

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101819\
 Data File : VU035293.D
 Acq On : 19 Oct 2019 02:34
 Operator : JC/SP
 Sample : K5419-18DL 20X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 19 06:16:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 19 06:13:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	324115	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	314566	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	133198	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	89480	4.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.60%
7) Chloroethane-d5	1.93	69	85364	4.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.40%
11) 1,1-Dichloroethene-d2	2.59	63	126021	3.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.00%
20) 2-Butanone-d5	4.71	46	274639	48.36	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.72%
24) Chloroform-d	5.11	84	178728	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
26) 1,2-Dichloroethane-d4	5.75	65	100413	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
32) Benzene-d6	5.77	84	355244	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.74	67	118065	5.17	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.40%
41) Toluene-d8	7.93	98	327483	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
43) trans-1,3-Dichloropropene-	8.22	79	46912	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.69	63	220370	45.08	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.16%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	101424	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	120358	4.96	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	181745	6.467	ug/L	98
8) Chloroethane	1.95	64	3562	0.197	ug/L	84
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	2612	0.121	ug/L #	72
13) Acetone	2.68	43	8041	2.035	ug/L	96
16) Methylene chloride	3.09	84	3921	0.157	ug/L	84
18) trans-1,2-Dichloroethene	3.40	96	17407	0.775	ug/L	97
19) 1,1-Dichloroethane	3.92	63	34941	0.860	ug/L	98
21) 2-Butanone	4.79	43	10106	1.570	ug/L	89
22) cis-1,2-Dichloroethene	4.72	96	39772	1.601	ug/L	96
30) Cyclohexane	5.43	56	8225	0.208	ug/L	93
33) Benzene	5.82	78	22915	0.248	ug/L	100
35) Methylcyclohexane	6.80	83	7928	0.191	ug/L	91
37) 1,2-Dichloropropane	6.74	63	12729	0.542	ug/L #	96
39) cis-1,3-Dichloropropene	7.61	75	3178	0.081	ug/L #	40
42) Toluene	8.01	91	518250	5.072	ug/L	100
48) 2-Hexanone	8.73	43	12434	1.118	ug/L #	77
52) Ethylbenzene	9.60	91	256436	2.207	ug/L	100

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 19 06:13:43 2019
Response via : Initial Calibration

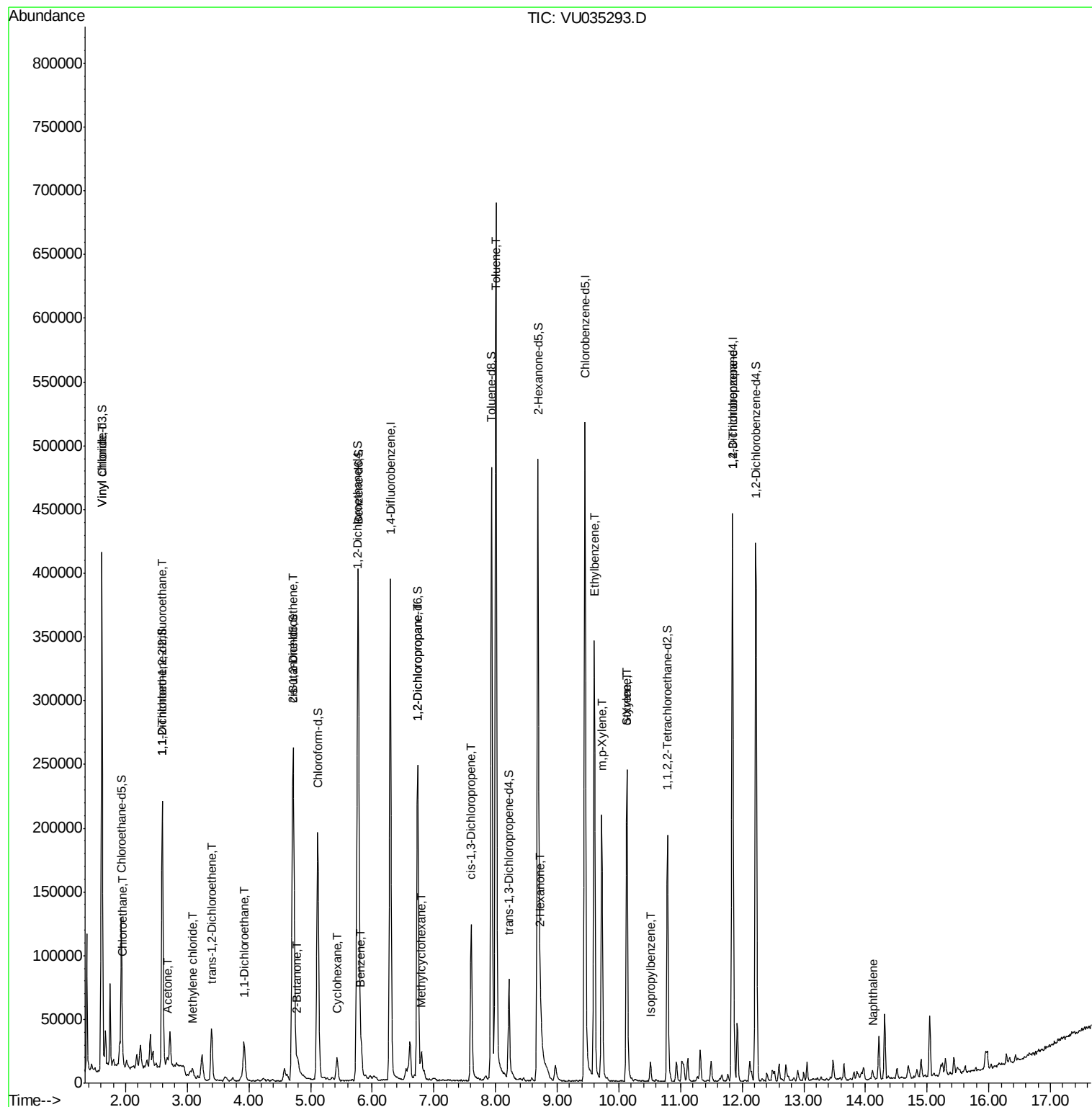
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.72	106	61765	1.408	ug/L	97
54) o-Xylene	10.13	106	66770	1.559	ug/L	96
55) Styrene	10.13	104	4797	0.069	ug/L #	1
56) Isopropylbenzene	10.51	105	10325	0.090	ug/L	99
59) 1,2,3-Trichloropropane	11.84	75	16597	1.014	ug/L	96
69) Naphthalene	14.11	128	6238	0.242	ug/L	96

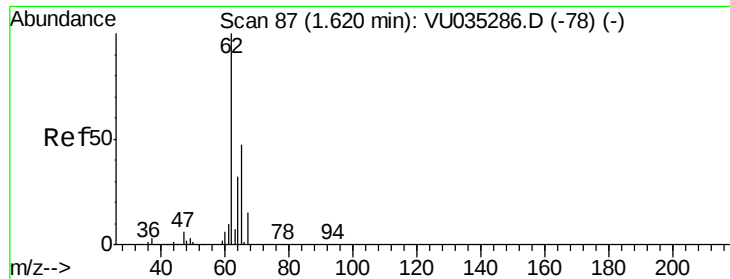
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU101819\
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 6.467 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

Instrument :

MSVOA_U

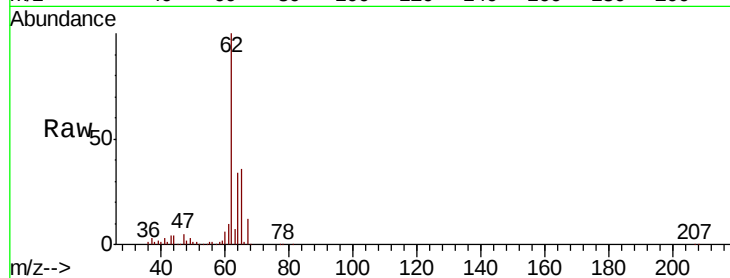
ClientSampled :

Tot Ion: 62 Resp: 181745

Ion Ratio Lower Upper

62 100

64 33.8 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VU035286.D (-78) (-)

Ion 64.10 (63.80 to 64.80): VU035293.D (-98) (-)

