

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
 Data File : VU037773.D
 Acq On : 17 Apr 2020 14:15
 Operator : JC/MD
 Sample : L2296-06
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS92

Manual Integrations
 APPROVED

MMDadoda
 4/20/2020 10:56:24 AM

Quant Time: Apr 18 03:00:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 18 01:19:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	274351	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	262251	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	129742	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	86123	4.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.00%
7) Chloroethane-d5	1.93	69	78630	4.49	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.80%
11) 1,1-Dichloroethene-d2	2.59	63	120345	3.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.20%
20) 2-Butanone-d5	4.66	46	285579	50.09	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.18%
24) Chloroform-d	5.10	84	152507	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.74	65	93064	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.76	84	326173	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
36) 1,2-Dichloropropane-d6	6.72	67	110469	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.92	98	295661	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
43) trans-1,3-Dichloropropene-	8.20	79	46601	4.50	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.00%
46) 2-Hexanone-d5	8.65	63	247468	46.67	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.34%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	85558	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.00%
64) 1,2-Dichlorobenzene-d4	12.21	152	108049	4.67	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	48382	1.674	ug/L	92
12) 1,1-Dichloroethene	2.60	96	6810	0.360	ug/L	# 1
13) Acetone	2.66	43	3476	0.925	ug/L	83
18) trans-1,2-Dichloroethene	3.39	96	5076	0.247	ug/L	99
19) 1,1-Dichloroethane	3.91	63	137976	3.475	ug/L	100
22) cis-1,2-Dichloroethene	4.71	96	193976	8.746	ug/L	96
25) Chloroform	5.13	83	78845	2.091	ug/L	100
27) 1,2-Dichloroethane	5.83	62	13963	0.548	ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	46898	1.474	ug/L	99
30) Cyclohexane	5.42	56	9729	0.247	ug/L	98
33) Benzene	5.81	78	31533m	0.364	ug/L	
34) Trichloroethene	6.57	95	9412	0.442	ug/L	96
45) 1,1,2-Trichloroethane	8.42	97	6065	0.392	ug/L	90
51) Chlorobenzene	9.47	112	55924	1.010	ug/L	98
54) o-Xylene	10.12	106	5146	0.137	ug/L	82
62) 1,3-Dichlorobenzene	11.76	146	6979	0.161	ug/L	92
63) 1,4-Dichlorobenzene	11.85	146	10309	0.237	ug/L	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
Data File : VU037773.D
Acq On : 17 Apr 2020 14:15
Operator : JC/MD
Sample : L2296-06
Misc : 25mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFS92

Manual Integrations
APPROVED

MMDadoda
4/20/2020 10:56:24 AM

Quant Time: Apr 18 03:00:09 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 18 01:19:54 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	12.22	146	4785	0.117	ug/L	95
68) 1,2,4-trichlorobenzene	13.87	180	5417	0.185	ug/L	94
70) 1,2,3-Trichlorobenzene	14.36	180	3914	0.150	ug/L	95

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

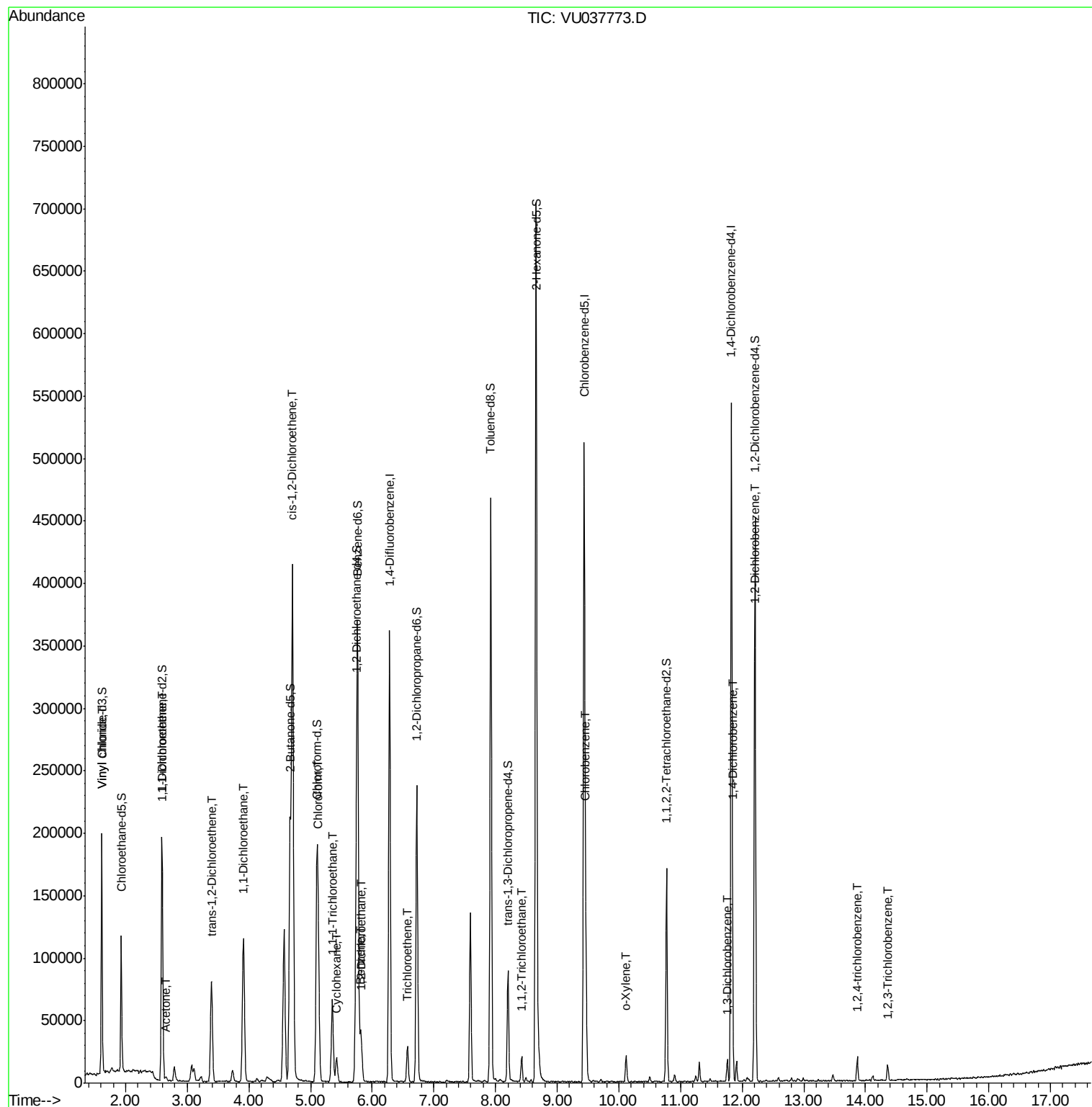
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041720\
Data File : VU037773.D
Acq On : 17 Apr 2020 14:15
Operator : JC/MD
Sample : L2296-06
Misc : 25mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

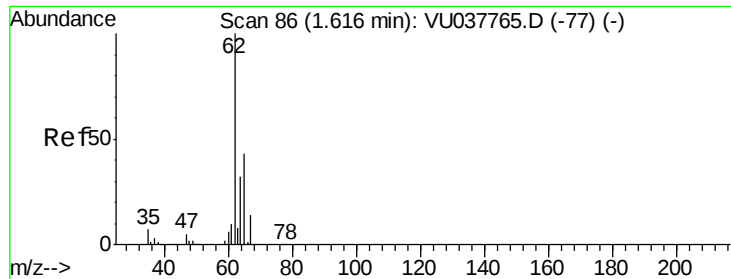
Instrument :
MSVOA_U
ClientSampleId :
BFS92

