

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100520\
 Data File : VU040517.D
 Acq On : 05 Oct 2020 18:13
 Operator : SY/MD
 Sample : L4240-08DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5DL

Manual Integrations
 APPROVED

MMDadoda
 10/8/2020 9:41:03 AM

Quant Time: Oct 06 09:19:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR092920WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 06 07:45:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	121636	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	114901	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	61466	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	29687	4.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.60%
7) Chloroethane-d5	1.92	69	25864	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.20%
11) 1,1-Dichloroethene-d2	2.58	63	46080	3.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.60%
20) 2-Butanone-d5	4.65	46	133295	44.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	89.12%
24) Chloroform-d	5.08	84	65480	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	5.72	65	41458	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.00%
32) Benzene-d6	5.75	84	125302	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.60%
36) 1,2-Dichloropropane-d6	6.70	67	41674	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.60%
41) Toluene-d8	7.91	98	100823	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
43) trans-1,3-Dichloropropene-	8.19	79	16105	4.67	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.40%
46) 2-Hexanone-d5	8.64	63	89855	44.30	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.60%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	36994	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	47710	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.94	64	3336	0.479	ug/L #	62
19) 1,1-Dichloroethane	3.89	63	6994	0.356	ug/L	97
22) cis-1,2-Dichloroethene	4.69	96	1476m	0.139	ug/L	
29) 1,1,1-Trichloroethane	5.34	97	9685	0.617	ug/L	98
30) Cyclohexane	5.41	56	317473	19.552	ug/L	99
35) Methylcyclohexane	6.77	83	7150	0.477	ug/L	93
42) Toluene	7.98	91	39259	0.994	ug/L	96
48) 2-Hexanone	8.69	43	3697	0.597	ug/L #	95
51) Chlorobenzene	9.45	112	2283	0.089	ug/L	94
52) Ethylbenzene	9.57	91	9441	0.220	ug/L	98
53) m,p-Xylene	9.69	106	8613	0.539	ug/L	95
54) o-Xylene	10.11	106	2574	0.171	ug/L	67
56) Isopropylbenzene	10.48	105	21882	0.540	ug/L	99
62) 1,3-Dichlorobenzene	11.74	146	1144	0.056	ug/L #	81
63) 1,4-Dichlorobenzene	11.83	146	4504	0.213	ug/L	95
65) 1,2-Dichlorobenzene	12.20	146	1349	0.068	ug/L #	89
68) 1,2,4-trichlorobenzene	13.83	180	85623	7.335	ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 06 07:45:27 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,3-Trichlorobenzene	14.32	180	17749	1.662	ug/L	98

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

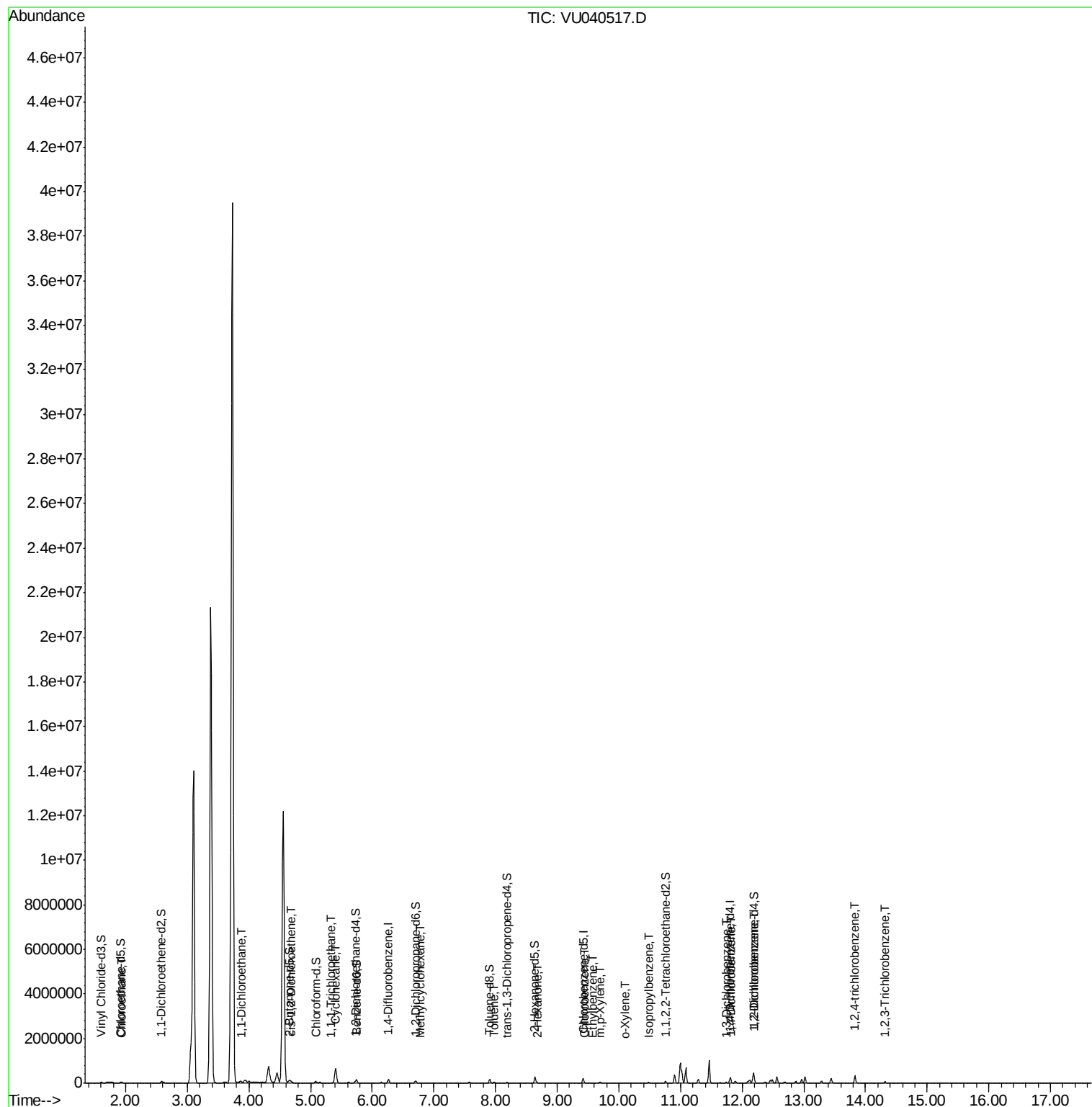
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100520\
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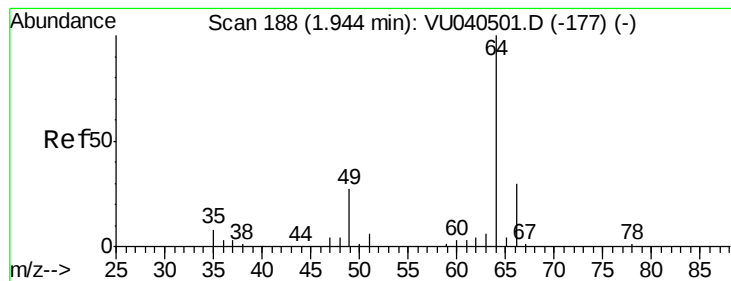
Instrument :
MSVOA_U
ClientSampleId :
BG3S5DL