1.62

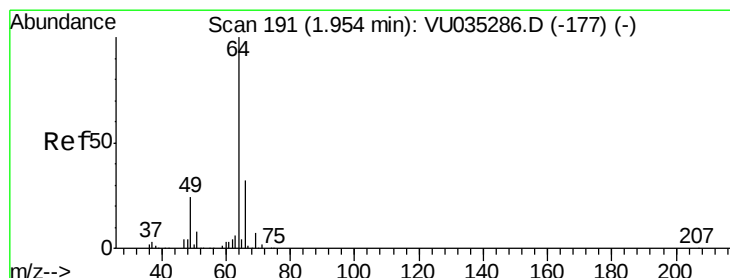
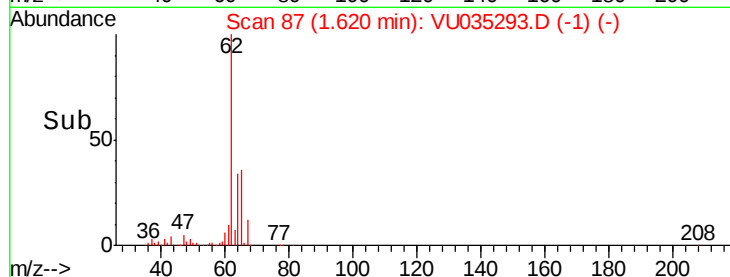
150000

100000

50000

0

Time--> 1.55 1.60 1.65 1.70



#8

Chloroethane

Concen: 0.197 ug/L

RT: 1.95 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU035293.D

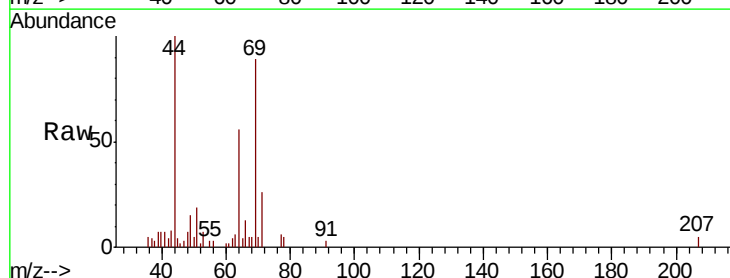
Acq: 19 Oct 2019 02:34

Tgt Ion: 64 Resp: 3562

Ion Ratio Lower Upper

64 100

66 23.6 22.7 42.1



Abundance Ion 64.10 (63.80 to 64.80): VU035286.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU035293.D (-98) (-)

1.95

4000

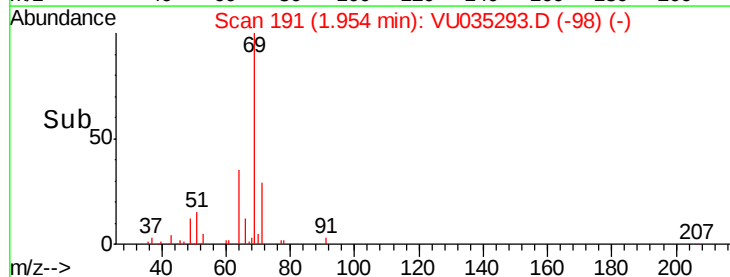
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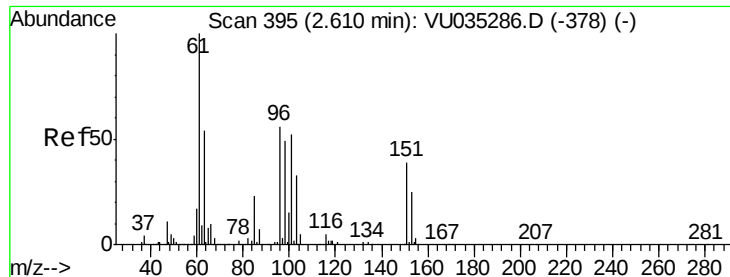
2000

1000

0

Time--> 1.92 1.94 1.96 1.98 2.00





#10

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

Concen: 0.121 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

Instrument :

MSVOA_U

ClientSampleId :

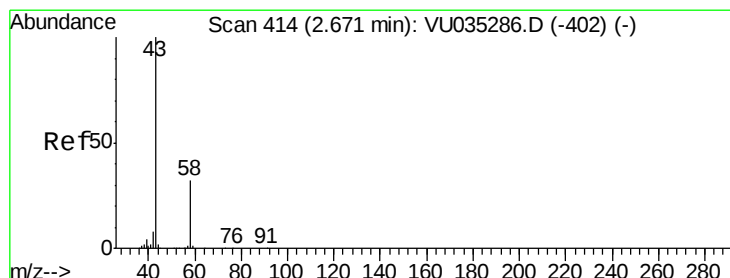
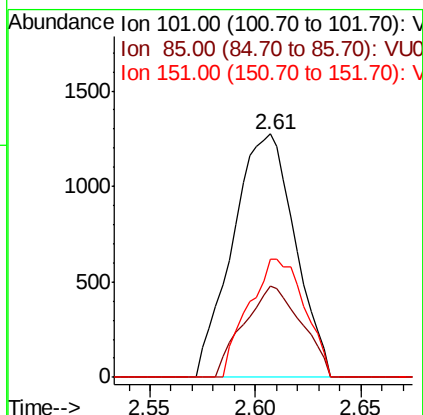
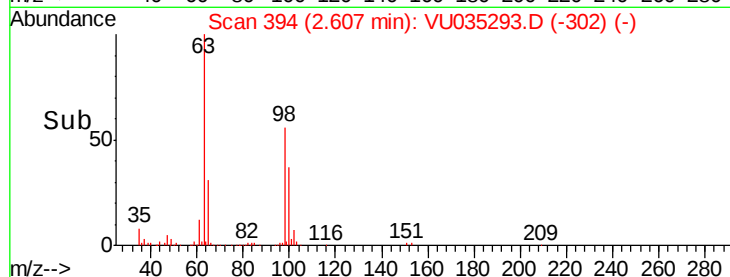
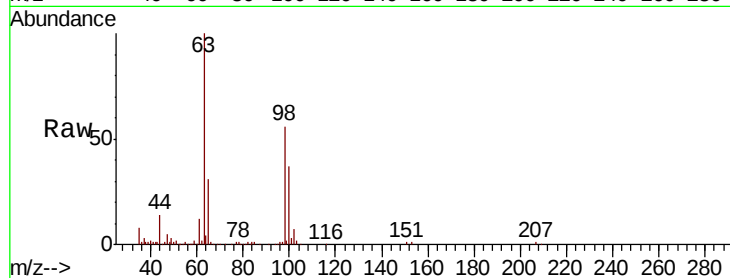
Tot Ion:101 Resp: 2612

Ion Ratio Lower Upper

101 100

85 34.9 33.9 50.9

151 44.0 61.0 91.4#



#13

Acetone

Concen: 2.035 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.01 min

Lab File: VU035293.D

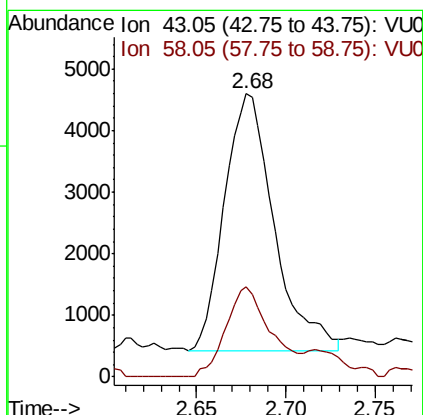
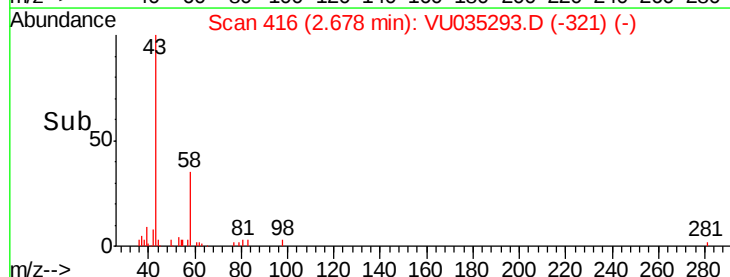
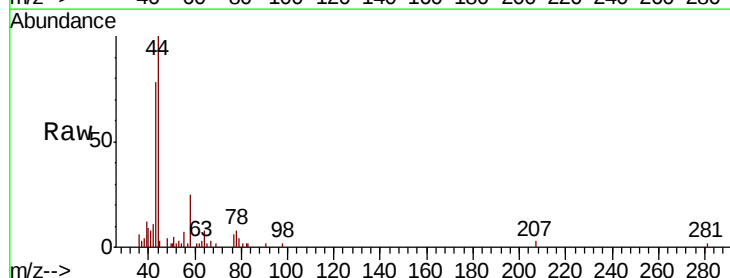
Acq: 19 Oct 2019 02:34