Manual Integrations
APPROVED

MMDadoda
4/20/2020 10:56:24 AM

Quant Time: Apr 18 03:00:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 18 01:19:54 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.674 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Instrument :

MSVOA_U

ClientSampled :

BFS92

Tot Ion: 62 Resp: 48382

Ion Ratio Lower Upper

62 100

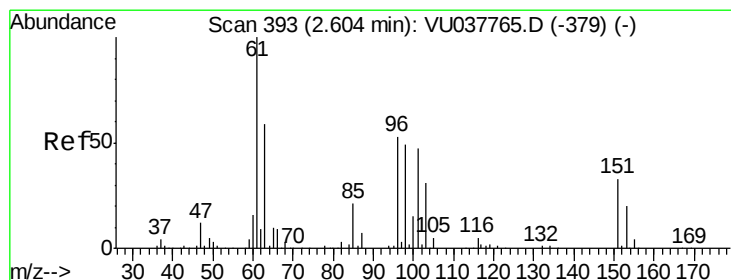
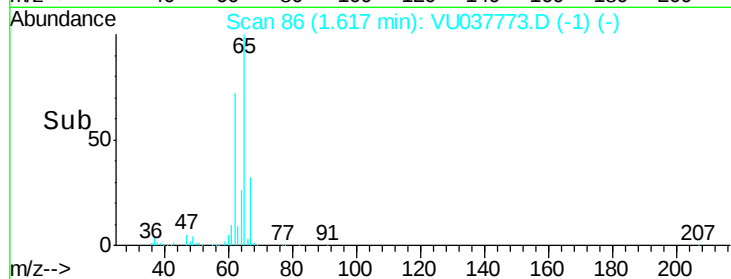
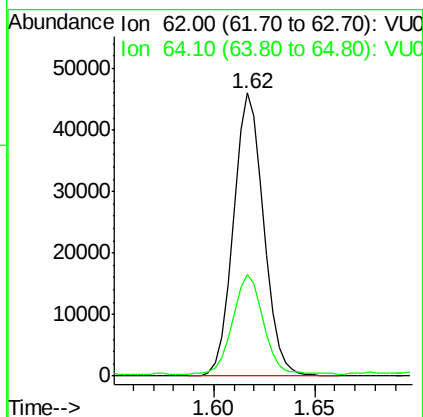
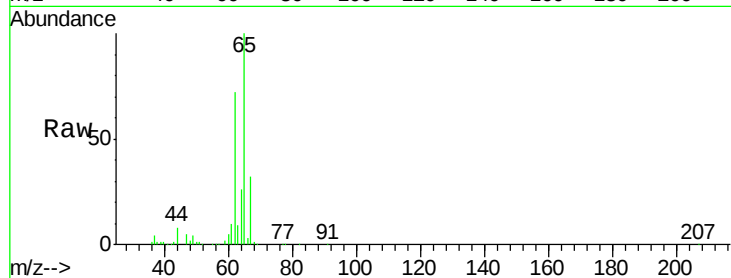
64 35.9 22.1 41.1

Manual Integrations

APPROVED

MMDadoda

4/20/2020 10:56:24 AM



#12

1,1-Dichloroethene

Concen: 0.360 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

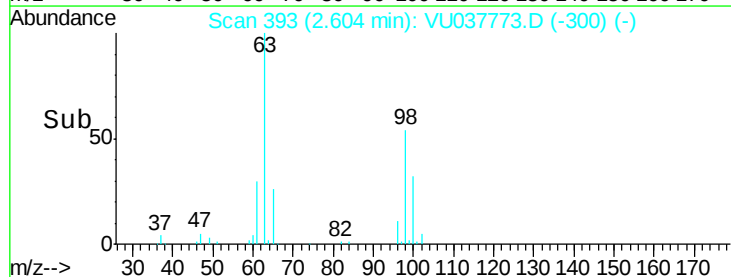
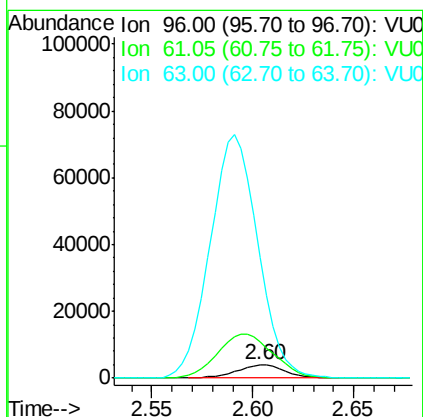
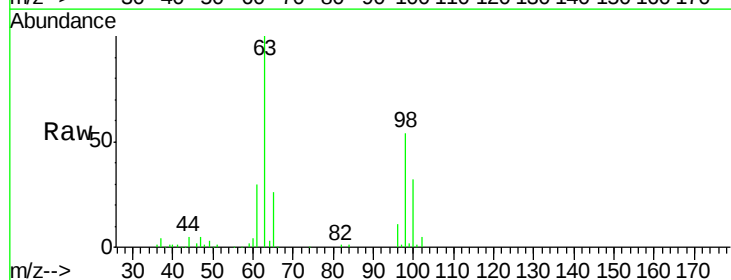
Tgt Ion: 96 Resp: 6810

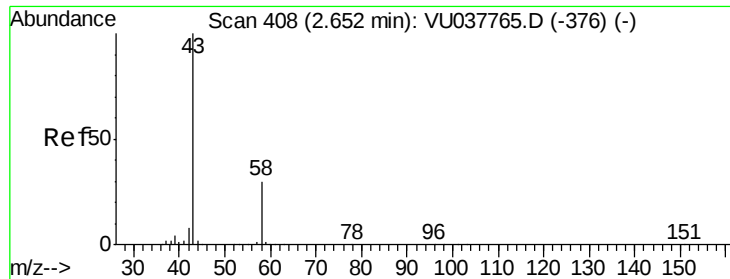
Ion Ratio Lower Upper

96 100

61 261.8 127.7 237.3#

63 877.6 85.0 157.8#





#13

Acetone

Concen: 0.925 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.01 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Instrument :

MSVOA_U

ClientSampled :

BFS92

Tot Ion: 43 Resp: 3476

Ion Ratio Lower Upper

43 100

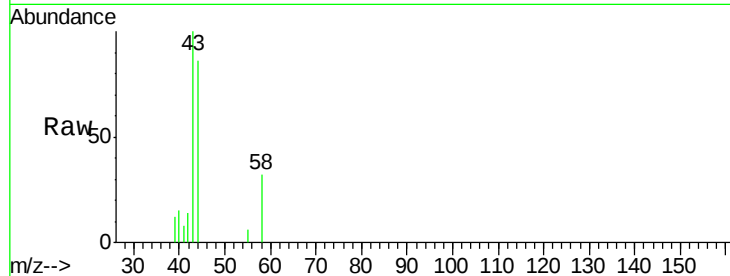
58 23.0 0.0 64.8

Manual Integrations

APPROVED

MMDadoda

4/20/2020 10:56:24 AM



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.66

1500

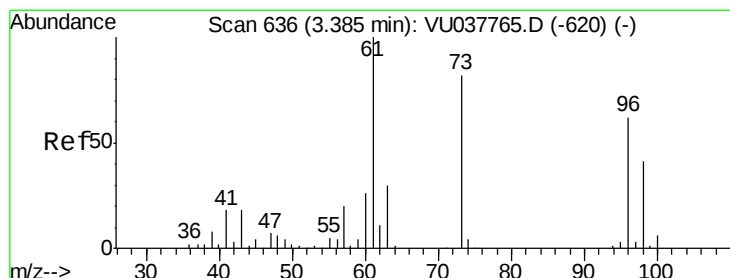
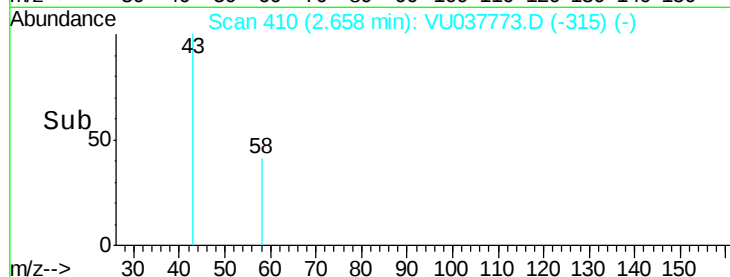
1000

