

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U070920\
 Data File : VU039416.D
 Acq On : 10 Jul 2020 00:20
 Operator : SY/MD
 Sample : L3261-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BE503

Quant Time: Jul 10 02:37:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 10 02:02:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	100071	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	97602	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	58818	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	25016	4.31	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.20%
7) Chloroethane-d5	1.92	69	27800	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.80%
11) 1,1-Dichloroethene-d2	2.58	63	39103	3.43	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.60%
20) 2-Butanone-d5	4.66	46	157653	59.41	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.82%
24) Chloroform-d	5.09	84	64622	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
26) 1,2-Dichloroethane-d4	5.72	65	43341	5.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.80%
32) Benzene-d6	5.75	84	126085	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.40%
36) 1,2-Dichloropropane-d6	6.71	67	43483	5.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.40%
41) Toluene-d8	7.91	98	108183	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.20%
43) trans-1,3-Dichloropropene-	8.19	79	20362	5.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	111.80%
46) 2-Hexanone-d5	8.64	63	131320	60.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	121.46%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	51936	6.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	127.00%#
64) 1,2-Dichlorobenzene-d4	12.19	152	57972	5.52	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	11088	1.359	ug/L	99
8) Chloroethane	1.94	64	50093	8.497	ug/L	95
13) Acetone	2.67	43	37526	26.197	ug/L	98
17) Methyl tert-butyl Ether	3.38	73	6783	0.362	ug/L #	1
18) trans-1,2-Dichloroethene	3.37	96	797	0.121	ug/L	77
19) 1,1-Dichloroethane	3.89	63	12763	0.990	ug/L	98
21) 2-Butanone	4.74	43	14322	5.602	ug/L	96
22) cis-1,2-Dichloroethene	4.69	96	86585	11.720	ug/L	98
25) Chloroform	5.11	83	6359	0.488	ug/L	94
30) Cyclohexane	5.40	56	5721	0.473	ug/L	97
33) Benzene	5.80	78	6319078	216.553	ug/L	100
35) Methylcyclohexane	6.77	83	5138	0.425	ug/L #	85
40) 4-Methyl-2-pentanone	7.81	43	26643	4.015	ug/L	99
42) Toluene	7.98	91	12352325	395.309	ug/L	96
51) Chlorobenzene	9.45	112	902515	47.267	ug/L	99
52) Ethylbenzene	9.57	91	1536733	44.500	ug/L	100
53) m,p-Xylene	9.70	106	1809951	139.101	ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jul 10 02:02:00 2020
Response via : Initial Calibration

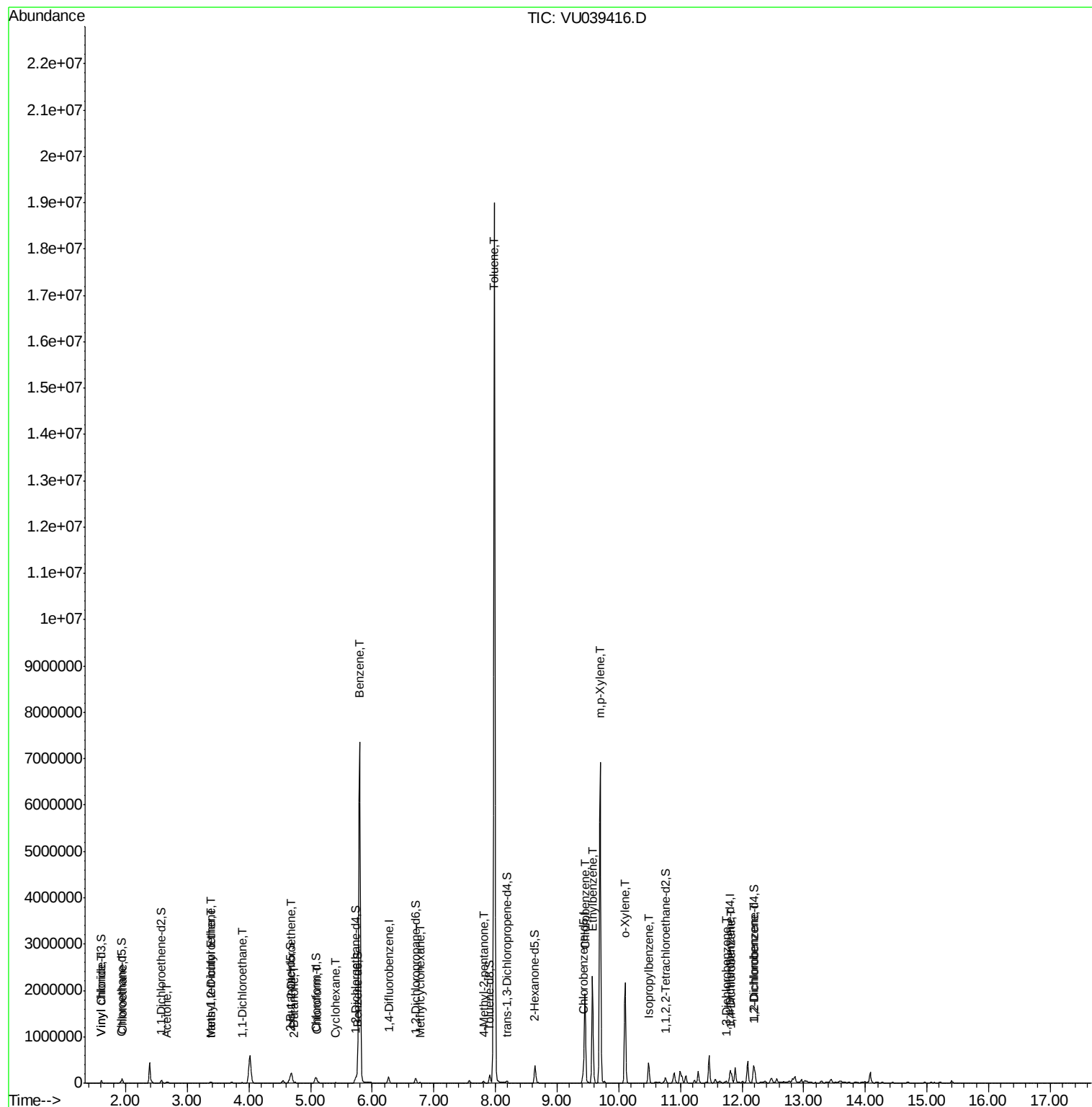
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.10	106	550484	43.457	ug/L	100
56) Isopropylbenzene	10.48	105	267539	7.809	ug/L	99
62) 1,3-Dichlorobenzene	11.74	146	9312	0.505	ug/L	97
63) 1,4-Dichlorobenzene	11.83	146	55564	3.005	ug/L	98
65) 1,2-Dichlorobenzene	12.21	146	70929	3.839	ug/L	98

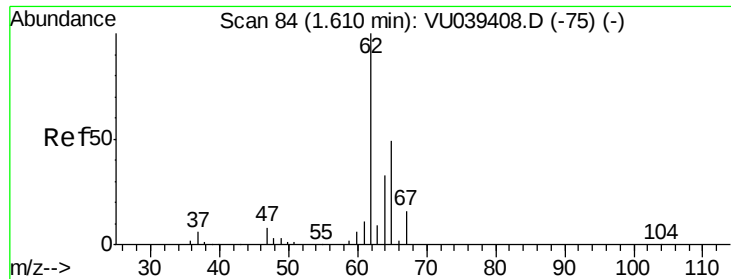
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 10 02:02:00 2020
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#5

Vinyl chloride

Concen: 1.359 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

Instrument :

MSVOA_U

ClientSampled :