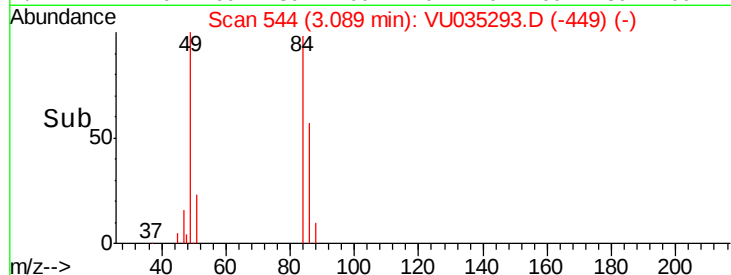
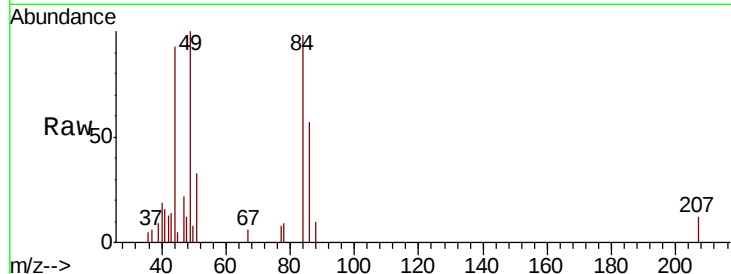
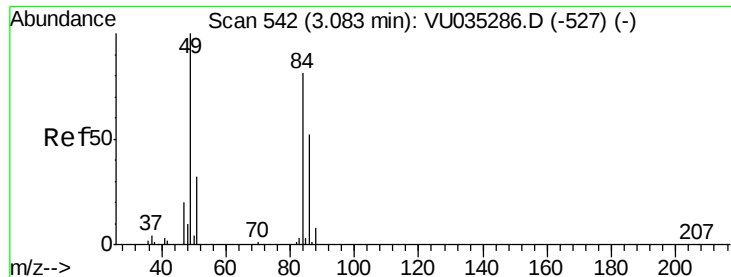
Tgt Ion: 43 Resp: 8041

Ion Ratio Lower Upper

43 100

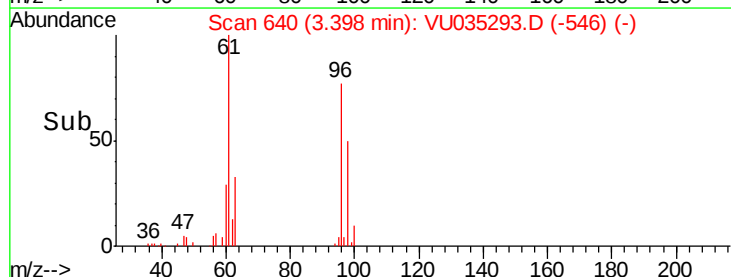
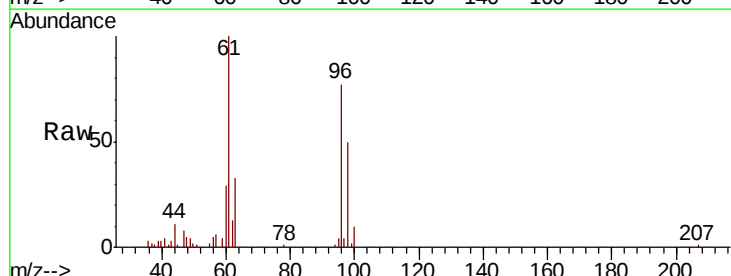
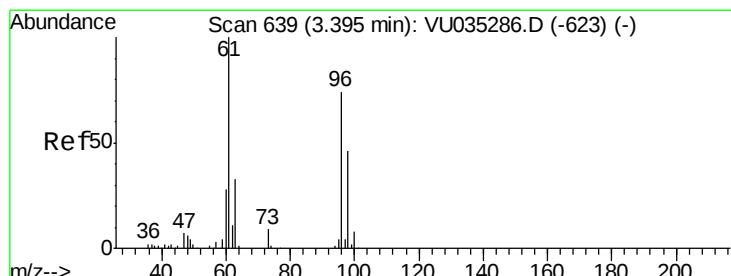
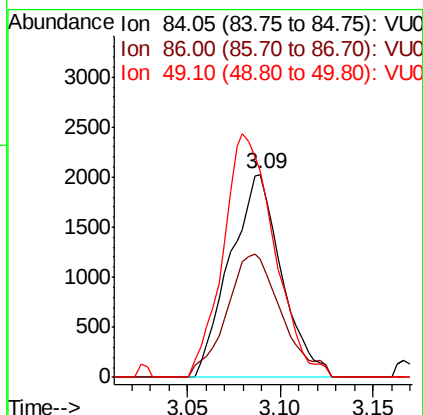
58 32.9 0.0 61.8





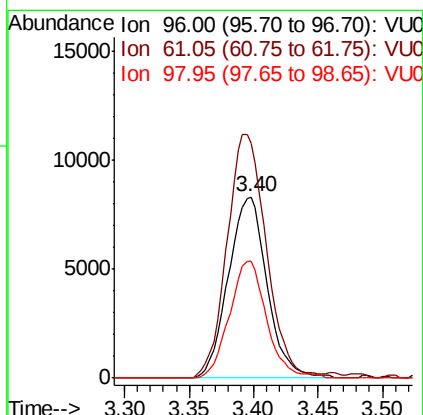
#16
Methvlene chloride
Concen: 0.157 ug/L
RT: 3.09 min Scan# 544
Delta R.T. 0.01 min
Lab File: VU035293.D
Acq: 19 Oct 2019 02:34

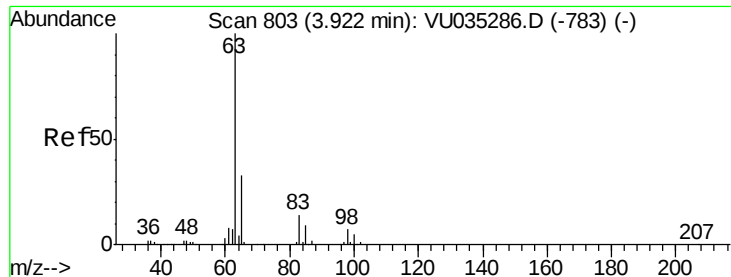
Tot Ion: 84 Resp: 3921
Ion Ratio Lower Upper
84 100
86 58.4 45.4 84.2
49 101.9 86.8 161.2



#18
trans-1,2-Dichloroethene
Concen: 0.775 ug/L
RT: 3.40 min Scan# 640
Delta R.T. 0.00 min
Lab File: VU035293.D
Acq: 19 Oct 2019 02:34

Tgt Ion: 96 Resp: 17407
Ion Ratio Lower Upper
96 100
61 129.3 93.0 172.6
98 64.5 43.7 81.1

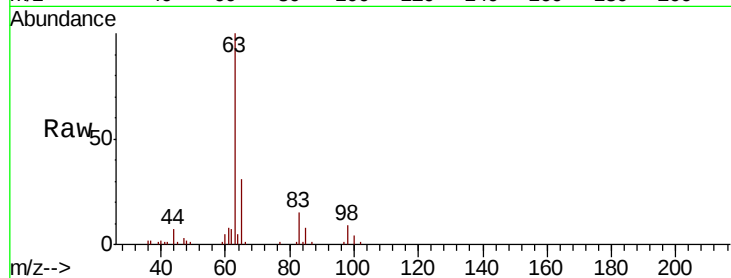




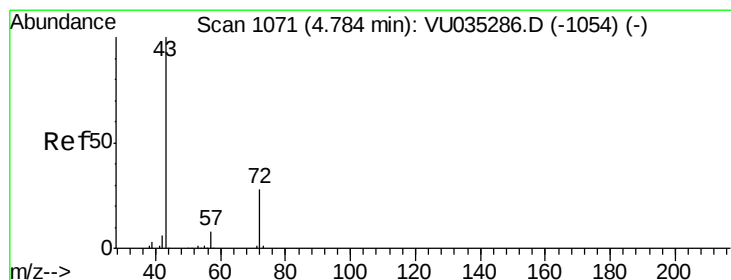
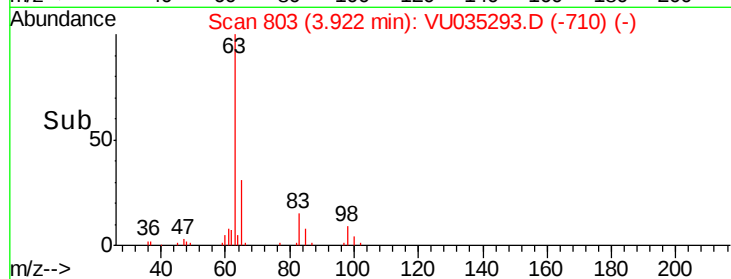
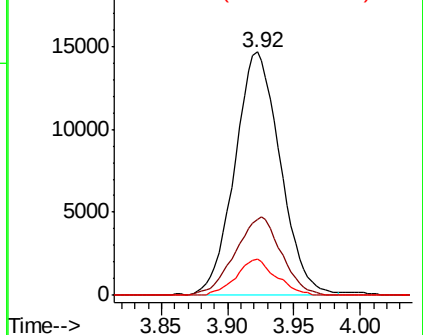
#19
 1,1-Dichloroethane
 Concen: 0.860 ug/L
 RT: 3.92 min Scan# 803
 Delta R.T. -0.00 min
 Lab File: VU035293.D
 Acq: 19 Oct 2019 02:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 34941
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.4 41.6
 83 14.8 9.3 17.3