Manual Integrations
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Quant Time: Oct 06 09:19:45 2020
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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 06 07:45:27 2020
Response via : Initial Calibration





#8

Chloroethane

Concen: 0.479 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Instrument :

MSVOA_U

ClientSampleId :

BG3S5DL

Tot Ion: 64 Resp: 3336

Ion Ratio Lower Upper

64 100

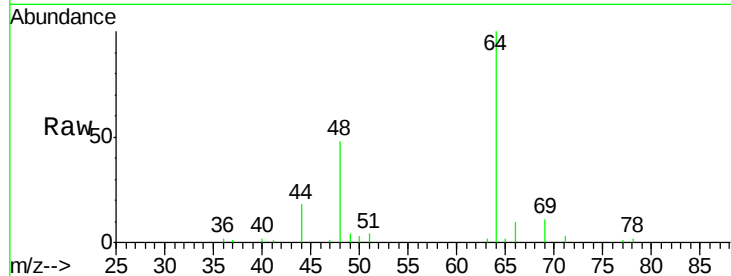
66 9.8 21.3 39.6#

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VU040517.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU040517.D (-177) (-)

12000

10000

8000

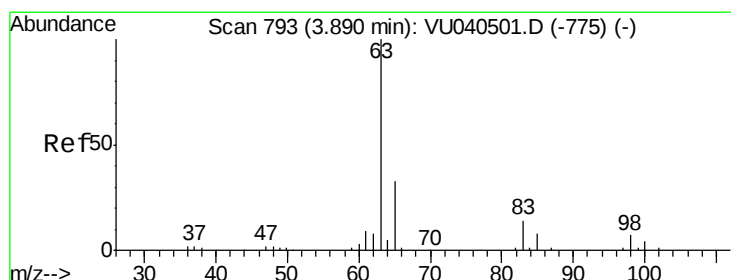
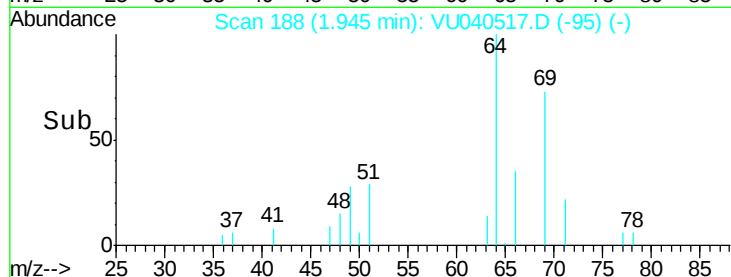
6000

4000

2000

0

Time-->



#19

1,1-Dichloroethane

Concen: 0.356 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

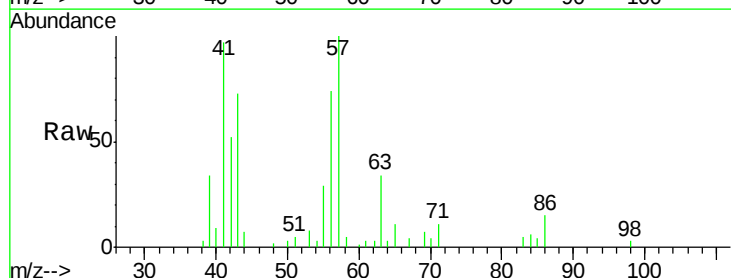
Tgt Ion: 63 Resp: 6994

Ion Ratio Lower Upper

63 100

65 31.5 21.7 40.3

83 16.0 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU040517.D (-775) (-)

Ion 65.10 (64.80 to 65.80): VU040517.D (-775) (-)

Ion 83.05 (82.75 to 83.75): VU040517.D (-775) (-)

3000

2500

2000

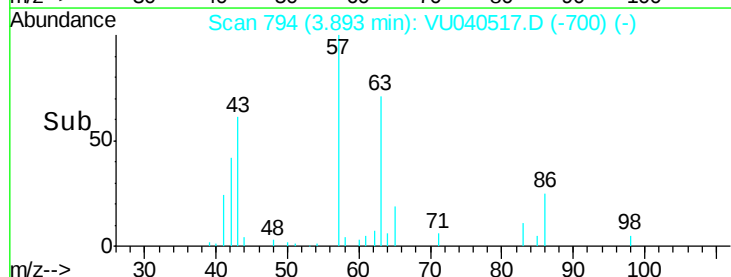
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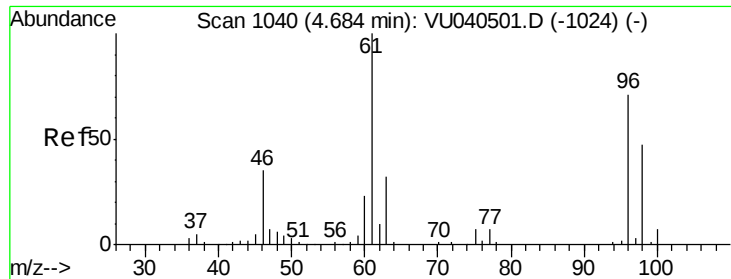
1000

500

0

Time-->





#22

cis-1,2-Dichloroethene

Concen: 0.139 ug/L m

RT: 4.69 min Scan# 1042

Delta R.T. 0.01 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Instrument :

