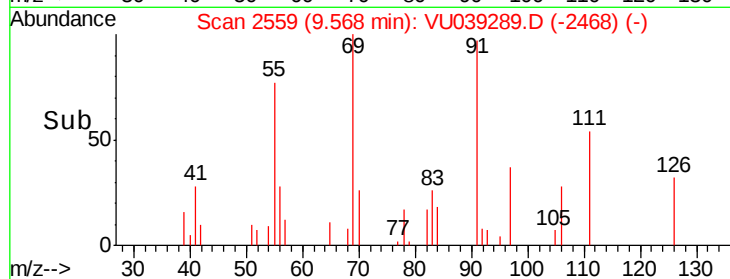
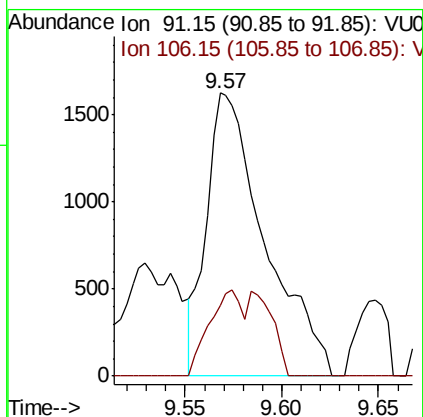
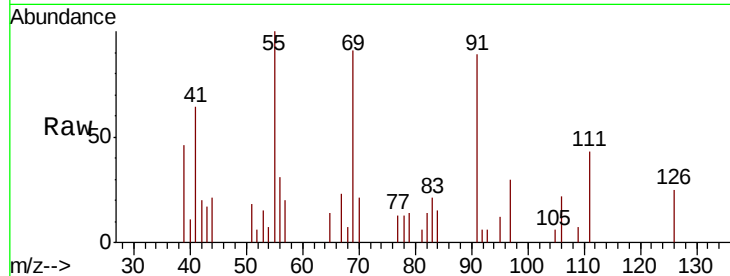




#52
Ethylbenzene
Concen: 0.089 ug/L
RT: 9.57 min Scan# 2559
Delta R.T. -0.01 min
Lab File: VU039289.D
Acq: 06 Jul 2020 14:28

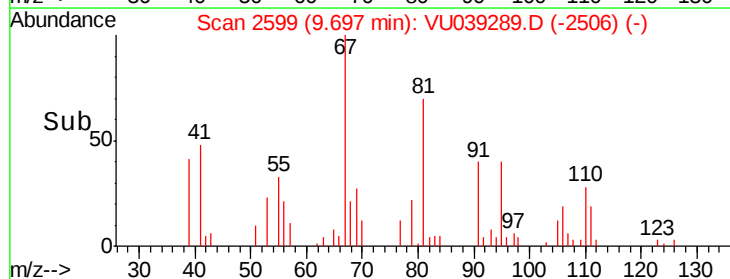
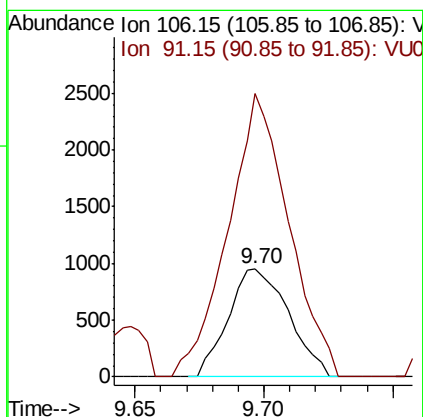
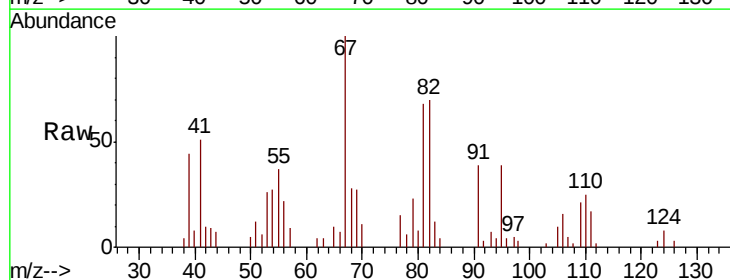
Instrument :
MSVOA_U
ClientSampleId :
H4296MS