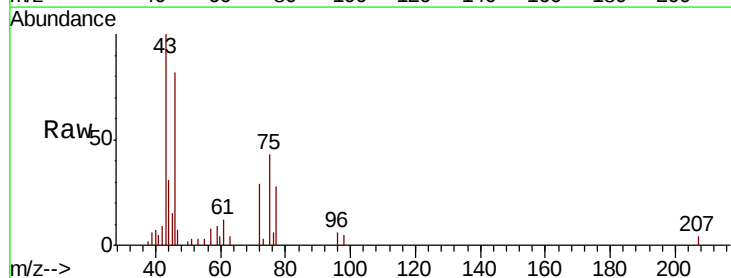


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

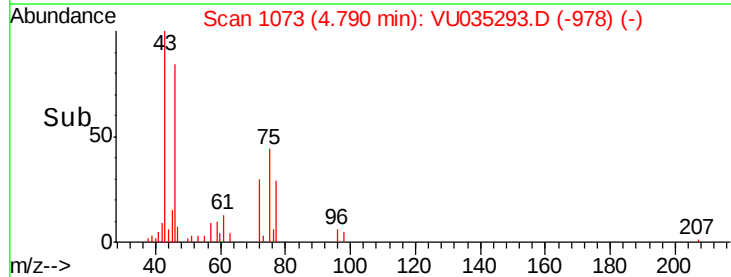
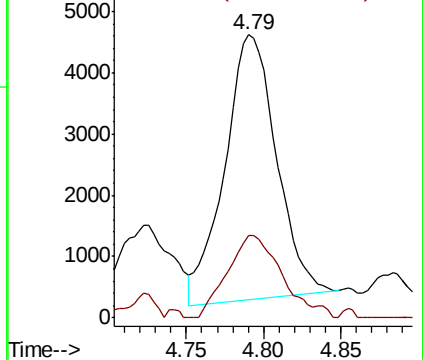


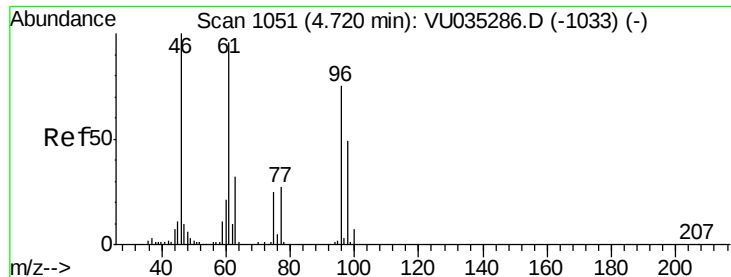
#21
 2-Butanone
 Concen: 1.570 ug/L
 RT: 4.79 min Scan# 1073
 Delta R.T. 0.01 min
 Lab File: VU035293.D
 Acq: 19 Oct 2019 02:34

Tgt Ion: 43 Resp: 10106
 Ion Ratio Lower Upper
 43 100
 72 32.9 13.6 40.8



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: 1.601 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

Instrument :
MSVOA_U
ClientSampled :

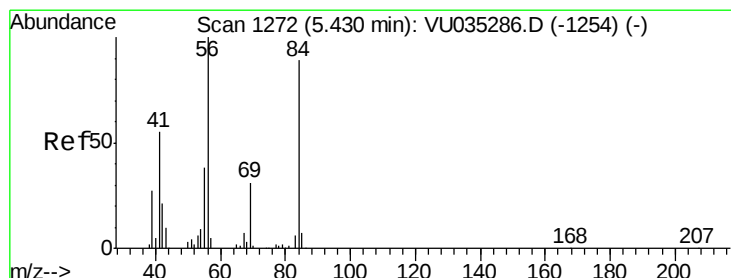
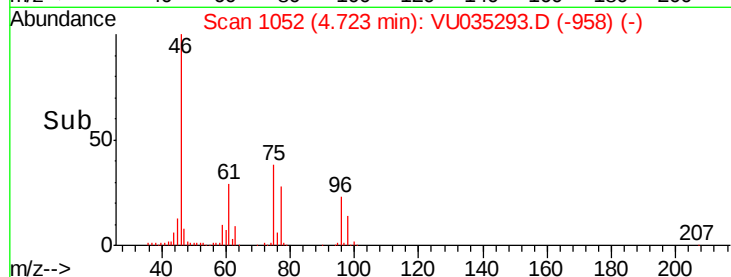
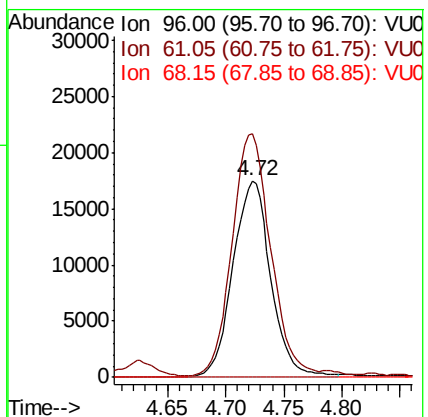
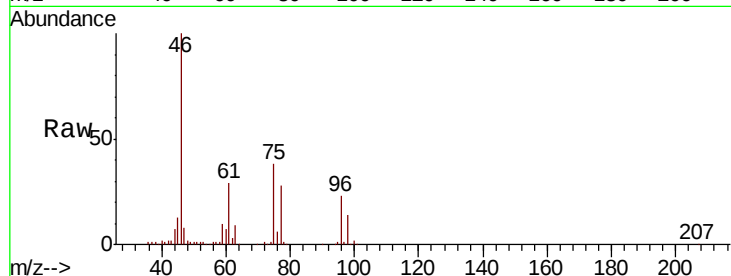
Tot Ion: 96 Resp: 39772

Ion Ratio Lower Upper

96 100

61 123.9 89.7 166.5

68 0.0 0.0 0.0



#30

Cyclohexane

Concen: 0.208 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

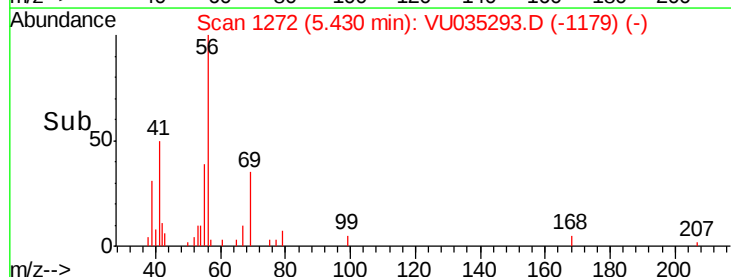
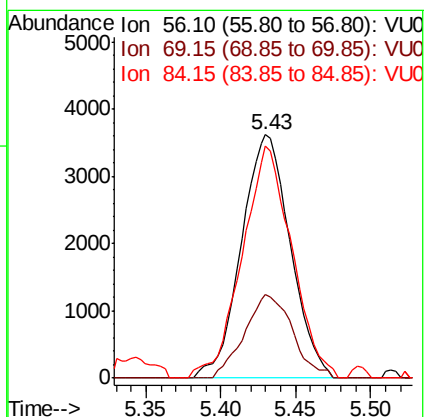
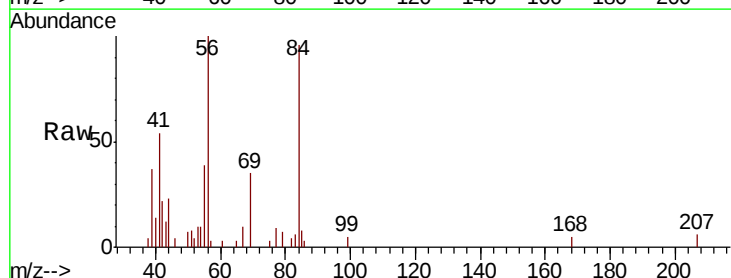
Tgt Ion: 56 Resp: 8225