MSVOA_U

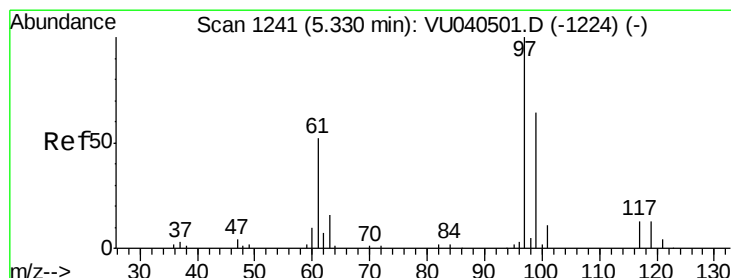
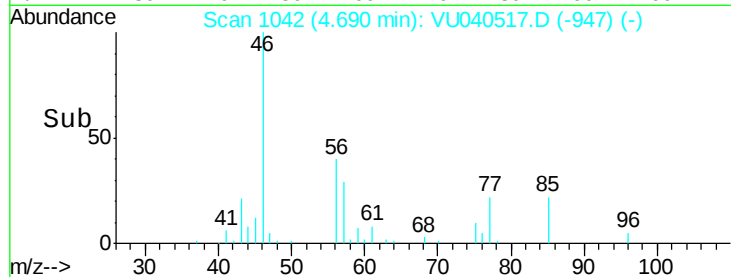
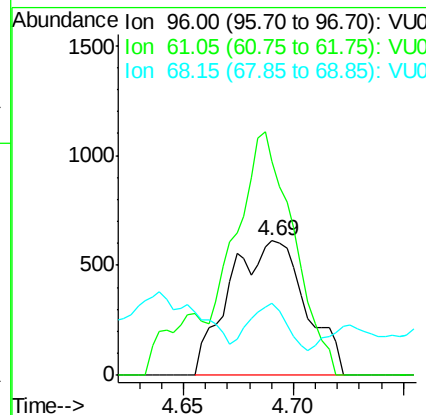
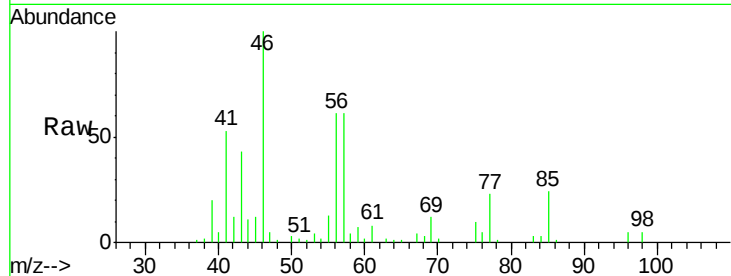
ClientSampled :

BG3S5DL

Tot Ion:	96	Resp:	1476
Ion	Ratio	Lower	Upper
96	100		
61	159.1	99.3	184.5
68	53.4	0.0	0.0#

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#29

1,1,1-Trichloroethane

Concen: 0.617 ug/L

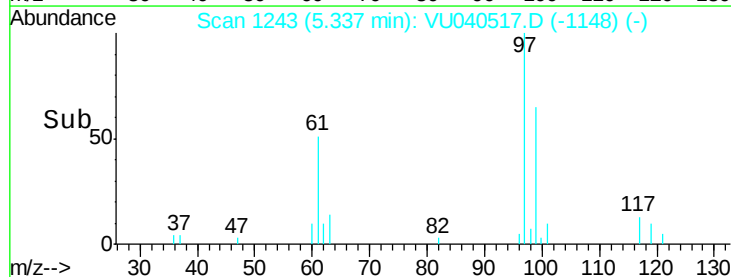
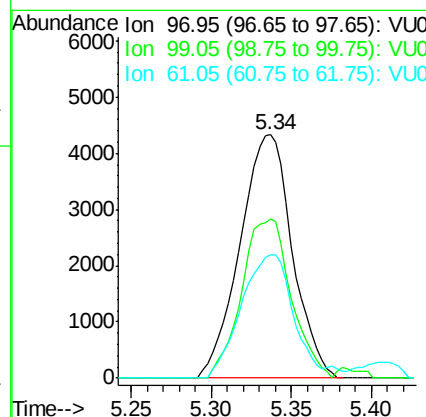
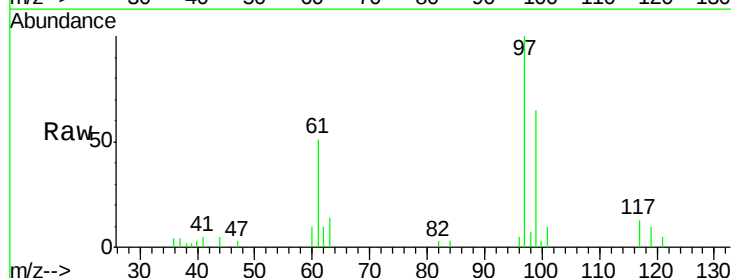
RT: 5.34 min Scan# 1243

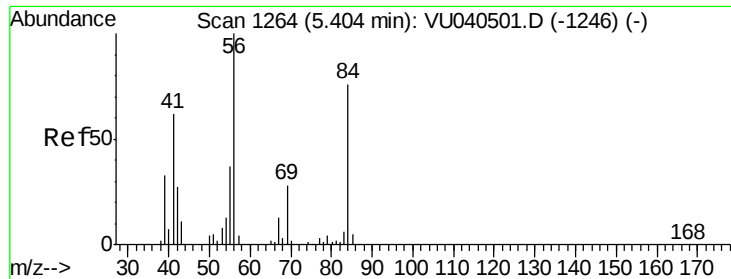
Delta R.T. 0.01 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Tgt Ion:	97	Resp:	9685
Ion	Ratio	Lower	Upper
97	100		
99	61.7	50.7	76.1
61	51.3	39.7	59.5





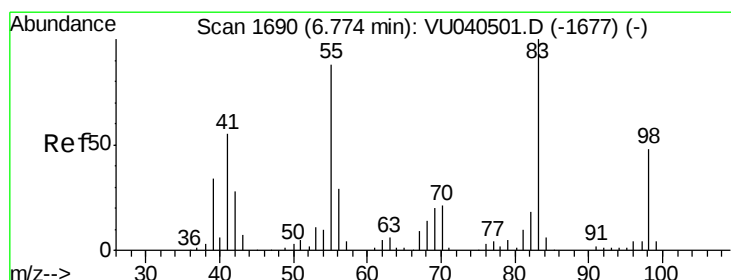
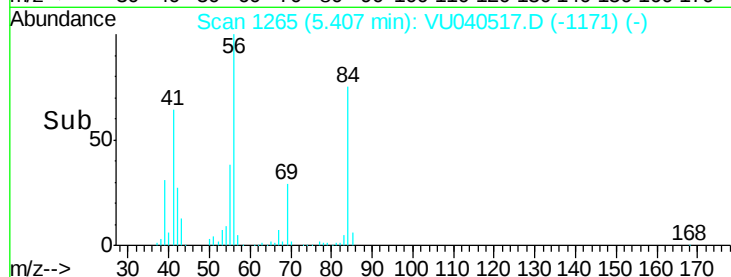
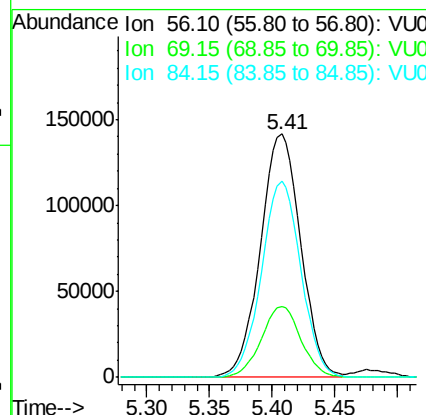
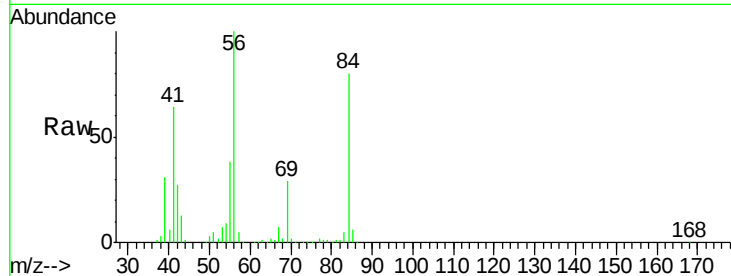
#30
Cyclohexane
Concen: 19.552 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU040517.D
Acq: 05 Oct 2020 18:13