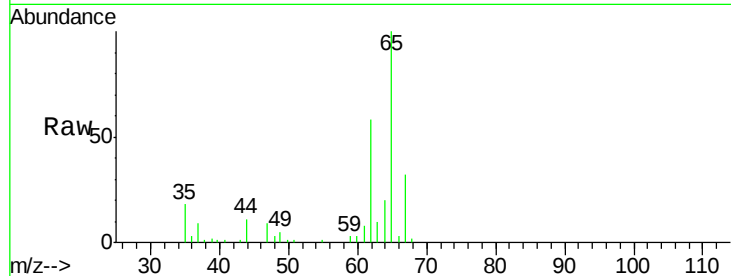
BE503

Tot Ion: 62 Resp: 11088

Ion Ratio Lower Upper

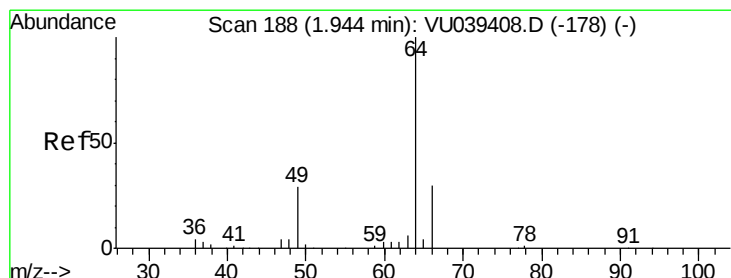
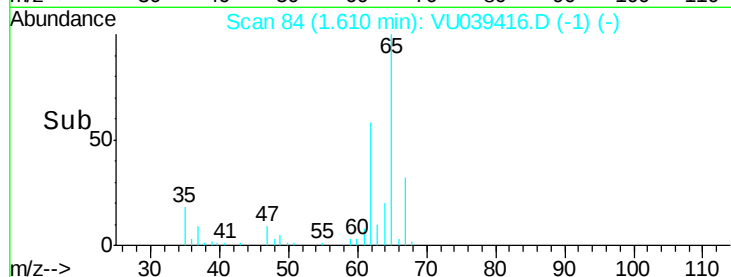
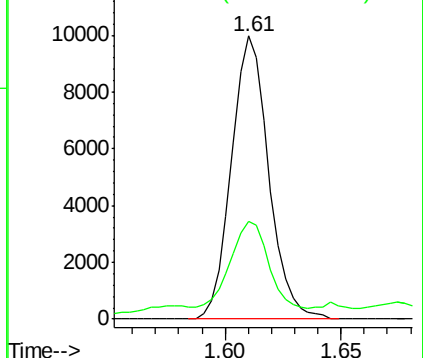
62 100

64 34.7 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 8.497 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU039416.D

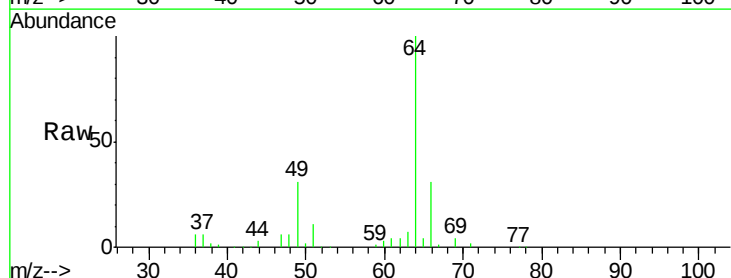
Acq: 10 Jul 2020 00:20

Tgt Ion: 64 Resp: 50093

Ion Ratio Lower Upper

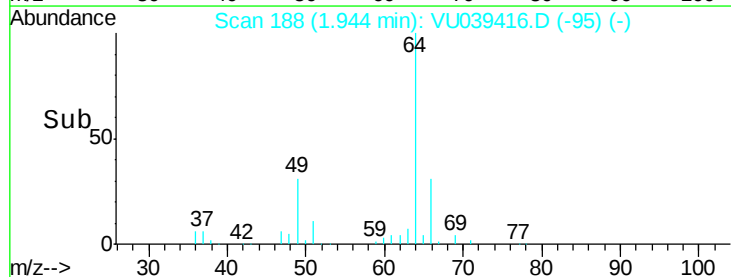
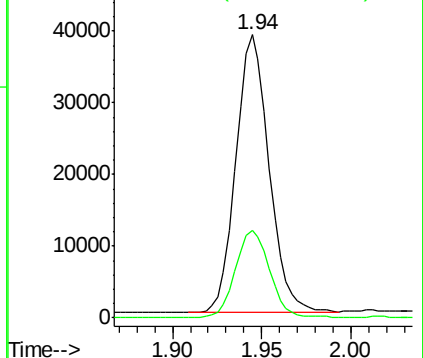
64 100

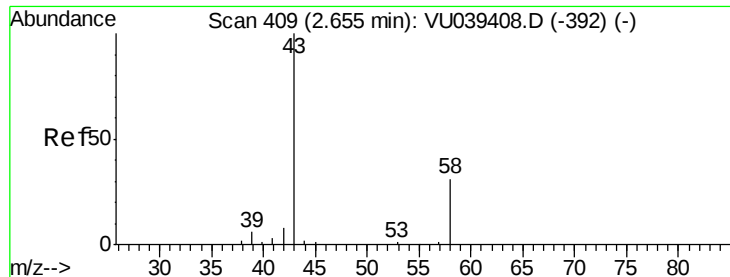
66 30.8 23.5 43.7



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#13

Acetone

Concen: 26.197 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.02 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

Instrument :

MSVOA_U

ClientSampleId :

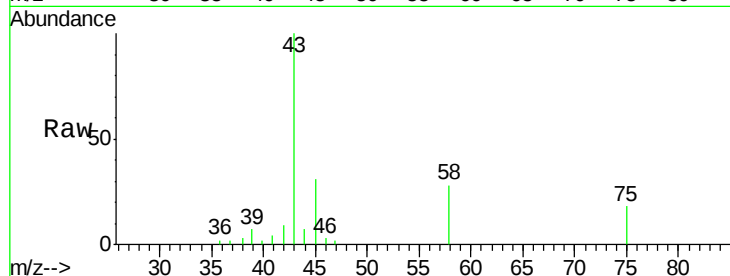
BE503

Tot Ion: 43 Resp: 37526

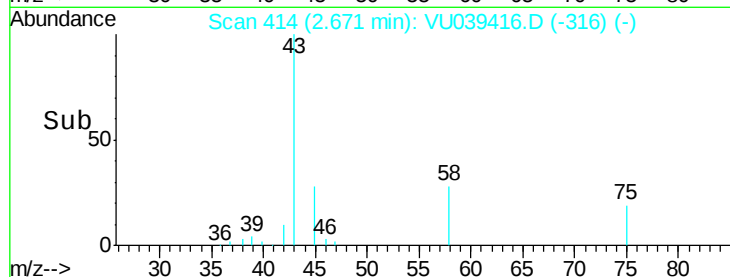
Ion Ratio Lower Upper

43 100

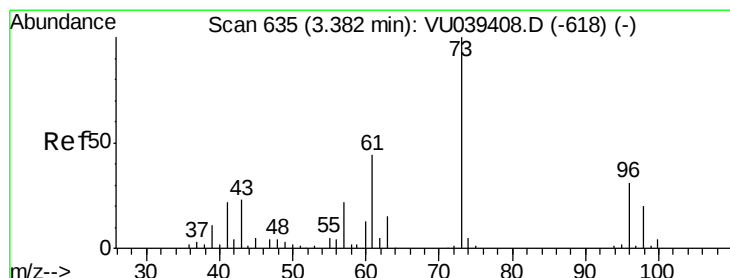
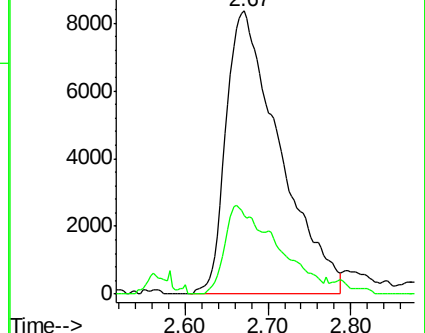
58 30.5 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU039416.D (-316) (-)



Ion 58.05 (57.75 to 58.75): VU039416.D (-316) (-)