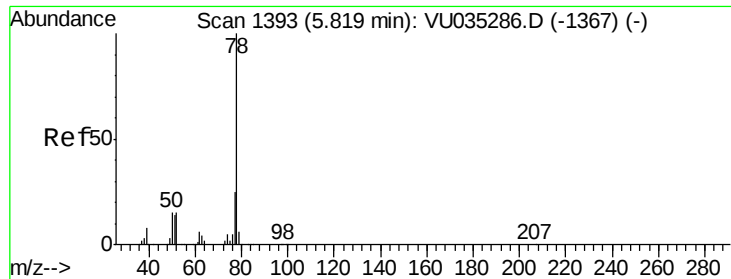
Ion Ratio Lower Upper

56 100

69 33.5 24.6 36.8

84 96.5 71.5 107.3

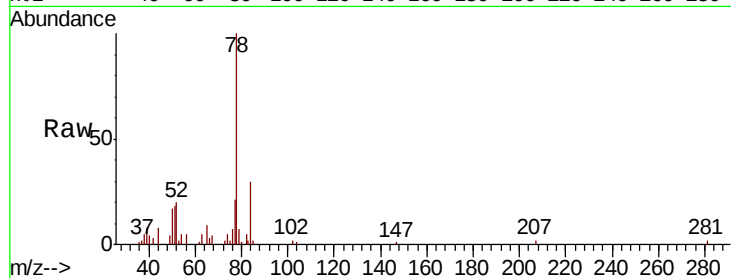




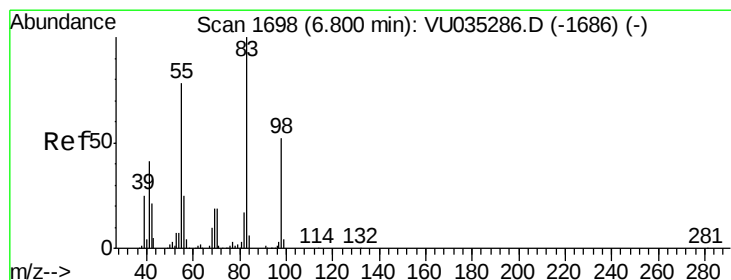
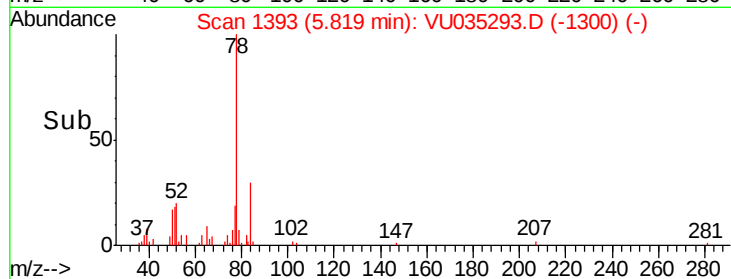
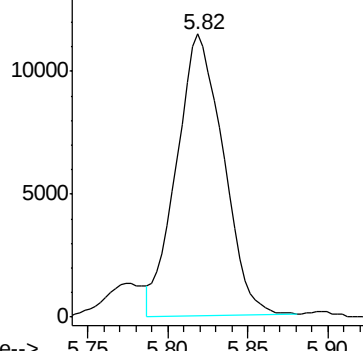
#33
Benzene
Concen: 0.248 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. -0.00 min
Lab File: VU035293.D
Acq: 19 Oct 2019 02:34

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 78 Resp: 22915



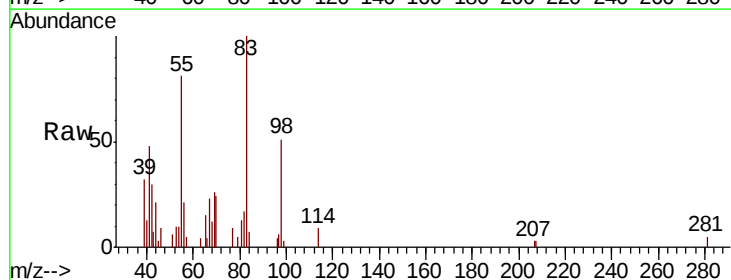
Abundance Ion 78.10 (77.80 to 78.80): VU0



#35
Methylcyclohexane
Concen: 0.191 ug/L
RT: 6.80 min Scan# 1699
Delta R.T. 0.00 min
Lab File: VU035293.D
Acq: 19 Oct 2019 02:34

Tgt Ion: 83 Resp: 7928

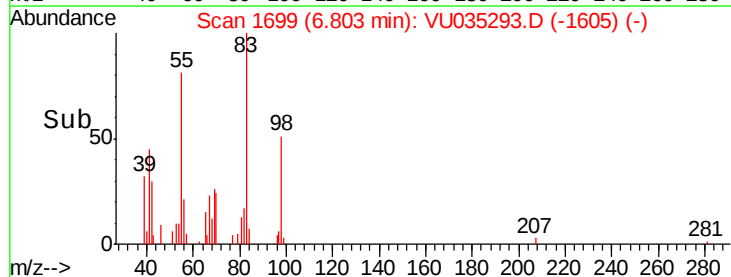
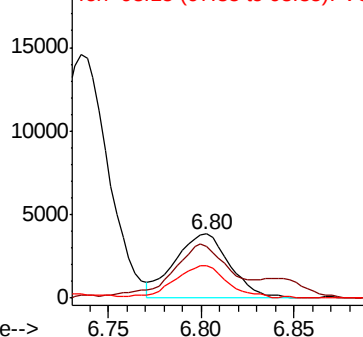
Ion	Ratio	Lower	Upper
83	100		
55	88.0	60.4	90.6
98	48.4	39.5	59.3

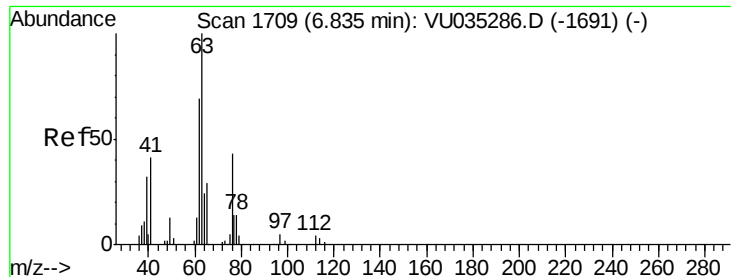


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

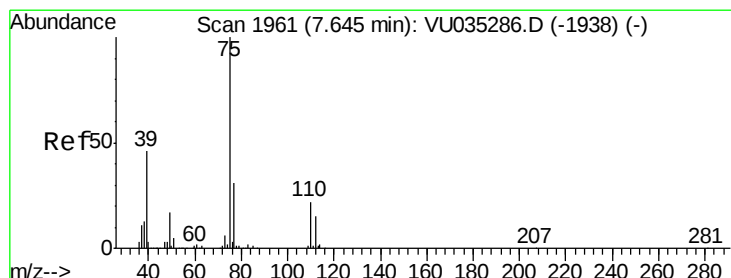
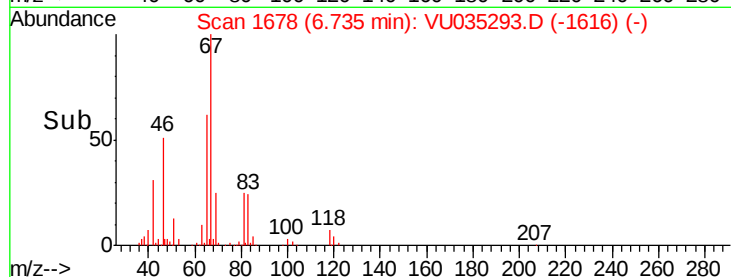
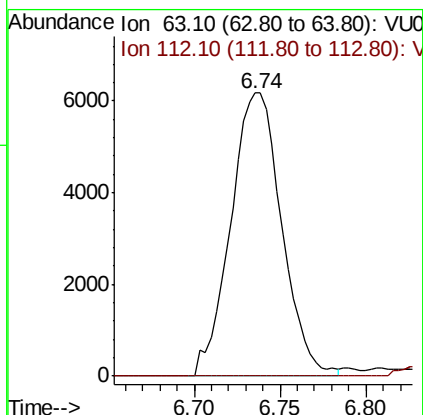
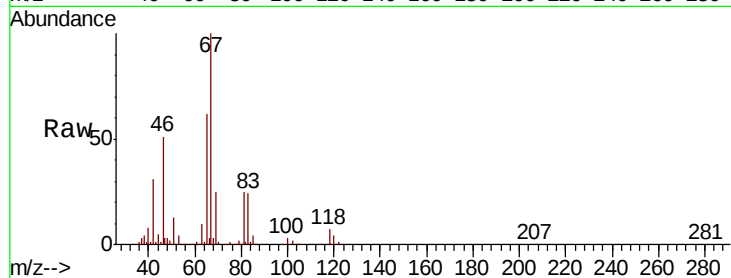




#37
 1,2-Dichloropropane
 Concen: 0.542 ug/L
 RT: 6.74 min Scan# 1678
 Delta R.T. -0.10 min
 Lab File: VU035293.D
 Acq: 19 Oct 2019 02:34