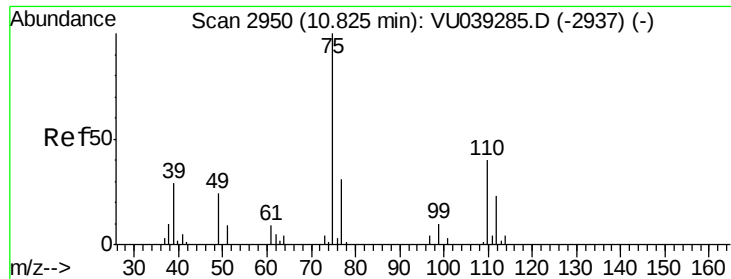
Tot Ion: 91 Resp: 3417
Ion Ratio Lower Upper
91 100
106 25.1 22.1 41.1



#53
m,p-Xylene
Concen: 0.108 ug/L
RT: 9.70 min Scan# 2599
Delta R.T. 0.00 min
Lab File: VU039289.D
Acq: 06 Jul 2020 14:28

Tgt Ion: 106 Resp: 1552
Ion Ratio Lower Upper
106 100
91 261.8 146.6 272.2





#59

1,2,3-Trichloropropane

Concen: 1.241 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

Instrument :

MSVOA_U

ClientSampled :

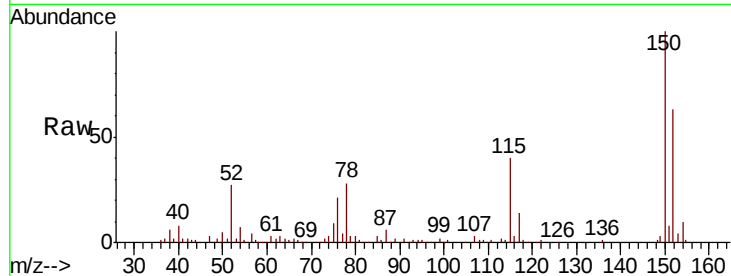
H4296MS

Tot Ion: 75 Resp: 8213

Ion Ratio Lower Upper

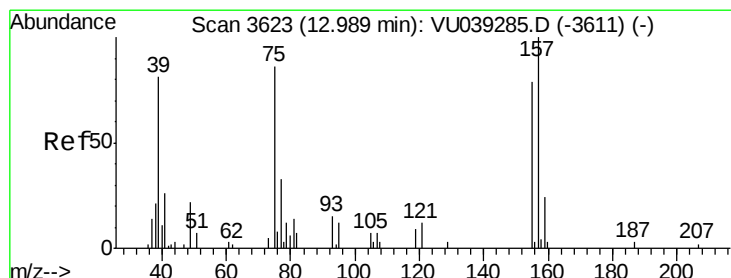
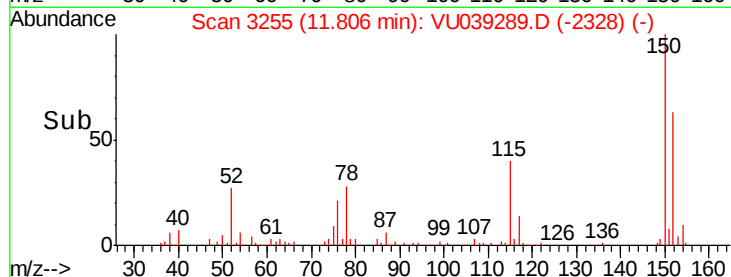
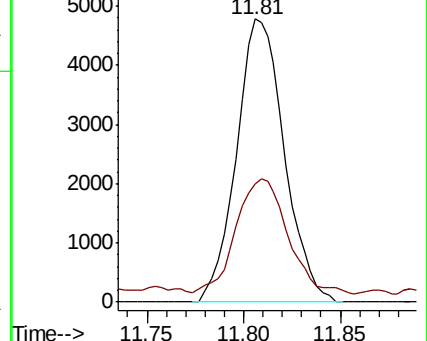
75 100

