

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070620\
 Data File : VU039298.D
 Acq On : 06 Jul 2020 17:56
 Operator : SY/MD
 Sample : L3193-12
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4277

Quant Time: Jul 07 01:20:45 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	6.27	114	112136	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	105870	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	50872	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	51900	6.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	120.40%
7) Chloroethane-d5	1.92	69	43711	5.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	106.00%
11) 1,1-Dichloroethene-d2	2.58	63	85392	5.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	106.60%
20) 2-Butanone-d5	4.72	46	182339	56.10	ug/L	0.06
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.20%
24) Chloroform-d	5.09	84	83910	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.60%
26) 1,2-Dichloroethane-d4	5.73	65	49055	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.74	84	167929	5.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.20%
36) 1,2-Dichloropropane-d6	6.71	67	57222	5.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.80%
41) Toluene-d8	7.91	98	155340	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.80%
43) trans-1,3-Dichloropropene-	8.19	79	23595	4.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.20%
46) 2-Hexanone-d5	8.65	63	139981	53.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.10%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	49861	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	58031	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	5565	0.685 ug/L #	48
5) Vinyl chloride	1.61	62	178573	21.374 ug/L #	65
8) Chloroethane	2.15	64	3569	0.624 ug/L #	54
12) 1,1-Dichloroethene	2.59	96	2329	0.367 ug/L #	1
13) Acetone	2.75	43	19307	12.554 ug/L	62
14) Carbon disulfide	2.81	76	4917	0.243 ug/L #	87
15) Methyl Acetate	3.01	43	17924	4.658 ug/L	98
16) Methylene chloride	3.06	84	736	0.091 ug/L #	84
17) Methyl tert-butyl Ether	3.39	73	275124	13.166 ug/L	97
18) trans-1,2-Dichloroethene	3.37	96	39513	5.721 ug/L	98
19) 1,1-Dichloroethane	3.89	63	27586	1.994 ug/L	95
21) 2-Butanone	4.80	43	273414	97.677 ug/L	97
22) cis-1,2-Dichloroethene	4.69	96	903770	114.845 ug/L	92
30) Cyclohexane	5.39	56	1628	0.134 ug/L #	94
33) Benzene	5.79	78	25485	0.854 ug/L	100
34) Trichloroethene	6.56	95	22558	2.932 ug/L	97
35) Methylcyclohexane	6.71	83	12384	1.005 ug/L #	18

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QLast Update : Tue Jul 07 01:17:04 2020
Response via : Initial Calibration

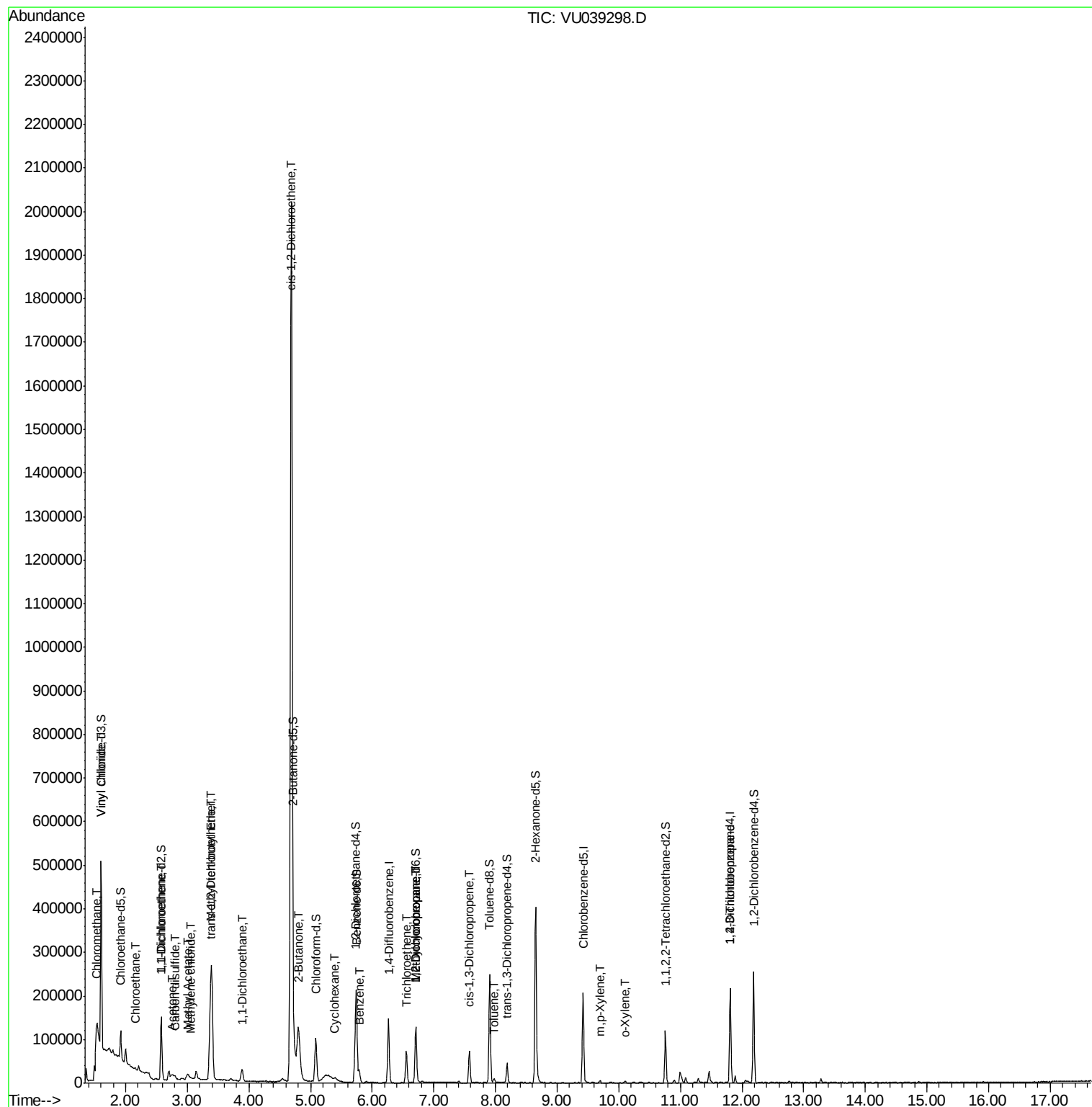
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.71	63	6511	0.782	ug/L #	90
39) cis-1,3-Dichloropropene	7.58	75	1956	0.151	ug/L #	39
42) Toluene	7.98	91	6702	0.206	ug/L	99
53) m,p-Xylene	9.69	106	1347	0.099	ug/L	85
54) o-Xylene	10.10	106	1014	0.075	ug/L	97
59) 1,2,3-Trichloropropane	11.81	75	7785	1.244	ug/L	93

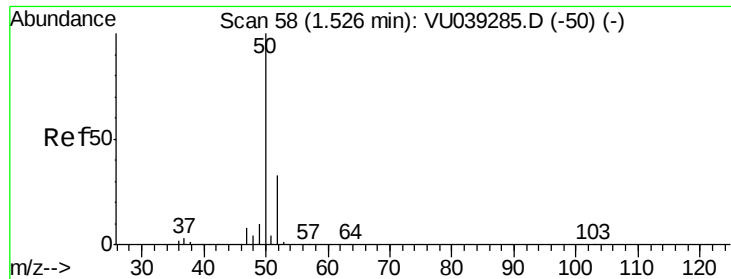
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.685 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

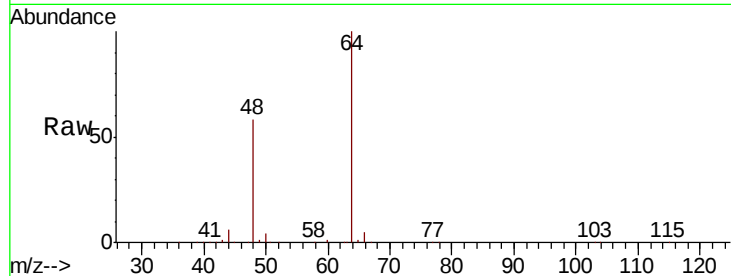
H4277

Tot Ion: 50 Resp: 5565

Ion Ratio Lower Upper

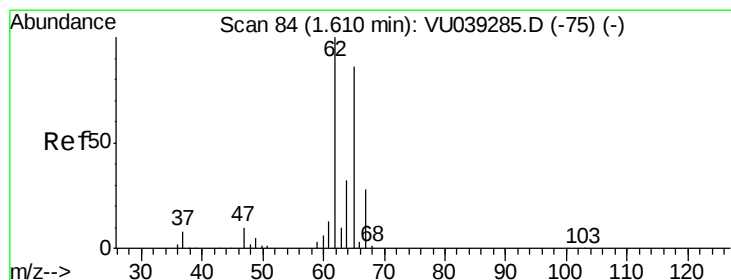
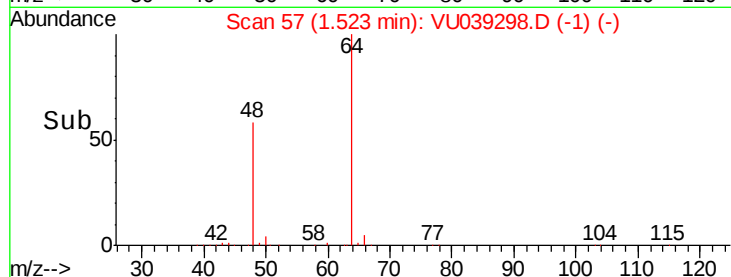
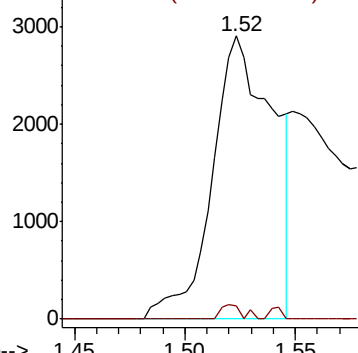
50 100