#17

Methyl tert-butyl Ether

Concen: 0.362 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

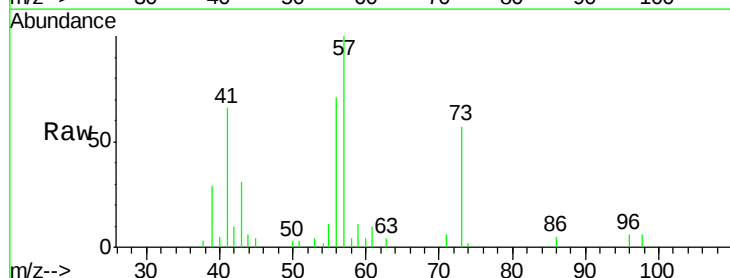
Tgt Ion: 73 Resp: 6783

Ion Ratio Lower Upper

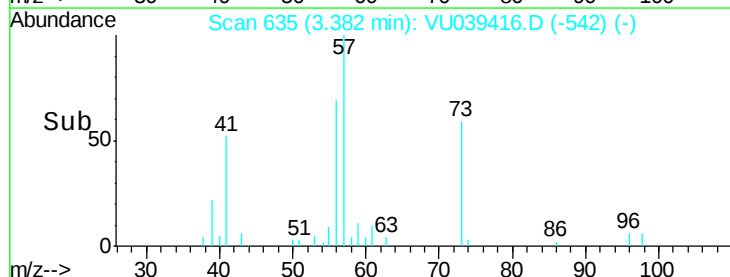
73 100

43 64.2 18.6 28.0#

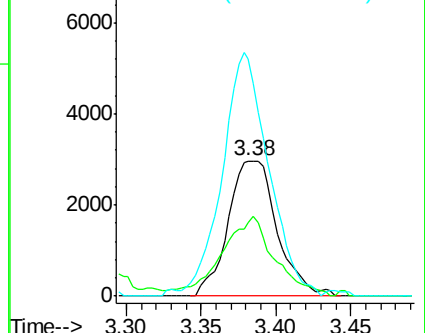
57 171.0 17.9 26.9#

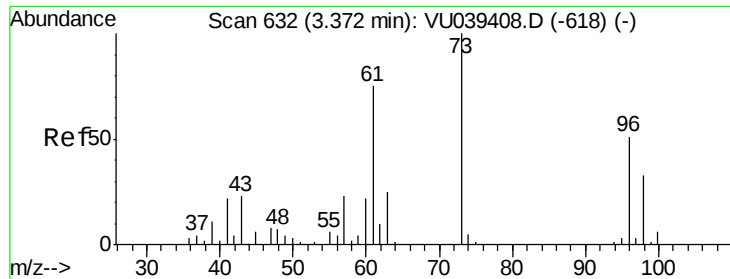


Abundance Ion 73.10 (72.80 to 73.80): VU039416.D (-542) (-)



Ion 43.05 (42.75 to 43.75): VU039416.D (-542) (-)

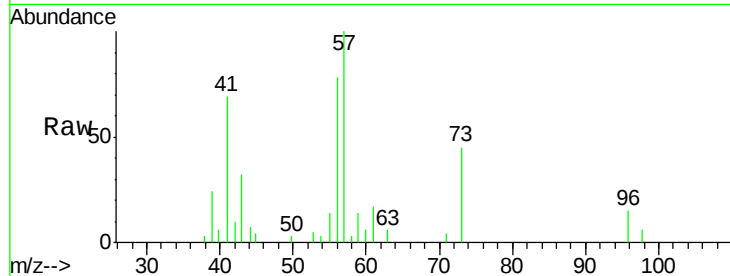




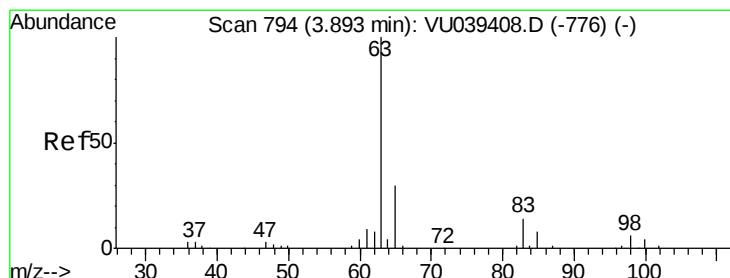
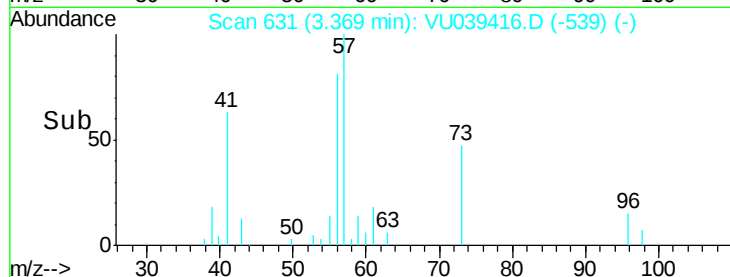
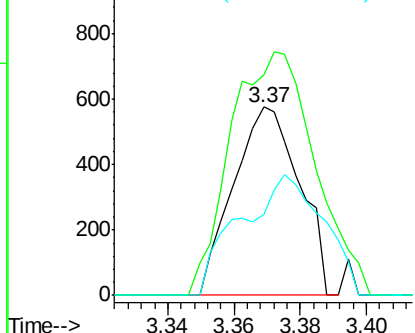
#18
trans-1,2-Dichloroethene
Concen: 0.121 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU039416.D
Acq: 10 Jul 2020 00:20

Instrument :
MSVOA_U
ClientSampleId :
BE503

Tot Ion: 96 Resp: 797
Ion Ratio Lower Upper
96 100
61 117.2 102.1 189.5
98 43.0 42.5 78.9

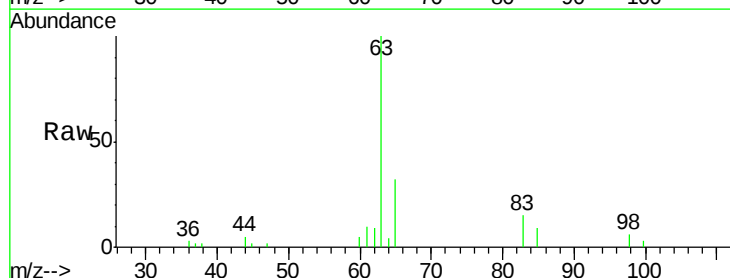


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

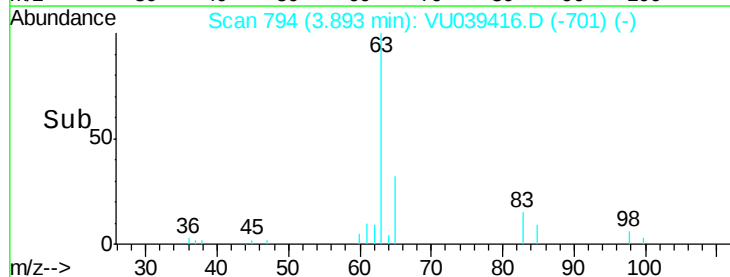
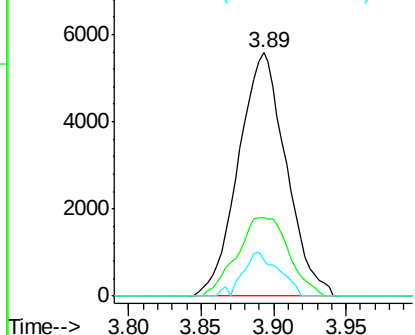


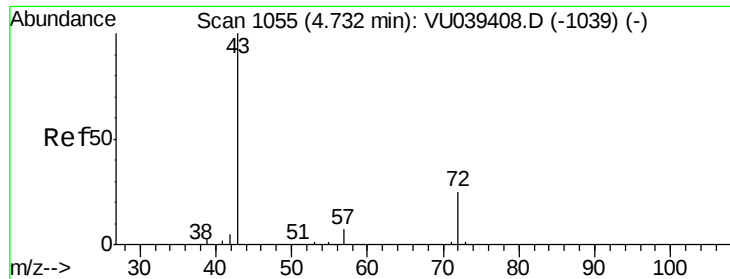
#19
1,1-Dichloroethane
Concen: 0.990 ug/L
RT: 3.89 min Scan# 794
Delta R.T. 0.00 min
Lab File: VU039416.D
Acq: 10 Jul 2020 00:20

Tgt Ion: 63 Resp: 12763
Ion Ratio Lower Upper
63 100
65 32.0 23.0 42.6
83 15.0 9.6 17.8



