

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
 Data File : VU037777.D
 Acq On : 17 Apr 2020 15:55
 Operator : JC/MD
 Sample : L2296-03DL 5X
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS89DL

Quant Time: Apr 18 03:27:29 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	257018	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	248170	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	123426	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	86833	4.46	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.20%
7) Chloroethane-d5	1.93	69	75836	4.62	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.40%
11) 1,1-Dichloroethene-d2	2.59	63	116942	3.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.60%
20) 2-Butanone-d5	4.66	46	275398	51.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.12%
24) Chloroform-d	5.10	84	148385	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
26) 1,2-Dichloroethane-d4	5.74	65	92971	5.21	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.20%
32) Benzene-d6	5.76	84	326369	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
36) 1,2-Dichloropropane-d6	6.72	67	111345	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.00%
41) Toluene-d8	7.92	98	297155	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	8.20	79	45167	4.61	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.20%
46) 2-Hexanone-d5	8.65	63	254284	50.68	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.36%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	86336	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	110814	5.03	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	90563	3.344	ug/L	97
12) 1,1-Dichloroethene	2.60	96	5817	0.328	ug/L	# 1
19) 1,1-Dichloroethane	3.91	63	87014	2.339	ug/L	98
22) cis-1,2-Dichloroethene	4.71	96	143134	6.889	ug/L	96
29) 1,1,1-Trichloroethane	5.35	97	209975	6.973	ug/L	98
30) Cyclohexane	5.42	56	135097	3.625	ug/L	96
42) Toluene	7.99	91	704469	8.202	ug/L	98
51) Chlorobenzene	9.47	112	140264	2.677	ug/L	98
52) Ethylbenzene	9.59	91	153541	1.607	ug/L	99
53) m,p-Xylene	9.71	106	101560	2.808	ug/L	95
54) o-Xylene	10.12	106	53514	1.503	ug/L	97
56) Isopropylbenzene	10.50	105	49029	0.525	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	31525	0.763	ug/L	96
63) 1,4-Dichlorobenzene	11.85	146	51828	1.250	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	18191	0.467	ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	14055	0.505	ug/L	97
70) 1,2,3-Trichlorobenzene	14.36	180	4000	0.161	ug/L	100

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Apr 18 01:19:54 2020
Response via : Initial Calibration

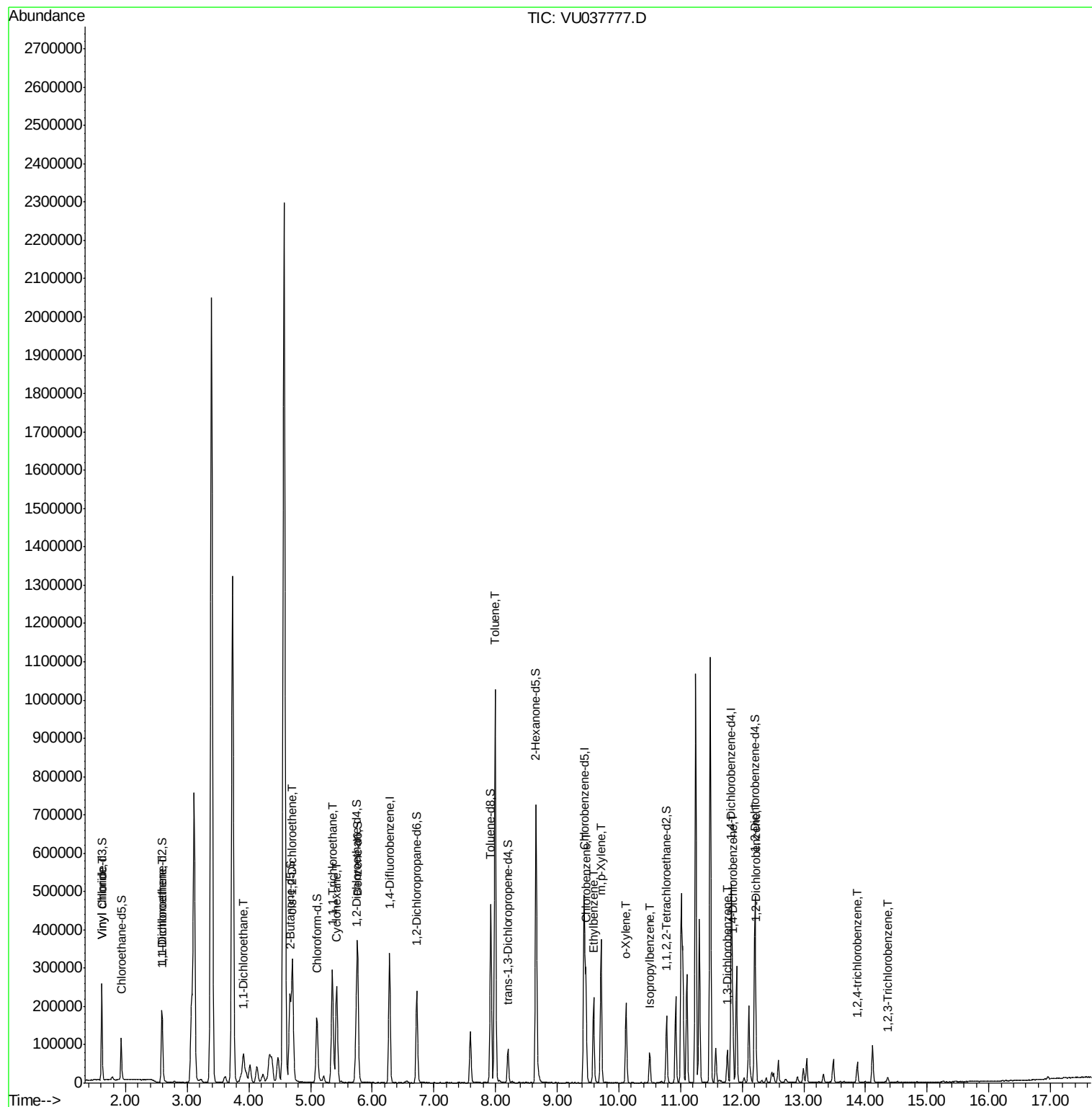
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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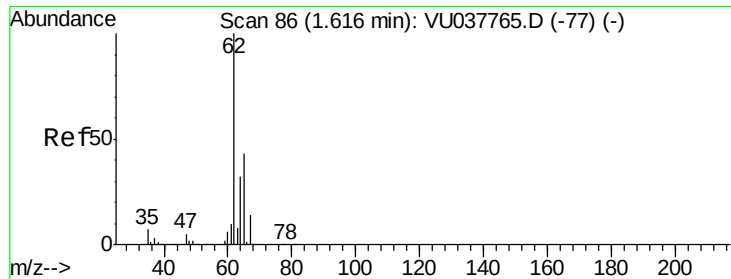
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Apr 18 01:19:54 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.344 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037777.D