500

0

Time-->

2.60 2.65 2.70



#18

trans-1,2-Dichloroethene

Concen: 0.247 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.01 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

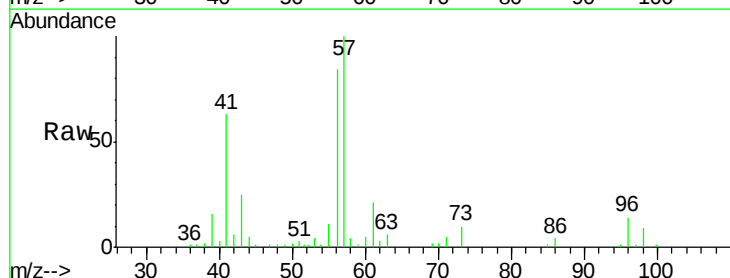
Tgt Ion: 96 Resp: 5076

Ion Ratio Lower Upper

96 100

61 152.0 106.7 198.3

98 62.5 44.3 82.3



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

5000

4000

3000

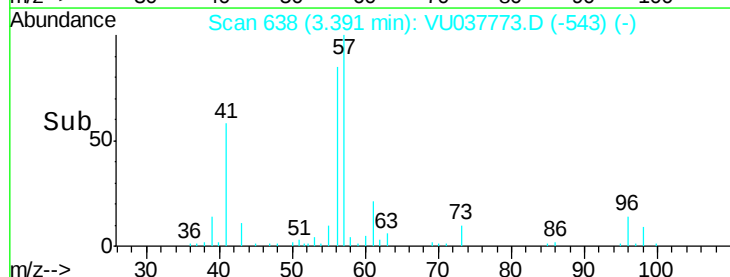
2000

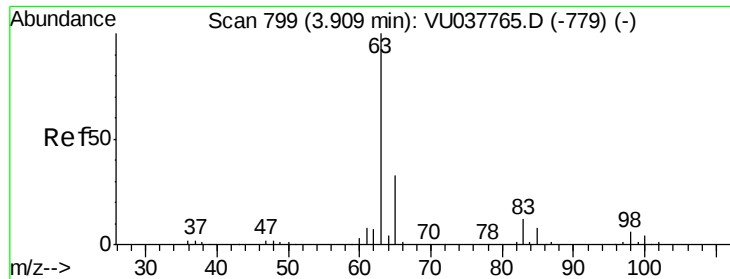
1000

0

Time-->

3.35 3.40 3.45





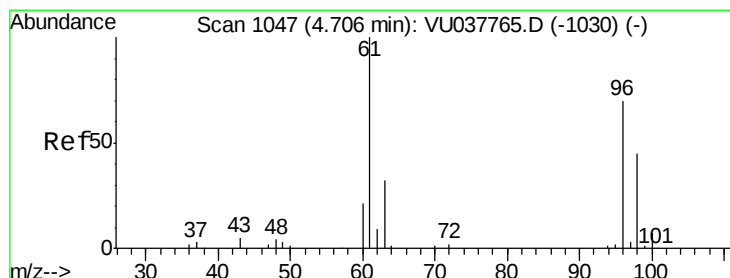
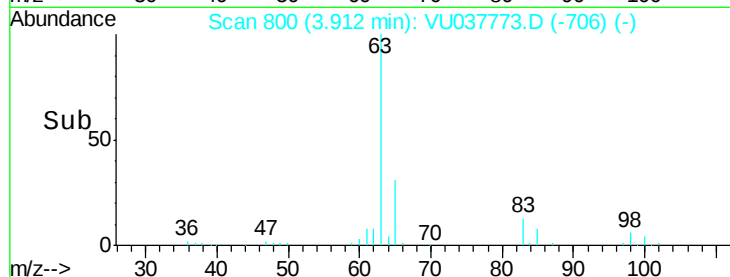
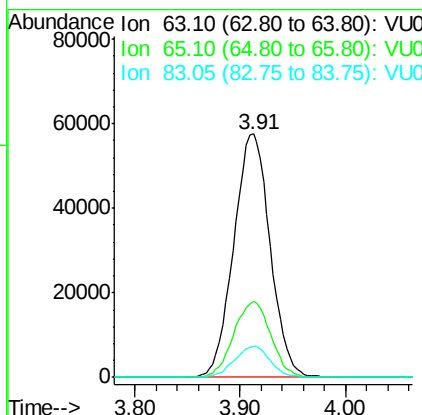
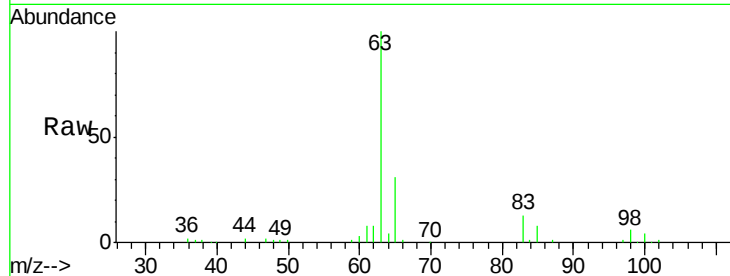
#19
 1,1-Dichloroethane
 Concen: 3.475 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS92

Tot Ion:	63	Resp:	137976
Ion	Ratio	Lower	Upper
63	100		
65	31.1	21.6	40.2
83	12.6	8.6	16.0

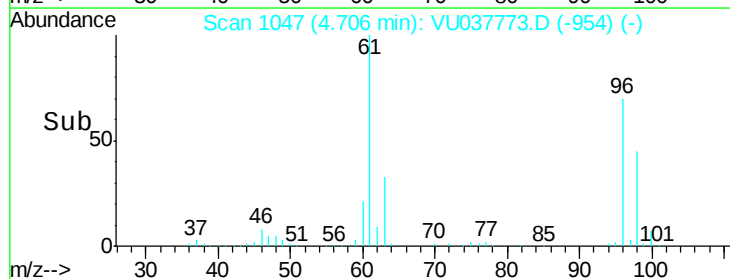
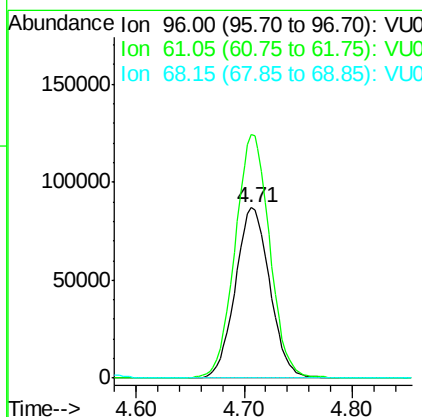
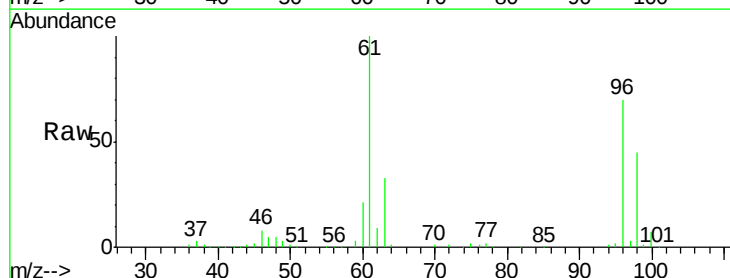
Manual Integrations
 APPROVED

