

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122118\
 Data File : VU028877.D
 Acq On : 21 Dec 2018 16:36
 Operator : MD/SY
 Sample : J6513-04DL 40X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 21 23:32:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 21 23:27:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	193018	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	181448	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	81663	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	54502	35.22	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.44%
7) Chloroethane-d5	1.67	69	46836	39.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	78.38%
11) 1,1-Dichloroethene-d2	2.27	63	73508	28.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	56.50%#
21) 2-Butanone-d5	4.18	46	119956	110.65	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.65%
24) Chloroform-d	4.65	84	107038	43.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.98%
26) 1,2-Dichloroethane-d4	5.31	65	68384	45.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.18%
32) Benzene-d6	5.34	84	226513	44.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.38%
36) 1,2-Dichloropropane-d6	6.33	67	82335	47.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.56%
41) Toluene-d8	7.57	98	200919	43.25	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.50%
43) trans-1,3-Dichloropropene-	7.85	79	34648	44.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.80%
47) 2-Hexanone-d5	8.31	63	93243	112.74	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	112.74%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	119642	49.52	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.04%
64) 1,2-Dichlorobenzene-d4	11.86	152	78937	47.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.58%

Target Compounds

					Ovalue
3) Chloromethane	1.33	50	1675	0.783	ug/L 95
8) Chloroethane	1.40	64	765	0.709	ug/L # 1
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	703	0.562	ug/L # 20
13) Acetone	2.29	43	953	0.863	ug/L 71
15) Methyl Acetate	2.63	43	6373	3.700	ug/L # 52
27) 1,2-Dichloroethane	5.39	62	2845	1.543	ug/L # 74
29) Cyclohexane	4.99	56	39075	16.180	ug/L 96
33) Benzene	5.39	78	349670	60.532	ug/L 100
35) Methylcyclohexane	6.41	83	23869	10.276	ug/L 94
39) cis-1,3-Dichloropropene	7.22	75	1710	0.743	ug/L # 60
42) Toluene	7.64	91	165732	28.303	ug/L 98
44) trans-1,3-Dichloropropene	7.85	75	1265	0.616	ug/L # 62
45) 1,1,2-Trichloroethane	8.05	97	1502	1.088	ug/L # 13
48) 2-Hexanone	8.31	43	10765	6.043	ug/L # 61
52) Ethylbenzene	9.25	91	169342	26.914	ug/L 98
53) m,p-Xylene	9.37	106	131445	56.494	ug/L 95
54) o-xylene	9.78	106	29117	12.486	ug/L 98

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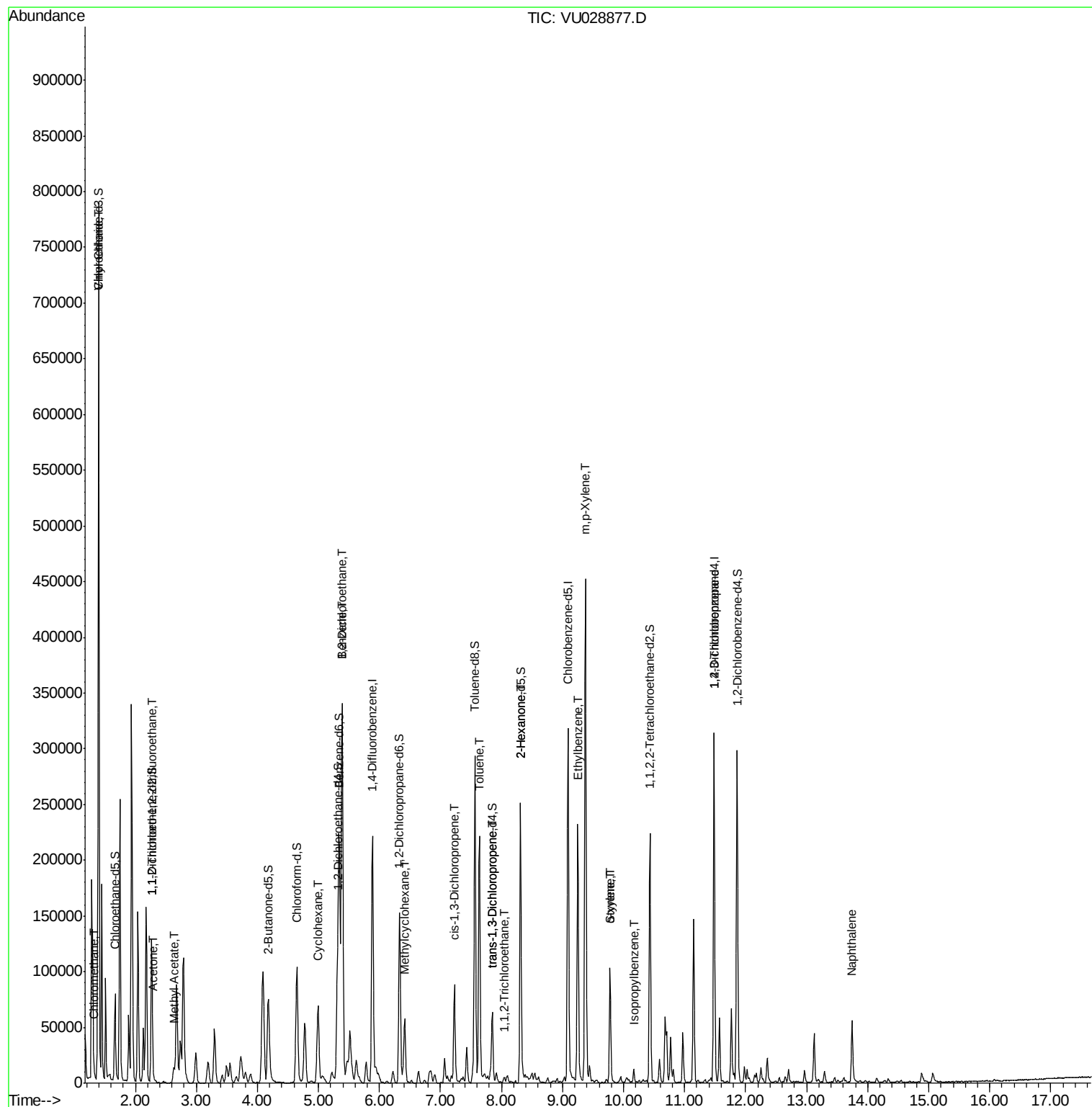
Quant Time: Dec 21 23:32:30 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM122018WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 21 23:27:40 2018
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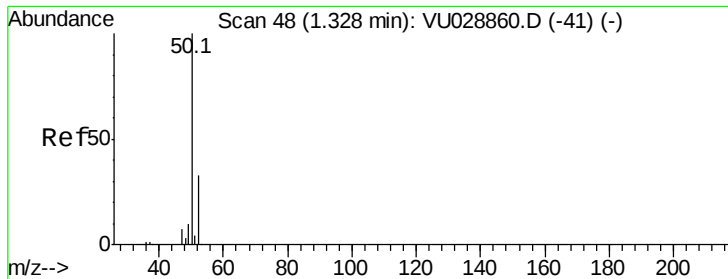
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	9.77	104	1682	0.426	ug/L #	1
56) Isopropylbenzene	10.17	105	7803	1.319	ug/L	96
59) 1,2,3-Trichloropropane	11.48	75	10048	5.214	ug/L	92
69) Naphthalene	13.74	128	48295	8.685	ug/L	99