Acq: 17 Apr 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

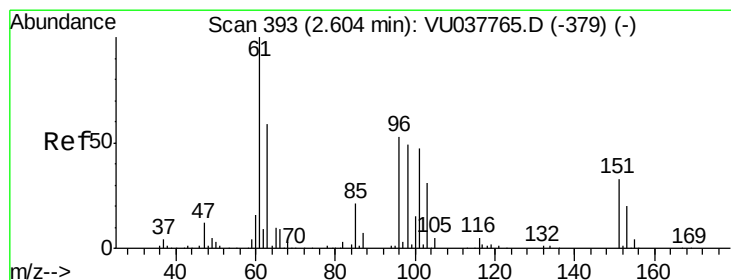
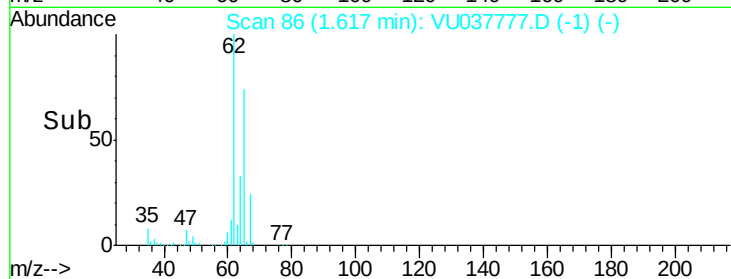
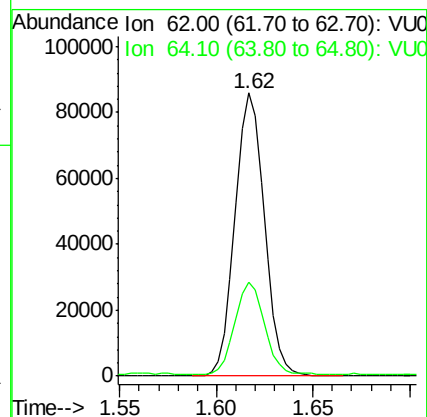
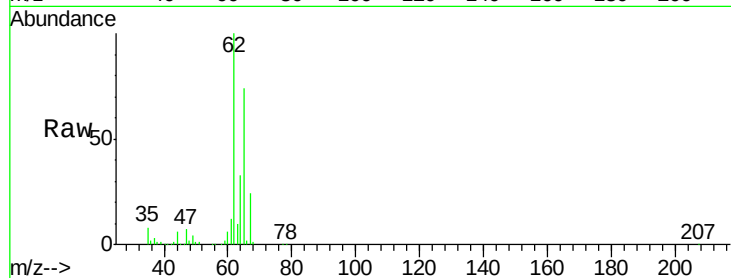
BFS89DL

Tot Ion: 62 Resp: 90563

Ion Ratio Lower Upper

62 100

64 33.1 22.1 41.1



#12

1,1-Dichloroethene

Concen: 0.328 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037777.D

Acq: 17 Apr 2020 15:55

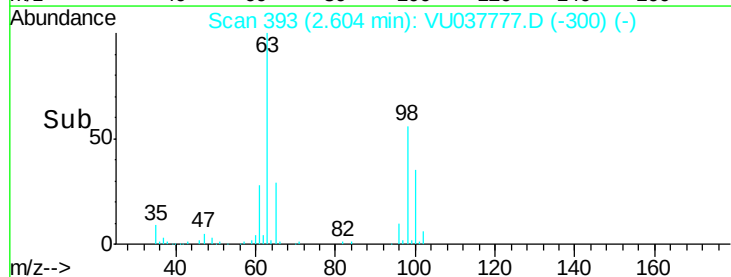
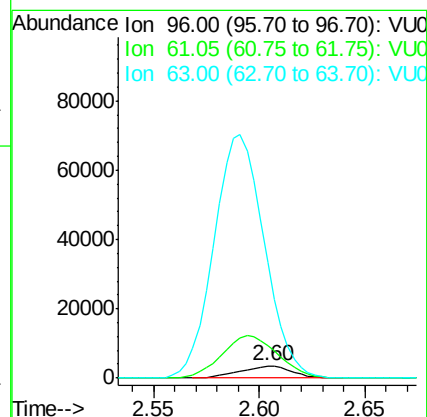
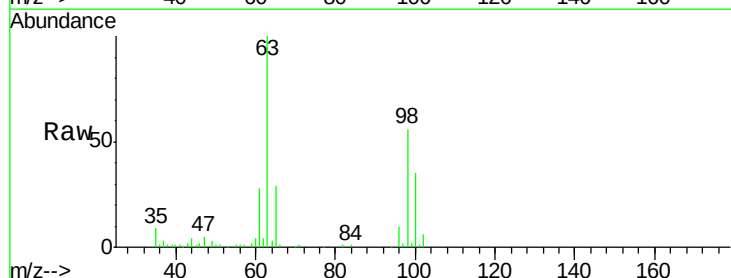
Tgt Ion: 96 Resp: 5817