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

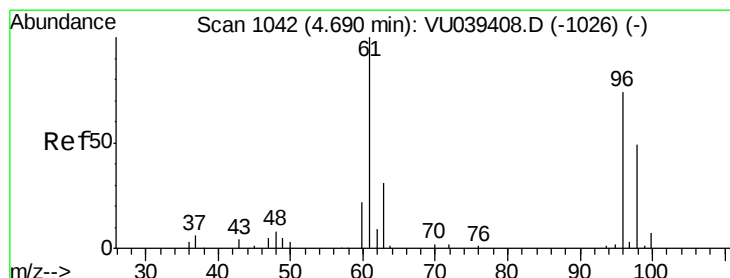
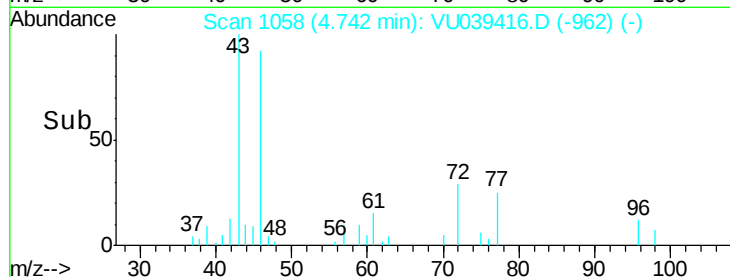
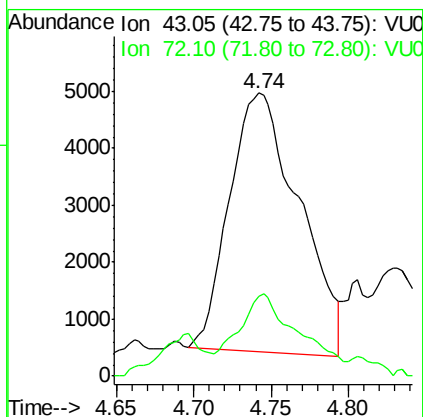
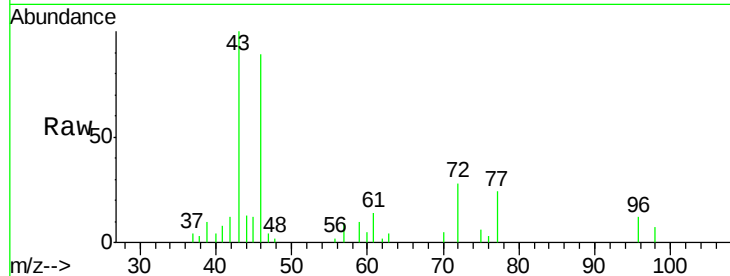




#21
2-Butanone
Concen: 5.602 ug/L
RT: 4.74 min Scan# 1058
Delta R.T. 0.01 min
Lab File: VU039416.D
Acq: 10 Jul 2020 00:20

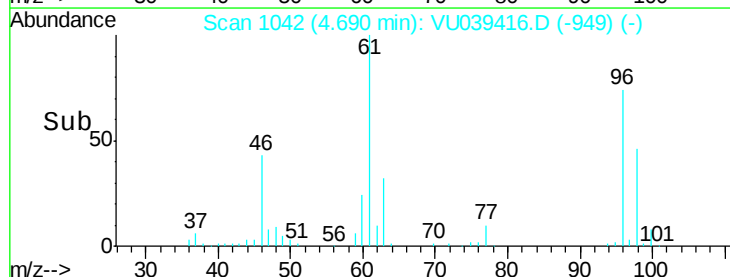
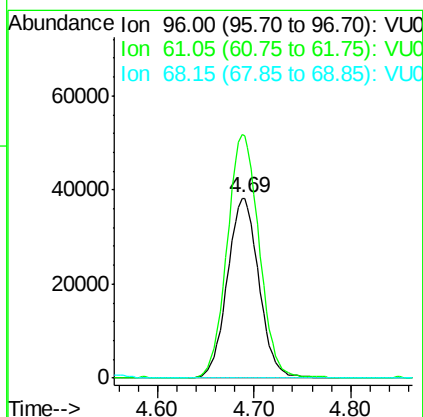
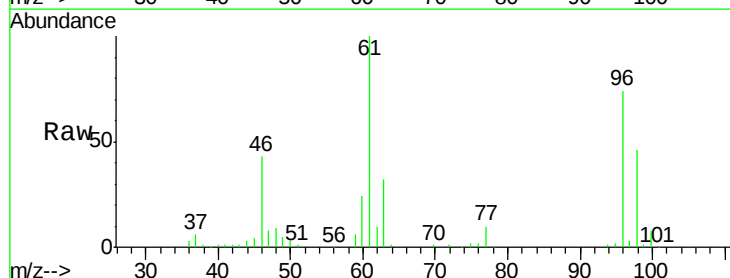
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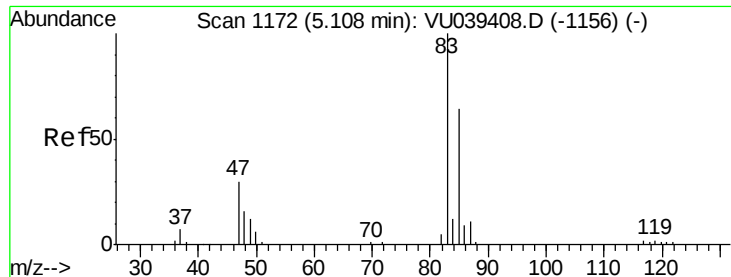
Tot Ion: 43 Resp: 14322
Ion Ratio Lower Upper
43 100
72 28.4 13.2 39.5



#22
cis-1,2-Dichloroethene
Concen: 11.720 ug/L
RT: 4.69 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VU039416.D
Acq: 10 Jul 2020 00:20

Tgt Ion: 96 Resp: 86585
Ion Ratio Lower Upper
96 100
61 134.4 92.8 172.4
68 0.0 0.0 0.0

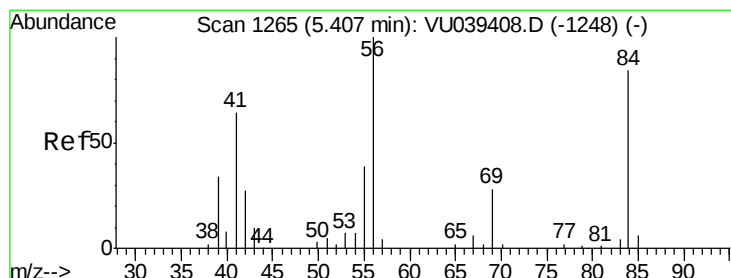
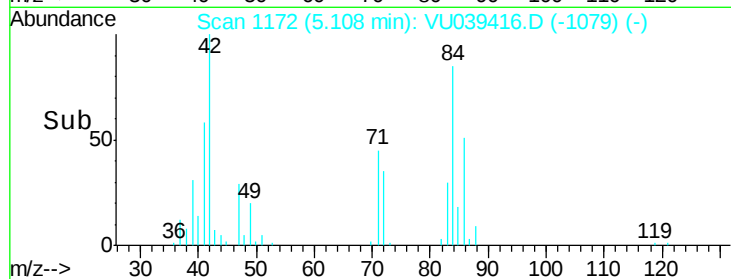
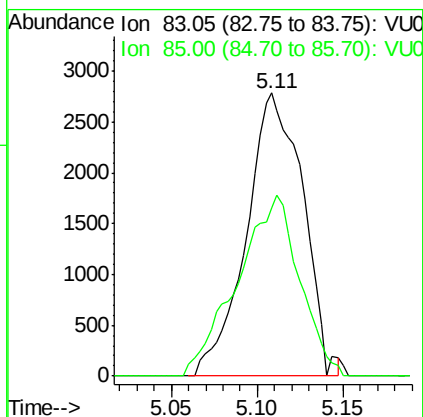
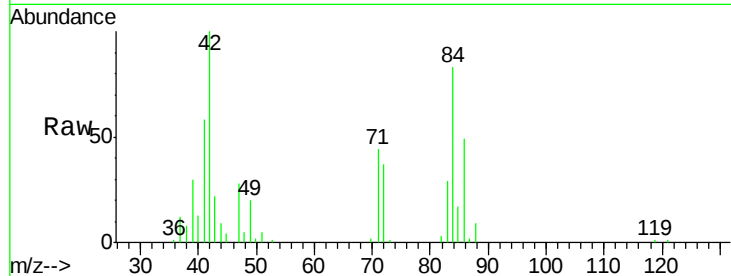




#25
Chloroform
Concen: 0.488 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. -0.00 min
Lab File: VU039416.D
Acq: 10 Jul 2020 00:20