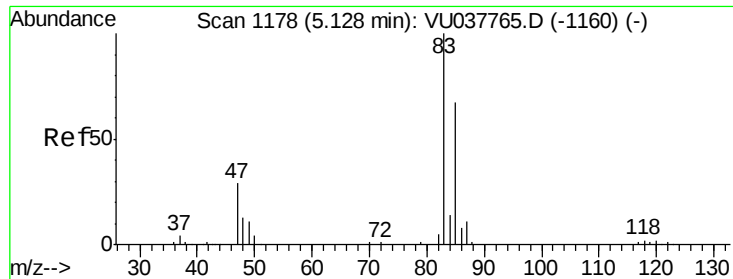
MMDadoda
 4/20/2020 10:56:24 AM



#22
 cis-1,2-Dichloroethene
 Concen: 8.746 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion:	96	Resp:	193976
Ion	Ratio	Lower	Upper
96	100		
61	143.0	97.0	180.2
68	0.0	0.0	0.0





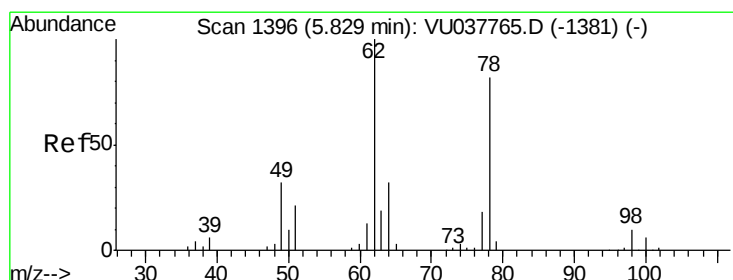
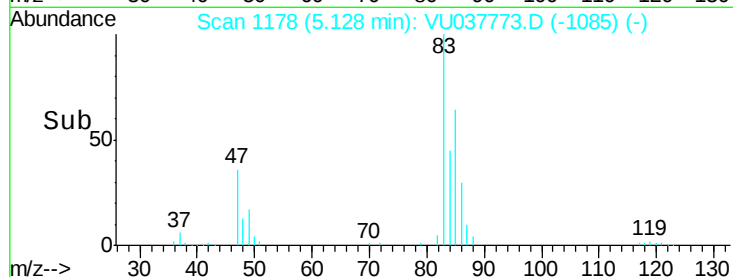
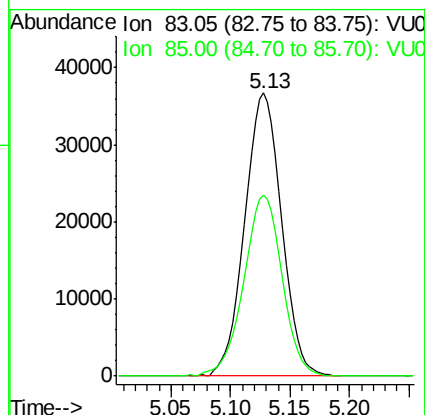
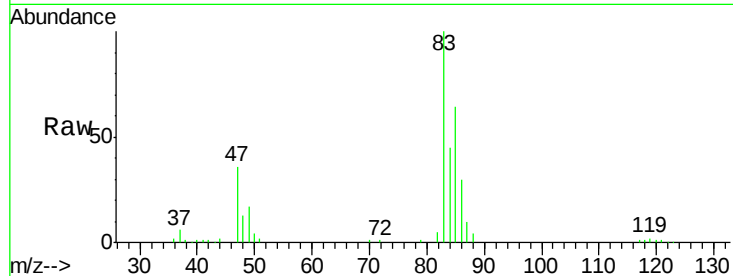
#25
Chloroform
Concen: 2.091 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Instrument :
MSVOA_U
ClientSampleId :
BFS92

Tot Ion	83	Resp	78845
Ion Ratio	100	Lower	Upper
85	63.8	44.9	83.3

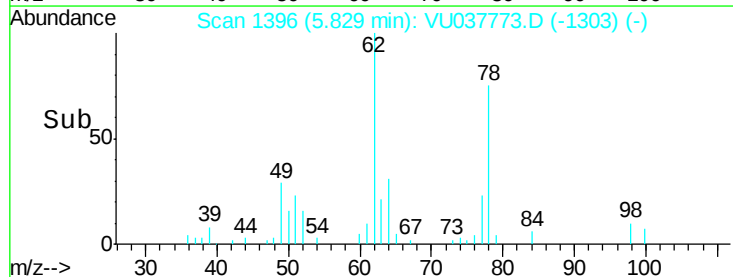
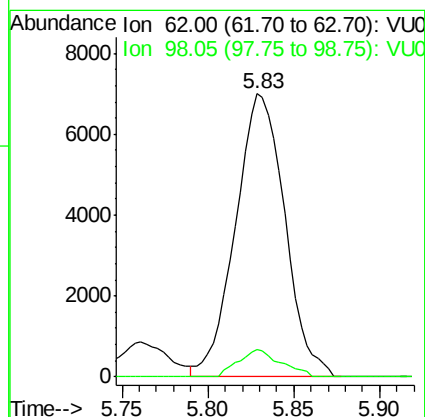
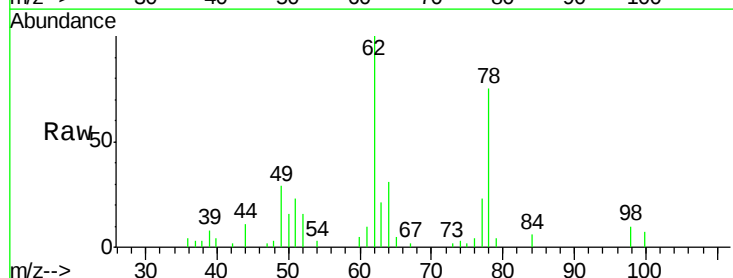
Manual Integrations
APPROVED

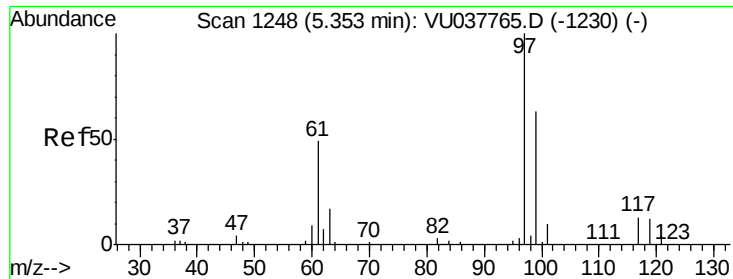
MMDadoda
4/20/2020 10:56:24 AM



#27
1,2-Dichloroethane
Concen: 0.548 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Tgt Ion	62	Resp	13963
Ion Ratio	100	Lower	Upper
98	9.6	7.6	11.4