Instrument :
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BG3S5DL

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.7	23.3	34.9
84	78.7	64.2	96.4

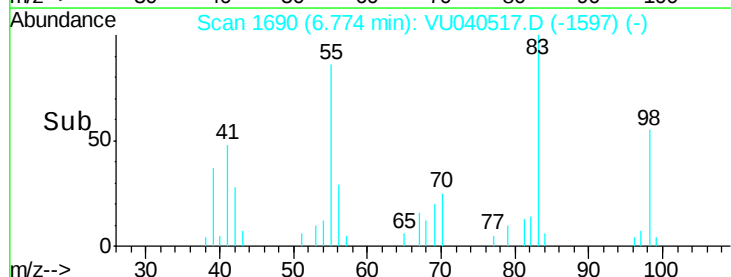
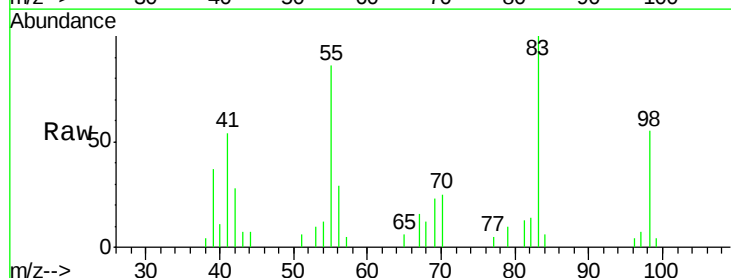
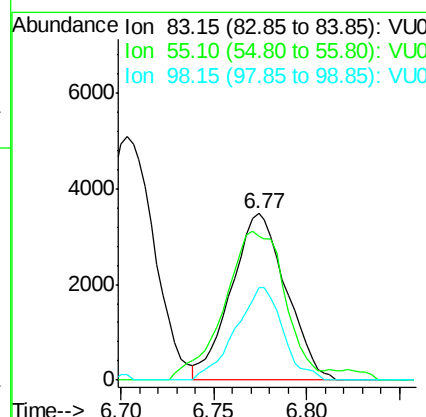
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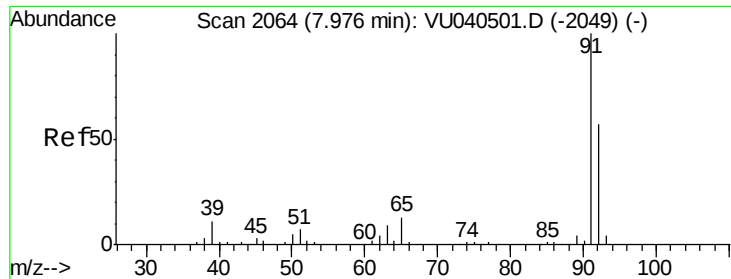
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10/8/2020 9:41:03 AM



#35
Methylcyclohexane
Concen: 0.477 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU040517.D
Acq: 05 Oct 2020 18:13

Tgt Ion	Ratio	Lower	Upper
83	100		
55	98.7	71.4	107.2
98	47.9	38.5	57.7





#42

Toluene

Concen: 0.994 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Instrument :

MSVOA_U

ClientSampled :

BG3S5DL

Tot Ion: 91 Resp: 39259

Ion Ratio Lower Upper

91 100

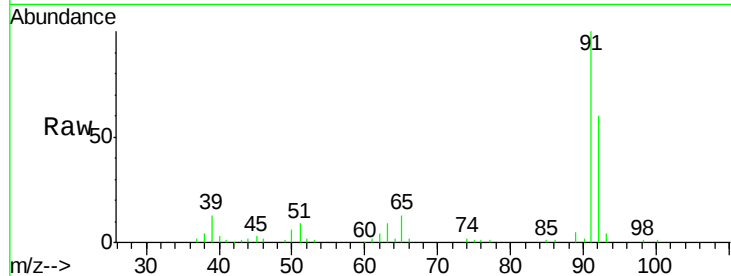
92 60.0 40.0 74.4

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Abundance Ion 91.15 (90.85 to 91.85): VU040517.D (-2193) (-)

Ion 92.15 (91.85 to 92.85): VU040517.D (-2193) (-)

7.98

25000

20000

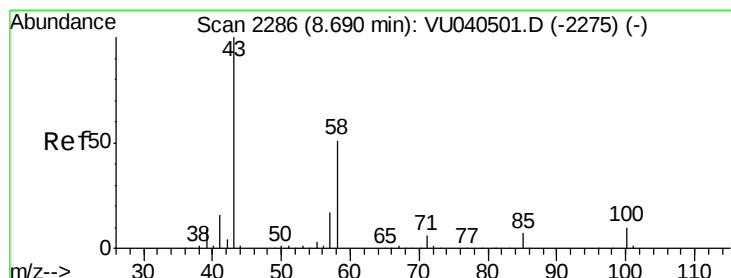
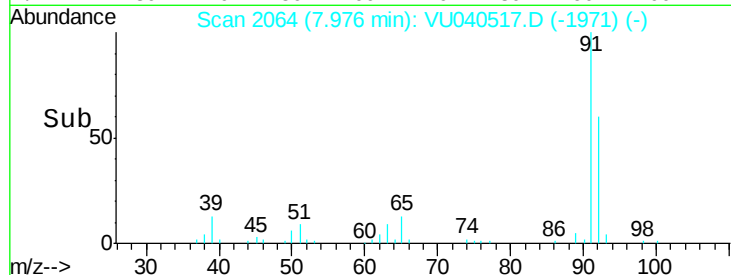
15000

10000

5000

0

Time-->



#48

2-Hexanone

Concen: 0.597 ug/L

RT: 8.69 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Tgt Ion: 43 Resp: 3697

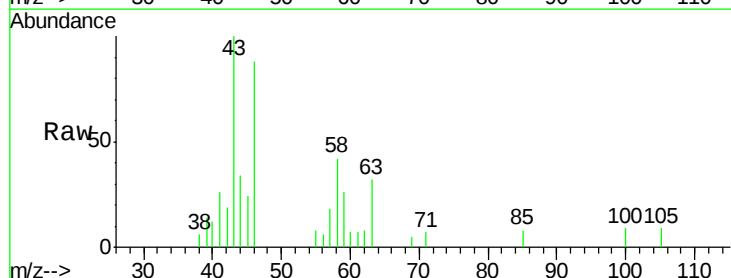
Ion Ratio Lower Upper

43 100

58 47.5 41.0 61.4

57 17.0 14.6 22.0

100 8.2 8.2 12.4#



Abundance Ion 43.05 (42.75 to 43.75): VU040517.D (-2193) (-)