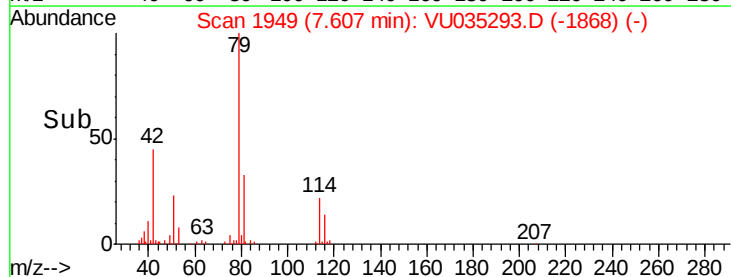
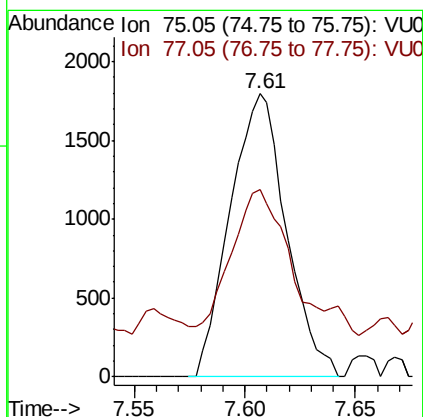
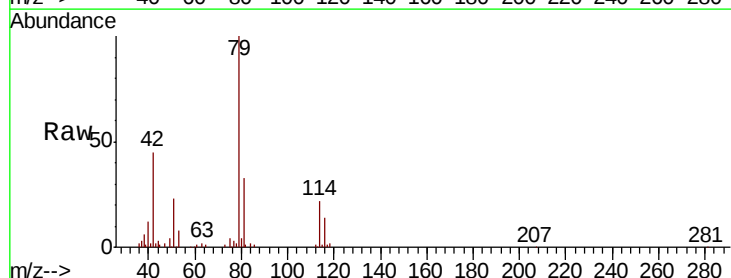
Instrument :
 MSVOA_U
 ClientSampled :

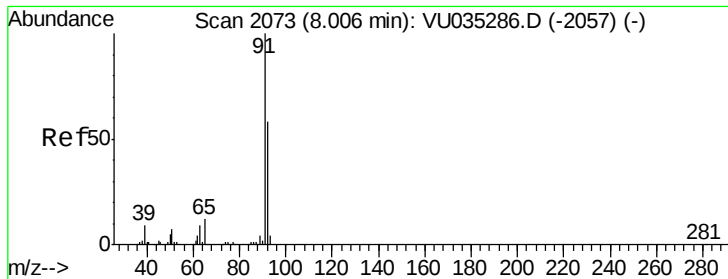
Tot Ion: 63 Resp: 12729
 Ion Ratio Lower Upper
 63 100
 112 5.9 3.7 5.5#



#39
 cis-1,3-Dichloropropene
 Concen: 0.081 ug/L
 RT: 7.61 min Scan# 1949
 Delta R.T. -0.04 min
 Lab File: VU035293.D
 Acq: 19 Oct 2019 02:34

Tgt Ion: 75 Resp: 3178
 Ion Ratio Lower Upper
 75 100
 77 66.0 22.7 42.1#





#42

Toluene

Concen: 5.072 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

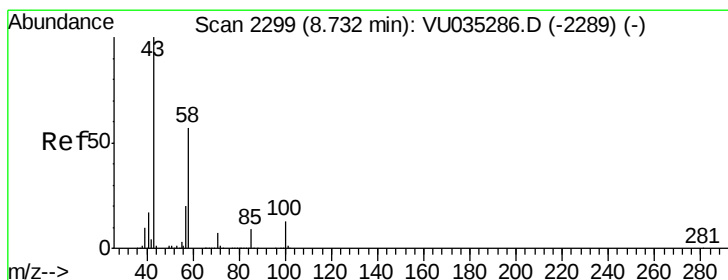
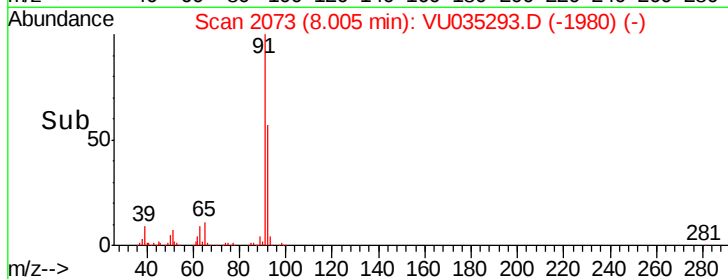
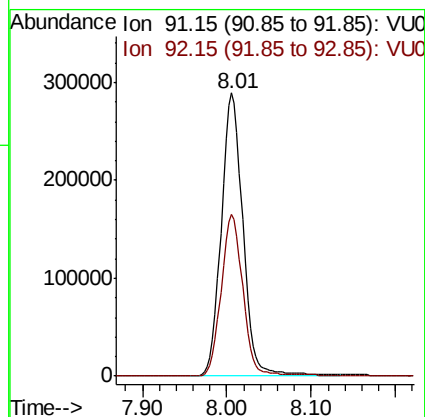
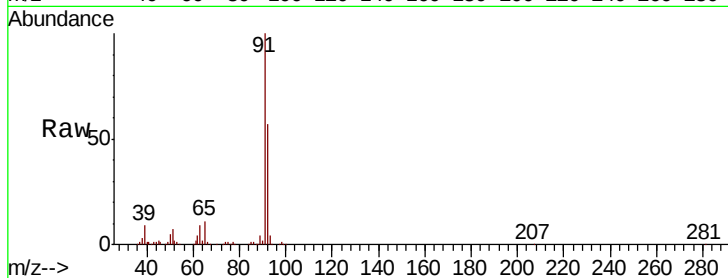
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 518250

Ion Ratio Lower Upper

91 100

92 57.1 39.9 74.1



#48

2-Hexanone

Concen: 1.118 ug/L

RT: 8.73 min Scan# 2299

Delta R.T. -0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

Tgt Ion: 43 Resp: 12434

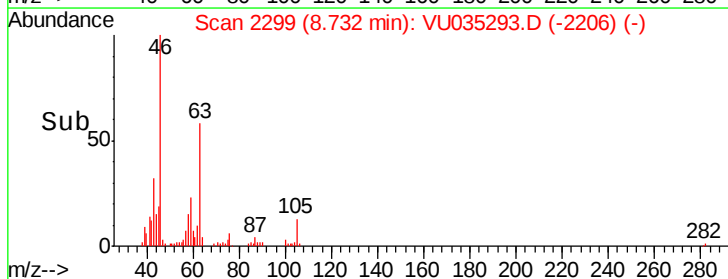
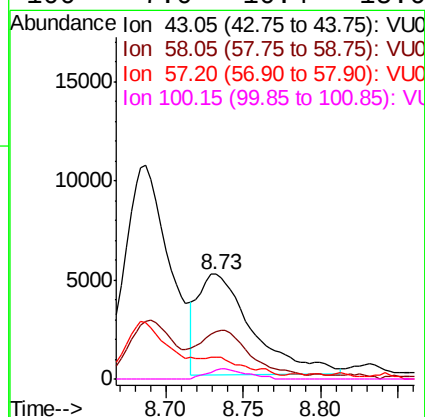
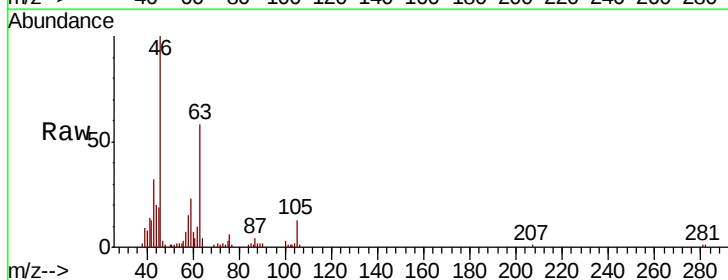
Ion Ratio Lower Upper

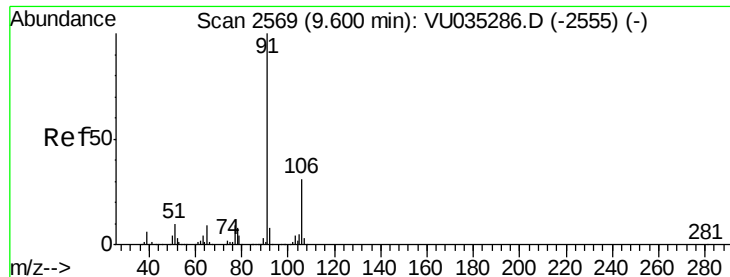
43 100

58 43.4 45.1 67.7#

57 0.0 16.0 24.0#

100 7.0 10.4 15.6#





#52

Ethylbenzene

Concen: 2.207 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

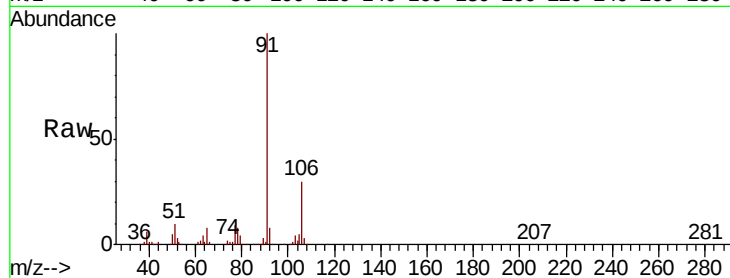
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 256436