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

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#3

Chloromethane

Concen: 0.783 ug/L

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028877.D

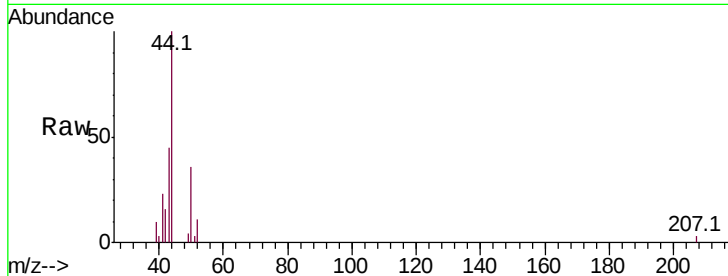
Acq: 21 Dec 2018 16:36

Tot Ion: 50 Resp: 1675

Ion Ratio Lower Upper

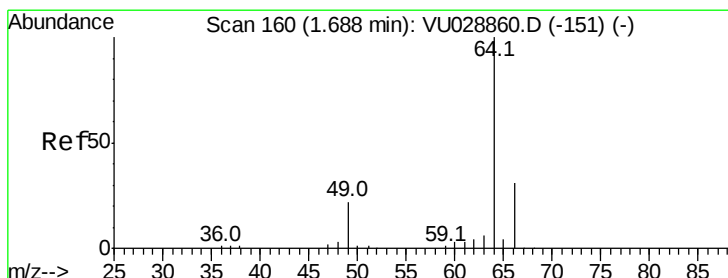
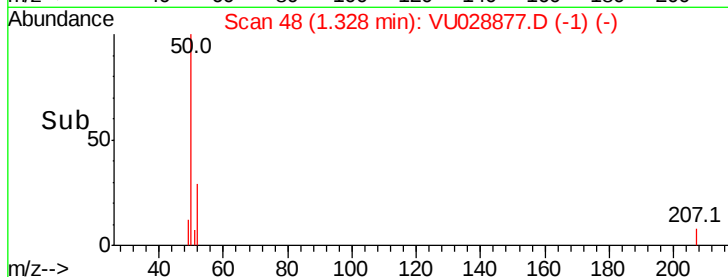
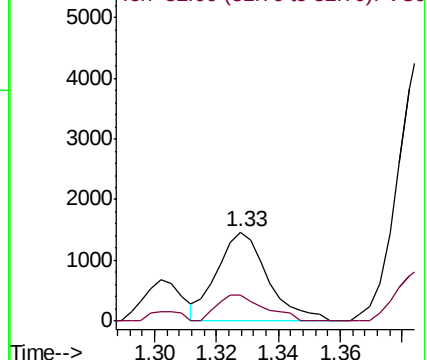
50 100

52 28.9 22.3 41.3



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#8

Chloroethane

Concen: 0.709 ug/L

RT: 1.40 min Scan# 70

Delta R.T. -0.29 min

Lab File: VU028877.D

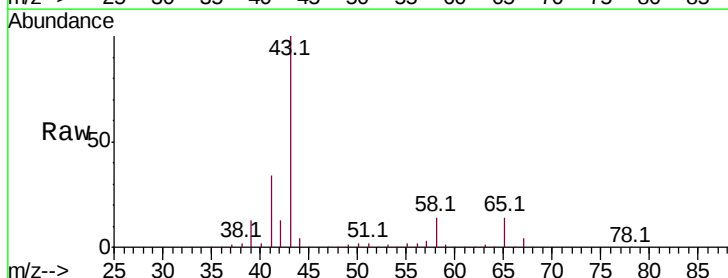
Acq: 21 Dec 2018 16:36

Tgt Ion: 64 Resp: 765

Ion Ratio Lower Upper

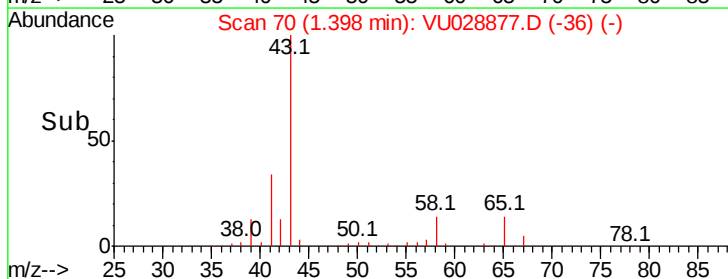
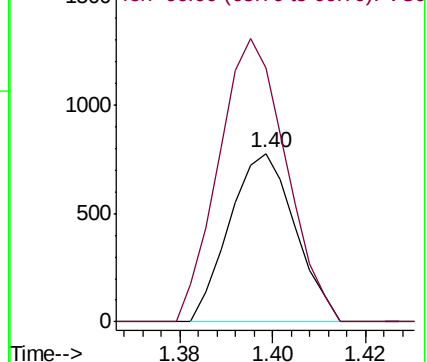
64 100

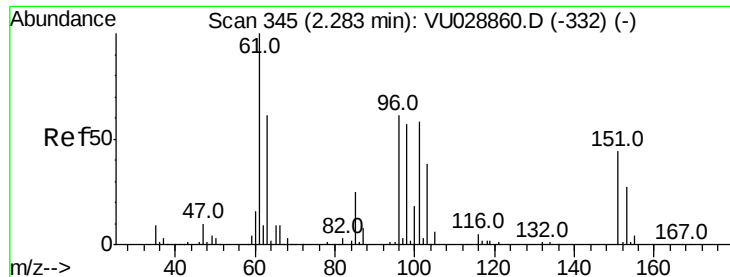
66 150.5 21.5 39.9#



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0





#10

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

Concen: 0.562 ug/L

RT: 2.27 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU028877.D

Acq: 21 Dec 2018 16:36

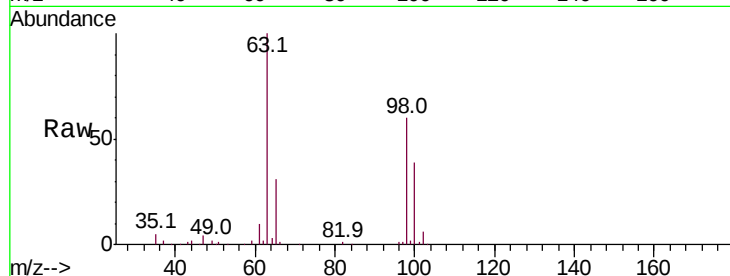
Tot Ion:101 Resp: 703

Ion Ratio Lower Upper

101 100

85 0.0 33.8 50.6#

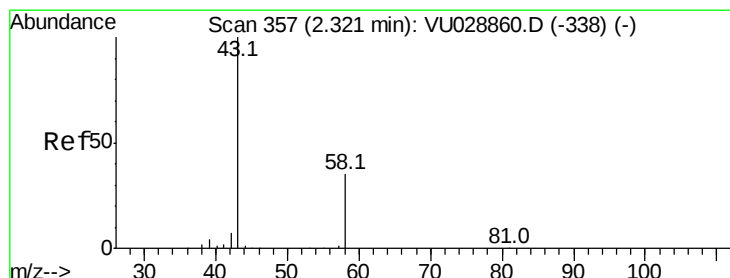
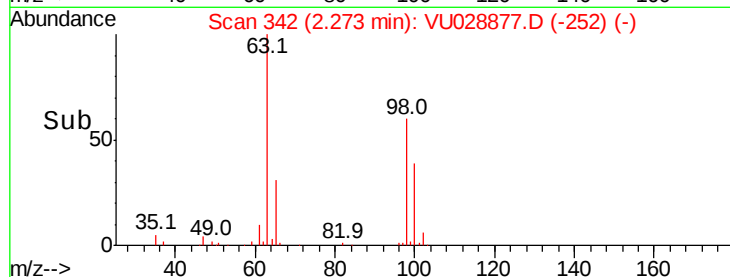
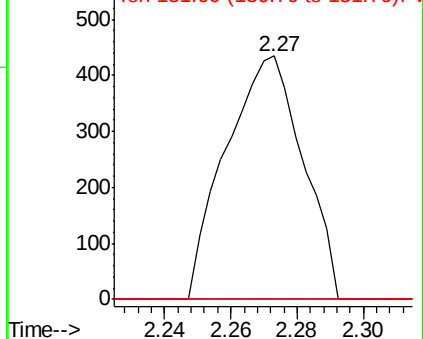
151 0.0 59.4 89.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 0.863 ug/L