Ion 58.05 (57.75 to 58.75): VU040517.D (-2193) (-)

Ion 57.20 (56.90 to 57.90): VU040517.D (-2193) (-)

Ion 100.15 (99.85 to 100.85): VU040517.D (-2193) (-)

8.69

10000

8000

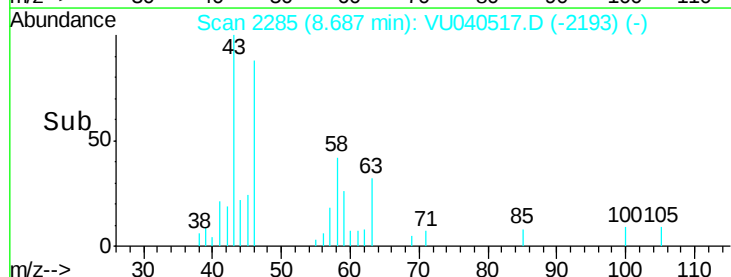
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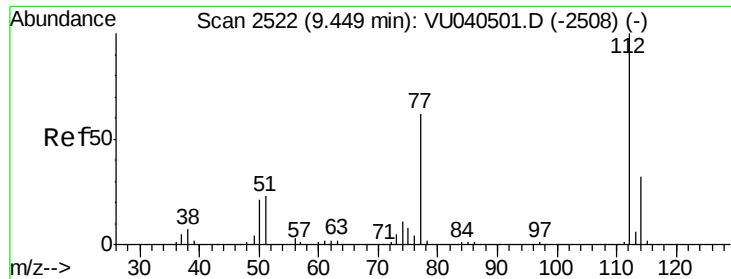
4000

2000

0

Time-->





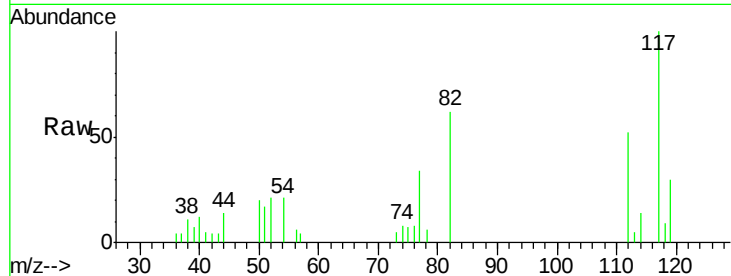
#51
Chlorobenzene
Concen: 0.089 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU040517.D
Acq: 05 Oct 2020 18:13

Instrument :
MSVOA_U
ClientSampleId :
BG3S5DL

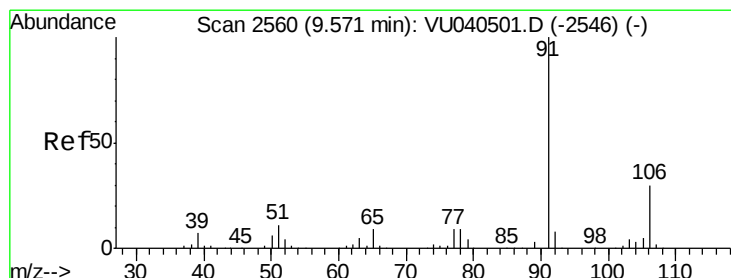
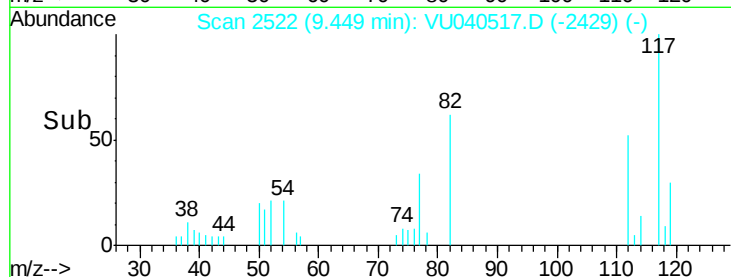
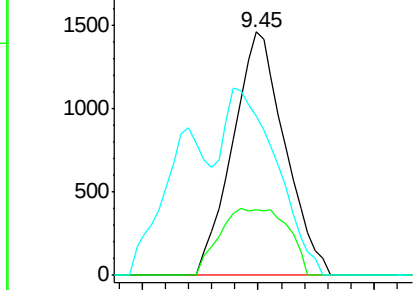
Tot Ion	Ratio	Lower	Upper
112	100		
114	26.9	22.0	40.8
77	65.3	49.5	74.3

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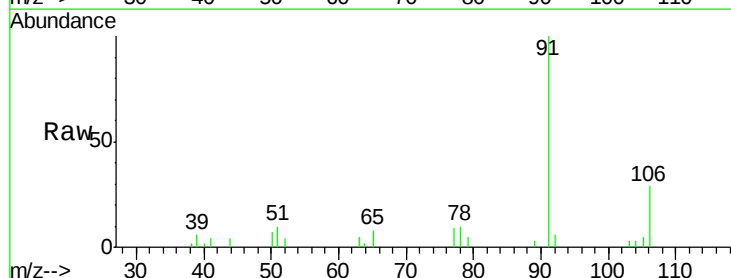


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

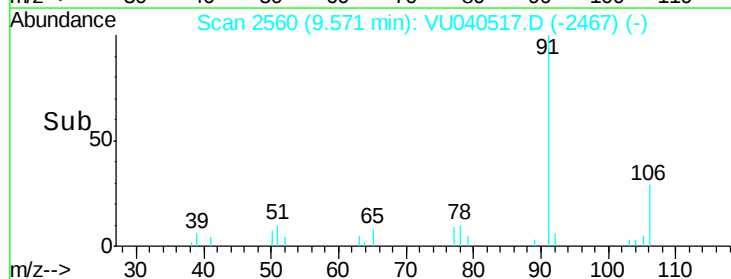
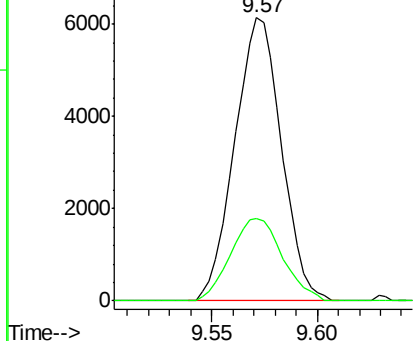


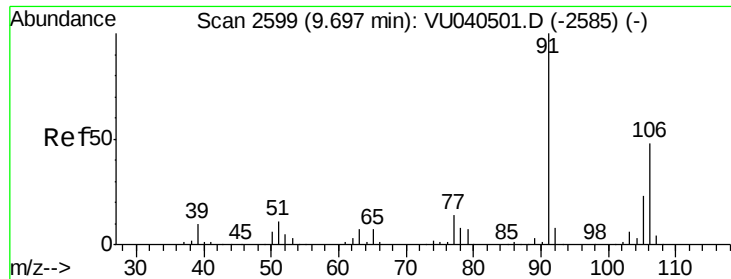
#52
Ethylbenzene
Concen: 0.220 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040517.D
Acq: 05 Oct 2020 18:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.1	21.1	39.3