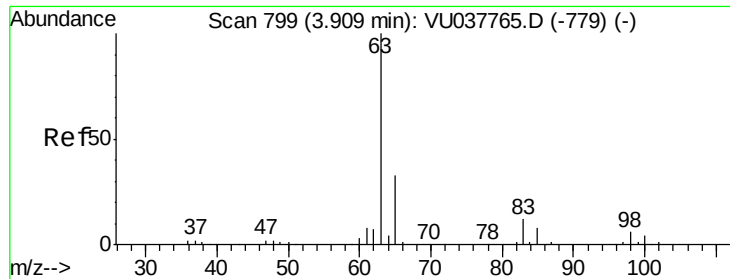
Ion Ratio Lower Upper

96 100

61 276.0 127.7 237.3#

63 974.0 85.0 157.8#

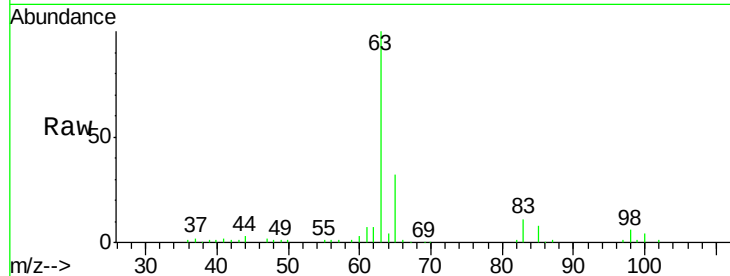




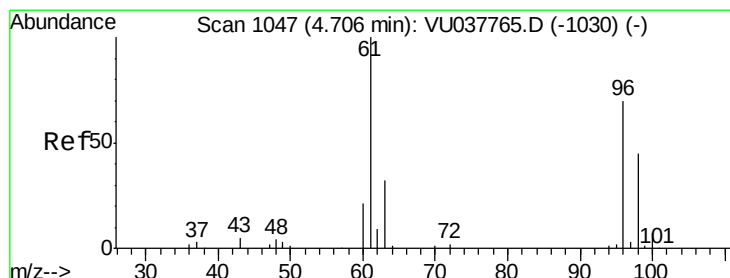
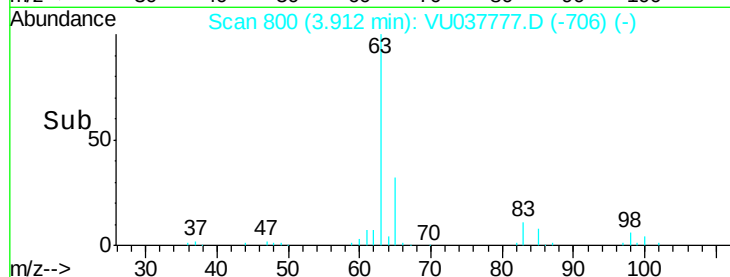
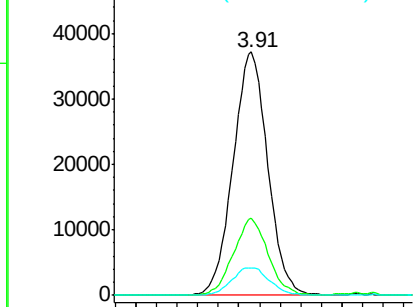
#19
 1,1-Dichloroethane
 Concen: 2.339 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU037777.D
 Acq: 17 Apr 2020 15:55

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS89DL

Tot Ion: 63 Resp: 87014
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.6 40.2
 83 11.3 8.6 16.0

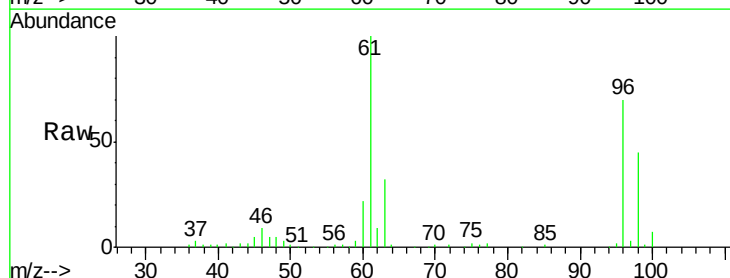


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

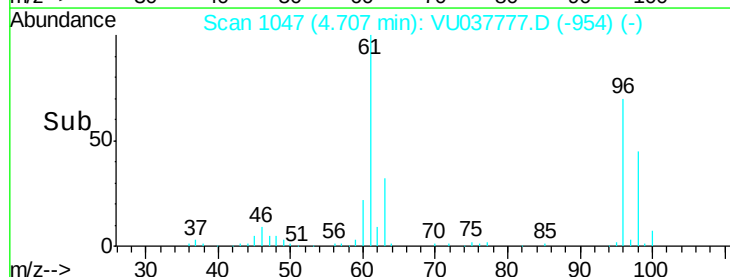
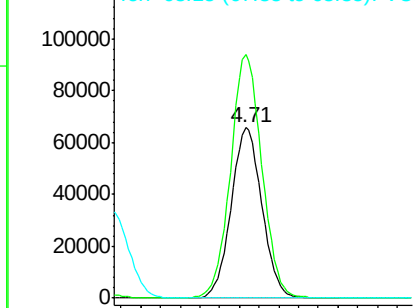


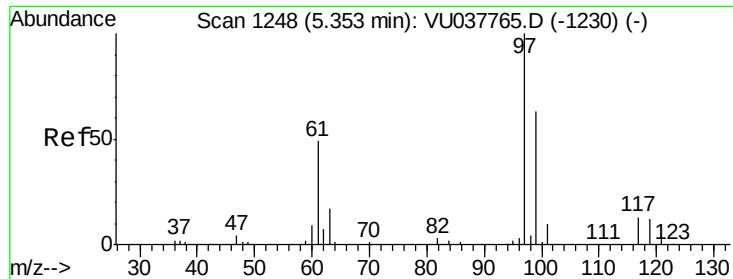
#22
 cis-1,2-Dichloroethene
 Concen: 6.889 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037777.D
 Acq: 17 Apr 2020 15:55

Tgt Ion: 96 Resp: 143134
 Ion Ratio Lower Upper
 96 100
 61 143.1 97.0 180.2
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

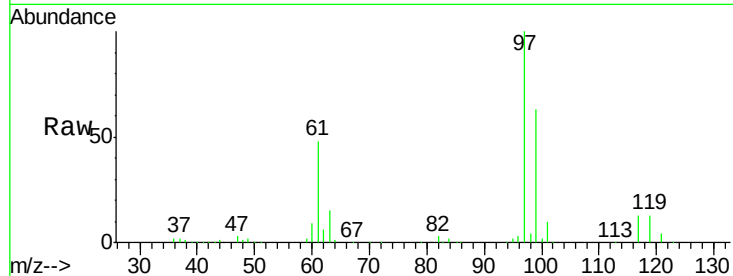




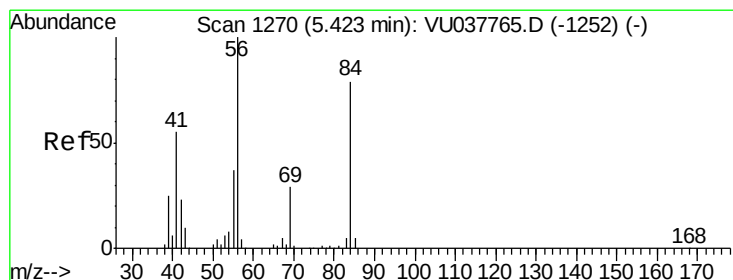
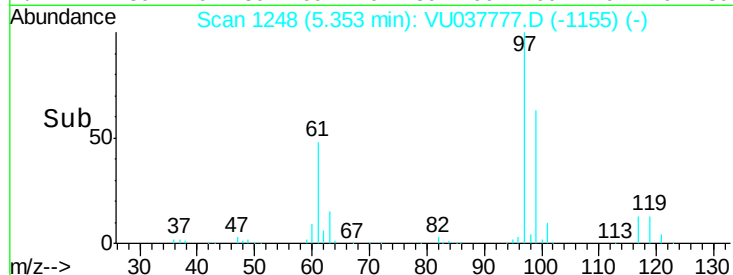
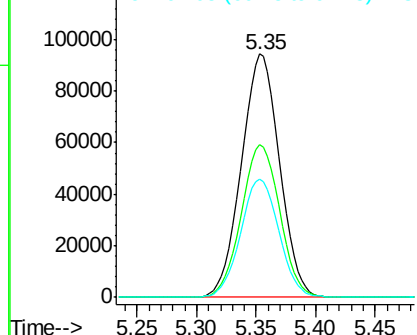
#29
 1,1,1-Trichloroethane
 Concen: 6.973 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU037777.D
 Acq: 17 Apr 2020 15:55