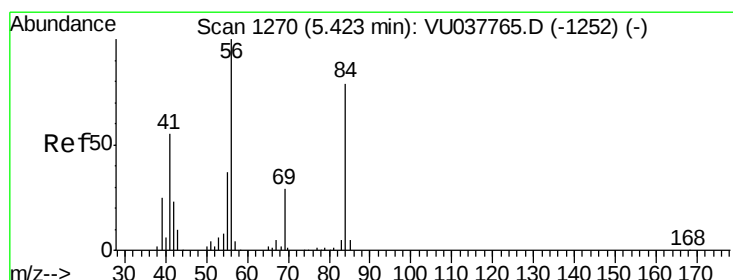
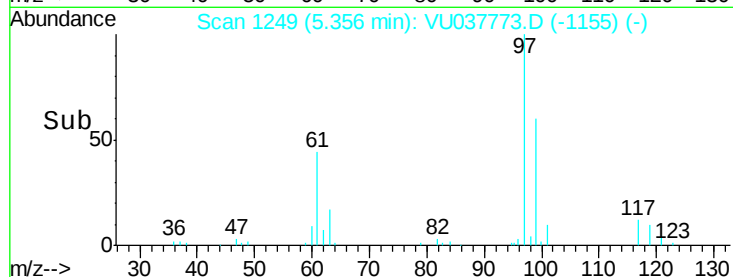
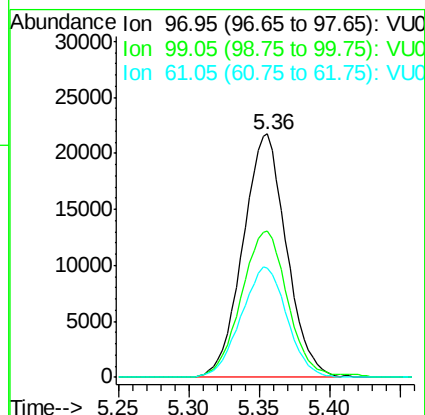
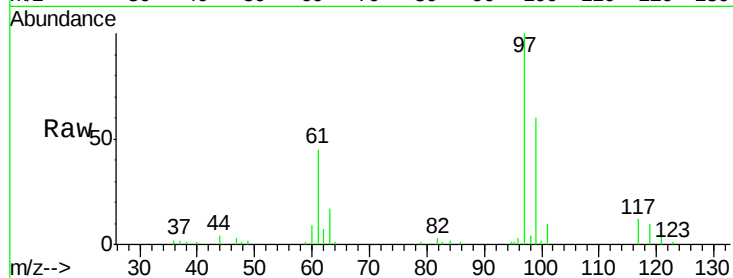
#29
 1,1,1-Trichloroethane
 Concen: 1.474 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Instrument :
 MSVOA_U
 ClientSampled :
 BFS92

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.0	78.0
61	47.8	37.8	56.8

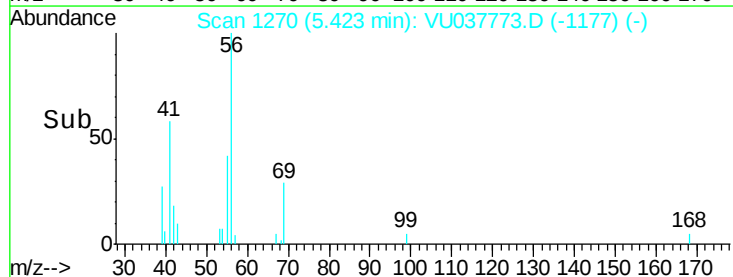
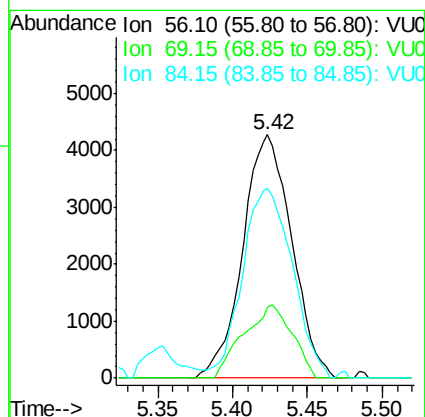
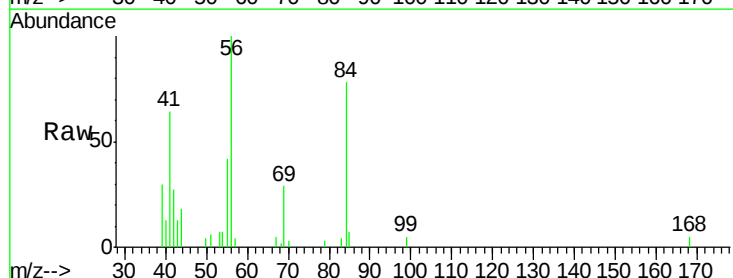
Manual Integrations
 APPROVED

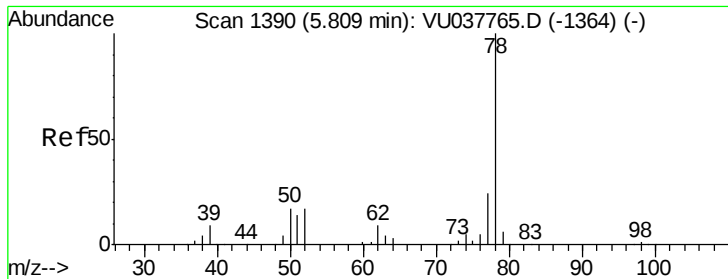
MMDadoda
 4/20/2020 10:56:24 AM



#30
 Cyclohexane
 Concen: 0.247 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.9	35.9
84	79.7	65.6	98.4





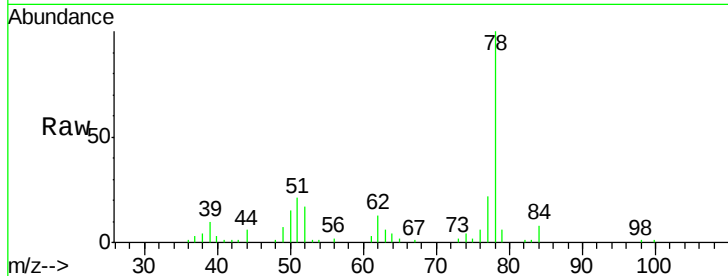
#33
Benzene
Concen: 0.364 ug/L m
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Instrument :
MSVOA_U
ClientSampleId :
BFS92

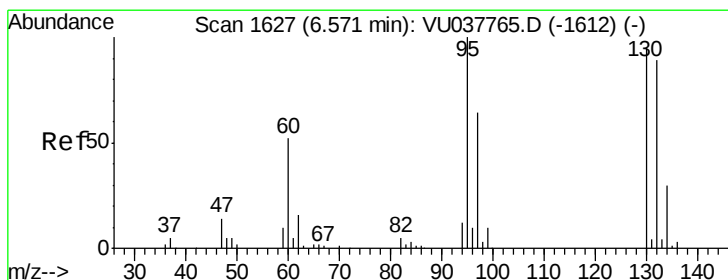
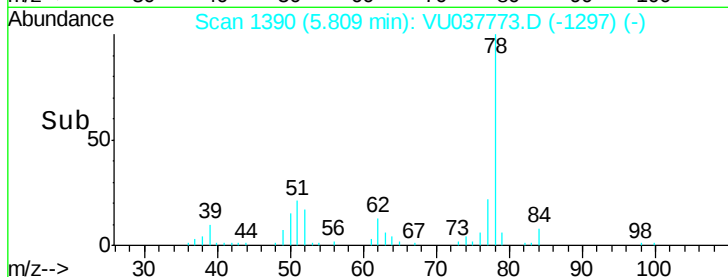
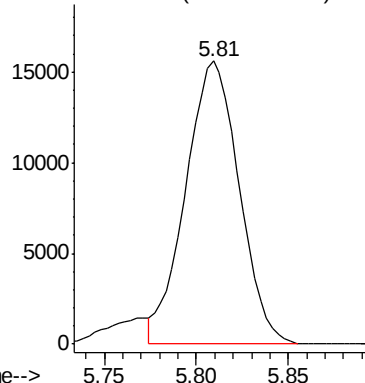
Tgt Ion: 78 Resp: 31533