77 44.1 27.7 41.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#66

1,2-Dibromo-3-chloropropane

Concen: 0.522 ug/L

RT: 13.11 min Scan# 3660

Delta R.T. 0.12 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

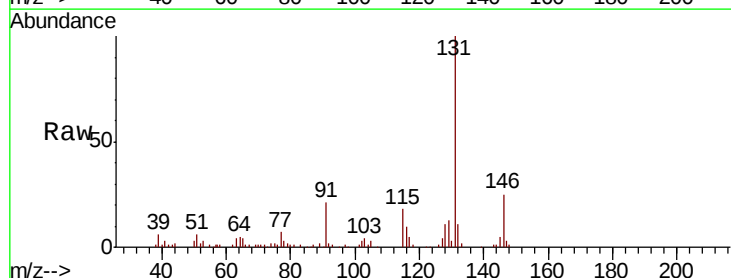
Tgt Ion: 75 Resp: 860

Ion Ratio Lower Upper

75 100

155 0.0 58.6 88.0#

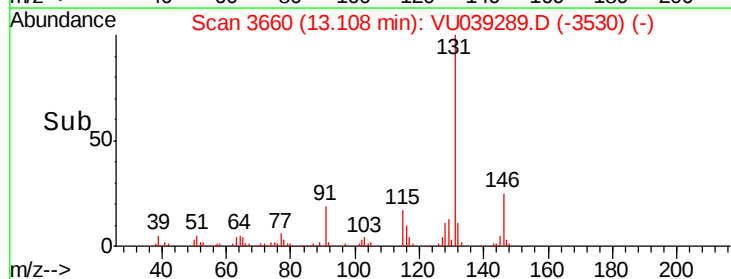
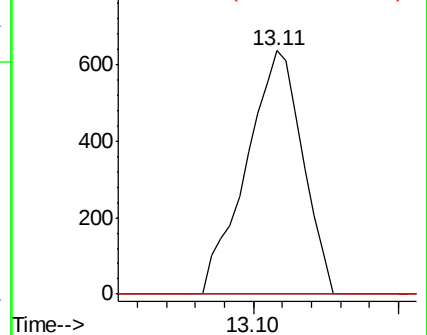
157 0.0 71.4 107.0#

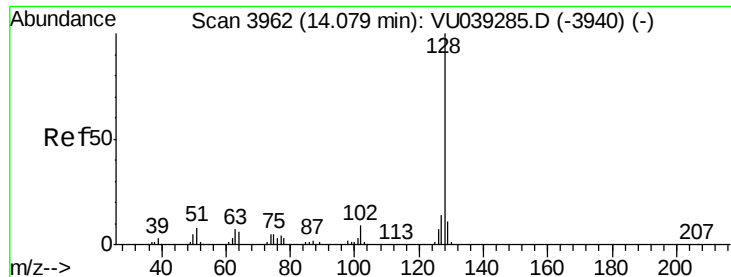


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V





#69

Naphthalene

Concen: 0.369 ug/L

RT: 14.13 min Scan# 3978

Delta R.T. 0.05 min

Lab File: VU039289.D

Acq: 06 Jul 2020 14:28

Instrument :

MSVOA_U

ClientSampleId :

H4296MS

Tot Ion:128 Resp: 7581

Ion Ratio Lower Upper

128 100

129 59.3 8.3 12.5#

127 24.7 10.7 16.1#