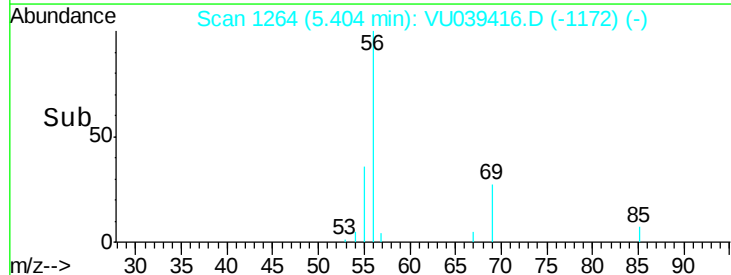
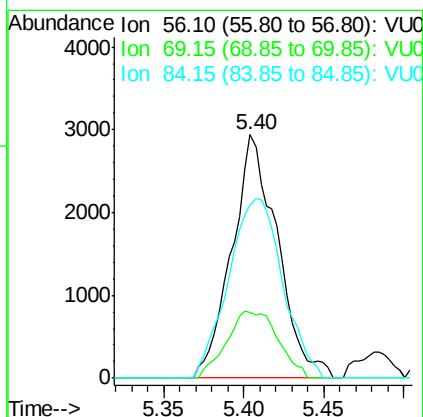
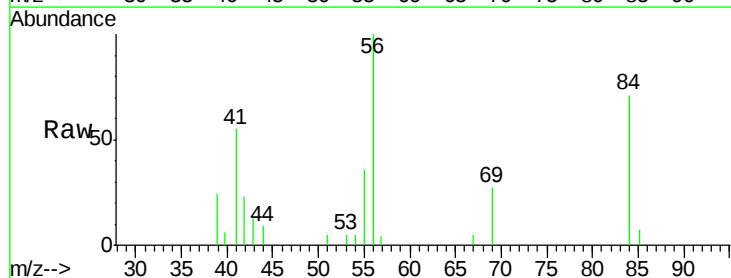
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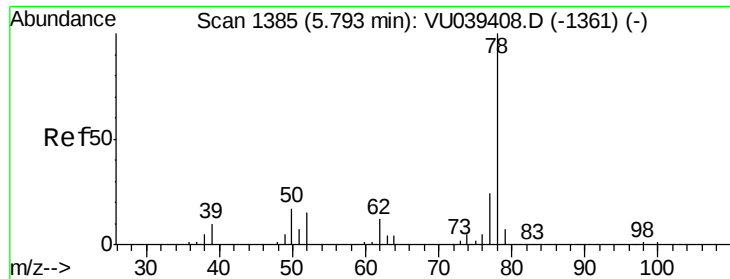
Tot Ion: 83 Resp: 6359
Ion Ratio Lower Upper
83 100
85 59.3 44.9 83.5



#30
Cyclohexane
Concen: 0.473 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VU039416.D
Acq: 10 Jul 2020 00:20

Tgt Ion: 56 Resp: 5721
Ion Ratio Lower Upper
56 100
69 31.0 24.1 36.1
84 87.5 67.0 100.6





#33

Benzene

Concen: 216.553 ug/L

RT: 5.80 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

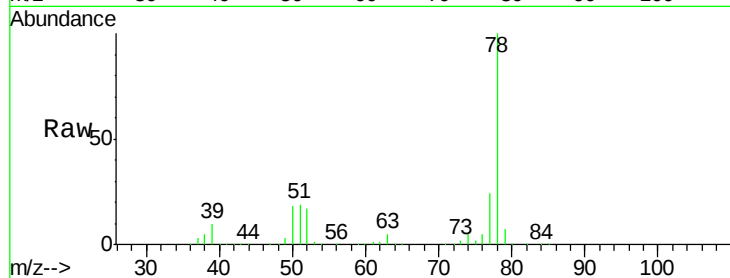
Instrument :

MSVOA_U

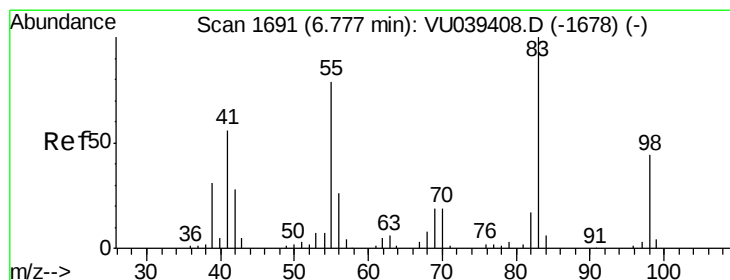
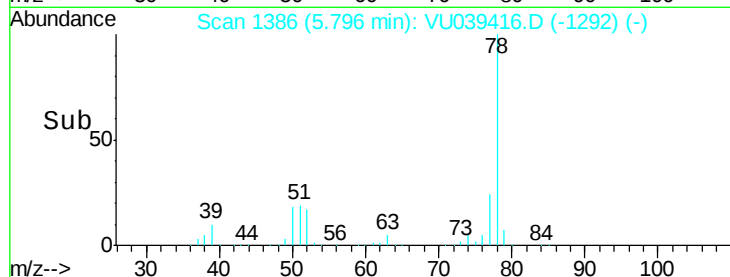
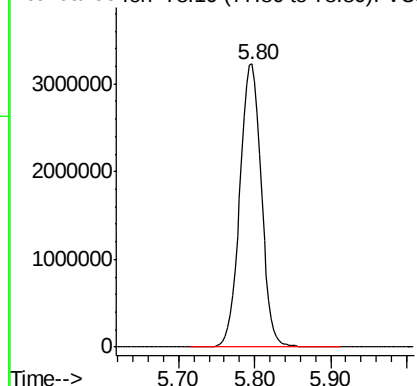
ClientSampleId :

BE503

Tgt Ion: 78 Resp: 6319078



Abundance Ion 78.10 (77.80 to 78.80): VU0



#35

Methylcyclohexane

Concen: 0.425 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

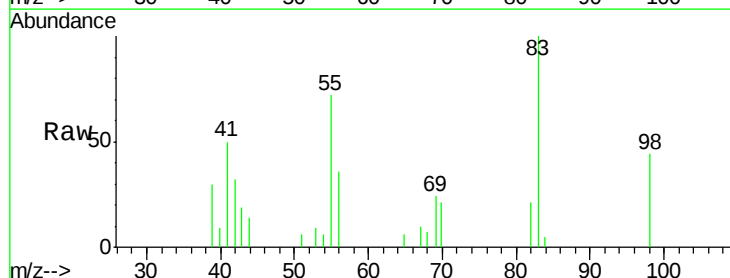
Tgt Ion: 83 Resp: 5138

Ion Ratio Lower Upper

83 100

55 97.0 62.1 93.1#

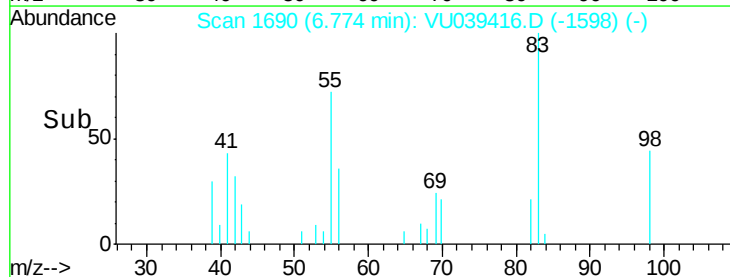
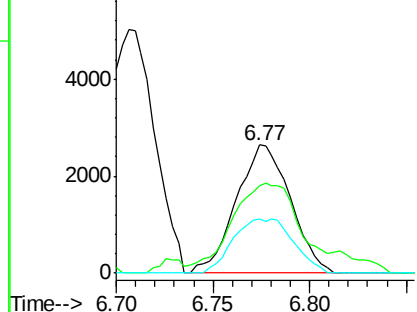
98 46.7 35.9 53.9