Manual Integrations
APPROVED

MMDadoda
4/20/2020 10:56:24 AM



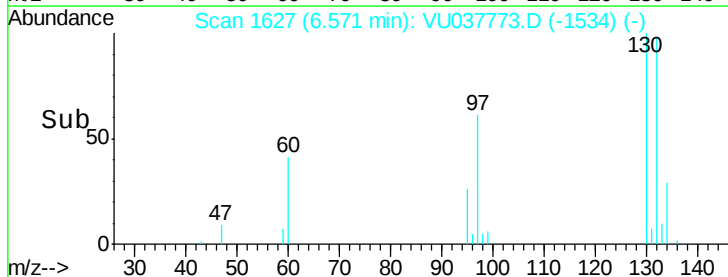
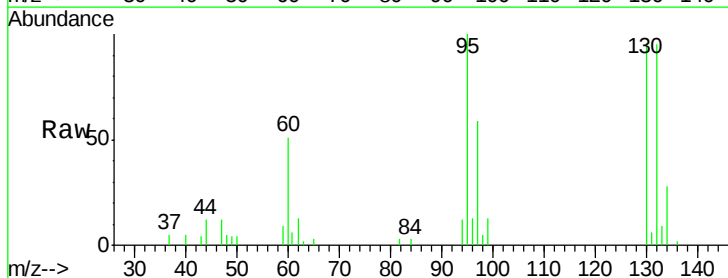
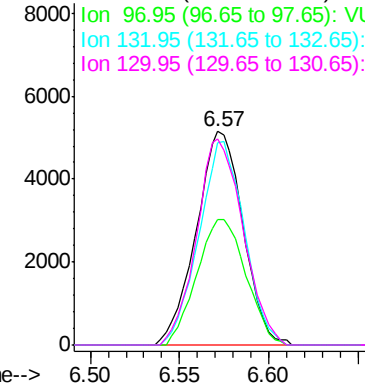
Abundance Ion 78.10 (77.80 to 78.80): VU0

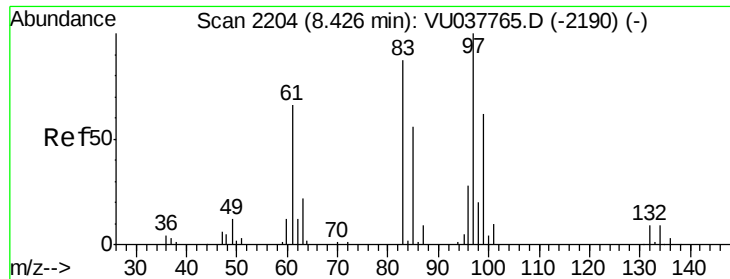


#34
Trichloroethene
Concen: 0.442 ug/L
RT: 6.57 min Scan# 1627
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Tgt Ion: 95 Resp: 9412
Ion Ratio Lower Upper
95 100
97 58.9 45.4 84.2
132 94.7 63.7 118.3
130 96.5 68.7 127.5

Abundance Ion 95.00 (94.70 to 95.70): VU0





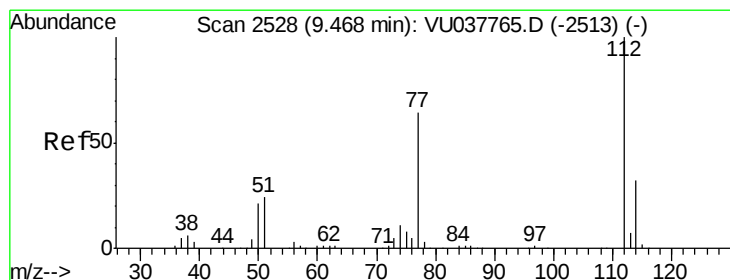
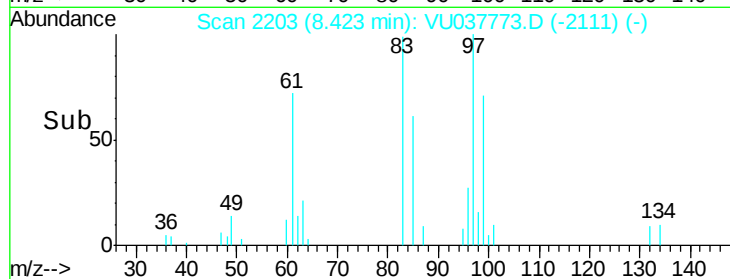
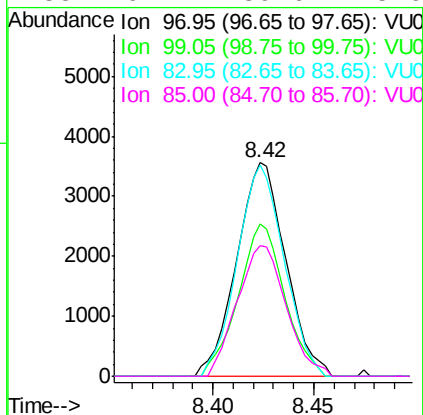
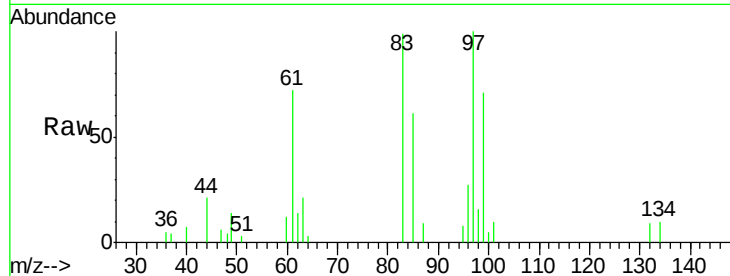
#45
 1,1,2-Trichloroethane
 Concen: 0.392 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Instrument :
 MSVOA_U
 ClientSampleID :
 BFS92

Tot Ion:	97	Resp:	6065
Ion	Ratio	Lower	Upper
97	100		
99	71.4	43.1	80.1
83	98.7	62.4	116.0
85	61.4	39.6	73.6

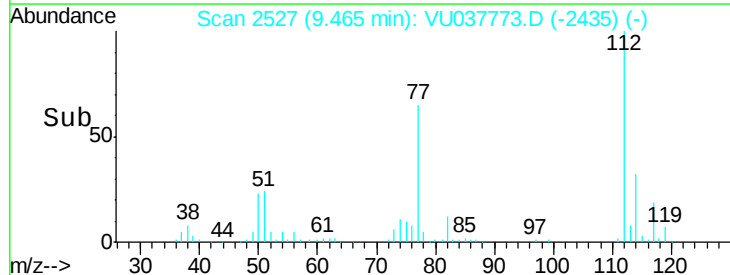
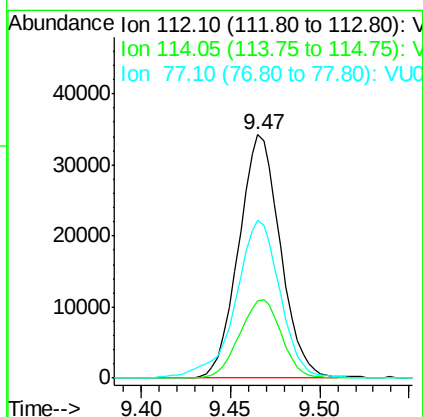
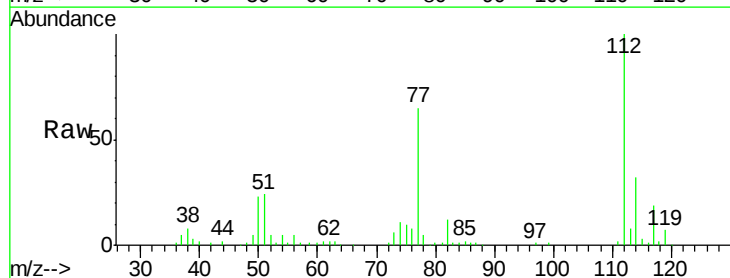
Manual Integrations
 APPROVED