Instrument :
 MSVOA_U
 ClientSampleID :
 BFS89DL

Tot Ion: 97 Resp: 209975
 Ion Ratio Lower Upper
 97 100
 99 63.3 52.0 78.0
 61 48.7 37.8 56.8

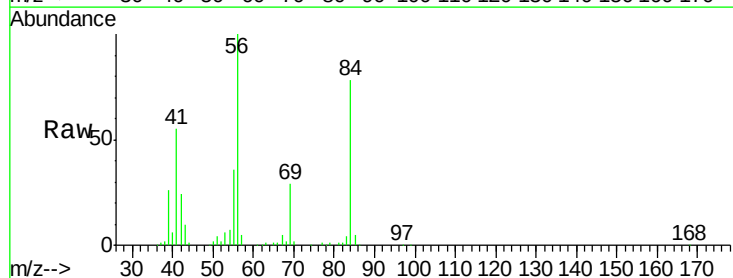


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

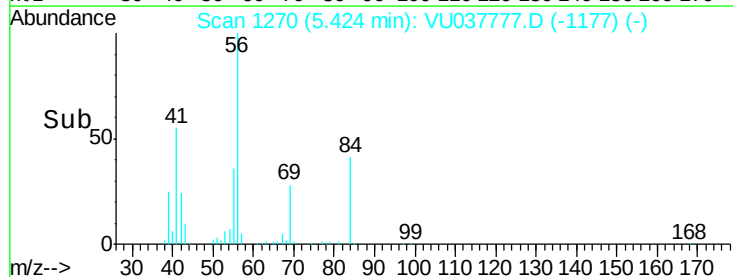
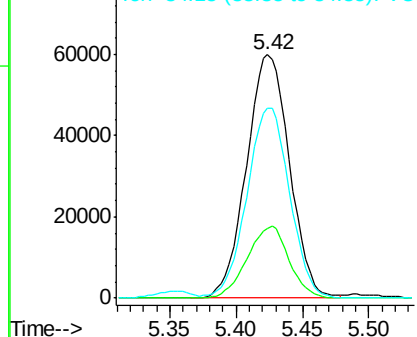


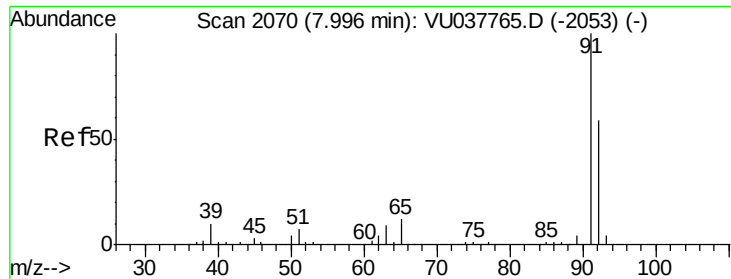
#30
 Cyclohexane
 Concen: 3.625 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037777.D
 Acq: 17 Apr 2020 15:55

Tgt Ion: 56 Resp: 135097
 Ion Ratio Lower Upper
 56 100
 69 28.6 23.9 35.9
 84 77.6 65.6 98.4



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#42

Toluene

Concen: 8.202 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037777.D

Acq: 17 Apr 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

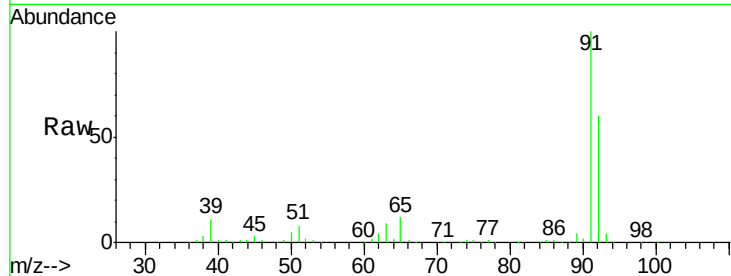
BFS89DL

Tot Ion: 91 Resp: 704469

Ion Ratio Lower Upper

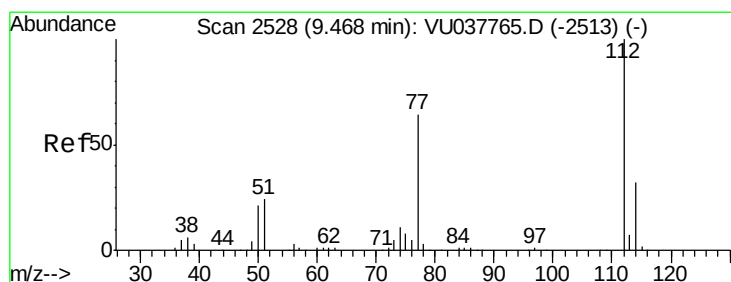
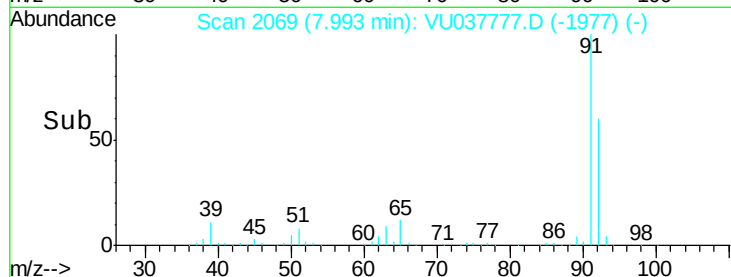
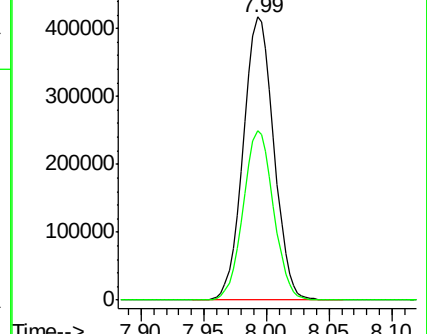
91 100

92 60.0 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VU037777.D (-1977) (-)

Ion 92.15 (91.85 to 92.85): VU037777.D (-1977) (-)