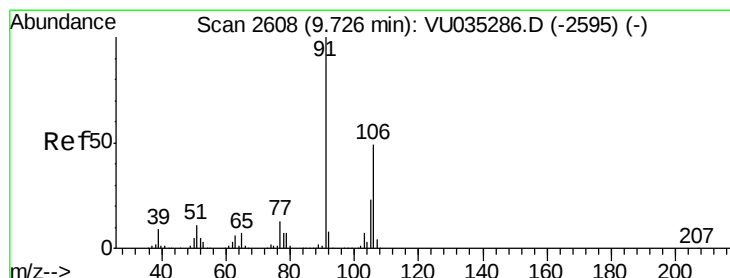
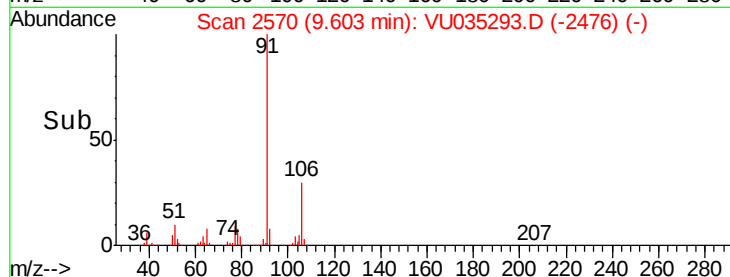
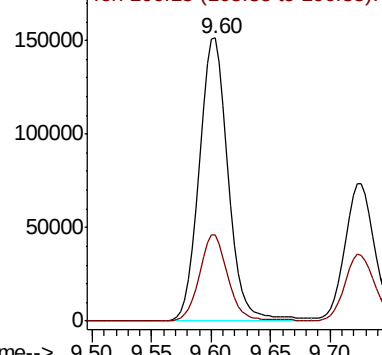
Ion Ratio Lower Upper

91 100

106 30.5 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU035286.D (-2555) (-)



#53

m,p-Xylene

Concen: 1.408 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035293.D

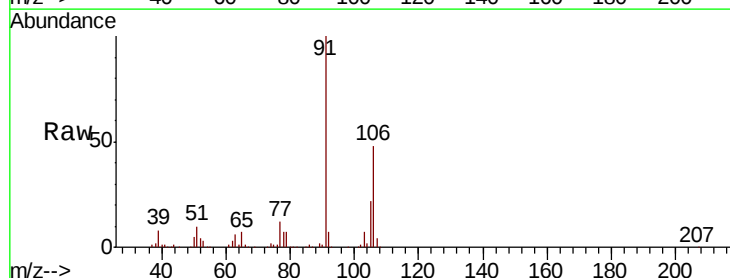
Acq: 19 Oct 2019 02:34

Tgt Ion: 106 Resp: 61765

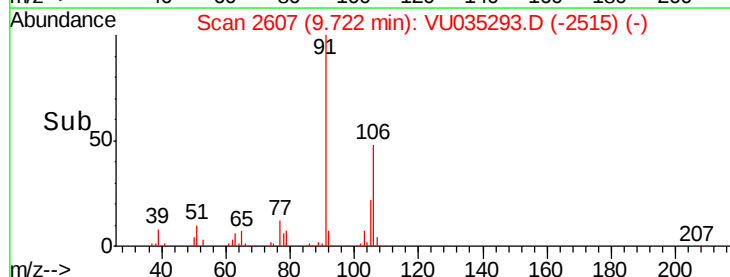
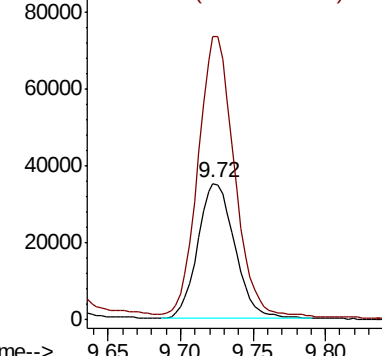
Ion Ratio Lower Upper

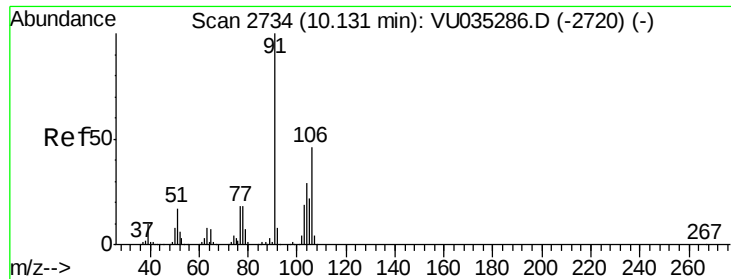
106 100

91 207.1 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): VU035286.D (-2595) (-)

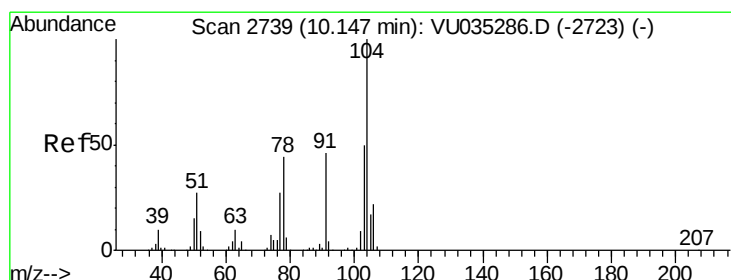
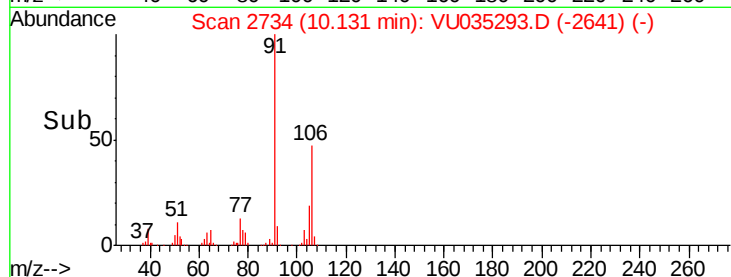
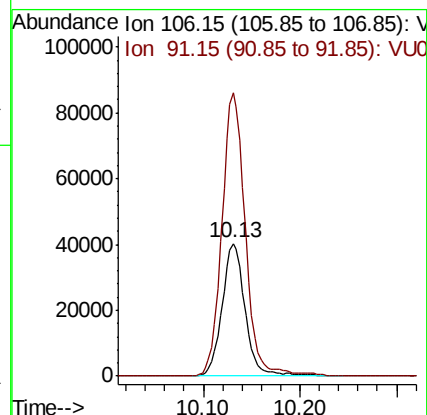
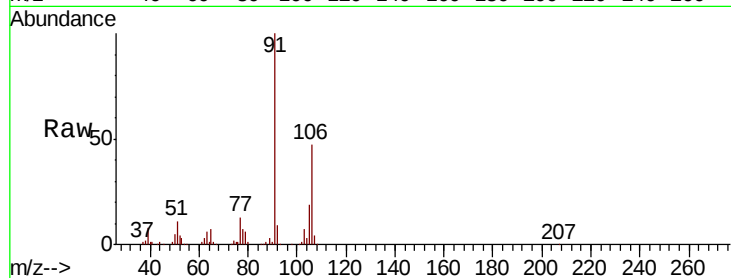




#54
o-Xylene
Concen: 1.559 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VU035293.D
Acq: 19 Oct 2019 02:34