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.539 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Instrument :

MSVOA_U

ClientSampleId :

BG3S5DL

Tot Ion:106 Resp: 8613

Ion Ratio Lower Upper

106 100

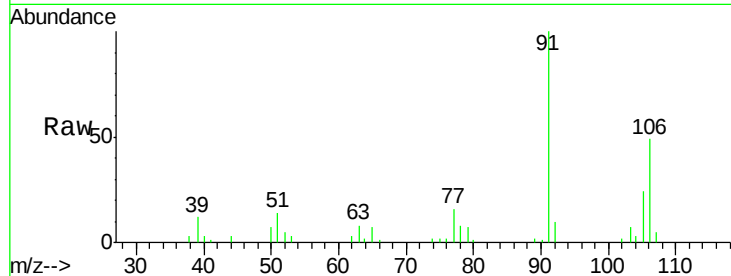
91 204.7 149.0 276.6

Manual Integrations

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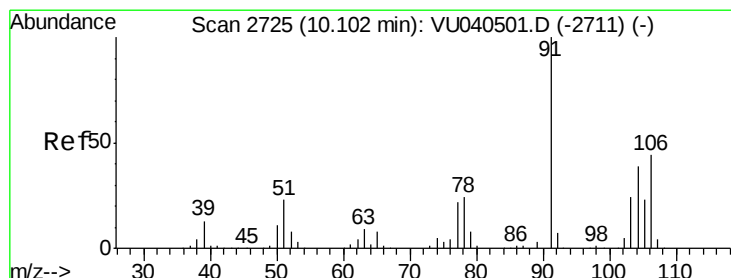
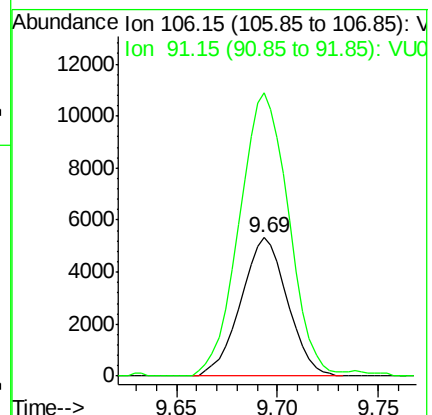
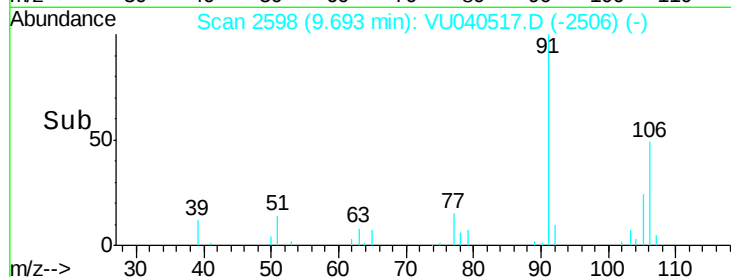
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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.171 ug/L

RT: 10.11 min Scan# 2726

Delta R.T. 0.00 min

Lab File: VU040517.D

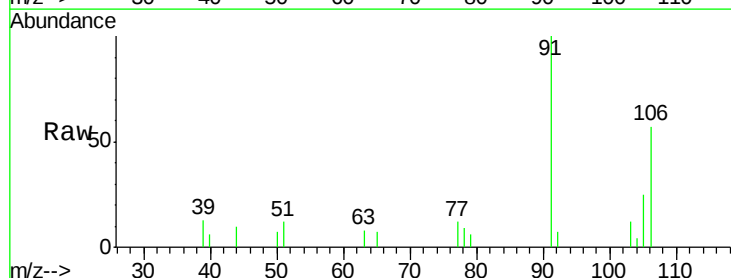
Acq: 05 Oct 2020 18:13

Tgt Ion:106 Resp: 2574

Ion Ratio Lower Upper

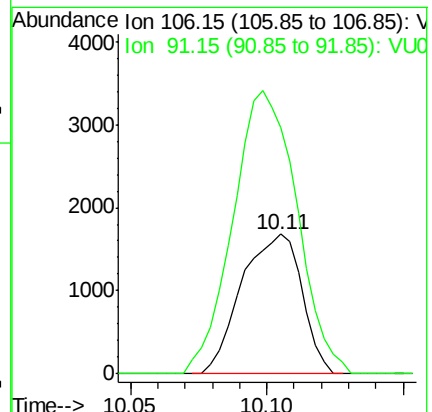
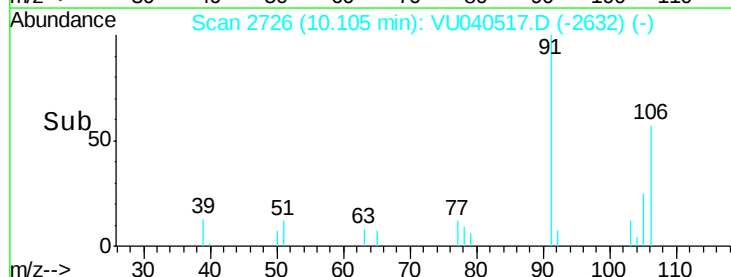
106 100

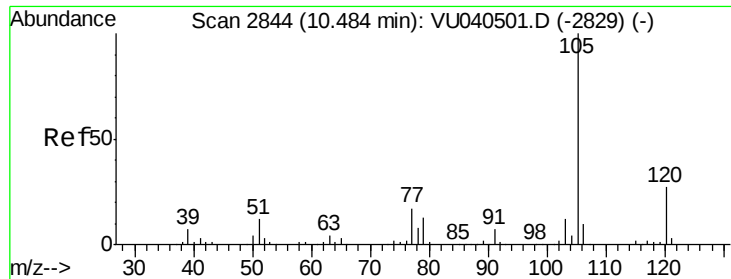
91 176.1 160.9 298.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 0.540 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Instrument :

MSVOA_U

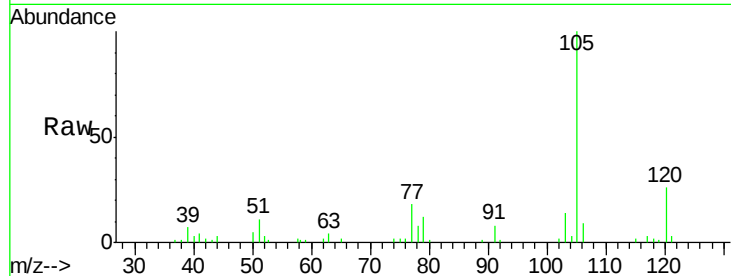
ClientSampleId :