#51

Chlorobenzene

Concen: 2.677 ug/L

RT: 9.47 min Scan# 2527

Delta R.T. -0.00 min

Lab File: VU037777.D

Acq: 17 Apr 2020 15:55

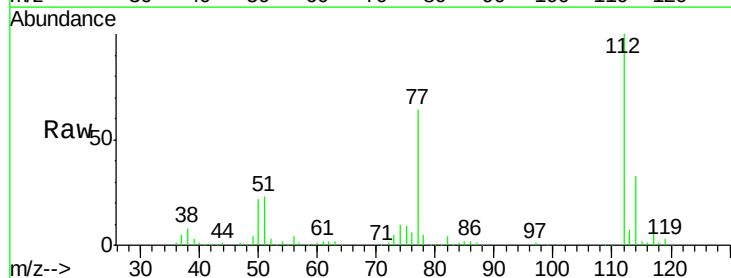
Tgt Ion: 112 Resp: 140264

Ion Ratio Lower Upper

112 100

114 33.0 22.6 42.0

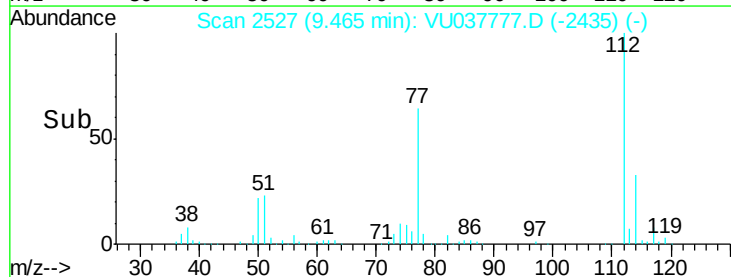
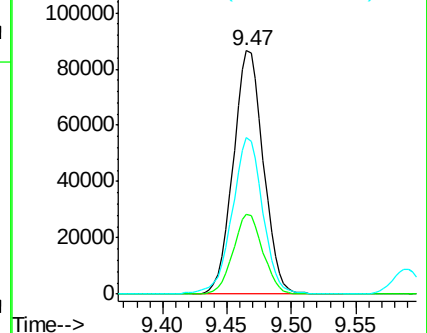
77 64.1 50.2 75.4

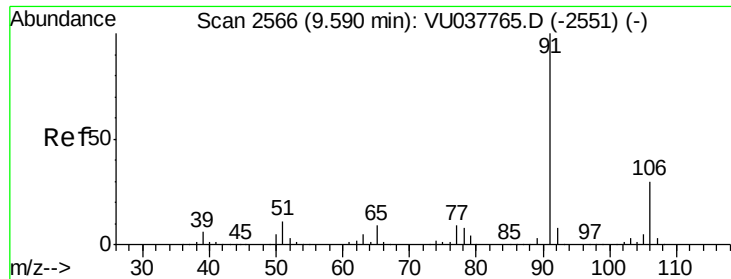


Abundance Ion 112.10 (111.80 to 112.80): VU037777.D (-2435) (-)

Ion 114.05 (113.75 to 114.75): VU037777.D (-2435) (-)

Ion 77.10 (76.80 to 77.80): VU037777.D (-2435) (-)





#52

Ethylbenzene

Concen: 1.607 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037777.D

Acq: 17 Apr 2020 15:55

Instrument :

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ClientSampleId :

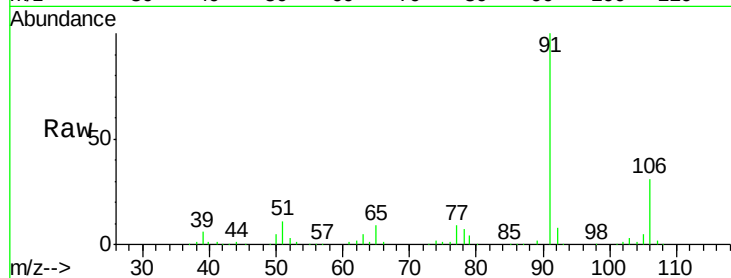
BFS89DL

Tot Ion: 91 Resp: 153541

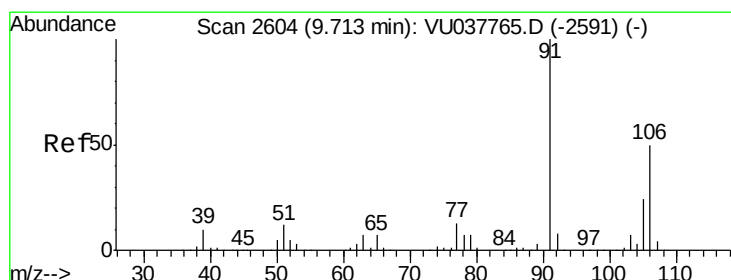
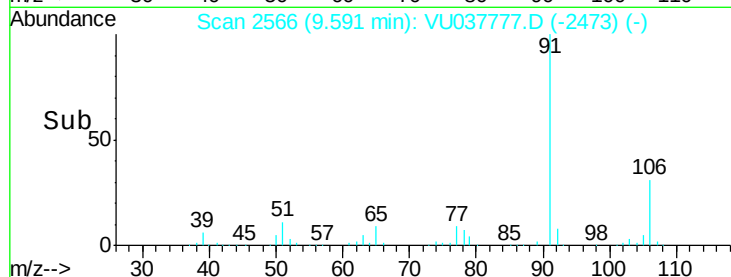
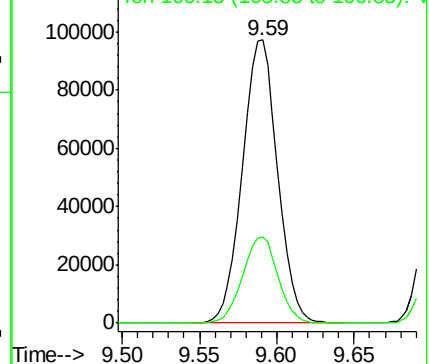
Ion Ratio Lower Upper

91 100

106 30.5 21.7 40.3



Abundance Ion 91.15 (90.85 to 91.85): VU037777.D (-2473) (-)