RT: 2.29 min Scan# 348

Delta R.T. -0.03 min

Lab File: VU028877.D

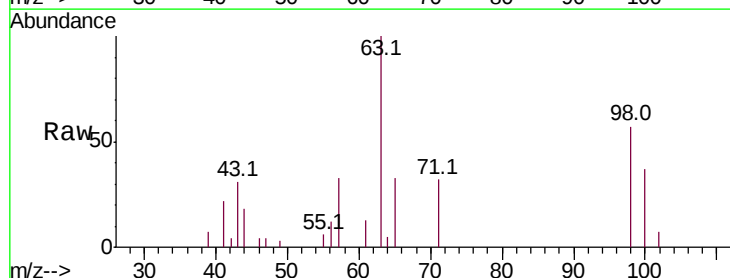
Acq: 21 Dec 2018 16:36

Tgt Ion: 43 Resp: 953

Ion Ratio Lower Upper

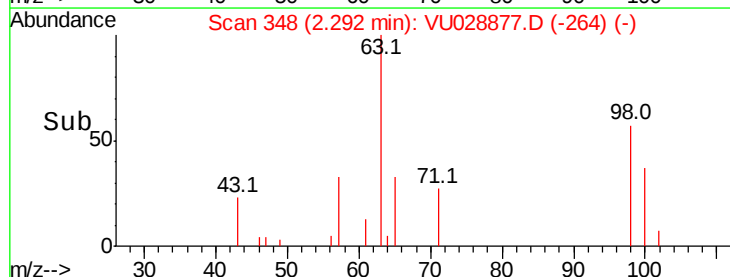
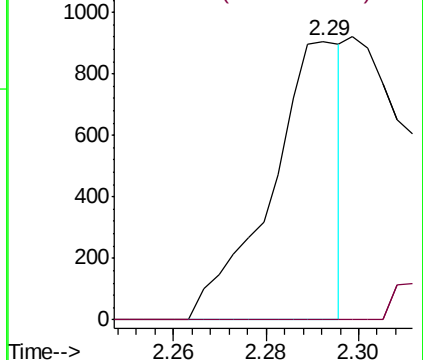
43 100

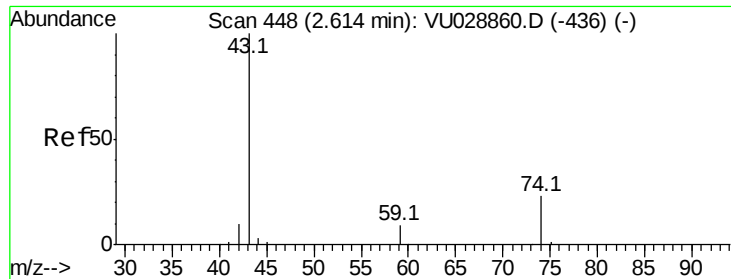
58 18.4 0.0 70.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

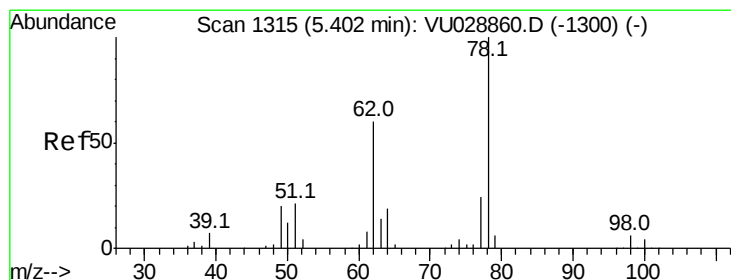
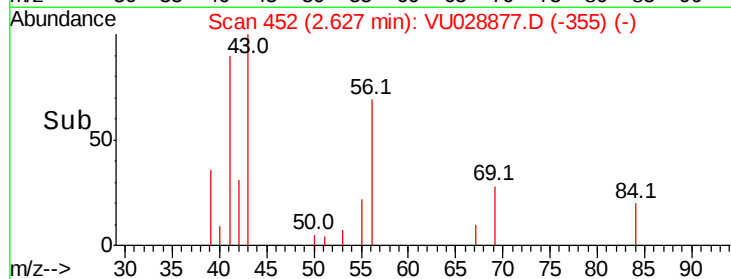
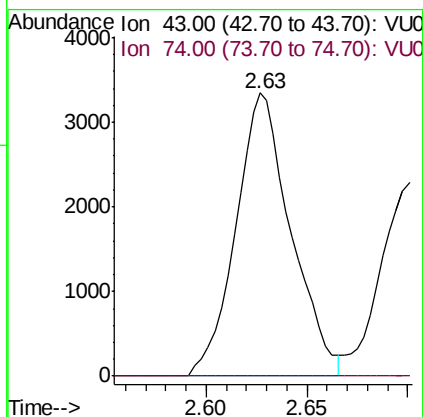
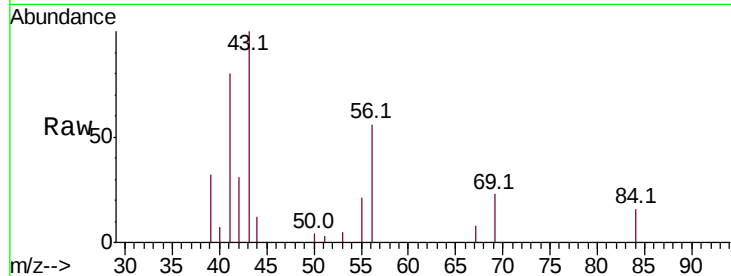
Ion 58.00 (57.70 to 58.70): VU0





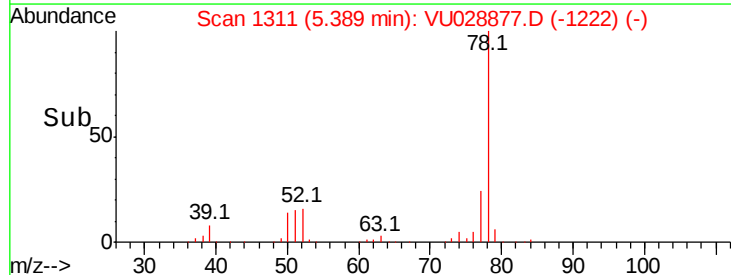
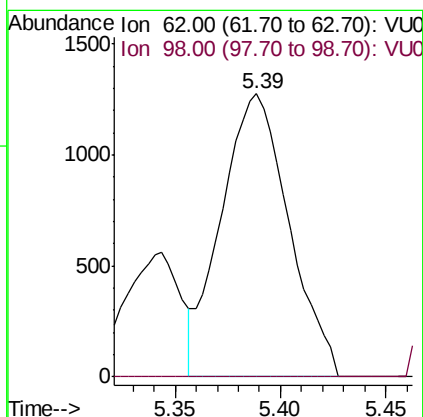
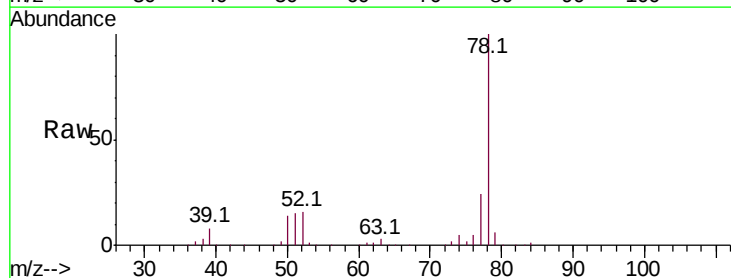
#15
Methvl Acetate
Concen: 3.700 ug/L
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU028877.D
Acq: 21 Dec 2018 16:36

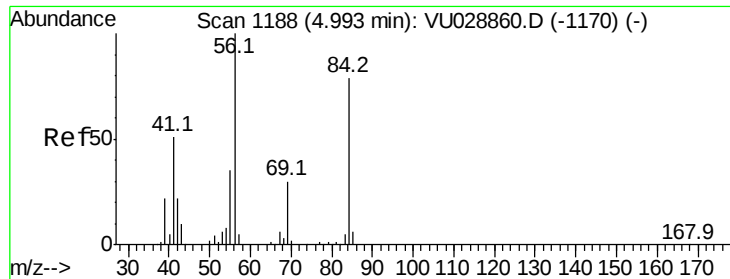
Tot Ion: 43 Resp: 6373
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.4#



#27
1,2-Dichloroethane
Concen: 1.543 ug/L
RT: 5.39 min Scan# 1311
Delta R.T. -0.01 min
Lab File: VU028877.D
Acq: 21 Dec 2018 16:36