52 4.8 24.7 45.9#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 21.374 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU039298.D

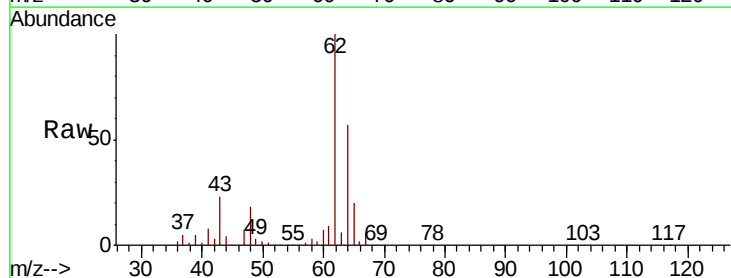
Acq: 06 Jul 2020 17:56

Tgt Ion: 62 Resp: 178573

Ion Ratio Lower Upper

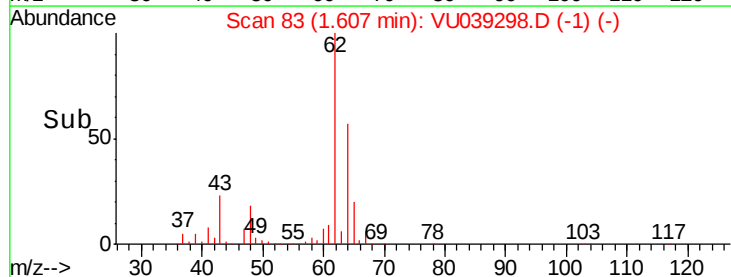
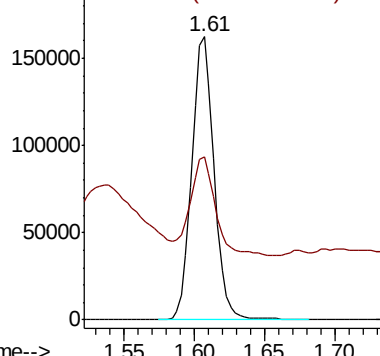
62 100

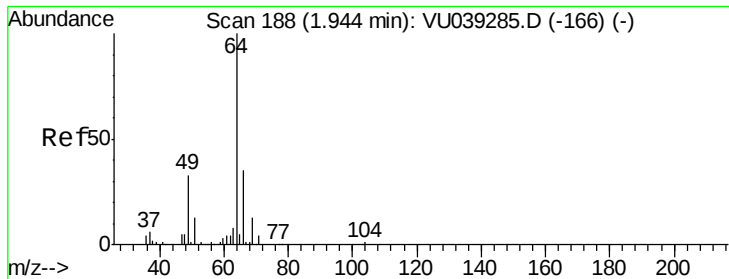
64 57.5 25.6 47.4#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.624 ug/L

RT: 2.15 min Scan# 253

Delta R.T. 0.21 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

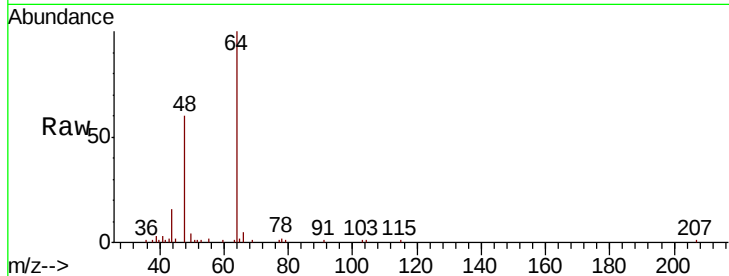
H4277

Tot Ion: 64 Resp: 3569

Ion Ratio Lower Upper

64 100

66 5.0 20.7 38.5#

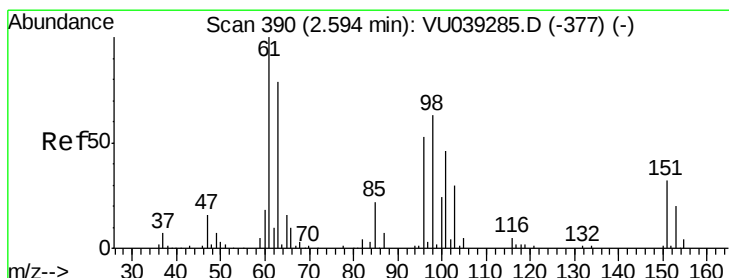
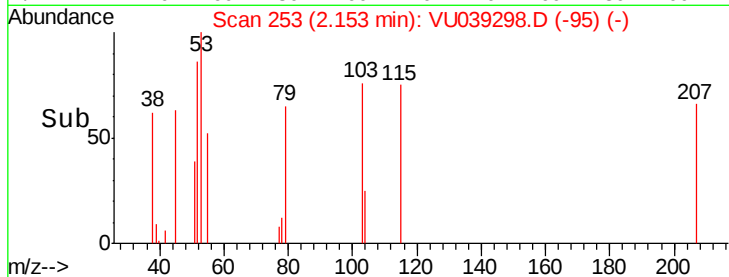


Abundance Ion 64.10 (63.80 to 64.80): VU039298.D (-253) (-)

Ion 66.05 (65.75 to 66.75): VU039298.D (-253) (-)

2.15

Time-->



#12

1,1-Dichloroethene

Concen: 0.367 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

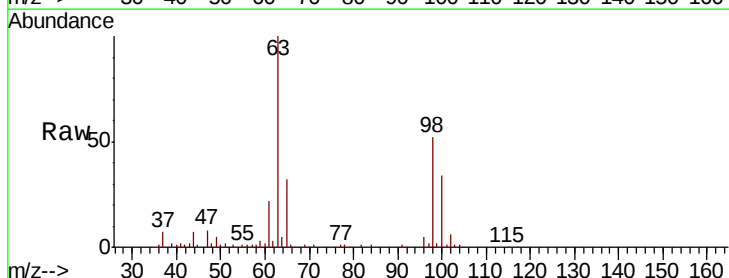
Tgt Ion: 96 Resp: 2329

Ion Ratio Lower Upper

96 100

61 405.5 123.8 230.0#

63 1849.0 112.1 208.3#



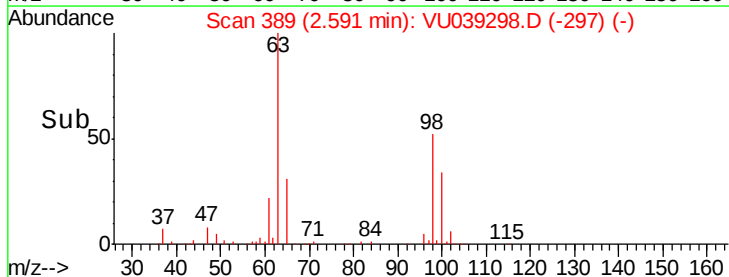
Abundance Ion 96.00 (95.70 to 96.70): VU039298.D (-389) (-)

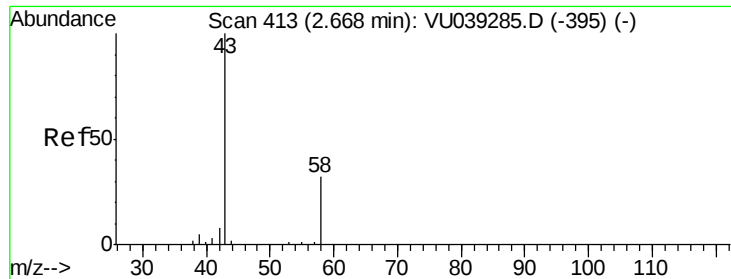
Ion 61.05 (60.75 to 61.75): VU039298.D (-389) (-)

Ion 63.00 (62.70 to 63.70): VU039298.D (-389) (-)