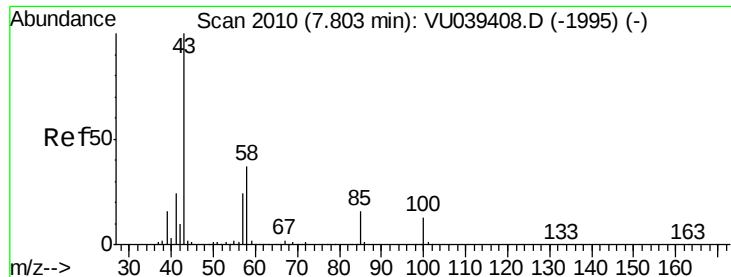


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

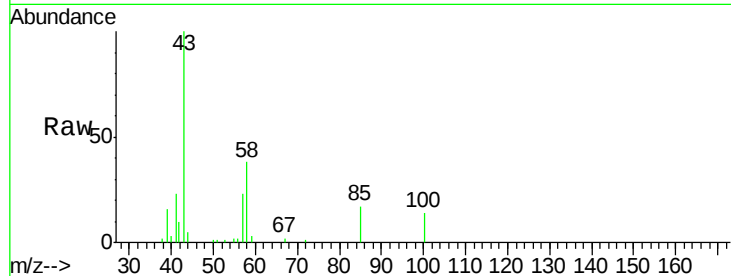




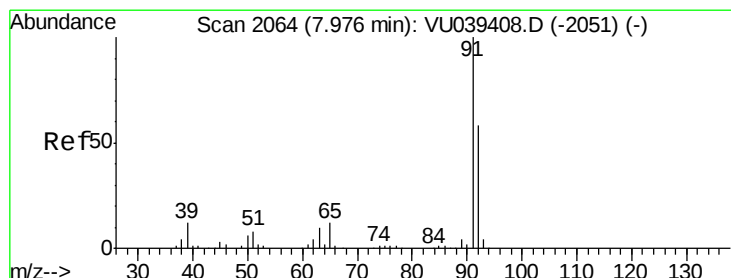
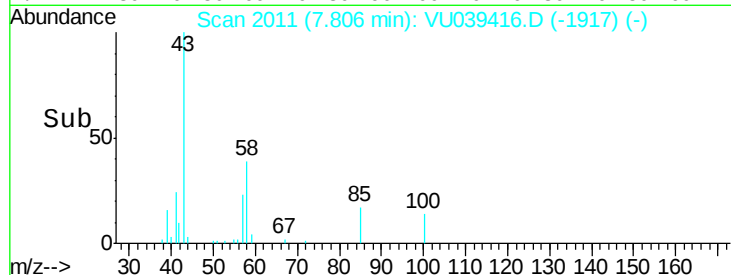
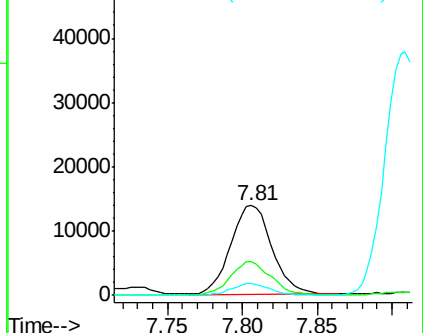
#40
4-Methyl-2-pentanone
Concen: 4.015 ug/L
RT: 7.81 min Scan# 2011
Delta R.T. 0.00 min
Lab File: VU039416.D
Acq: 10 Jul 2020 00:20

Instrument :
MSVOA_U
ClientSampleID :
BE503

Tot Ion: 43 Resp: 26643
Ion Ratio Lower Upper
43 100
58 37.5 30.5 45.7
100 12.3 10.3 15.5

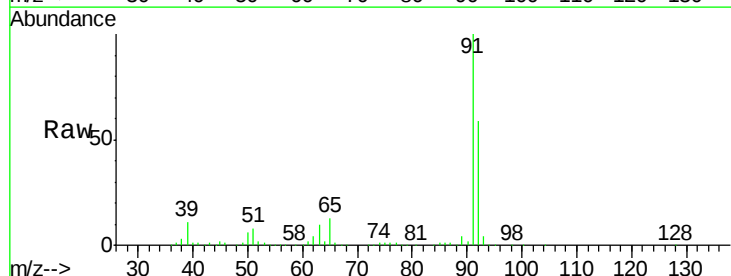


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 100.15 (99.85 to 100.85): VU0

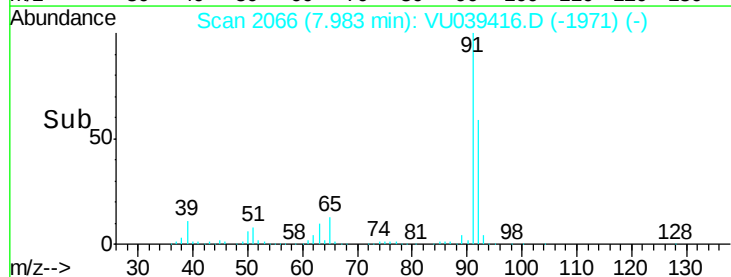
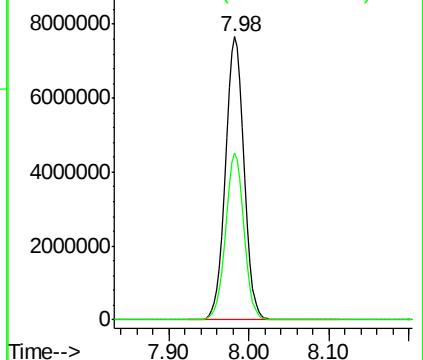


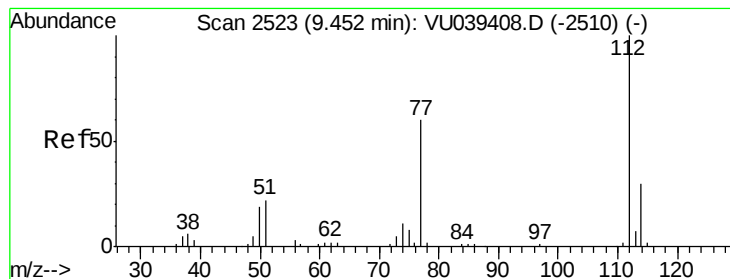
#42
Toluene
Concen: 395.309 ug/L
RT: 7.98 min Scan# 2066
Delta R.T. 0.01 min
Lab File: VU039416.D
Acq: 10 Jul 2020 00:20

Tgt Ion: 91 Resp: 12352325
Ion Ratio Lower Upper
91 100
92 58.9 39.3 73.1



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





#51

Chlorobenzene

Concen: 47.267 ug/L

RT: 9.45 min Scan# 2523

Delta R.T. -0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

Instrument :

MSVOA_U

ClientSampleId :

BE503

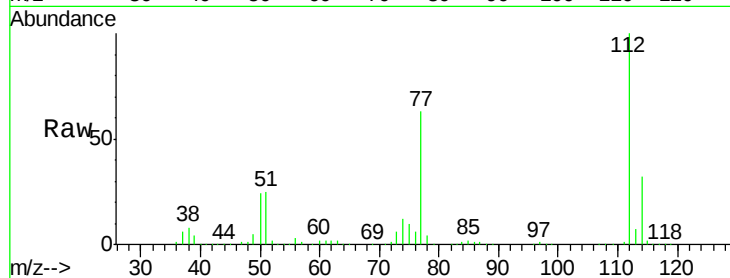
Tot Ion:112 Resp: 902515

Ion Ratio Lower Upper

112 100

114 32.2 22.1 41.1

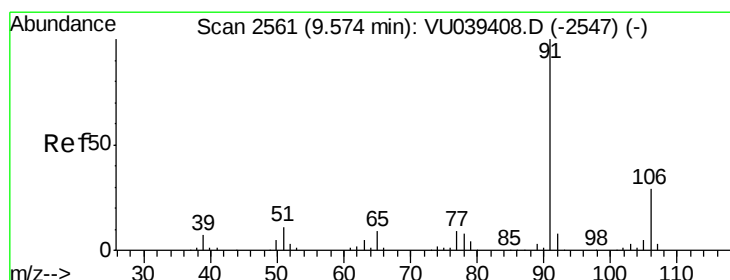
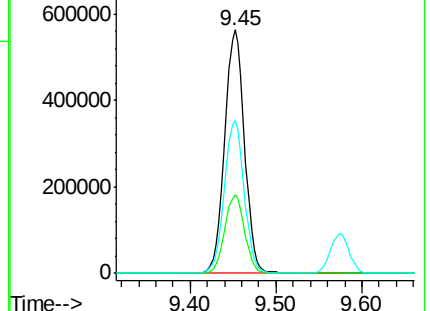
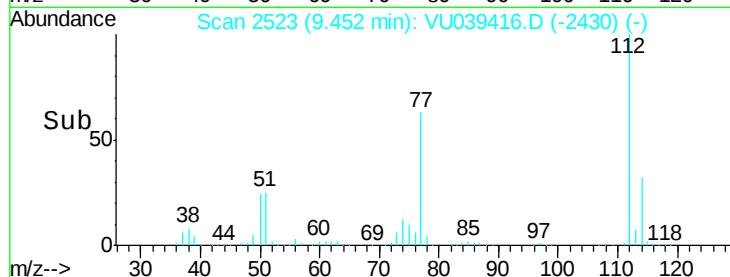
77 63.0 49.9 74.9