Tgt Ion: 62 Resp: 2845
Ion Ratio Lower Upper
62 100
98 0.0 7.5 11.3#





#29

Cyclohexane

Concen: 16.180 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU028877.D

Acq: 21 Dec 2018 16:36

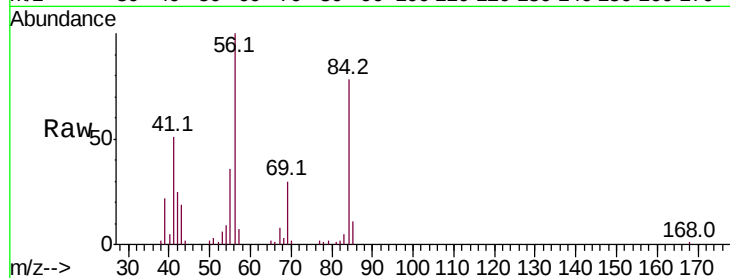
Tot Ion: 56 Resp: 39075

Ion Ratio Lower Upper

56 100

69 30.4 23.8 35.8

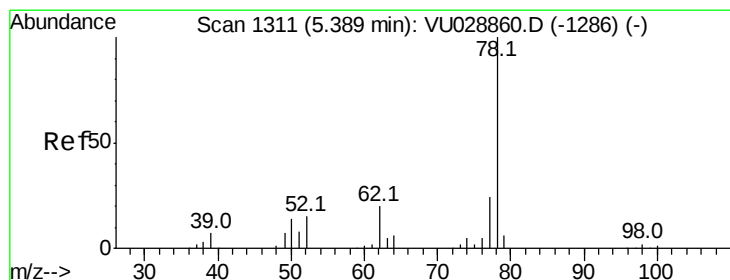
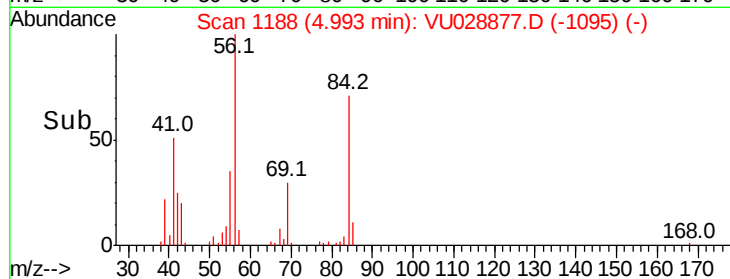
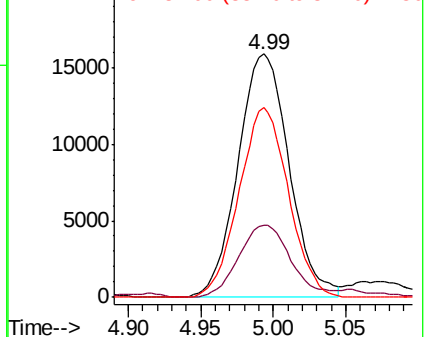
84 75.1 63.8 95.8



Abundance Ion 56.00 (55.70 to 56.70): VU028860.D (-1170) (-)

Ion 69.00 (68.70 to 69.70): VU028860.D (-1170) (-)

Ion 84.00 (83.70 to 84.70): VU028860.D (-1170) (-)



#33

Benzene

Concen: 60.532 ug/L

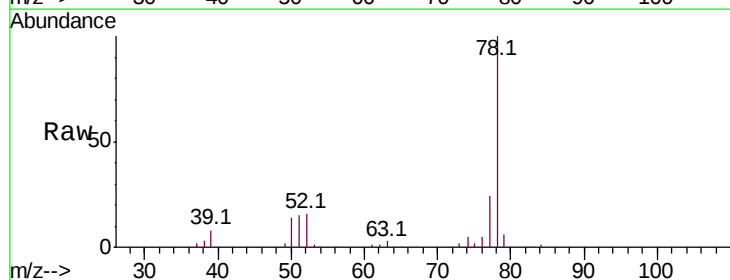
RT: 5.39 min Scan# 1311

Delta R.T. -0.00 min

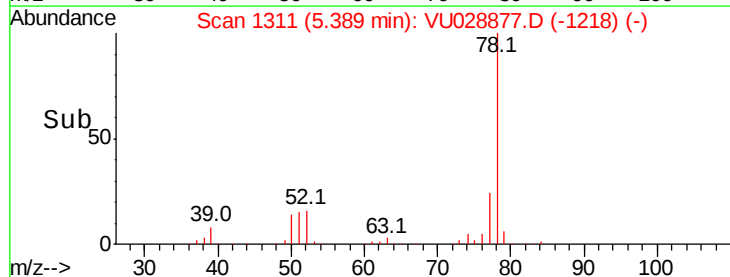
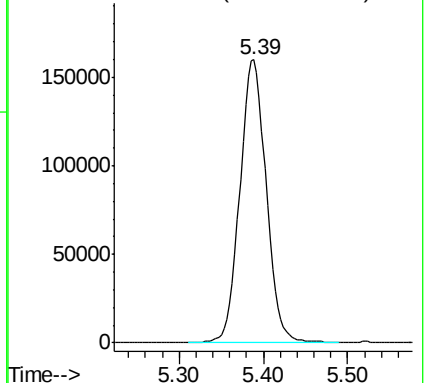
Lab File: VU028877.D

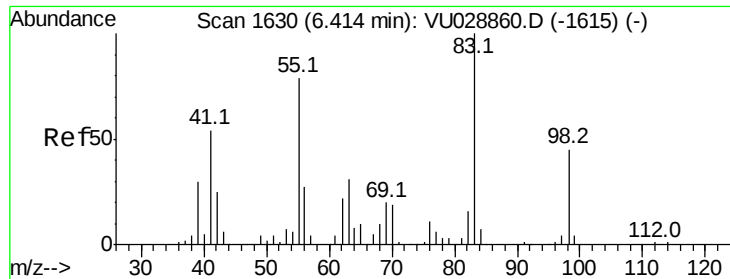
Acq: 21 Dec 2018 16:36

Tgt Ion: 78 Resp: 349670



Abundance Ion 78.00 (77.70 to 78.70): VU028860.D (-1286) (-)





#35

Methylcyclohexane

Concen: 10.276 ug/L

RT: 6.41 min Scan# 1629

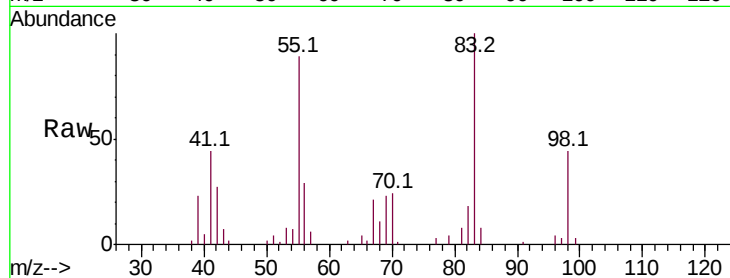
Delta R.T. -0.00 min

Lab File: VU028877.D

Acq: 21 Dec 2018 16:36

Tot Ion: 83 Resp: 23869

Ion	Ratio	Lower	Upper
83	100		
55	87.1	63.7	95.5
98	43.4	35.6	53.4

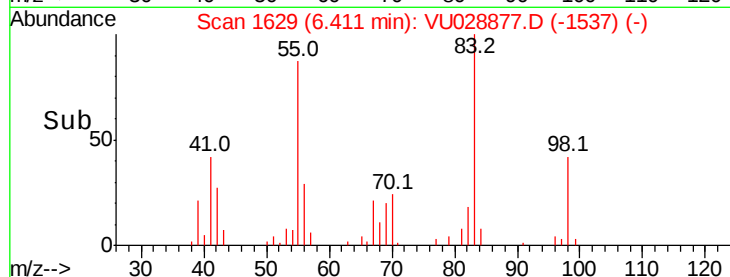


Abundance Ion 83.00 (82.70 to 83.70): VU028877.D (-1537) (-)

Ion 55.00 (54.70 to 55.70): VU028877.D (-1537) (-)

Ion 98.00 (97.70 to 98.70): VU028877.D (-1537) (-)

Time-->



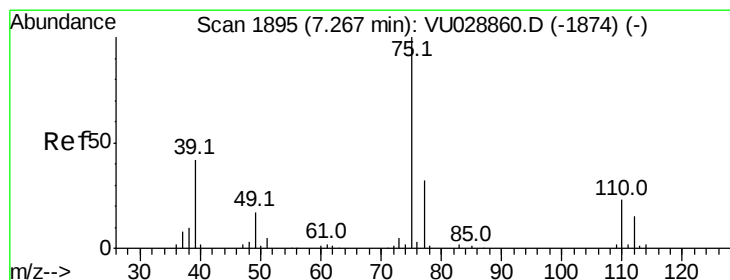
Abundance

Ion 83.00 (82.70 to 83.70): VU028877.D (-1537) (-)