#53

m,p-Xylene

Concen: 2.808 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037777.D

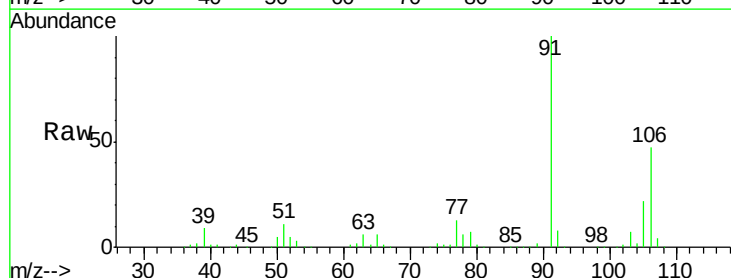
Acq: 17 Apr 2020 15:55

Tgt Ion: 106 Resp: 101560

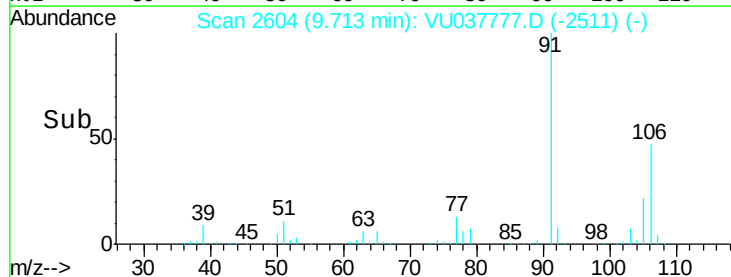
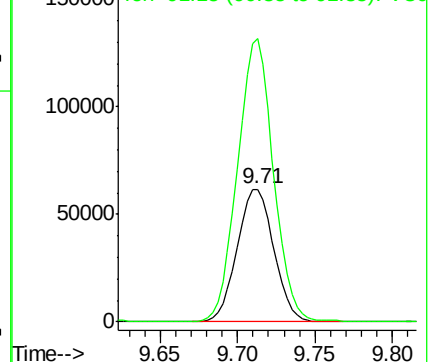
Ion Ratio Lower Upper

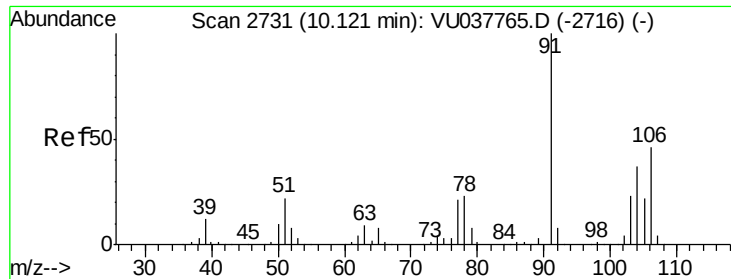
106 100

91 213.4 143.9 267.3



Abundance Ion 106.15 (105.85 to 106.85): VU037777.D (-2511) (-)

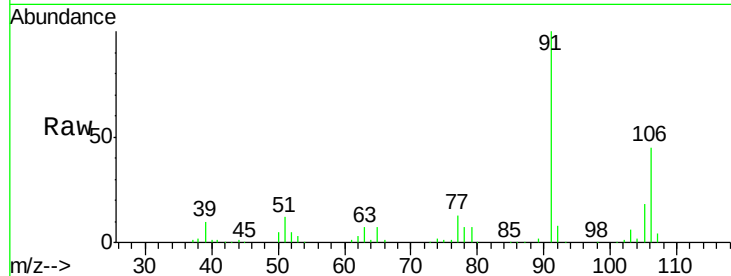




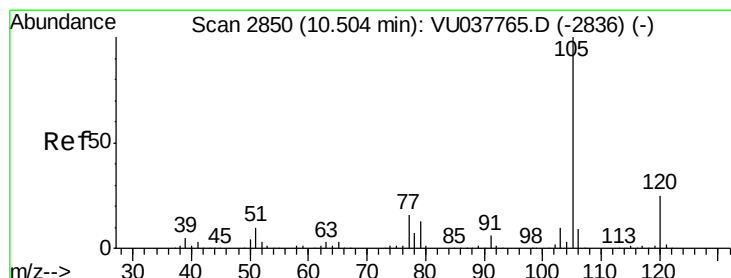
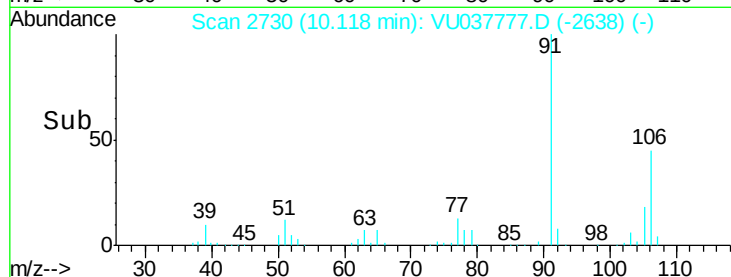
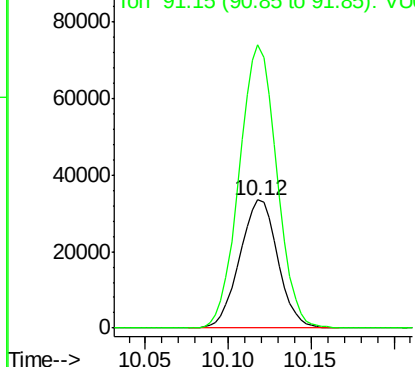
#54
o-Xylene
Concen: 1.503 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU037777.D
Acq: 17 Apr 2020 15:55

Instrument :
MSVOA_U
ClientSampled :
BFS89DL

Tot Ion:106 Resp: 53514
Ion Ratio Lower Upper
106 100
91 221.3 151.1 280.7

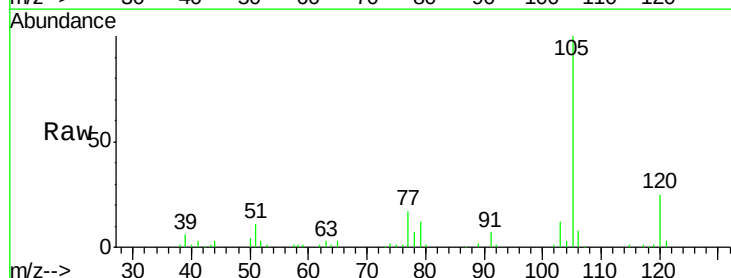


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

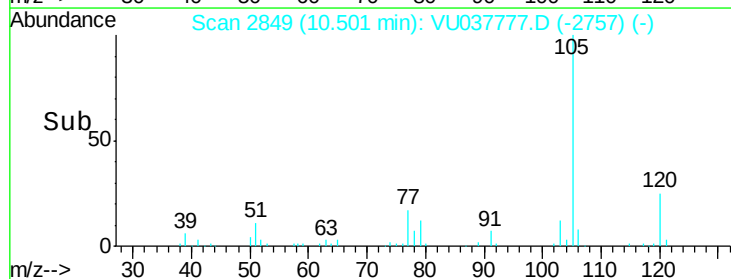
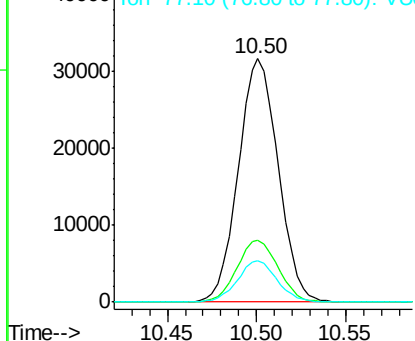