BG3S5DL

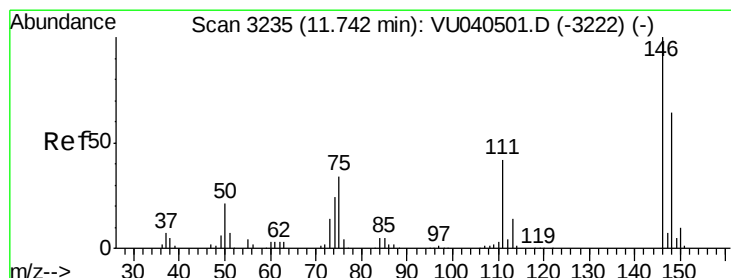
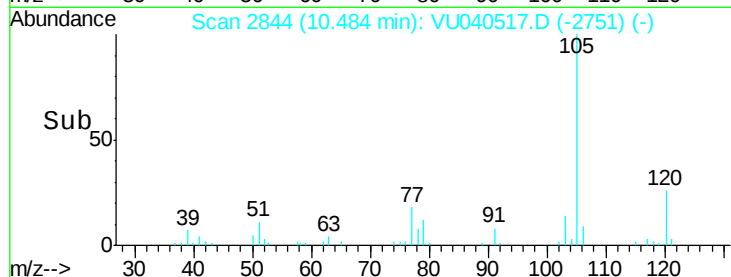
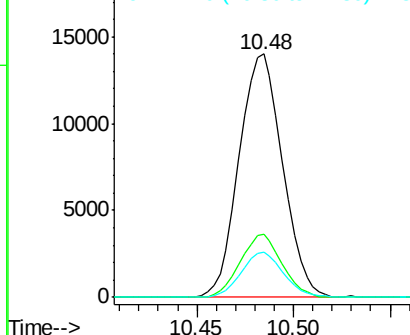
Tot Ion:	105	Resp:	21882
Ion Ratio	Lower	Upper	
105	100		
120	24.7	20.6	30.8
77	18.0	14.3	21.5

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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: 0.056 ug/L

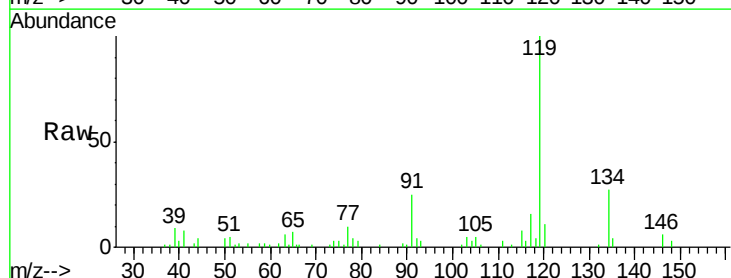
RT: 11.74 min Scan# 3234

Delta R.T. -0.00 min

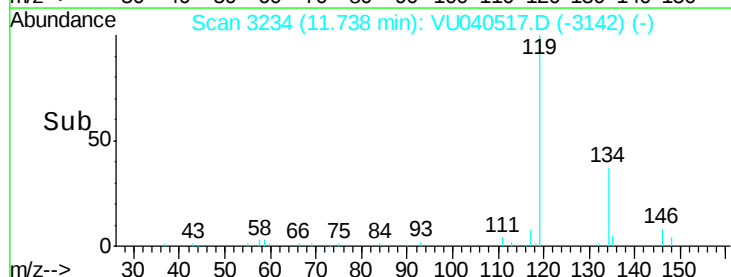
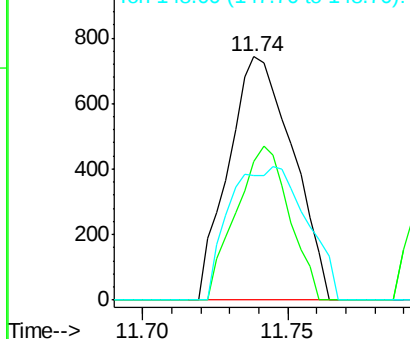
Lab File: VU040517.D

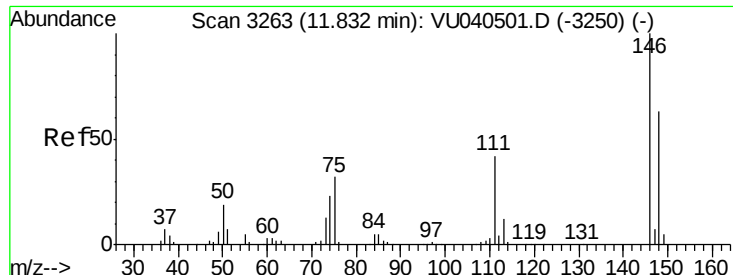
Acq: 05 Oct 2020 18:13

Tgt Ion:	146	Resp:	1144
Ion Ratio	Lower	Upper	
146	100		
111	57.1	28.6	53.0#
148	51.1	43.4	80.6



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





#63

1,4-Dichlorobenzene

Concen: 0.213 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Instrument :

MSVOA_U

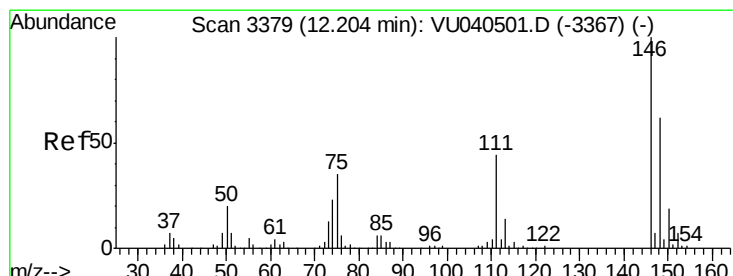
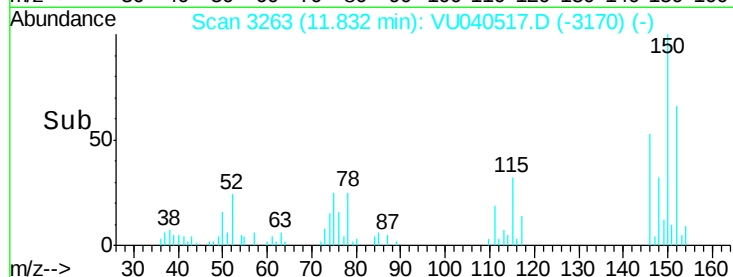
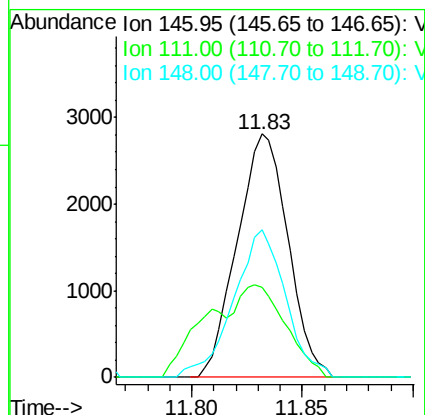
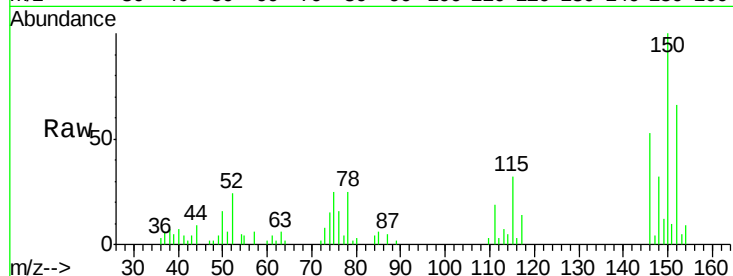
ClientSampleId :