Ion 55.00 (54.70 to 55.70): VU028877.D (-1537) (-)

Ion 98.00 (97.70 to 98.70): VU028877.D (-1537) (-)

Time-->



#39

cis-1,3-Dichloropropene

Concen: 0.743 ug/L

RT: 7.22 min Scan# 1882

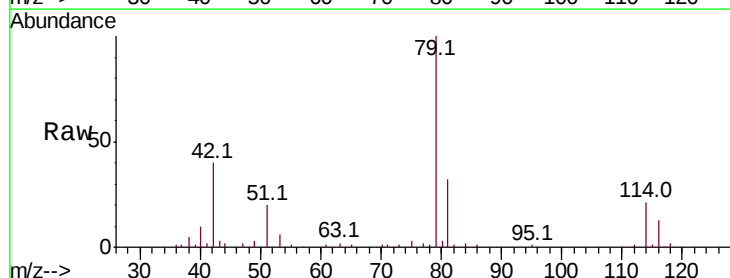
Delta R.T. -0.04 min

Lab File: VU028877.D

Acq: 21 Dec 2018 16:36

Tgt Ion: 75 Resp: 1710

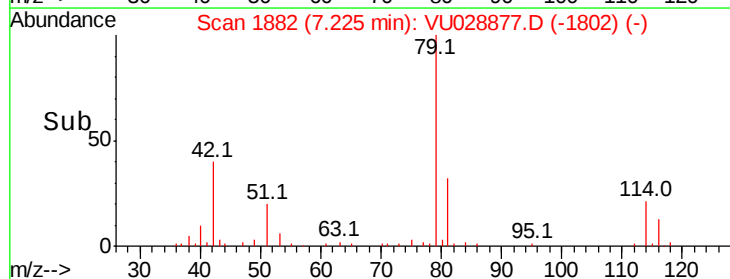
Ion	Ratio	Lower	Upper
75	100		
77	53.2	21.8	40.6#



Abundance Ion 75.00 (74.70 to 75.70): VU028877.D (-1802) (-)

Ion 77.00 (76.70 to 77.70): VU028877.D (-1802) (-)

Time-->

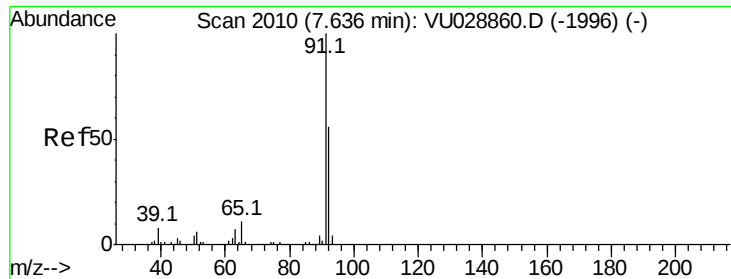


Abundance

Ion 75.00 (74.70 to 75.70): VU028877.D (-1802) (-)

Ion 77.00 (76.70 to 77.70): VU028877.D (-1802) (-)

Time-->



#42

Toluene

Concen: 28.303 ug/L

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028877.D

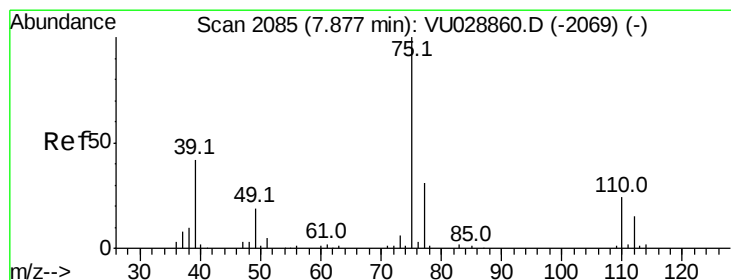
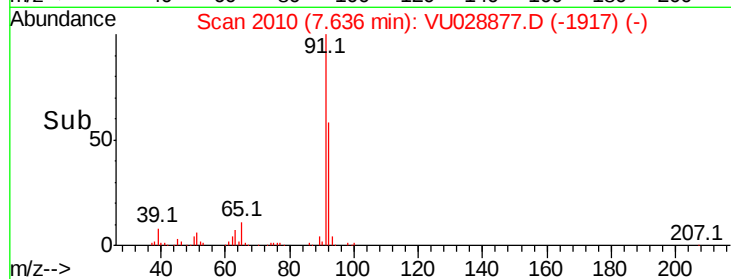
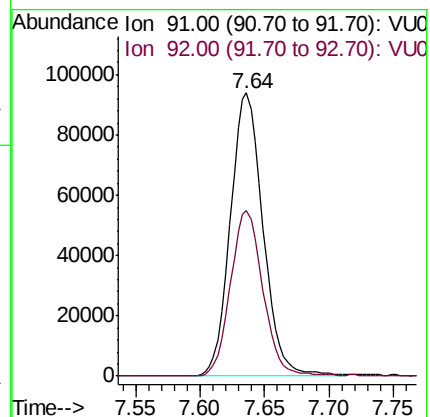
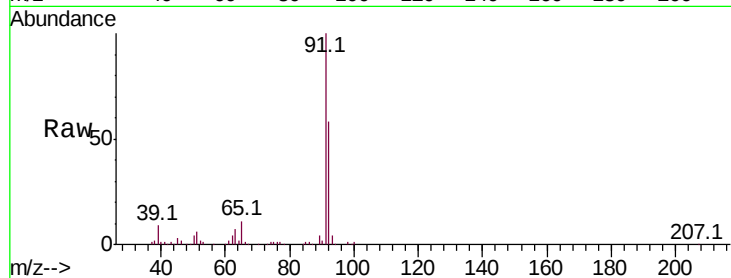
Acq: 21 Dec 2018 16:36

Tot Ion: 91 Resp: 165732

Ion Ratio Lower Upper

91 100

92 58.4 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 0.616 ug/L

RT: 7.85 min Scan# 2075

Delta R.T. -0.03 min

Lab File: VU028877.D

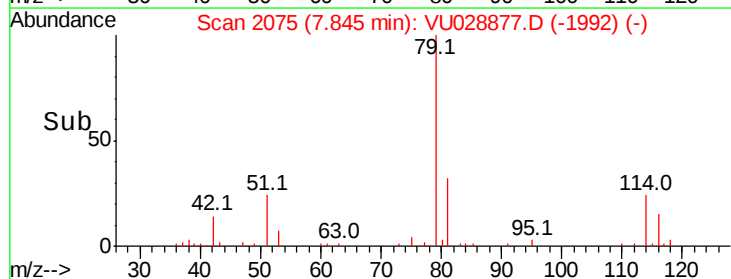
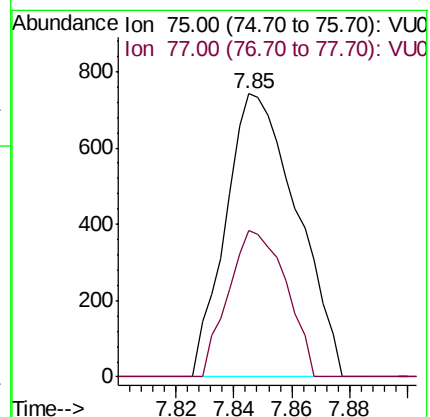
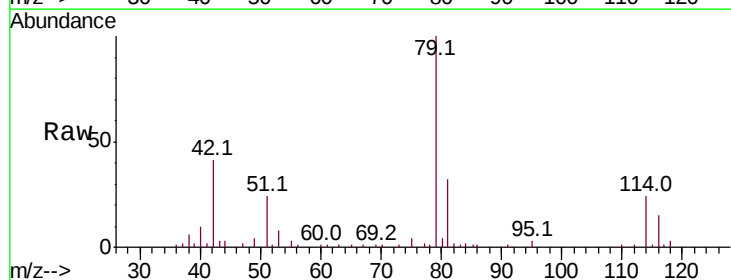
Acq: 21 Dec 2018 16:36