2.59

Time-->





#13

Acetone

Concen: 12.554 ug/L

RT: 2.75 min Scan# 438

Delta R.T. 0.08 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

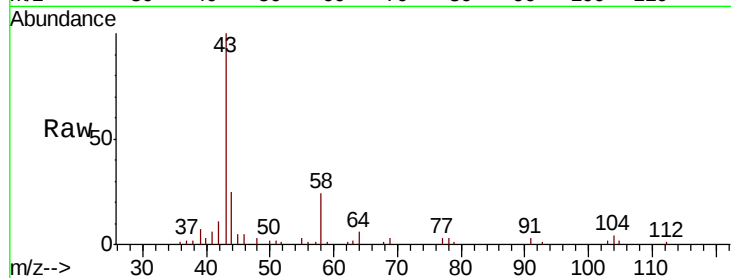
H4277

Tot Ion: 43 Resp: 19307

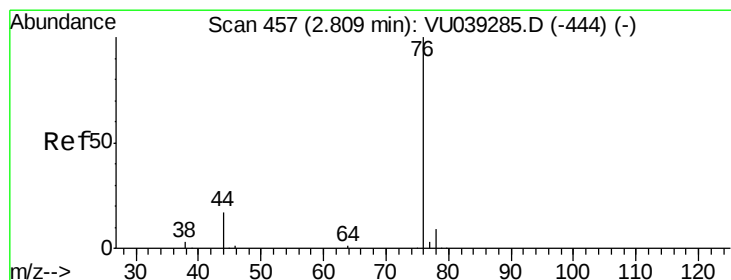
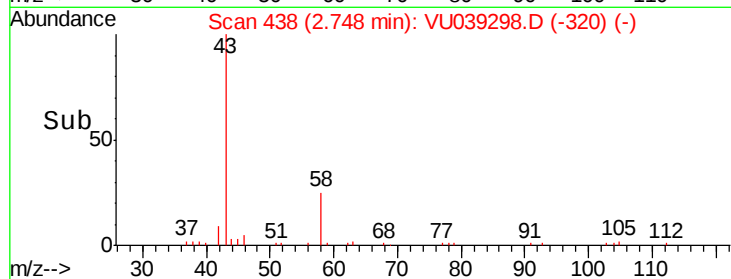
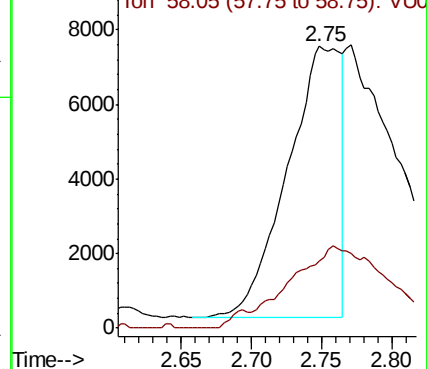
Ion Ratio Lower Upper

43 100

58 53.1 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU039298.D (-438) (-)



#14

Carbon disulfide

Concen: 0.243 ug/L

RT: 2.81 min Scan# 456

Delta R.T. -0.00 min

Lab File: VU039298.D

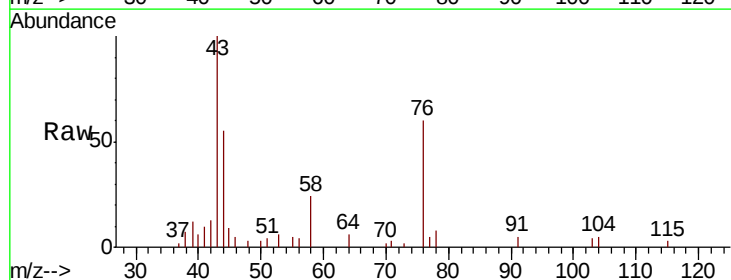
Acq: 06 Jul 2020 17:56

Tgt Ion: 76 Resp: 4917

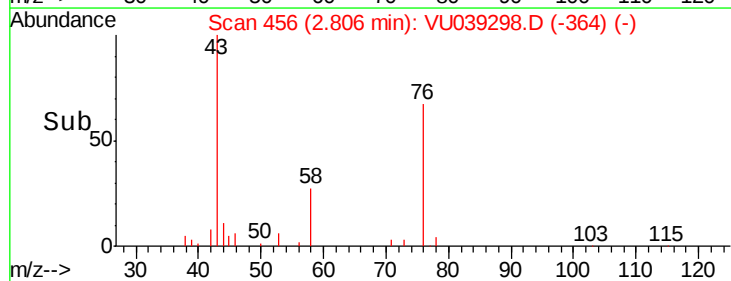
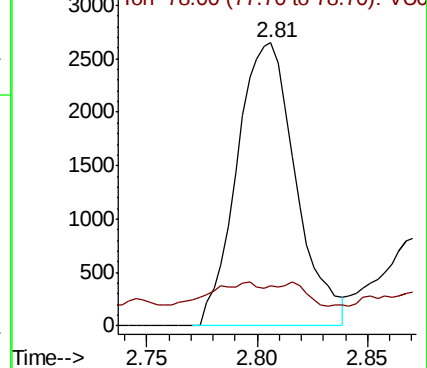
Ion Ratio Lower Upper

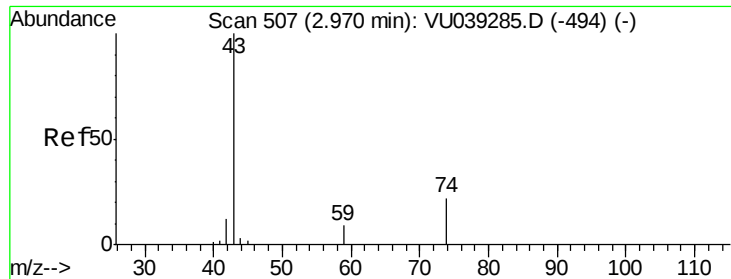
76 100

78 14.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VU039298.D (-456) (-)

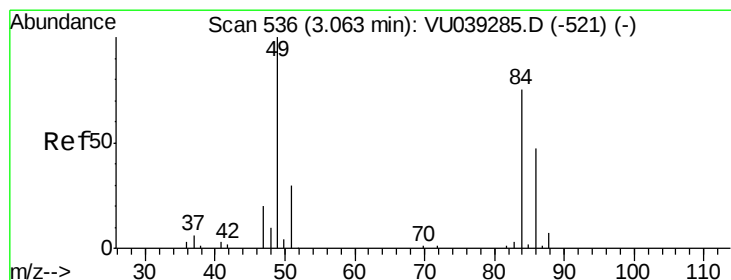
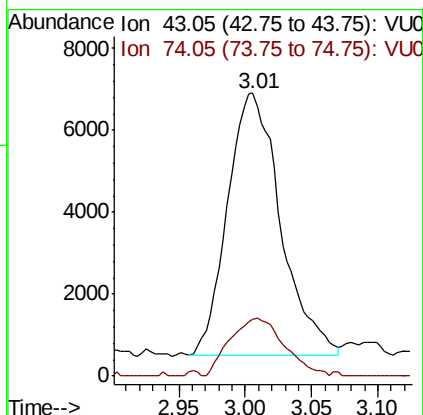
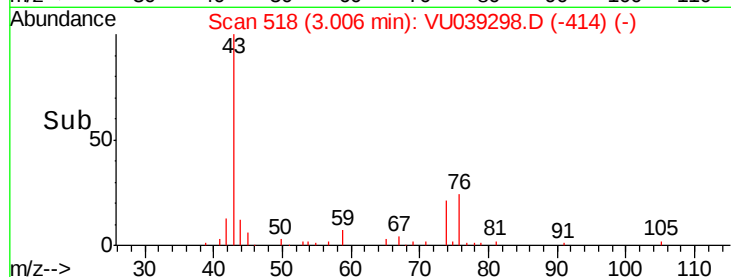
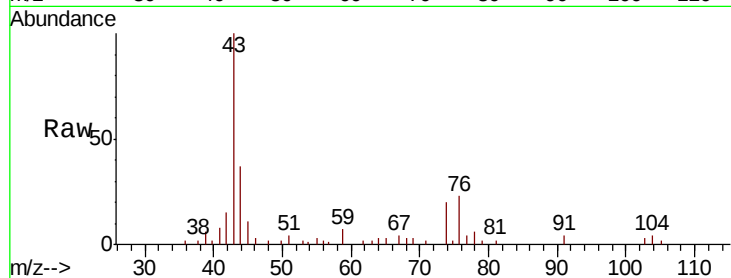




#15
Methyl Acetate
Concen: 4.658 ug/L
RT: 3.01 min Scan# 518
Delta R.T. 0.04 min
Lab File: VU039298.D
Acq: 06 Jul 2020 17:56