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): V



#52

Ethylbenzene

Concen: 44.500 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. -0.00 min

Lab File: VU039416.D

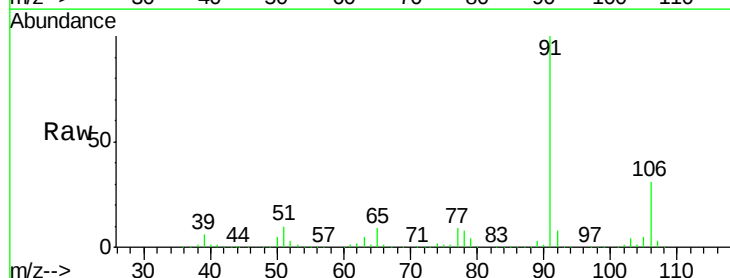
Acq: 10 Jul 2020 00:20

Tgt Ion: 91 Resp: 1536733

Ion Ratio Lower Upper

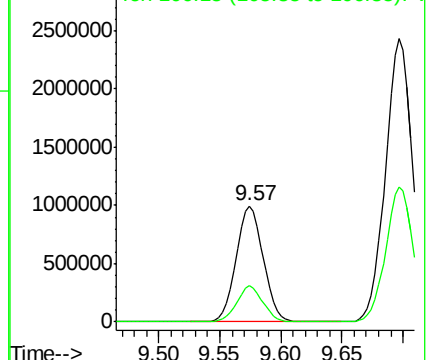
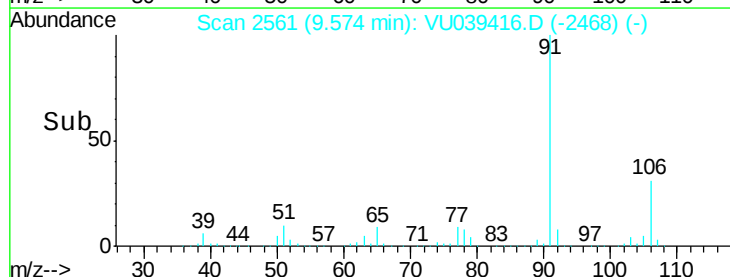
91 100

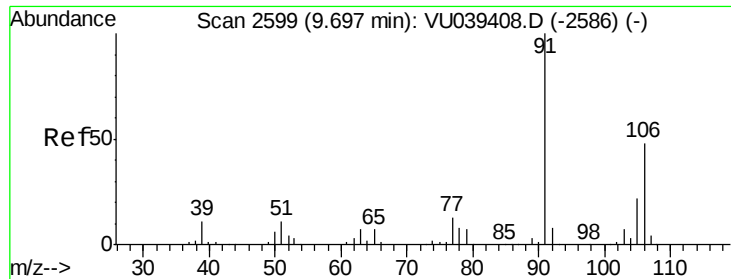
106 30.7 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 139.101 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

Instrument :

MSVOA_U

ClientSampleId :

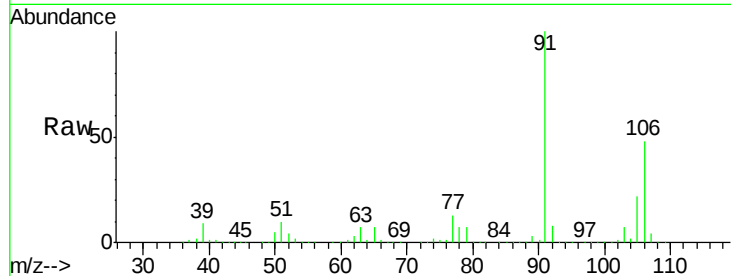
BE503

Tot Ion:106 Resp: 1809951

Ion Ratio Lower Upper

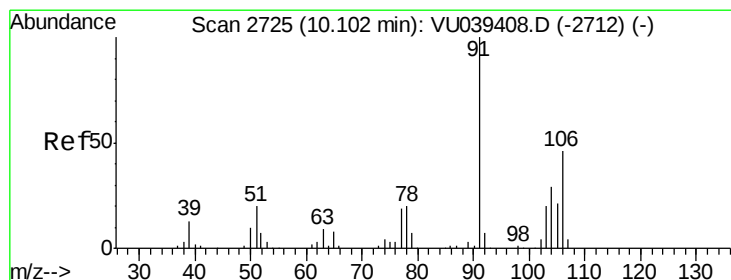
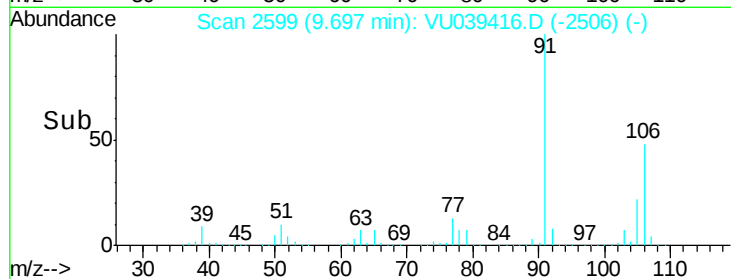
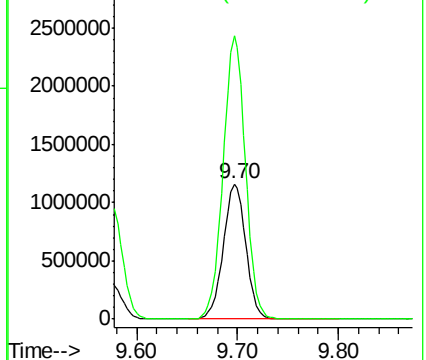
106 100

91 209.6 144.0 267.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 43.457 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU039416.D

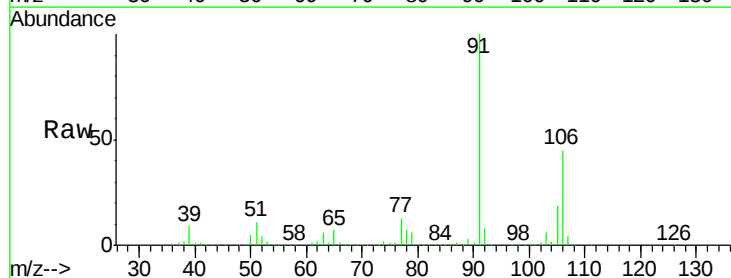
Acq: 10 Jul 2020 00:20

Tgt Ion:106 Resp: 550484

Ion Ratio Lower Upper

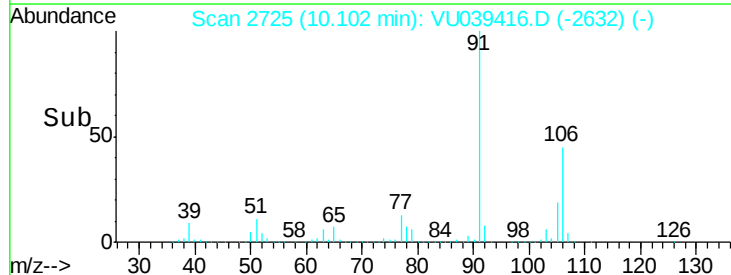
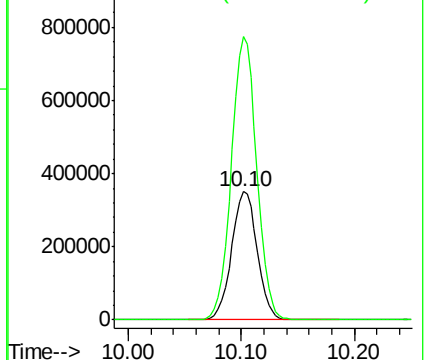
106 100

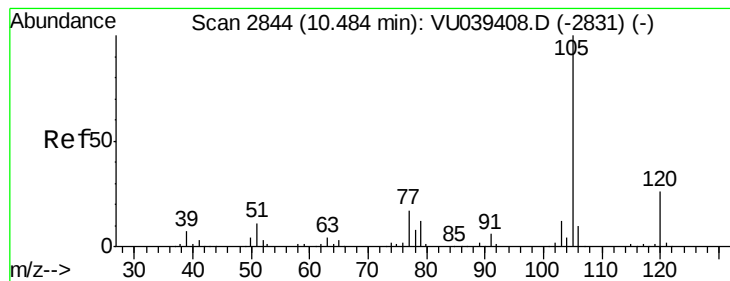
91 221.2 154.6 287.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 7.809 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

Instrument :

MSVOA_U

ClientSampleID :