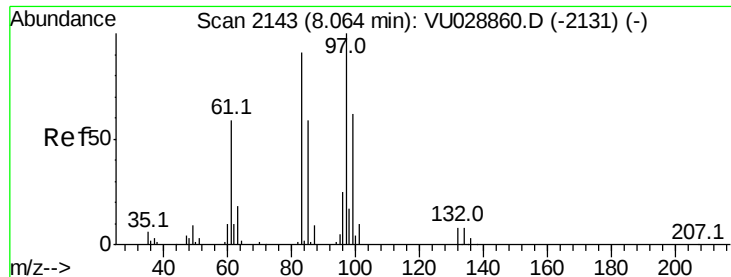
Tgt Ion: 75 Resp: 1265

Ion Ratio Lower Upper

75 100

77 51.9 21.8 40.6#





#45

1,1,2-Trichloroethane

Concen: 1.088 ug/L

RT: 8.05 min Scan# 2138

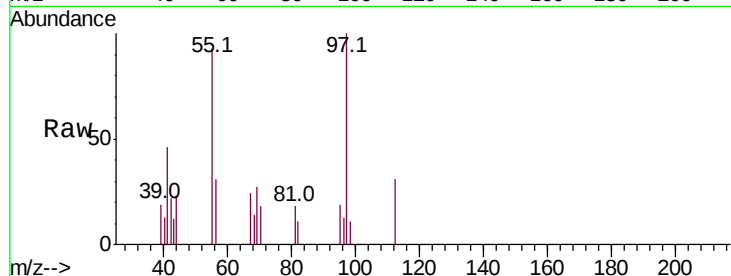
Delta R.T. -0.02 min

Lab File: VU028877.D

Acq: 21 Dec 2018 16:36

Tot Ion: 97 Resp: 1502

Ion	Ratio	Lower	Upper
97	100		
99	0.0	44.2	82.2#
83	0.0	64.5	119.9#
85	0.0	40.9	75.9#

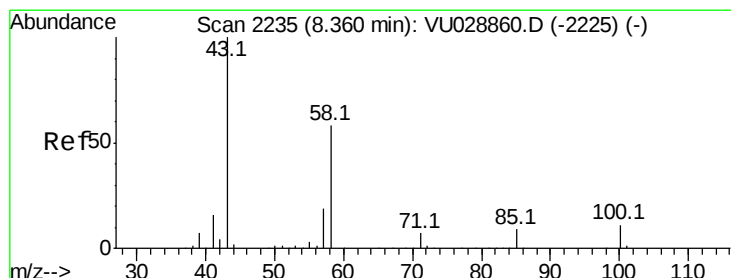
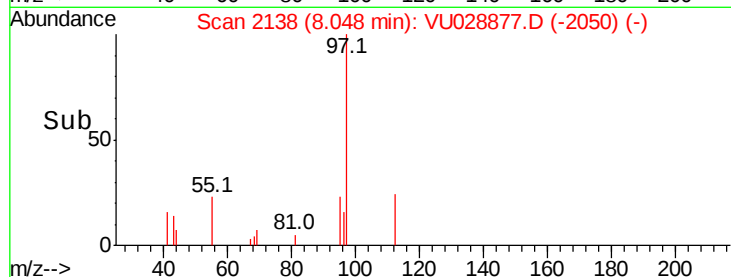
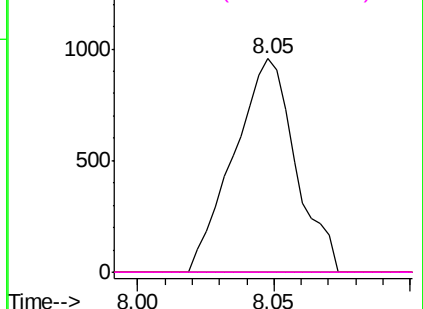


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#48

2-Hexanone

Concen: 6.043 ug/L

RT: 8.31 min Scan# 2220

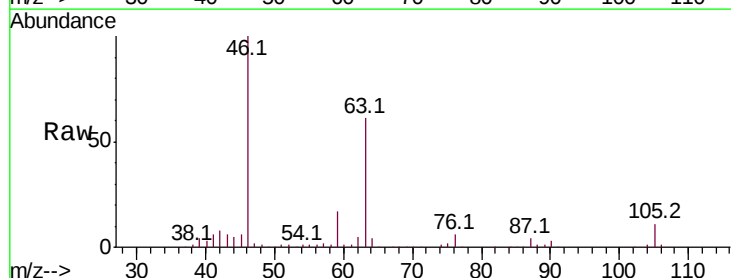
Delta R.T. -0.05 min

Lab File: VU028877.D

Acq: 21 Dec 2018 16:36

Tgt Ion: 43 Resp: 10765

Ion	Ratio	Lower	Upper
43	100		
58	23.6	45.9	68.9#
57	28.6	15.0	22.4#
100	0.0	8.7	13.1#

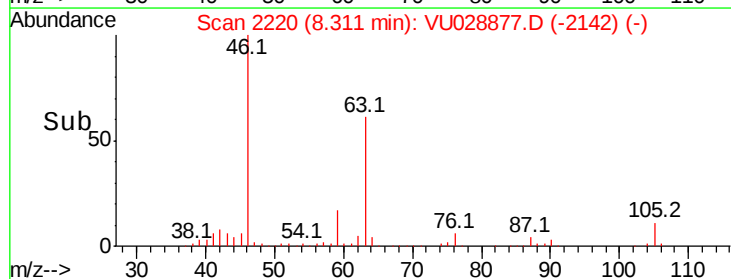
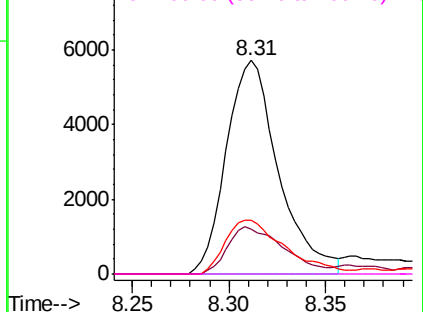


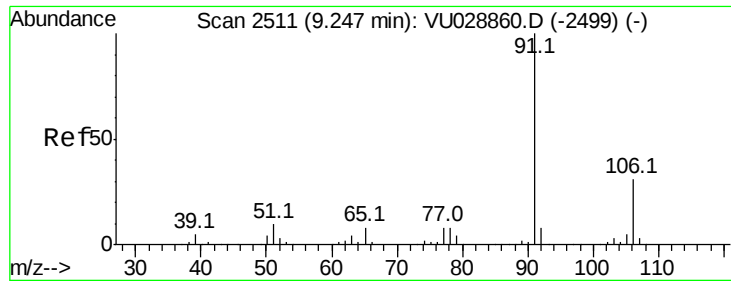
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 100.00 (99.70 to 100.70): VU0