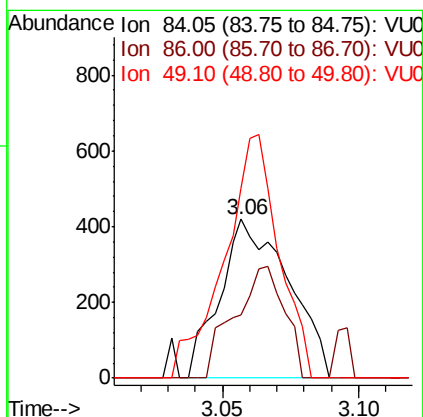
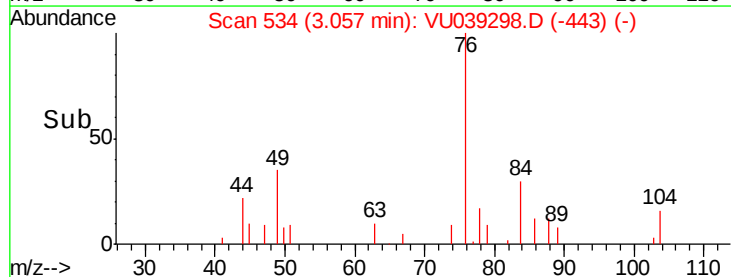
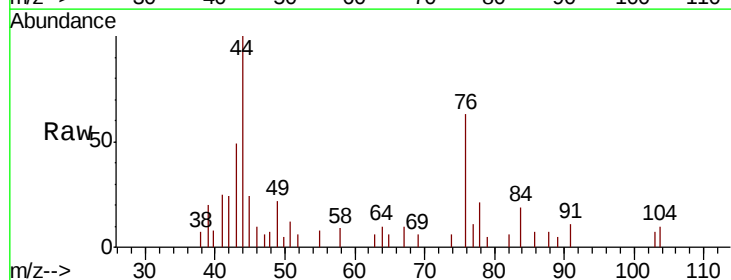
Instrument :
MSVOA_U
ClientSampleId :
H4277

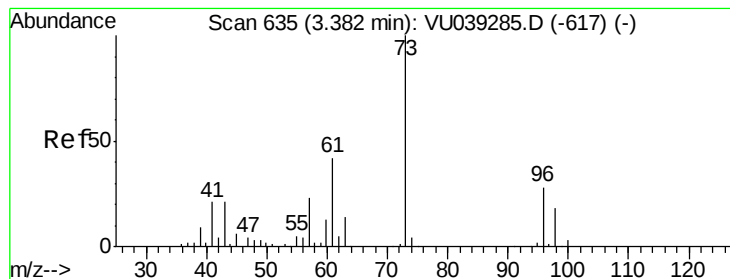
Tot Ion: 43 Resp: 17924
Ion Ratio Lower Upper
43 100
74 22.7 17.5 26.3



#16
Methylene chloride
Concen: 0.091 ug/L
RT: 3.06 min Scan# 534
Delta R.T. -0.01 min
Lab File: VU039298.D
Acq: 06 Jul 2020 17:56

Tgt Ion: 84 Resp: 736
Ion Ratio Lower Upper
84 100
86 40.0 42.6 79.0#
49 146.0 93.0 172.8



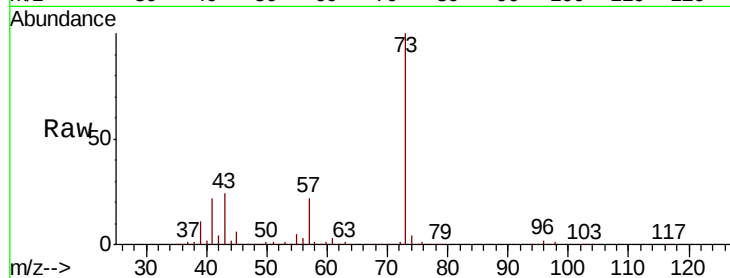


#17

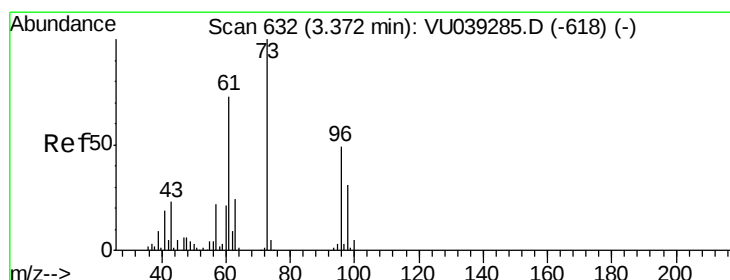
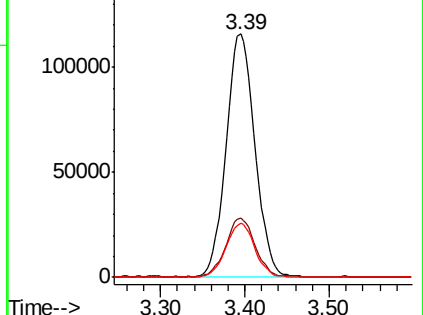
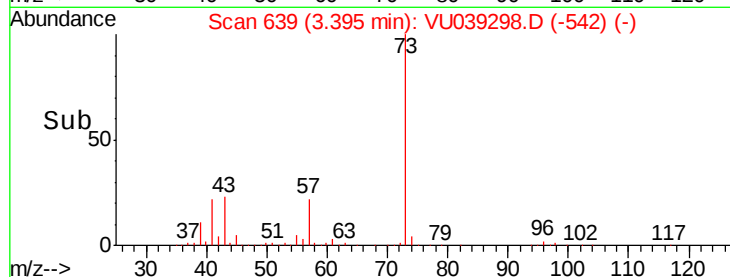
Methvl tert-butvl Ether
 Concen: 13.166 ug/L
 RT: 3.39 min Scan# 639
 Delta R.T. 0.01 min
 Lab File: VU039298.D
 Acq: 06 Jul 2020 17:56

Instrument :
 MSVOA_U
 ClientSampleId :
 H4277

Tot Ion: 73 Resp: 275124
 Ion Ratio Lower Upper
 73 100
 43 24.2 17.5 26.3
 57 22.6 18.6 27.8



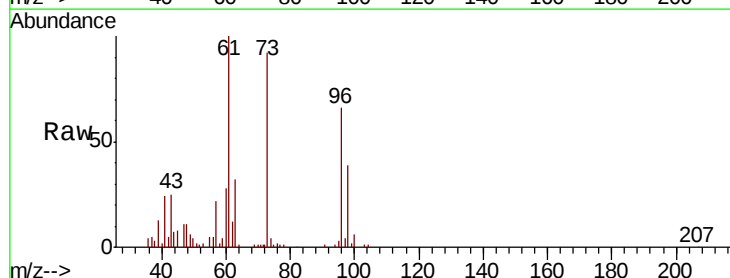
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



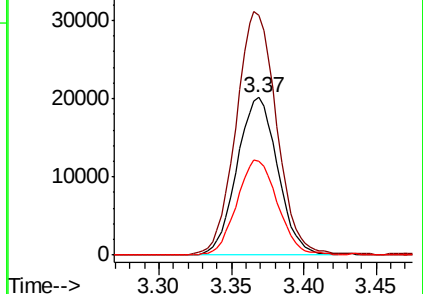
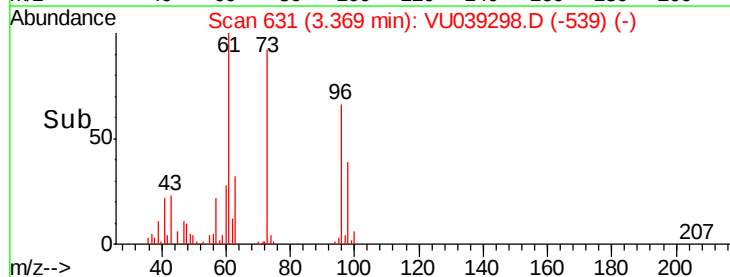
#18

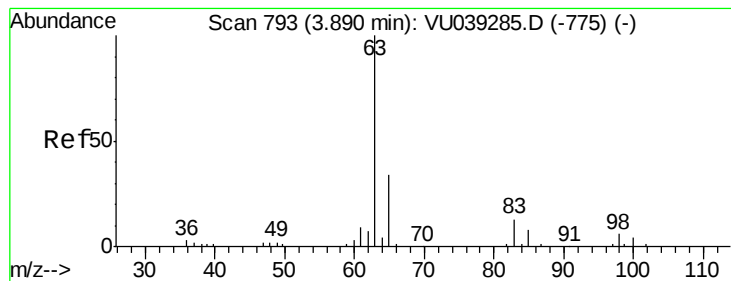
trans-1,2-Dichloroethene
 Concen: 5.721 ug/L
 RT: 3.37 min Scan# 631
 Delta R.T. -0.00 min
 Lab File: VU039298.D
 Acq: 06 Jul 2020 17:56