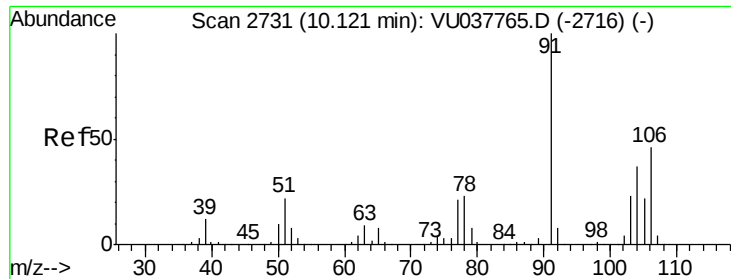
MMDadoda
 4/20/2020 10:56:24 AM



#51
 Chlorobenzene
 Concen: 1.010 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion:	112	Resp:	55924
Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.6	42.0
77	64.6	50.2	75.4





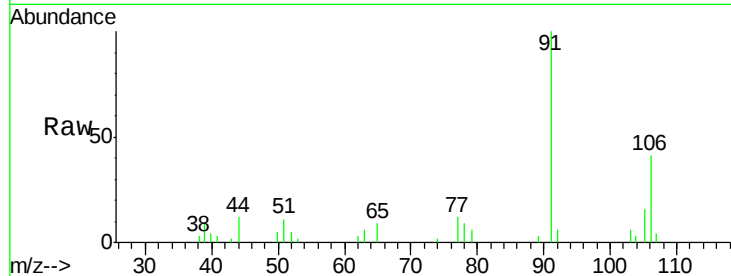
#54
o-Xylene
Concen: 0.137 ug/L
RT: 10.12 min Scan# 2731
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Instrument :
MSVOA_U
ClientSampleId :
BFS92

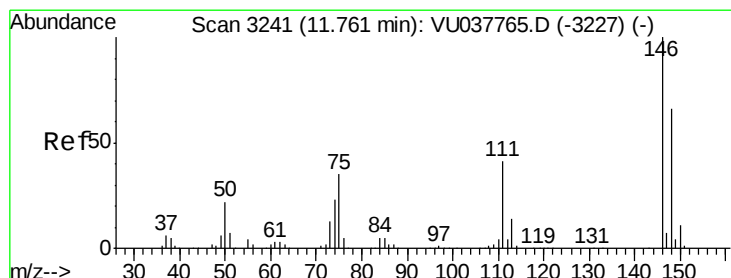
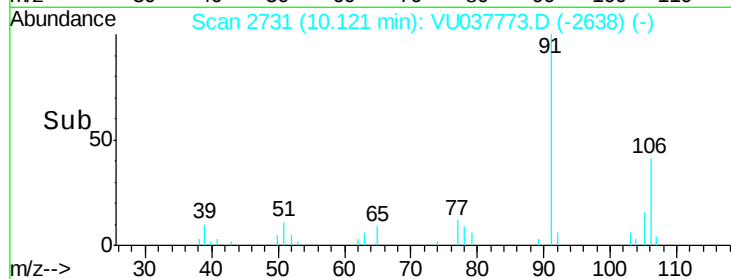
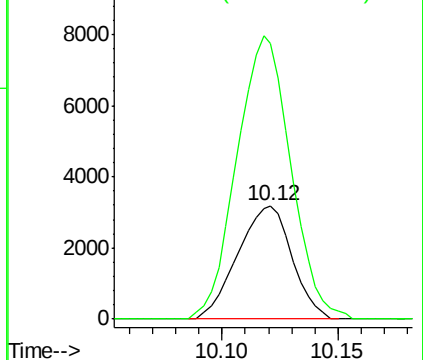
Tot Ion:106 Resp: 5146
Ion Ratio Lower Upper
106 100
91 243.7 151.1 280.7

Manual Integrations
APPROVED

MMDadoda
4/20/2020 10:56:24 AM

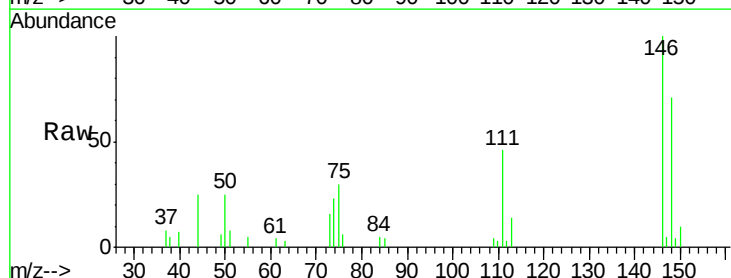


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

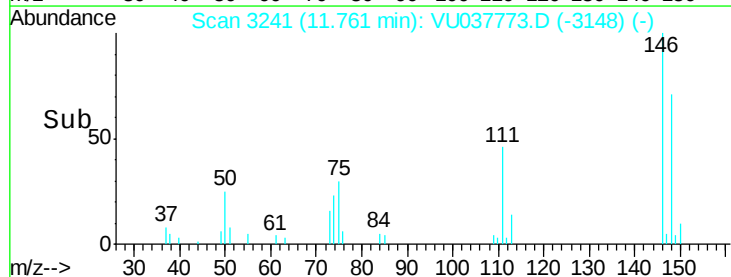
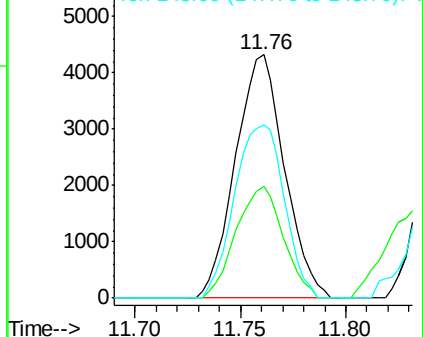


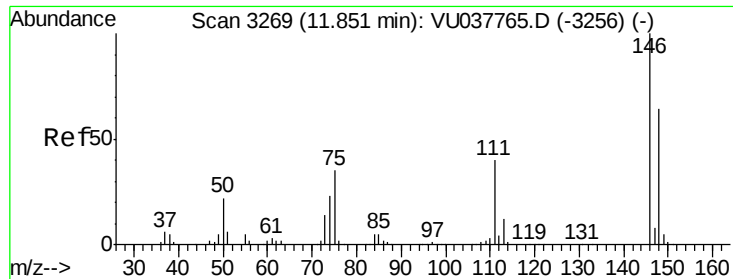
#62
1,3-Dichlorobenzene
Concen: 0.161 ug/L
RT: 11.76 min Scan# 3241
Delta R.T. 0.00 min
Lab File: VU037773.D
Acq: 17 Apr 2020 14:15

Tgt Ion:146 Resp: 6979
Ion Ratio Lower Upper
146 100
111 45.8 29.8 55.3
148 71.0 44.5 82.7



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: 0.237 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Instrument :