#52

Ethylbenzene

Concen: 26.914 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. 0.00 min

Lab File: VU028877.D

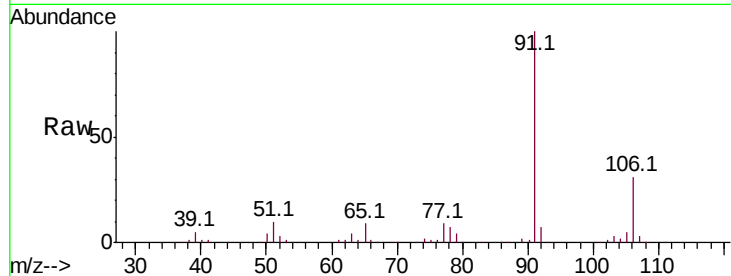
Acq: 21 Dec 2018 16:36

Tot Ion: 91 Resp: 169342

Ion Ratio Lower Upper

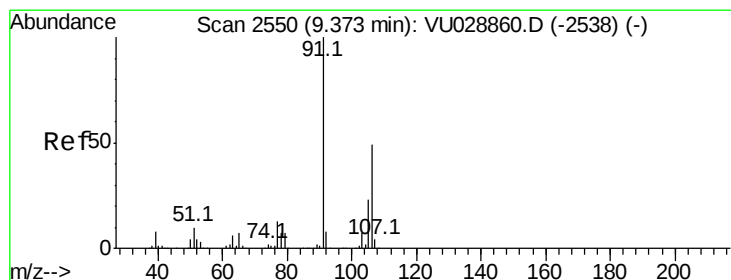
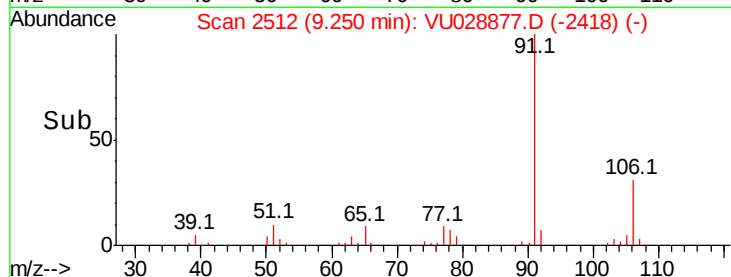
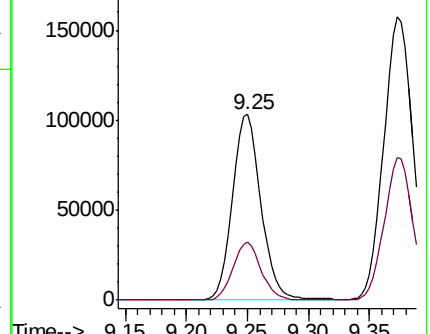
91 100

106 31.2 20.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 56.494 ug/L

RT: 9.37 min Scan# 2550

Delta R.T. -0.00 min

Lab File: VU028877.D

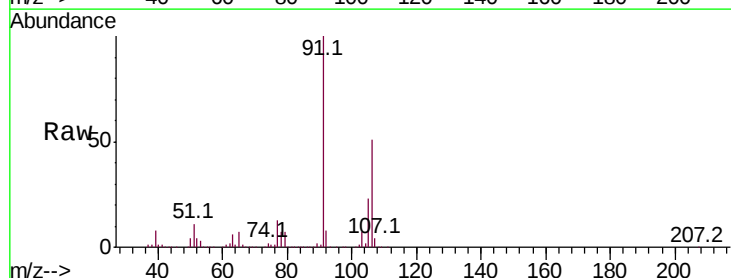
Acq: 21 Dec 2018 16:36

Tgt Ion:106 Resp: 131445

Ion Ratio Lower Upper

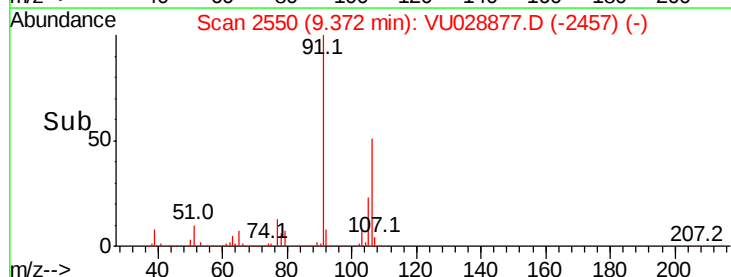
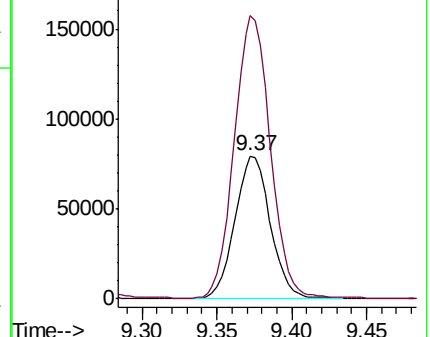
106 100

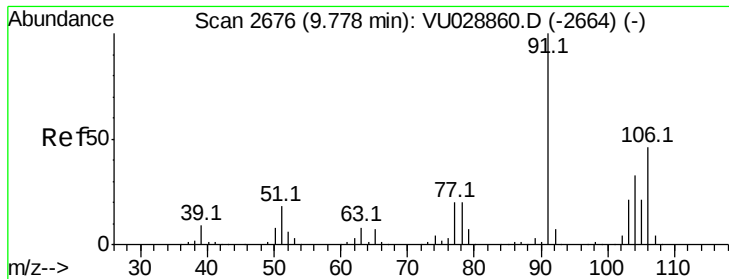
91 198.0 144.1 267.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#54

o-xylene

Concen: 12.486 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU028877.D

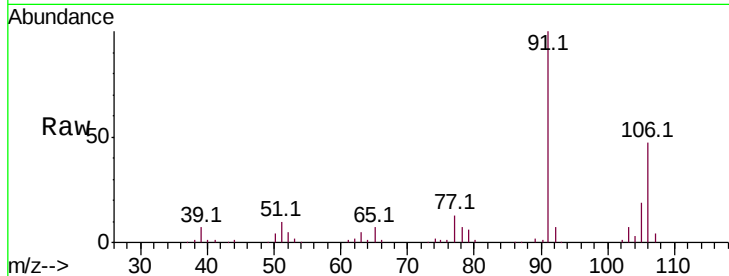
Acq: 21 Dec 2018 16:36

Tot Ion:106 Resp: 29117

Ion Ratio Lower Upper

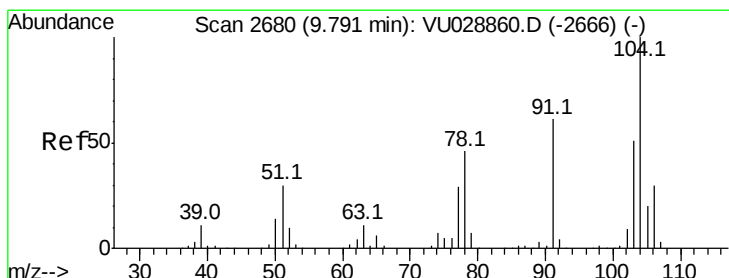
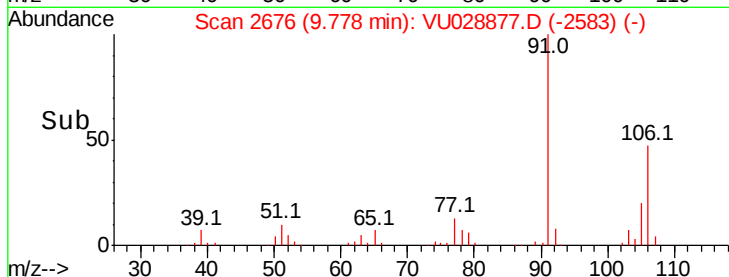
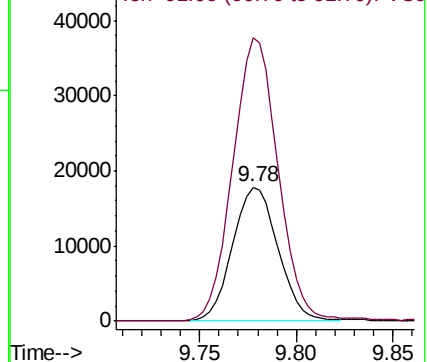
106 100

91 211.8 150.4 279.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 0.426 ug/L

RT: 9.77 min Scan# 2675

Delta R.T. -0.02 min

Lab File: VU028877.D

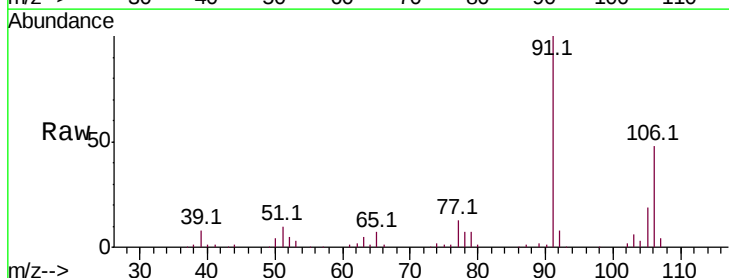
Acq: 21 Dec 2018 16:36

Tgt Ion:104 Resp: 1682

Ion Ratio Lower Upper

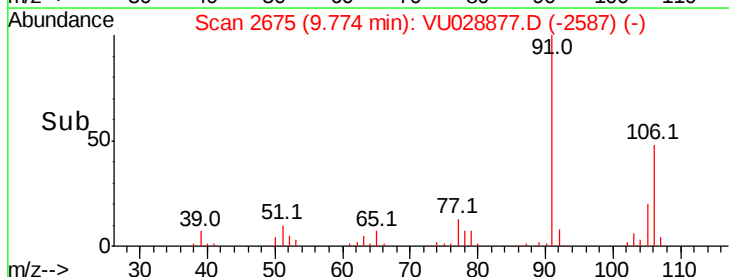
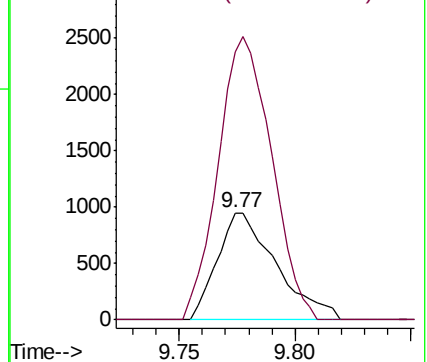
104 100