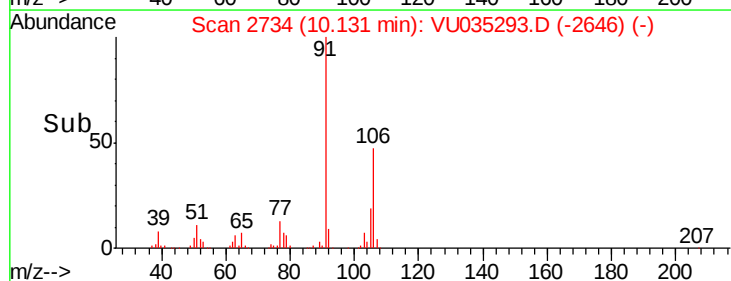
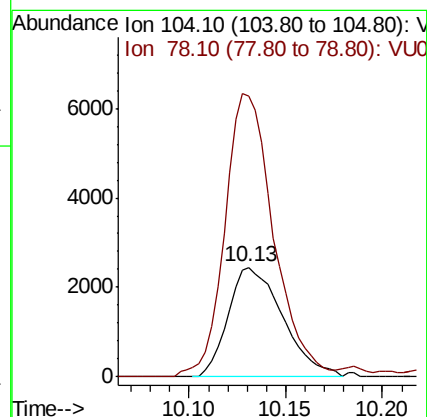
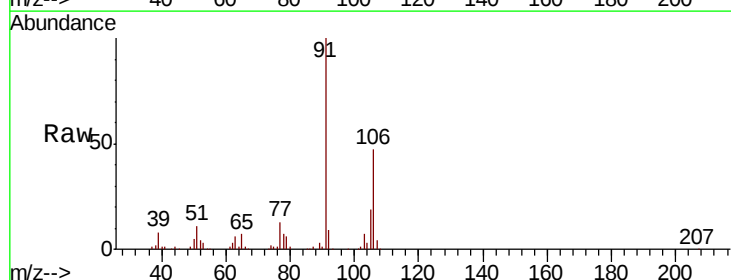
Instrument :
MSVOA_U
ClientSampled :

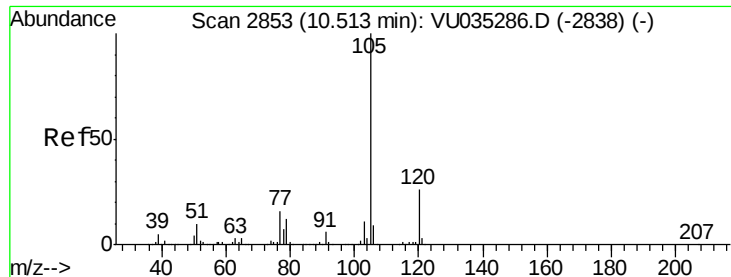
Tot Ion:106 Resp: 66770
Ion Ratio Lower Upper
106 100
91 213.1 153.2 284.6



#55
Styrene
Concen: 0.069 ug/L
RT: 10.13 min Scan# 2734
Delta R.T. -0.02 min
Lab File: VU035293.D
Acq: 19 Oct 2019 02:34

Tgt Ion:104 Resp: 4797
Ion Ratio Lower Upper
104 100
78 256.2 31.3 58.1#





#56

Isopropylbenzene

Concen: 0.090 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

Instrument :

MSVOA_U

ClientSampleId :

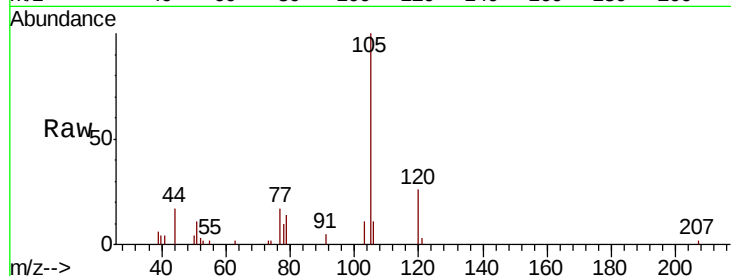
Tot Ion:105 Resp: 10325

Ion Ratio Lower Upper

105 100

120 27.3 21.0 31.6

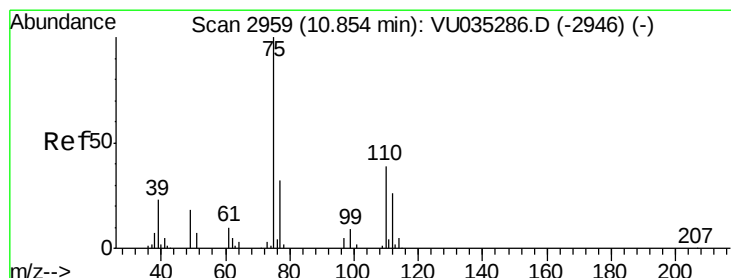
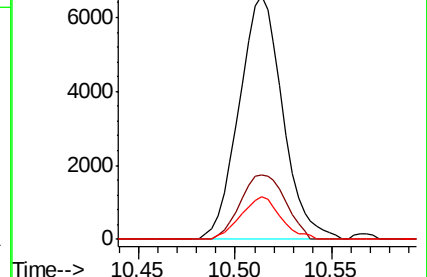
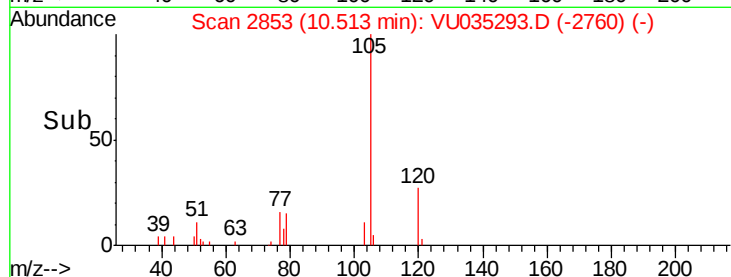
77 16.0 12.6 19.0



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): VU



#59

1,2,3-Trichloropropane

Concen: 1.014 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035293.D

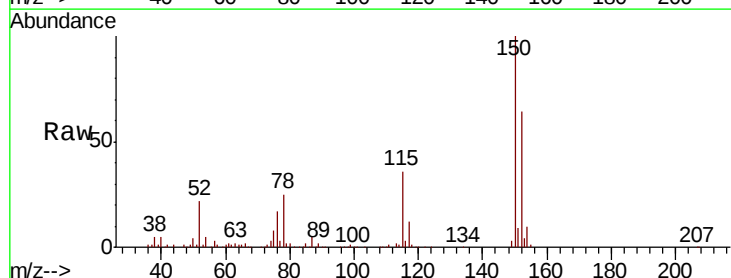
Acq: 19 Oct 2019 02:34

Tgt Ion: 75 Resp: 16597

Ion Ratio Lower Upper

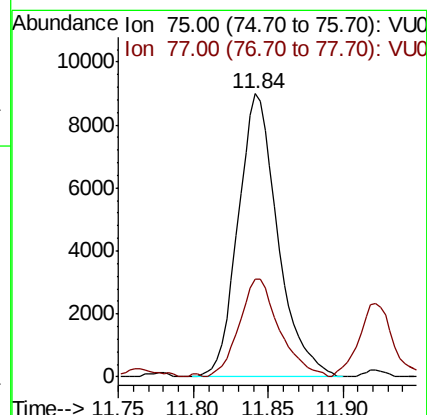
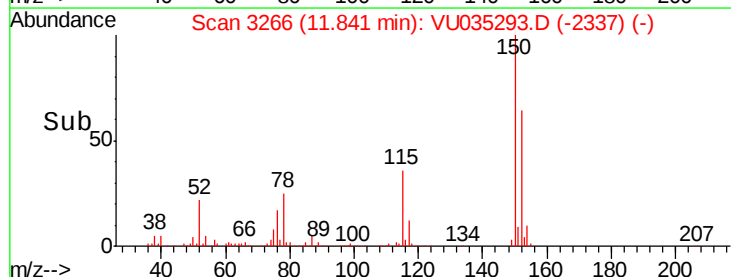
75 100

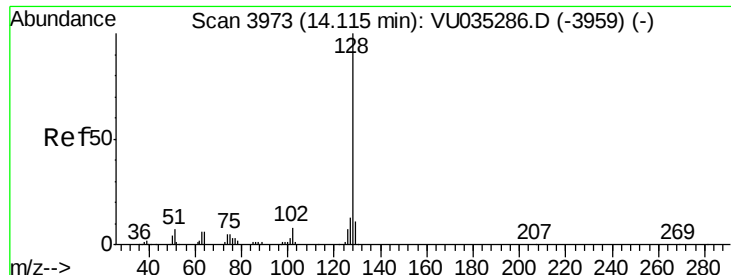
77 35.1 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#69

Naphthalene

Concen: 0.242 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU035293.D

Acq: 19 Oct 2019 02:34

Instrument :

MSVOA_U

ClientSampleId :

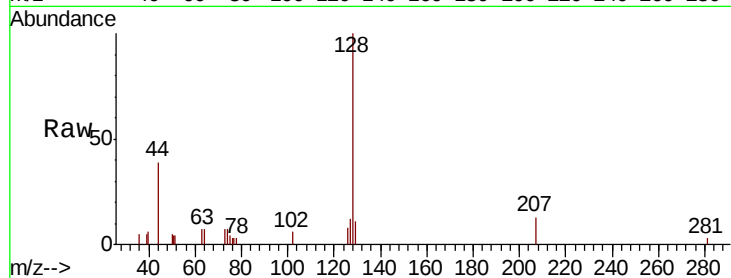
Tot Ion:128 Resp: 6238

Ion Ratio Lower Upper

128 100

129 9.7 8.6 13.0

127 11.2 10.7 16.1



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