Tgt Ion: 96 Resp: 39513
 Ion Ratio Lower Upper
 96 100
 61 152.0 104.7 194.5
 98 60.0 43.1 80.1



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: 1.994 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

H4277

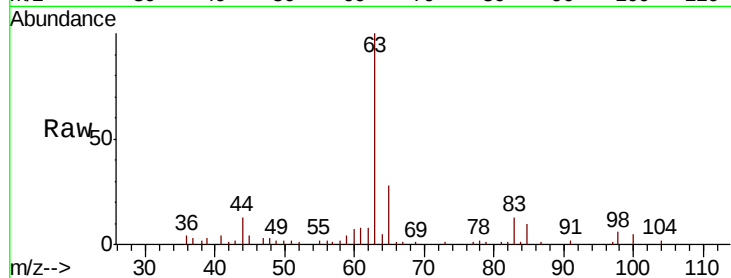
Tot Ion: 63 Resp: 27586

Ion Ratio Lower Upper

63 100

65 28.5 22.7 42.3

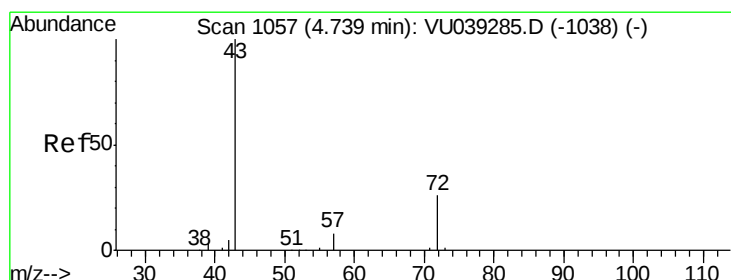
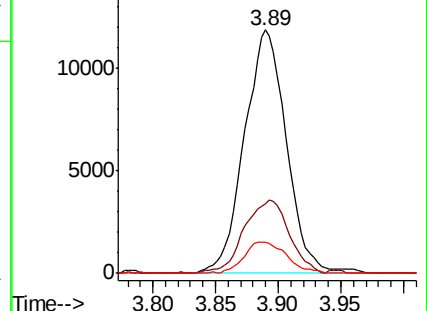
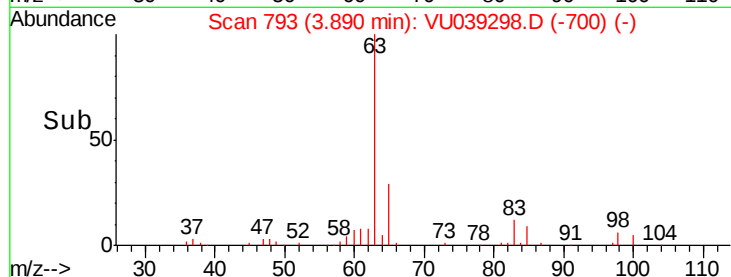
83 12.7 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU039298.D (-775) (-)

Ion 65.10 (64.80 to 65.80): VU039298.D (-775) (-)

Ion 83.05 (82.75 to 83.75): VU039298.D (-775) (-)



#21

2-Butanone

Concen: 97.677 ug/L

RT: 4.80 min Scan# 1077

Delta R.T. 0.06 min

Lab File: VU039298.D

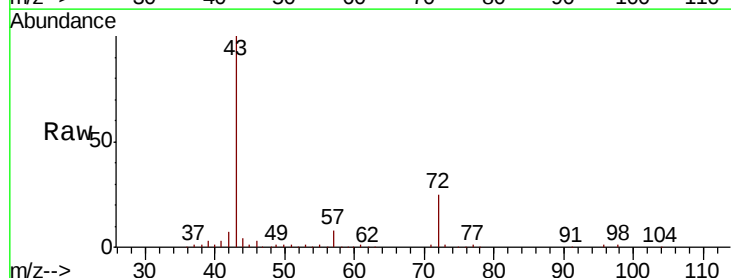
Acq: 06 Jul 2020 17:56

Tgt Ion: 43 Resp: 273414

Ion Ratio Lower Upper

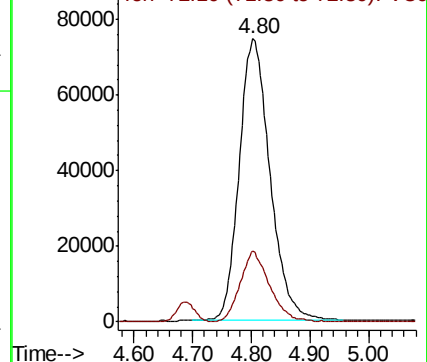
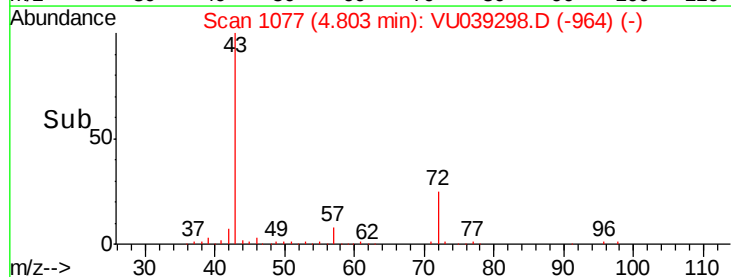
43 100

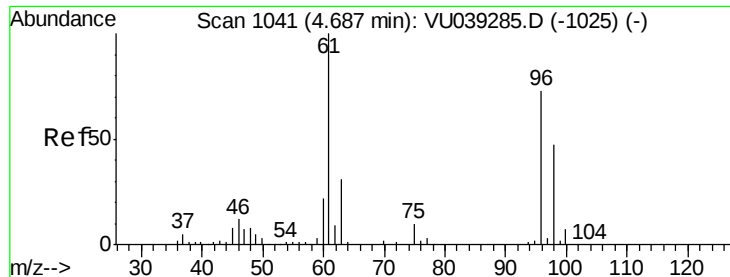
72 24.0 12.8 38.3



Abundance Ion 43.05 (42.75 to 43.75): VU039298.D (-964) (-)

Ion 72.10 (71.80 to 72.80): VU039298.D (-964) (-)





#22

cis-1,2-Dichloroethene

Concen: 114.845 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

H4277

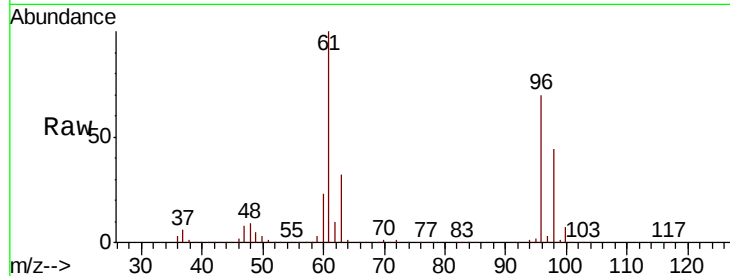
Tot Ion: 96 Resp: 903770

Ion Ratio Lower Upper

96 100

61 143.7 93.7 173.9

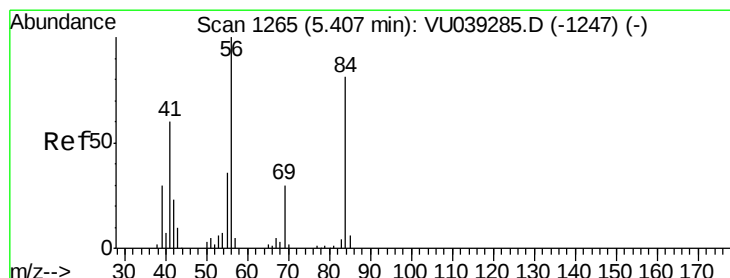
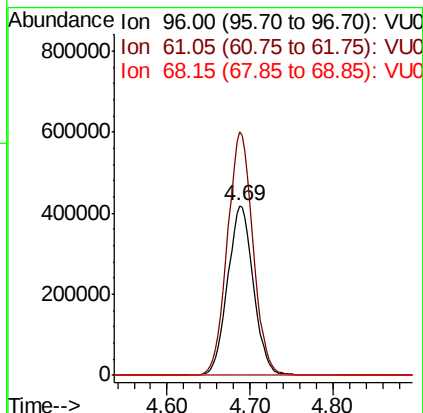
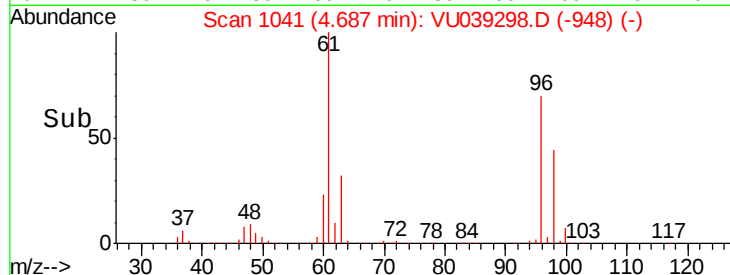
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039298.D (-948) (-)