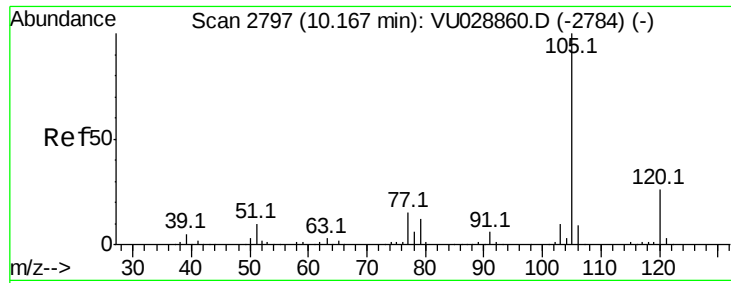
78 249.8 31.3 58.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.319 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU028877.D

Acq: 21 Dec 2018 16:36

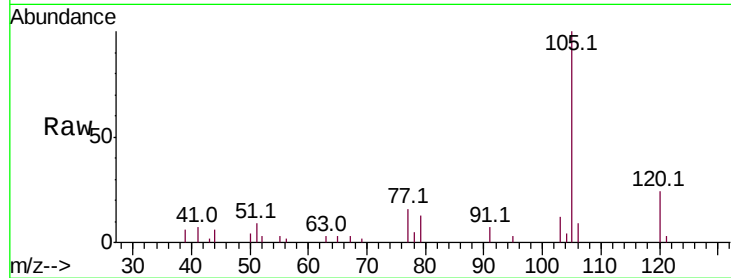
Tot Ion: 105 Resp: 7803

Ion Ratio Lower Upper

105 100

120 23.4 21.4 32.2

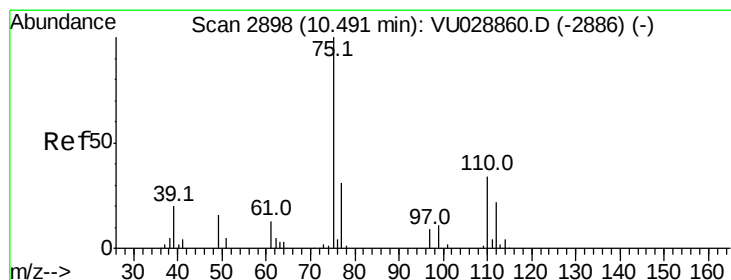
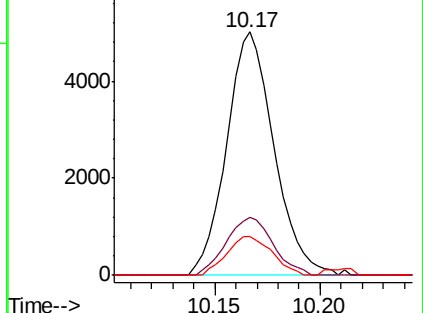
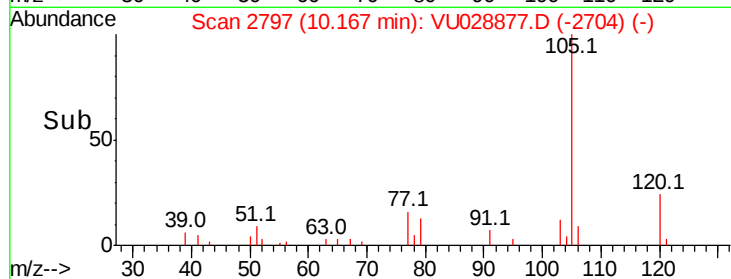
77 15.3 12.3 18.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU



#59

1,2,3-Trichloropropane

Concen: 5.214 ug/L

RT: 11.48 min Scan# 3206

Delta R.T. 0.99 min

Lab File: VU028877.D

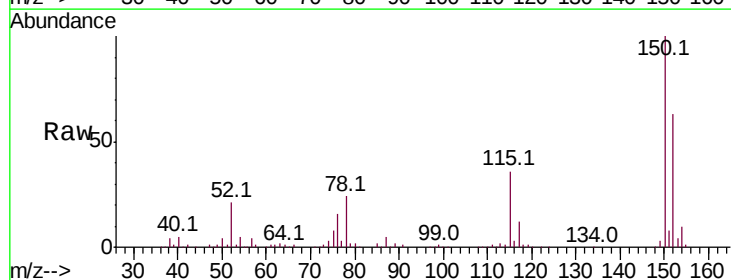
Acq: 21 Dec 2018 16:36

Tgt Ion: 75 Resp: 10048

Ion Ratio Lower Upper

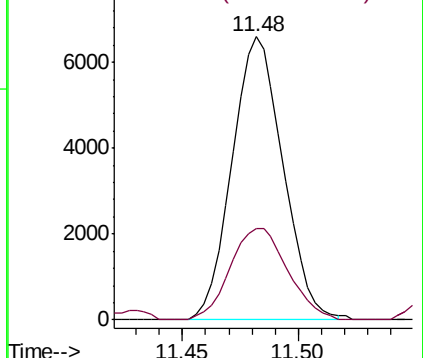
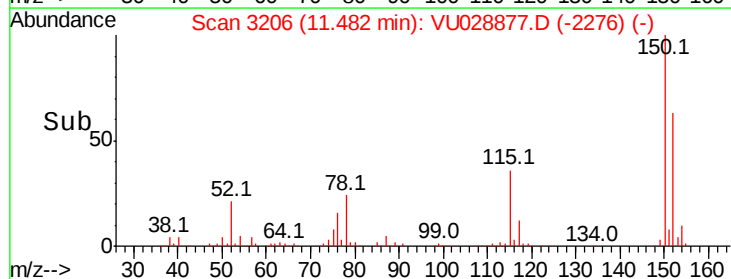
75 100

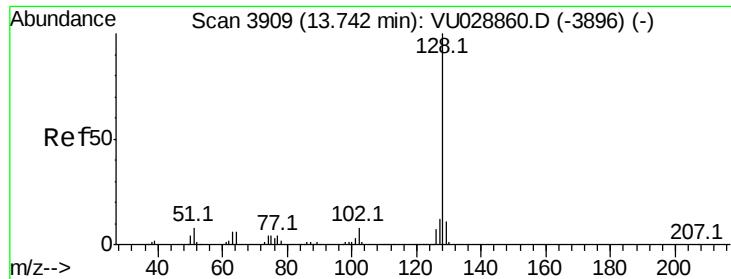
77 36.6 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#69

Naphthalene

Concen: 8.685 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU028877.D

Acq: 21 Dec 2018 16:36

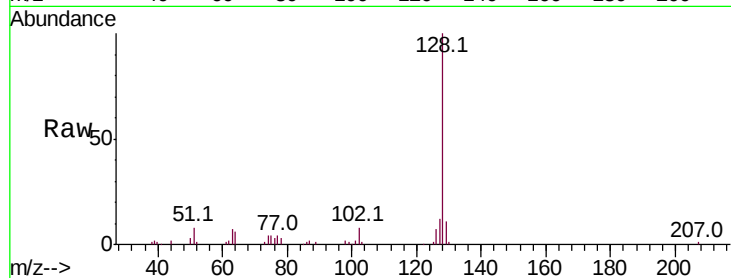
Tot Ion:128 Resp: 48295

Ion Ratio Lower Upper

128 100

127 12.4 10.5 15.7

129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