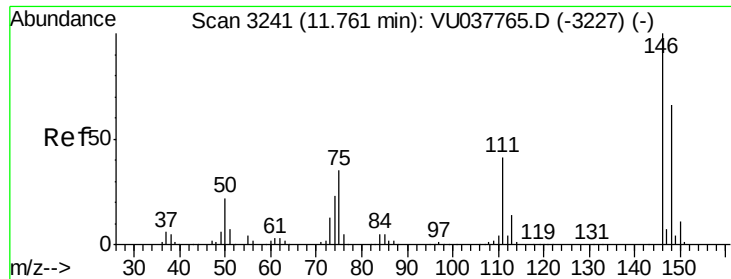
#56
Isopropylbenzene
Concen: 0.525 ug/L
RT: 10.50 min Scan# 2849
Delta R.T. -0.00 min
Lab File: VU037777.D
Acq: 17 Apr 2020 15:55

Tgt Ion:105 Resp: 49029
Ion Ratio Lower Upper
105 100
120 26.2 20.6 31.0
77 17.0 13.2 19.8



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): VU0

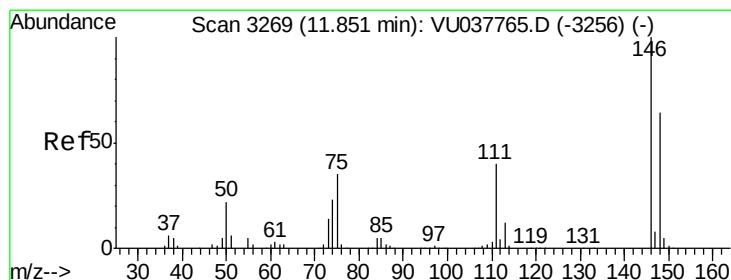
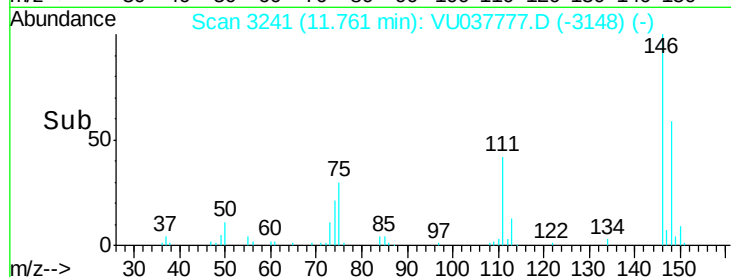
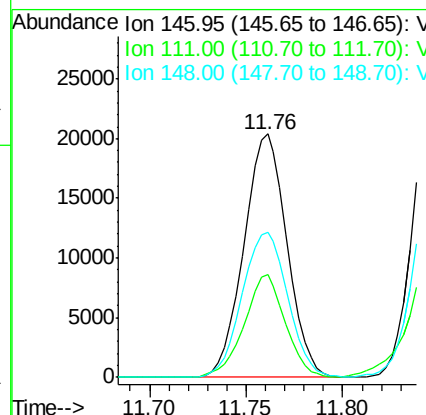
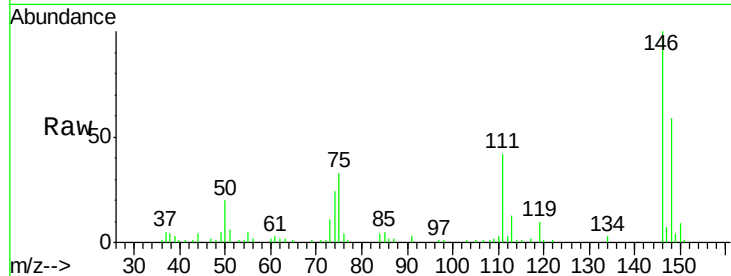




#62
 1,3-Dichlorobenzene
 Concen: 0.763 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037777.D
 Acq: 17 Apr 2020 15:55

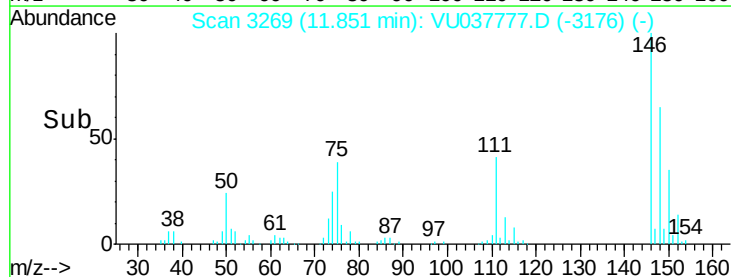
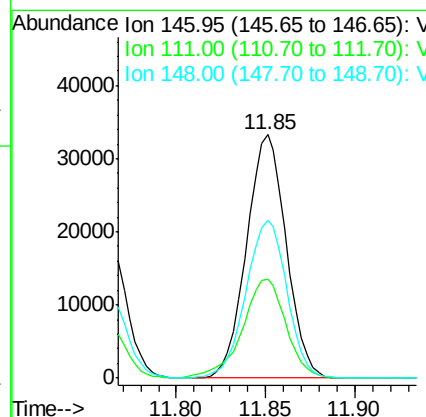
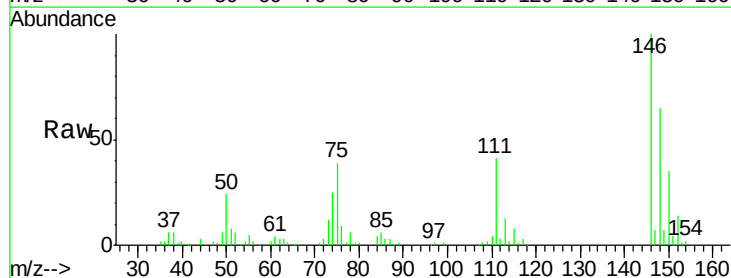
Instrument :
 MSVOA_U
 ClientSampleId :
 BFS89DL

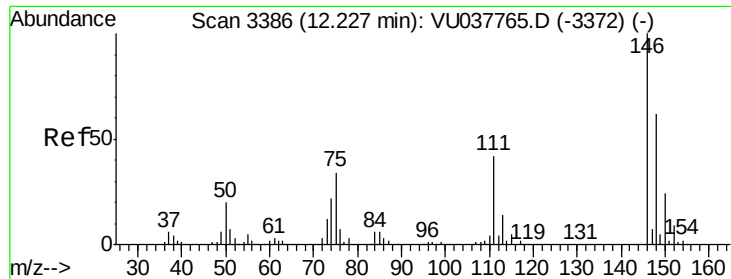
Tot Ion:146 Resp: 31525
 Ion Ratio Lower Upper
 146 100
 111 42.0 29.8 55.3
 148 59.3 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 1.250 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037777.D
 Acq: 17 Apr 2020 15:55

Tgt Ion:146 Resp: 51828
 Ion Ratio Lower Upper
 146 100
 111 40.8 28.4 52.8
 148 64.7 44.9 83.3