Ion 61.05 (60.75 to 61.75): VU039298.D (-948) (-)

Ion 68.15 (67.85 to 68.85): VU039298.D (-948) (-)



#30

Cyclohexane

Concen: 0.134 ug/L

RT: 5.39 min Scan# 1260

Delta R.T. -0.02 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

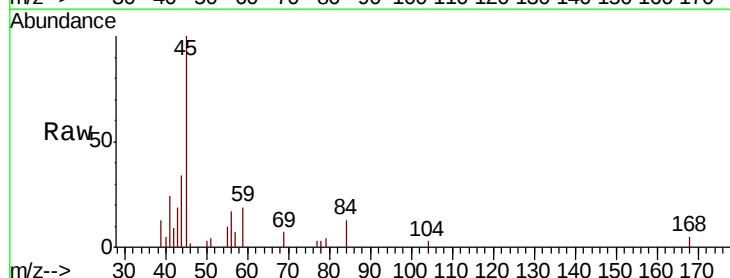
Tgt Ion: 56 Resp: 1628

Ion Ratio Lower Upper

56 100

69 40.5 24.2 36.4#

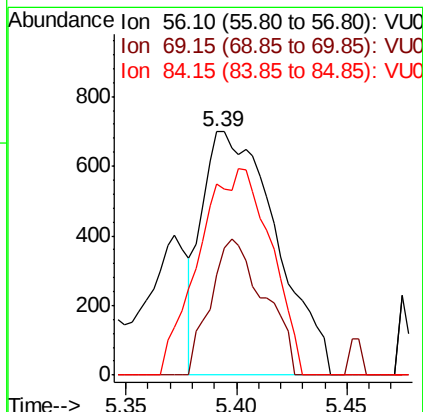
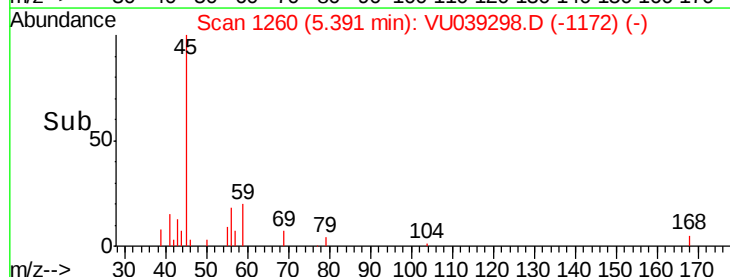
84 82.7 67.0 100.4

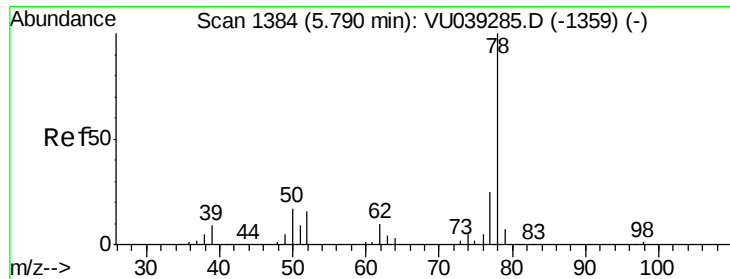


Abundance Ion 56.10 (55.80 to 56.80): VU039298.D (-1172) (-)

Ion 69.15 (68.85 to 69.85): VU039298.D (-1172) (-)

Ion 84.15 (83.85 to 84.85): VU039298.D (-1172) (-)





#33

Benzene

Concen: 0.854 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

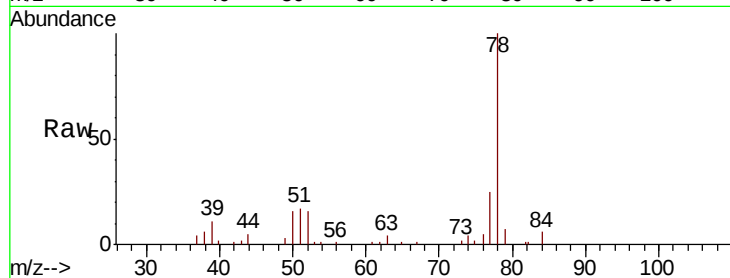
Instrument :

MSVOA_U

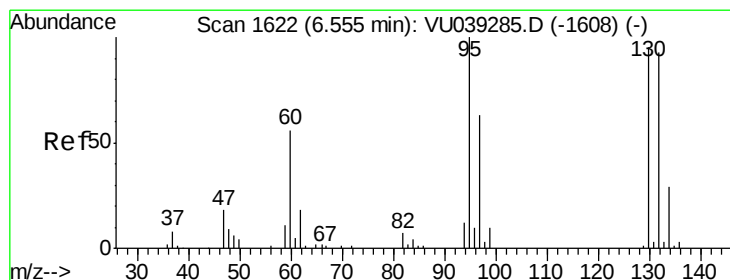
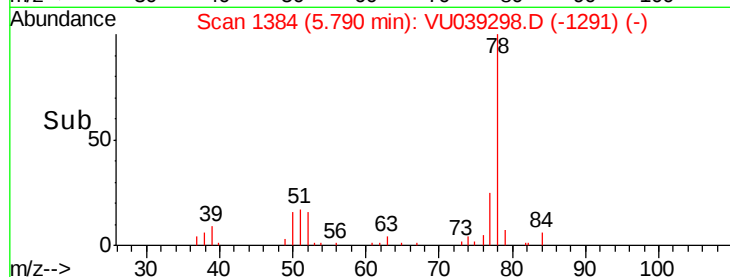
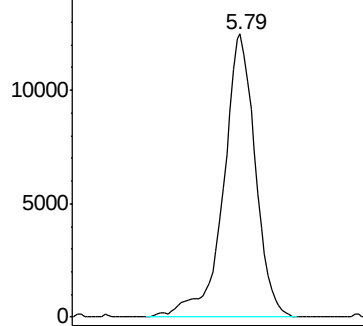
ClientSampleId :

H4277

Tgt Ion: 78 Resp: 25485



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 2.932 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

Tgt Ion: 95 Resp: 22558

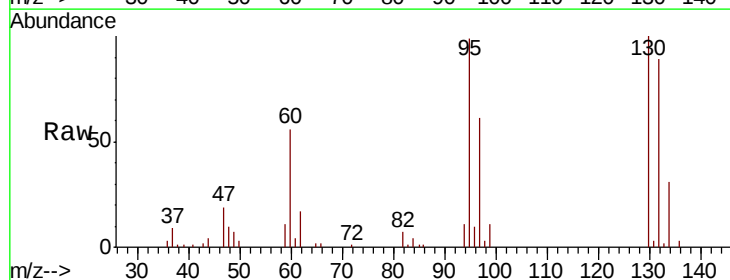
Ion	Ratio	Lower	Upper
95	100		
97	62.1	47.0	87.2
132	90.3	65.0	120.8
130	101.4	69.8	129.6

95 100

97 62.1 47.0 87.2

132 90.3 65.0 120.8

130 101.4 69.8 129.6

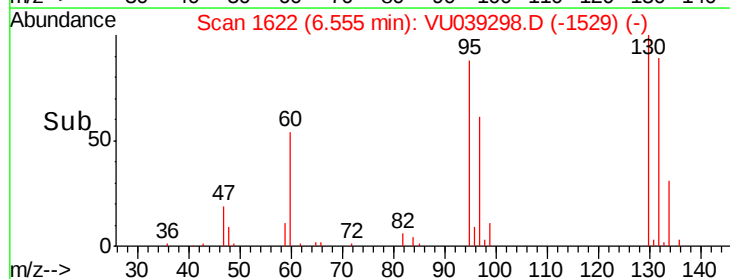
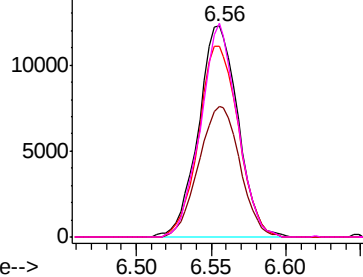


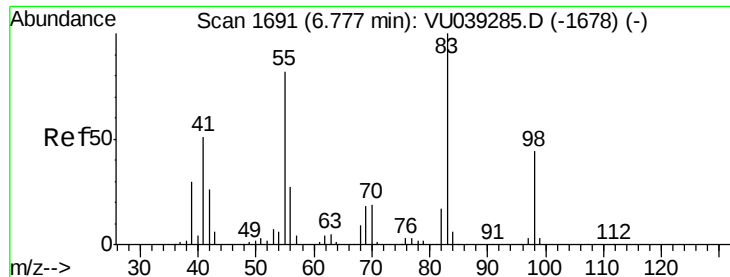
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