BG3S5DL

Tot Ion:	146	Resp:	4504
Ion	Ratio	Lower	Upper
146	100		
111	37.0	29.2	54.2
148	60.7	44.4	82.4

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#65

1,2-Dichlorobenzene

Concen: 0.068 ug/L

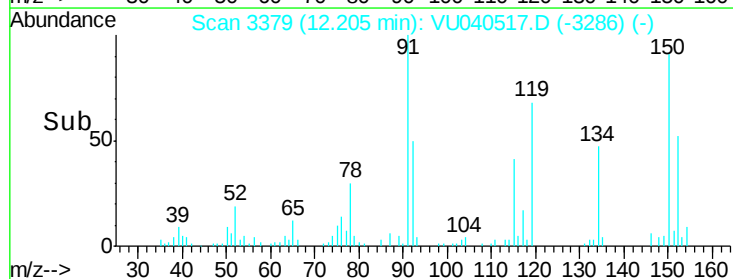
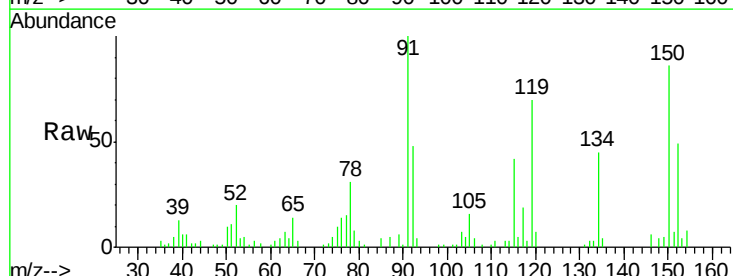
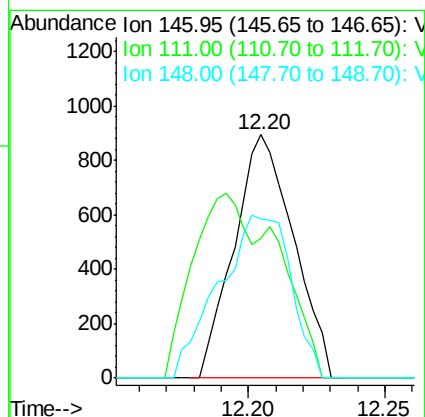
RT: 12.20 min Scan# 3379

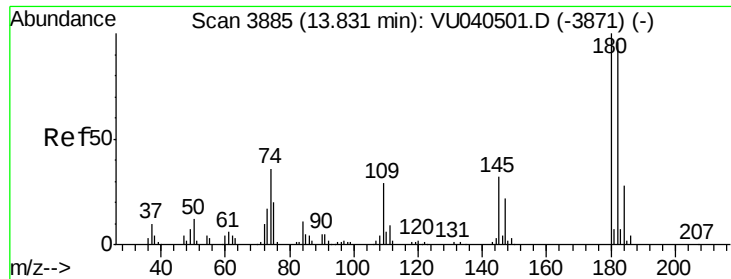
Delta R.T. 0.00 min

Lab File: VU040517.D

Acq: 05 Oct 2020 18:13

Tgt Ion:	146	Resp:	1349
Ion	Ratio	Lower	Upper
146	100		
111	57.4	35.6	53.4#
148	65.3	49.8	74.6





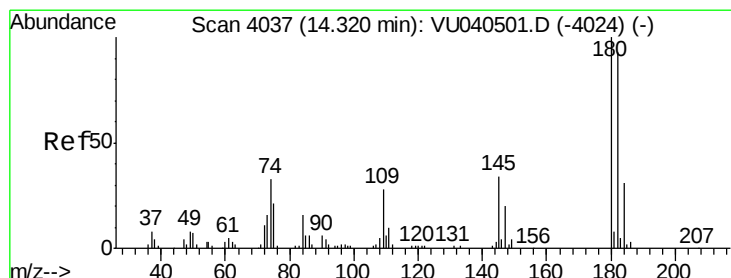
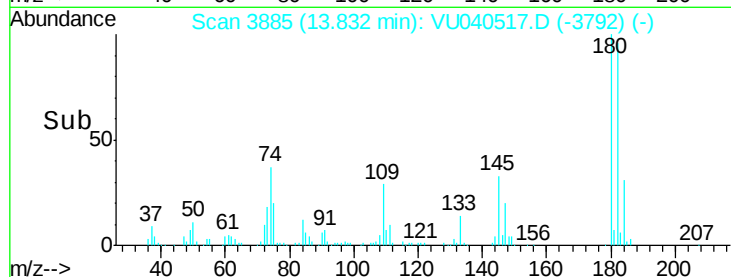
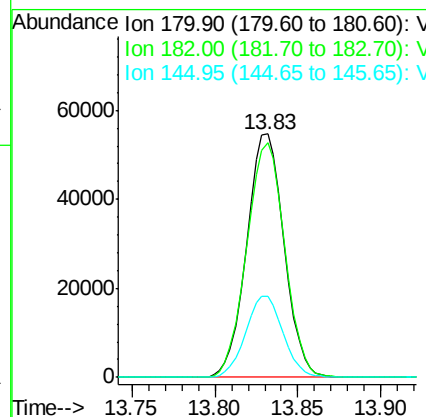
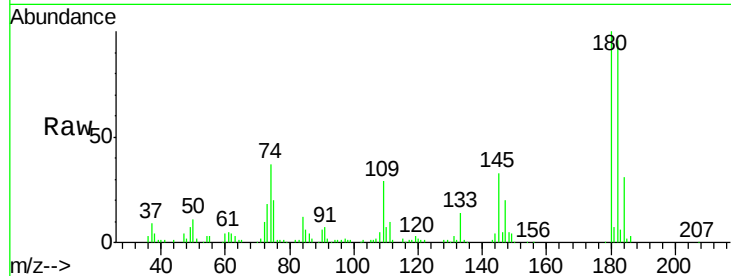
#68
 1,2,4-trichlorobenzene
 Concen: 7.335 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU040517.D
 Acq: 05 Oct 2020 18:13

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.1	76.6	115.0
145	33.7	26.3	39.5

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#70
 1,2,3-Trichlorobenzene
 Concen: 1.662 ug/L
 RT: 14.32 min Scan# 4037
 Delta R.T. 0.00 min
 Lab File: VU040517.D
 Acq: 05 Oct 2020 18:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.8	76.6	115.0
145	35.4	27.8	41.6