#65

1,2-Dichlorobenzene

Concen: 0.467 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037777.D

Acq: 17 Apr 2020 15:55

Instrument :

MSVOA_U

ClientSampled :

BFS89DL

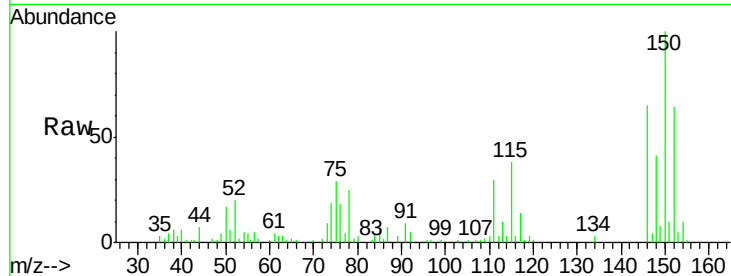
Tot Ion:146 Resp: 18191

Ion Ratio Lower Upper

146 100

111 46.0 35.0 52.6

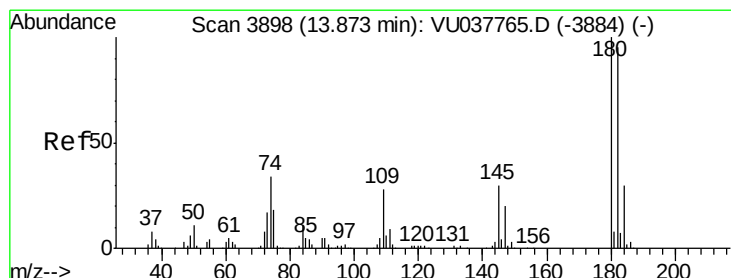
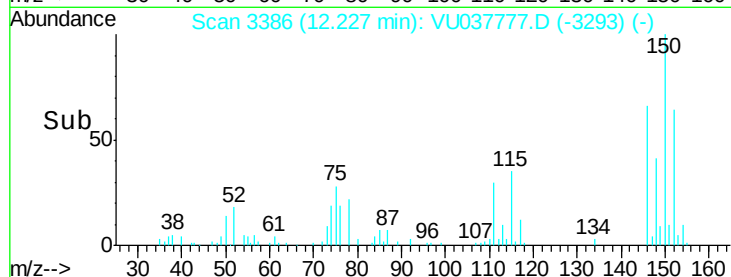
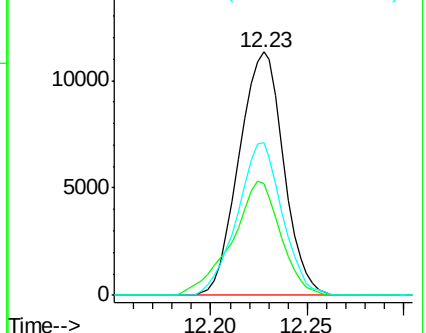
148 62.8 51.5 77.3



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



#68

1,2,4-trichlorobenzene

Concen: 0.505 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. -0.01 min

Lab File: VU037777.D

Acq: 17 Apr 2020 15:55

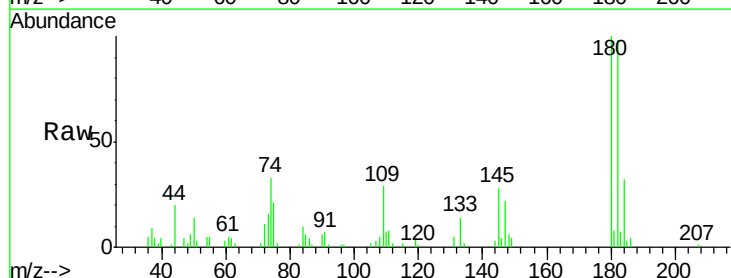
Tgt Ion:180 Resp: 14055

Ion Ratio Lower Upper

180 100

182 92.0 76.4 114.6

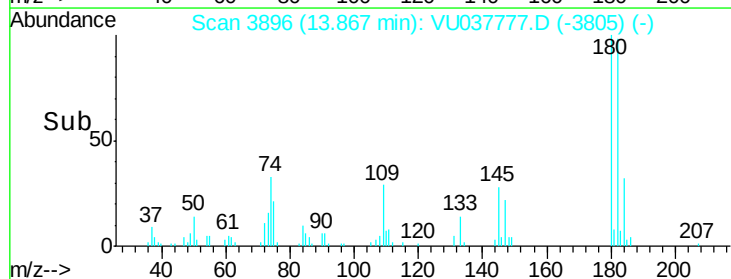
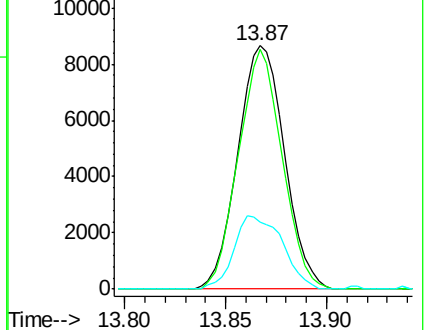
145 31.1 25.1 37.7

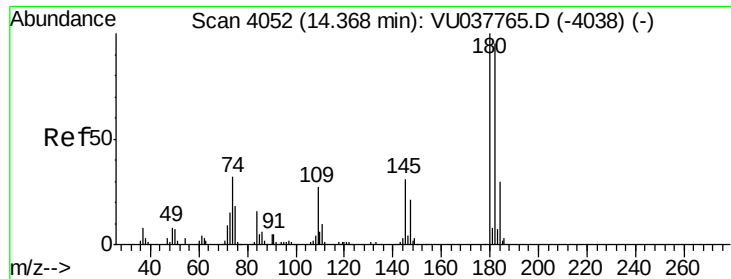


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V

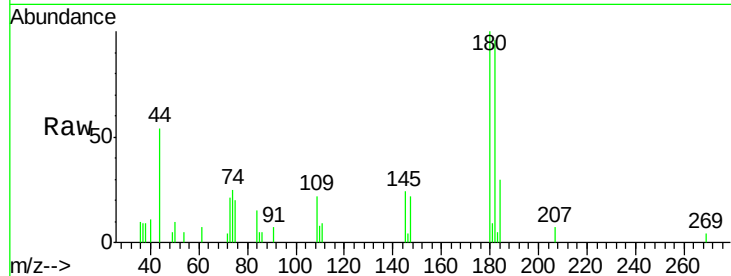




#70
 1,2,3-Trichlorobenzene
 Concen: 0.161 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU037777.D
 Acq: 17 Apr 2020 15:55

Instrument :
 MSVOA_U
 ClientSampleId :
 BFS89DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.6	115.0
145	33.1	26.7	40.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 181.90 (181.60 to 182.60): V
 Ion 144.95 (144.65 to 145.65): V