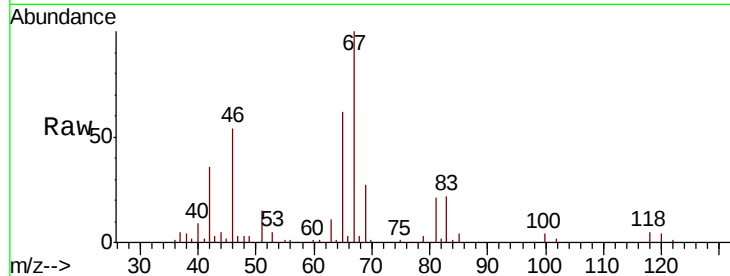




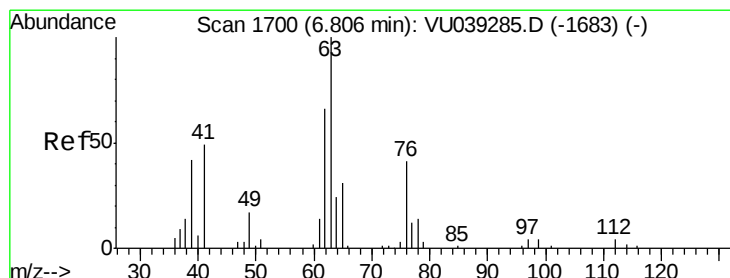
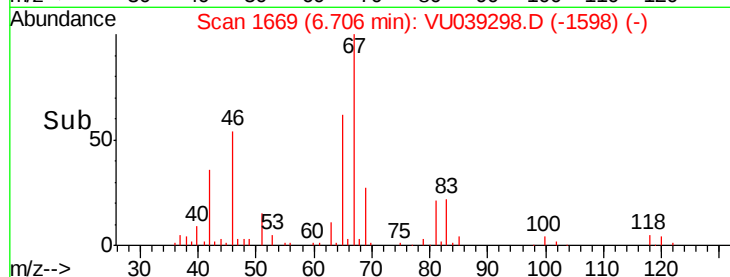
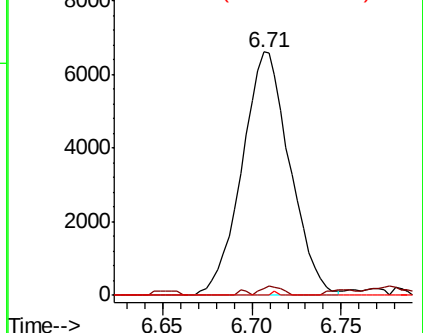
#35
Methvlcvclohexane
Concen: 1.005 ug/L
RT: 6.71 min Scan# 1669
Delta R.T. -0.07 min
Lab File: VU039298.D
Acq: 06 Jul 2020 17:56

Instrument :
MSVOA_U
ClientSampleId :
H4277

Tot Ion: 83 Resp: 12384
Ion Ratio Lower Upper
83 100
55 1.6 63.3 94.9#
98 0.0 37.4 56.2#

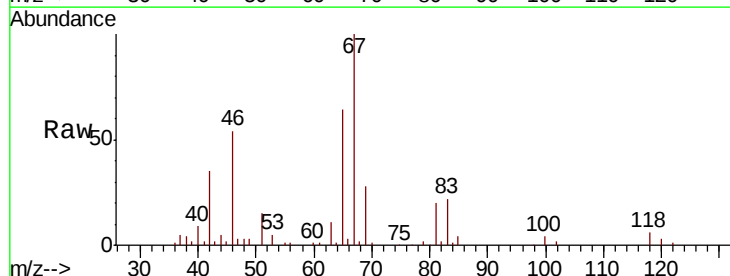


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

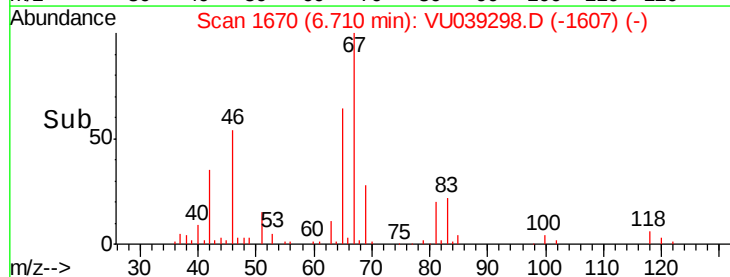
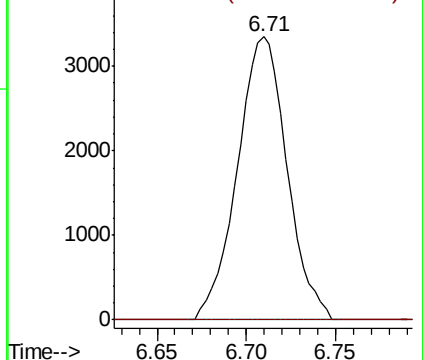


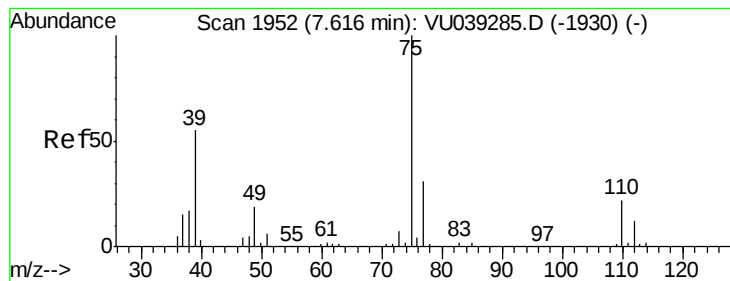
#37
1,2-Dichloropropane
Concen: 0.782 ug/L
RT: 6.71 min Scan# 1670
Delta R.T. -0.10 min
Lab File: VU039298.D
Acq: 06 Jul 2020 17:56

Tgt Ion: 63 Resp: 6511
Ion Ratio Lower Upper
63 100
112 0.0 2.6 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



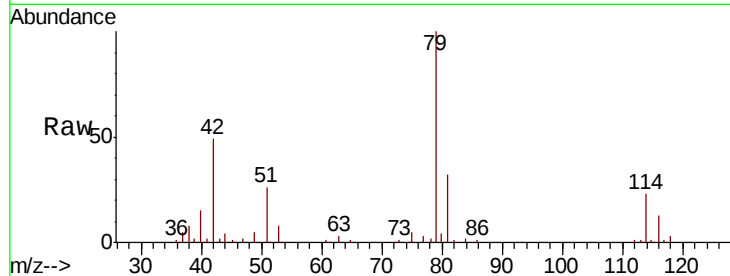


#39

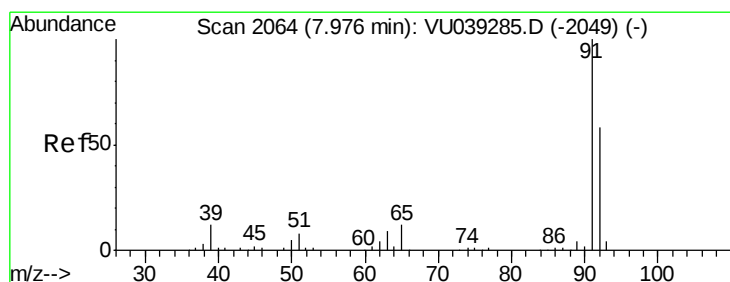
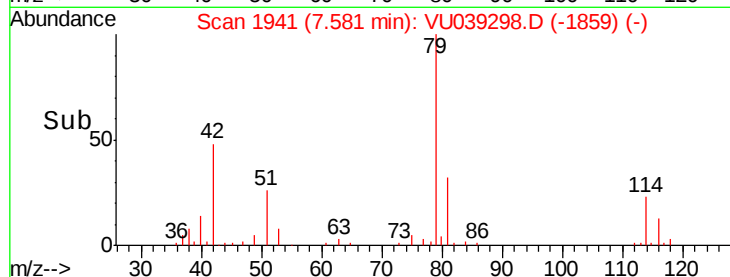
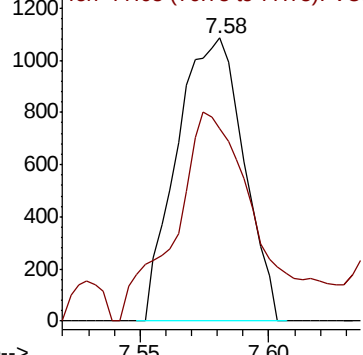
cis-1,3-Dichloropropene
Concen: 0.151 ug/L
RT: 7.58 min Scan# 1941
Delta R.T. -0.04 min
Lab File: VU039298.D
Acq: 06 Jul 2020 17:56