MSVOA_U

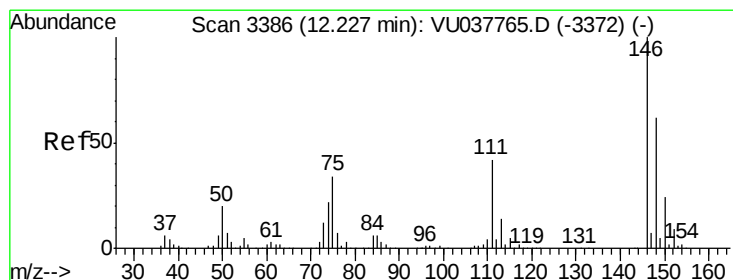
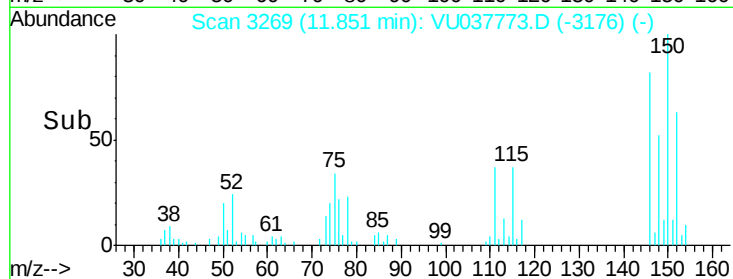
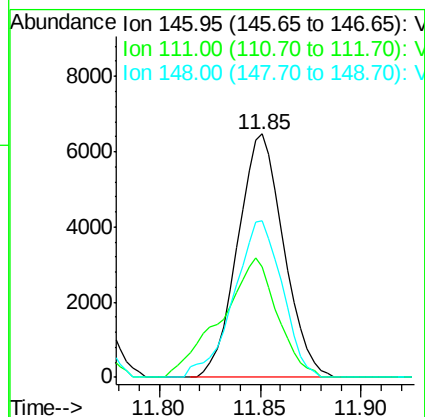
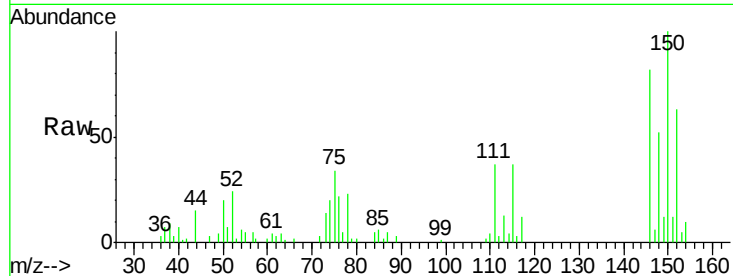
ClientSampled :

BFS92

Tot Ion:	146	Resp:	10309
Ion Ratio	Lower	Upper	
146	100		
111	45.6	28.4	52.8
148	64.1	44.9	83.3

Manual Integrations
APPROVED

MMDadoda
4/20/2020 10:56:24 AM



#65

1,2-Dichlorobenzene

Concen: 0.117 ug/L

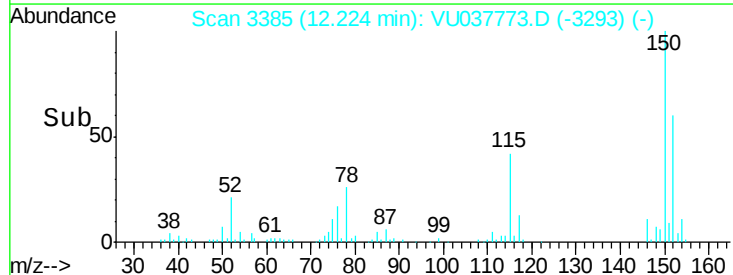
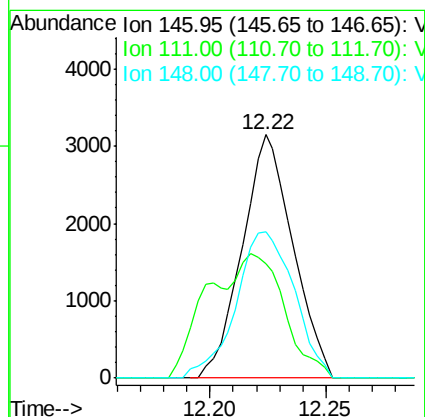
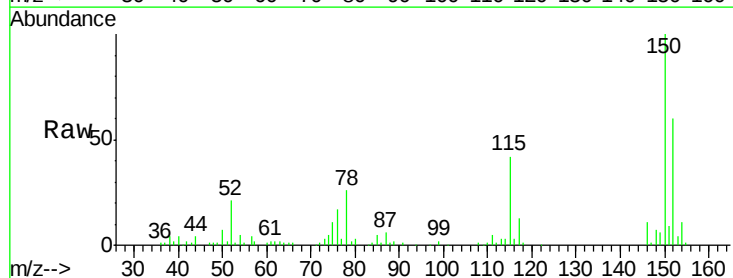
RT: 12.22 min Scan# 3385

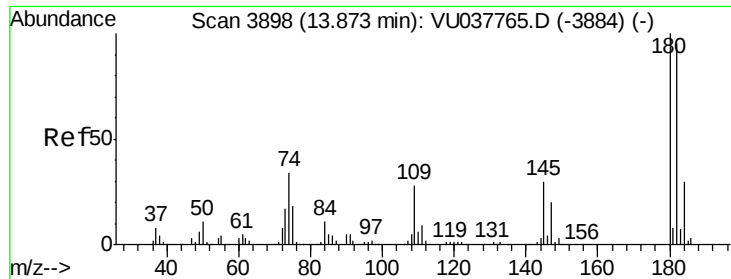
Delta R.T. -0.00 min

Lab File: VU037773.D

Acq: 17 Apr 2020 14:15

Tgt Ion:	146	Resp:	4785
Ion Ratio	Lower	Upper	
146	100		
111	46.9	35.0	52.6
148	59.9	51.5	77.3





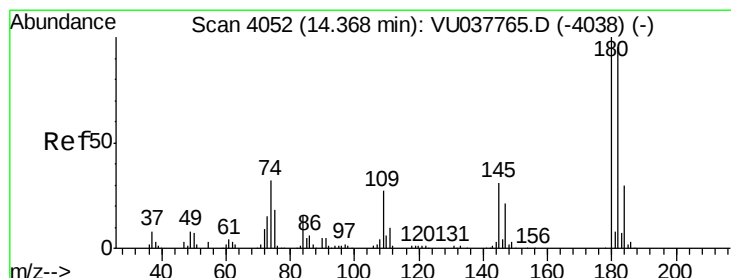
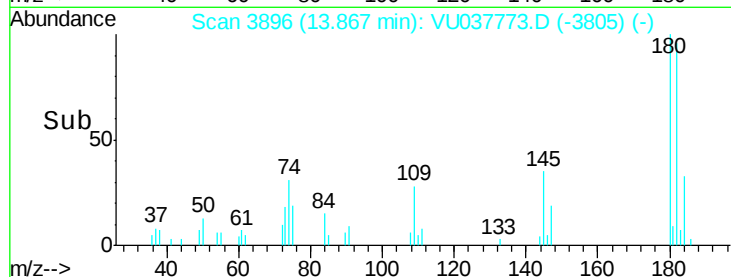
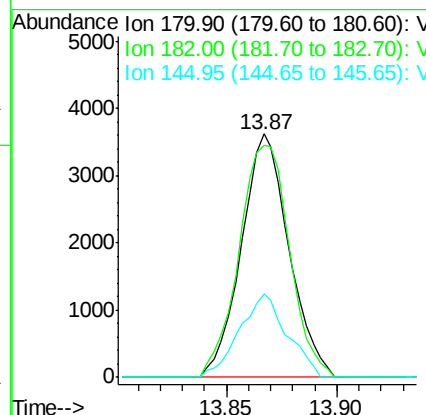
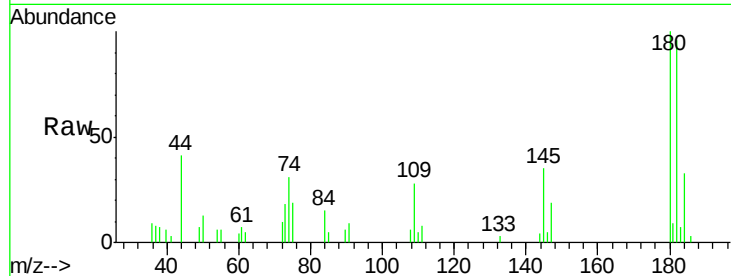
#68
 1,2,4-trichlorobenzene
 Concen: 0.185 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.01 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS92

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.7	76.4	114.6
145	34.3	25.1	37.7

Manual Integrations
 APPROVED

MMDadoda
 4/20/2020 10:56:24 AM



#70
 1,2,3-Trichlorobenzene
 Concen: 0.150 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU037773.D
 Acq: 17 Apr 2020 14:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.8	76.6	115.0
145	31.8	26.7	40.1