BE503

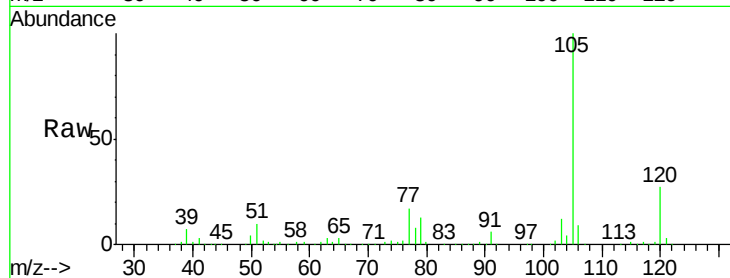
Tot Ion:105 Resp: 267539

Ion Ratio Lower Upper

105 100

120 26.4 20.7 31.1

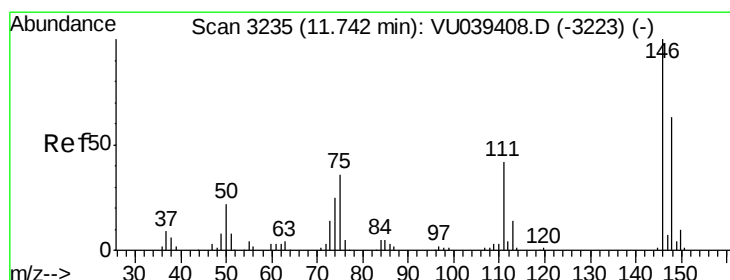
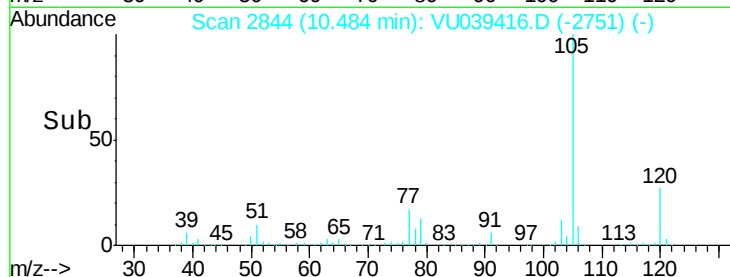
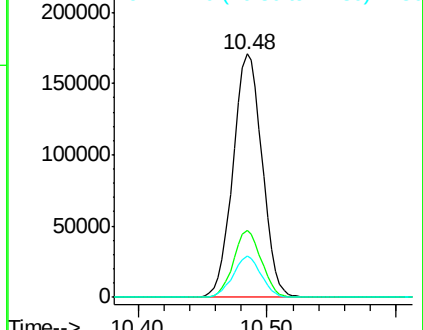
77 16.5 13.9 20.9



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): V



#62

1,3-Dichlorobenzene

Concen: 0.505 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

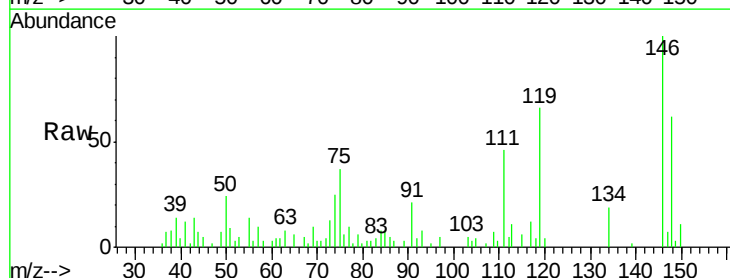
Tgt Ion:146 Resp: 9312

Ion Ratio Lower Upper

146 100

111 45.6 29.0 53.8

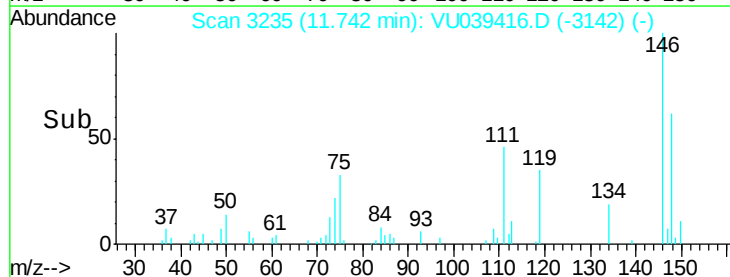
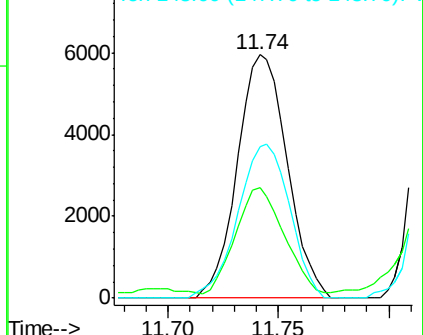
148 62.1 43.5 80.9

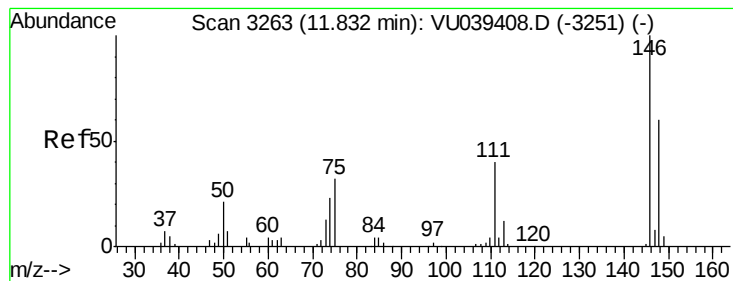


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 3.005 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

Instrument :

MSVOA_U

ClientSampleId :

BE503

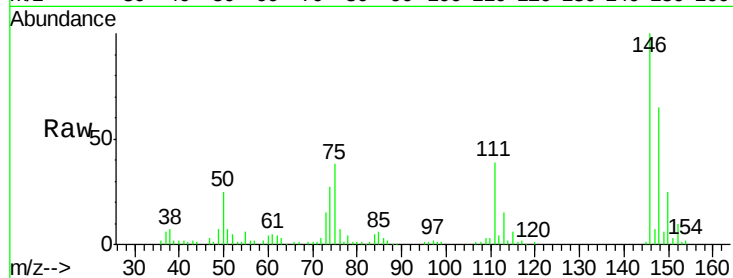
Tot Ion:146 Resp: 55564

Ion Ratio Lower Upper

146 100

111 39.2 28.6 53.0

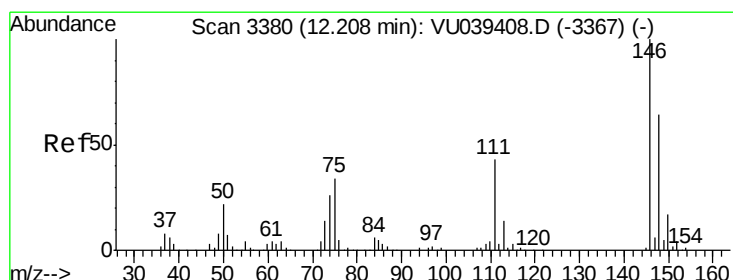
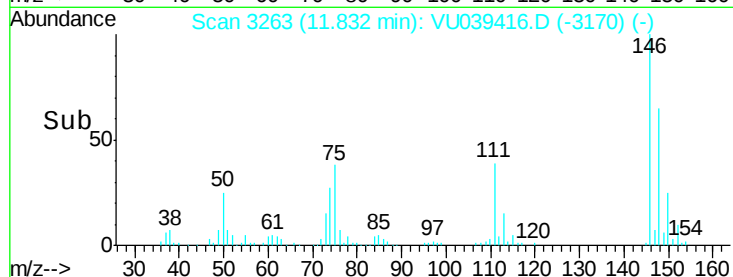
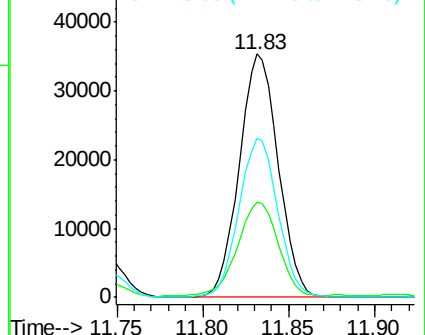
148 65.4 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 3.839 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU039416.D

Acq: 10 Jul 2020 00:20

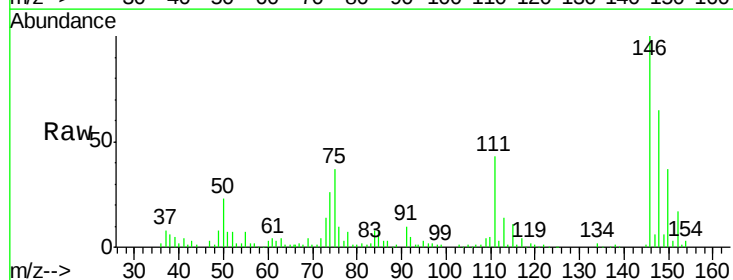
Tgt Ion:146 Resp: 70929

Ion Ratio Lower Upper

146 100

111 42.9 35.0 52.4

148 65.1 50.6 75.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