Instrument :
MSVOA_U
ClientSampleId :
H4277

Tot Ion: 75 Resp: 1956
Ion Ratio Lower Upper
75 100
77 68.2 23.3 43.3#



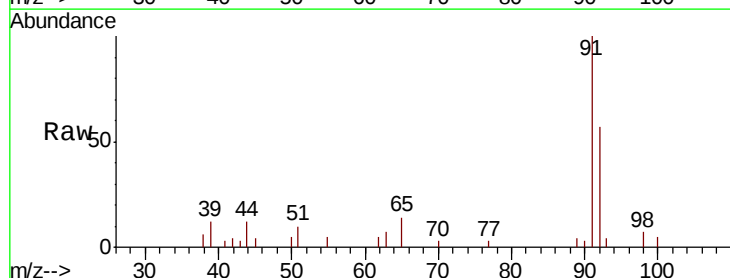
Abundance Ion 75.05 (74.75 to 75.75): VU0
Ion 77.05 (76.75 to 77.75): VU0



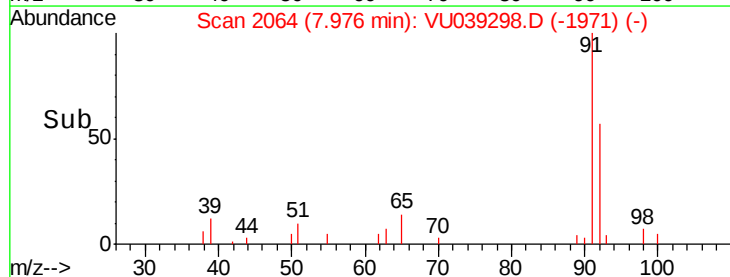
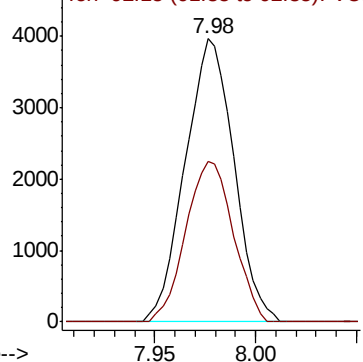
#42

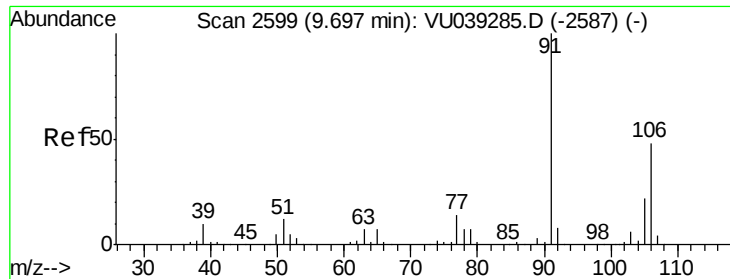
Toluene
Concen: 0.206 ug/L
RT: 7.98 min Scan# 2064
Delta R.T. 0.00 min
Lab File: VU039298.D
Acq: 06 Jul 2020 17:56

Tgt Ion: 91 Resp: 6702
Ion Ratio Lower Upper
91 100
92 56.7 39.3 72.9



Abundance Ion 91.15 (90.85 to 91.85): VU0
Ion 92.15 (91.85 to 92.85): VU0





#53

m,p-Xylene

Concen: 0.099 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

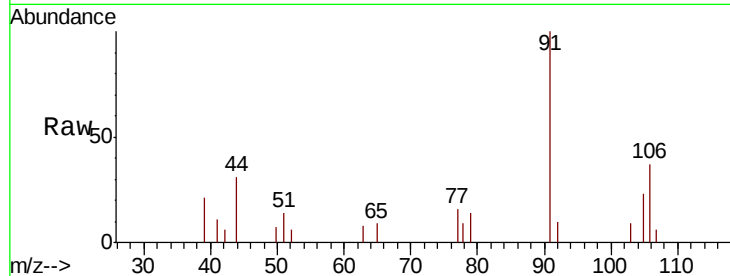
H4277

Tot Ion:106 Resp: 1347

Ion Ratio Lower Upper

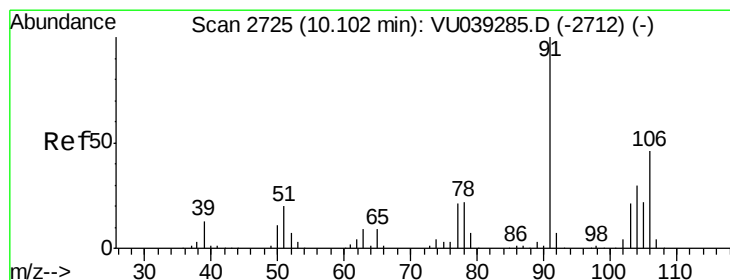
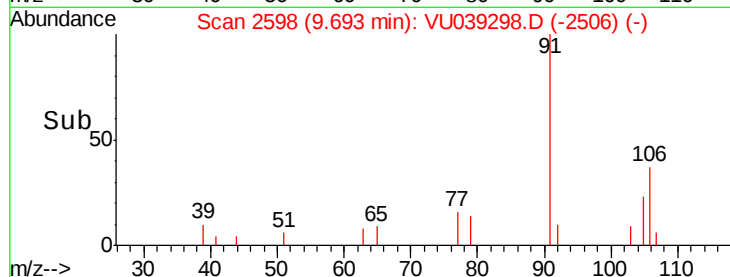
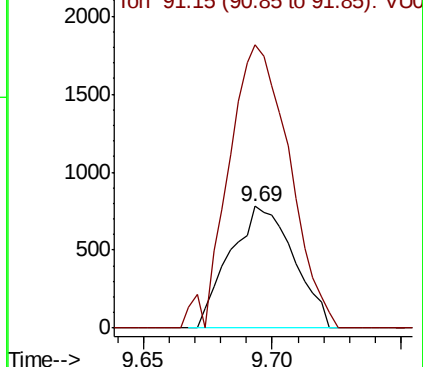
106 100

91 232.9 146.6 272.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.075 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU039298.D

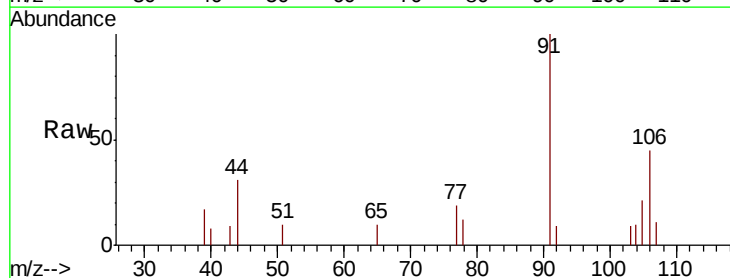
Acq: 06 Jul 2020 17:56

Tgt Ion:106 Resp: 1014

Ion Ratio Lower Upper

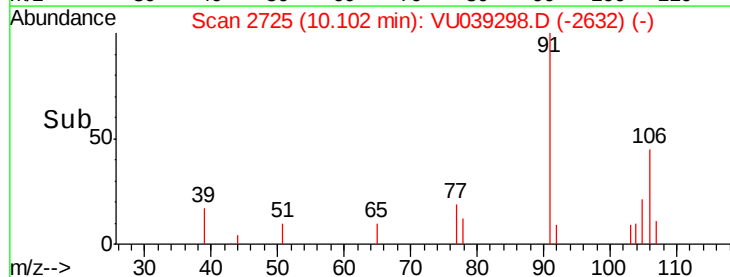
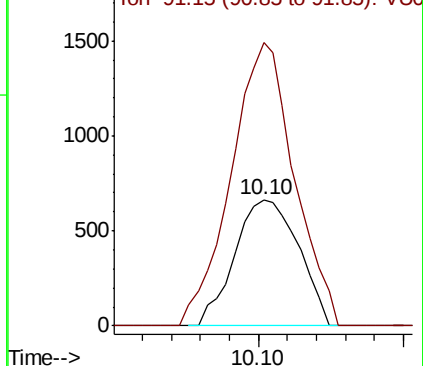
106 100

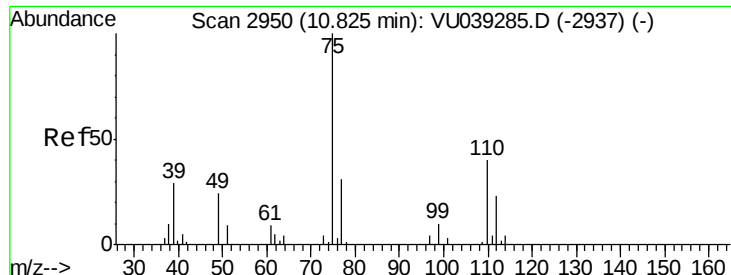
91 224.4 153.6 285.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 1.244 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU039298.D

Acq: 06 Jul 2020 17:56

Instrument :

MSVOA_U

ClientSampleId :

H4277

Tot Ion: 75 Resp: 7785

Ion Ratio Lower Upper

75 100

77 38.7 27.7 41.5

