

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\
 Data File : VU039647.D
 Acq On : 23 Jul 2020 19:47
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

sam
 7/30/2020 2:58:00 AM

Quant Time: Jul 29 08:51:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 24 01:59:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.27	114	190400	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	181008	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	84753	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	54392	43.88	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.76%
7) Chloroethane-d5	1.92	69	64325	43.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.60%
11) 1,1-Dichloroethene-d2	2.58	63	89676	34.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.36%
21) 2-Butanone-d5	4.65	46	132332	92.48	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.48%
24) Chloroform-d	5.09	84	125908	45.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.34%
26) 1,2-Dichloroethane-d4	5.72	65	91983	46.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.34%
32) Benzene-d6	5.75	84	240400	47.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.66%
36) 1,2-Dichloropropane-d6	6.70	67	79781	48.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.82%
41) Toluene-d8	7.91	98	217718	46.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.06%
43) trans-1,3-Dichloropropene-	8.19	79	36122	43.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.84%
47) 2-Hexanone-d5	8.64	63	84078	93.52	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.52%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	119258	45.69	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	91.38%
64) 1,2-Dichlorobenzene-d4	12.19	152	88099	47.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.08%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	2489	1.919	ug/L	97
3) Chloromethane	1.53	50	2894	2.148	ug/L	100
5) Vinyl chloride	1.61	62	3174	2.318	ug/L #	68
6) Bromomethane	1.87	94	2415	2.347	ug/L	100
8) Chloroethane	1.94	64	3221	2.645	ug/L	92
9) Trichlorofluoromethane	2.15	101	4906	2.027	ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	2949	2.532	ug/L #	76
12) 1,1-Dichloroethene	2.59	96	2952	2.718	ug/L #	1
13) Acetone	2.66	43	3443m	3.615	ug/L	
14) Carbon disulfide	2.81	76	7362	2.118	ug/L	99
15) Methyl Acetate	2.97	43	3299m	1.934	ug/L	
16) Methylene chloride	3.06	84	2903	2.232	ug/L	87
17) trans-1,2-Dichloroethene	3.38	96	2661	2.202	ug/L	86
18) Methyl tert-butyl Ether	3.39	73	7810	2.000	ug/L #	79
19) 1,1-Dichloroethane	3.89	63	5062	2.146	ug/L #	90
20) cis-1,2-Dichloroethene	4.69	96	2631	1.905	ug/L	92
22) 2-Butanone	4.73	43	5561m	4.144	ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072320\
 Data File : VU039647.D
 Acq On : 23 Jul 2020 19:47
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

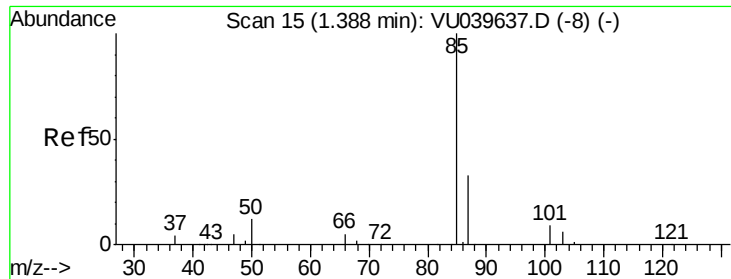
Manual Integrations
 APPROVED

sam
 7/30/2020 2:58:00 AM

Quant Time: Jul 29 08:51:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM072320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 24 01:59:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	1475	2.125	ug/L	93
25) Chloroform	5.11	83	10686	4.085	ug/L	97
27) 1,2-Dichloroethane	5.81	62	4713	2.173	ug/L #	95
29) Cyclohexane	5.41	56	4048	2.058	ug/L	90
30) 1,1,1-Trichloroethane	5.34	97	4698	2.168	ug/L	93
31) Carbon tetrachloride	5.54	117	3553	1.977	ug/L	92
33) Benzene	5.79	78	11066	2.218	ug/L	100
34) Trichloroethene	6.56	95	2638	1.999	ug/L	86
35) Methylcyclohexane	6.77	83	3805	1.865	ug/L #	86
37) 1,2-Dichloropropane	6.80	63	3205	2.373	ug/L #	89
38) Bromodichloromethane	7.11	83	3774	2.104	ug/L #	92
39) cis-1,3-Dichloropropene	7.62	75	3875	1.920	ug/L	90
40) 4-Methyl-2-pentanone	7.80	43	9141	3.885	ug/L	98
42) Toluene	7.98	91	11430	2.083	ug/L	99
44) trans-1,3-Dichloropropene	8.22	75	4374	2.213	ug/L	92
45) 1,1,2-Trichloroethane	8.41	97	2617	2.032	ug/L	95
46) Tetrachloroethene	8.56	164	2030	2.034	ug/L #	72
48) 2-Hexanone	8.69	43	12390	6.462	ug/L	93
49) Dibromochloromethane	8.82	129	2854	1.963	ug/L	92
50) 1,2-Dibromoethane	8.93	107	2640	1.842	ug/L #	88
51) Chlorobenzene	9.45	112	7135	2.038	ug/L	98
52) Ethylbenzene	9.57	91	12006	1.980	ug/L	97
53) m,p-Xylene	9.70	106	4010	1.755	ug/L	97
54) o-xylene	10.10	106	4350	1.984	ug/L	93
55) Styrene	10.12	104	6430	1.694	ug/L	100
56) Isopropylbenzene	10.48	105	11055	1.857	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	5194	2.212	ug/L #	95
59) 1,2,3-Trichloropropane	10.83	75	3835	1.957	ug/L	93
61) Bromoform	10.29	173	1748	1.744	ug/L #	96
62) 1,3-Dichlorobenzene	11.74	146	5377	2.071	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	5857	2.252	ug/L	93
65) 1,2-Dichlorobenzene	12.21	146	5766	2.198	ug/L	91
66) 1,2-Dibromo-3-chloropropan	12.99	75	985m	1.877	ug/L	
67) 1,3,5-Trichlorobenzene	13.21	180	3767	2.012	ug/L	92
68) 1,2,4-trichlorobenzene	13.83	180	3006	1.892	ug/L #	88
69) Naphthalene	14.08	128	7936	1.665	ug/L	97
70) 1,2,3-Trichlorobenzene	14.32	180	2943	1.834	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 1.919 ug/L

RT: 1.39 min Scan# 16

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 2489

Ion Ratio Lower Upper

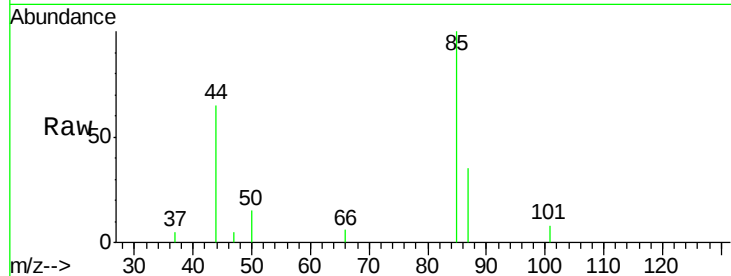
85 100

87 34.7 26.2 39.4

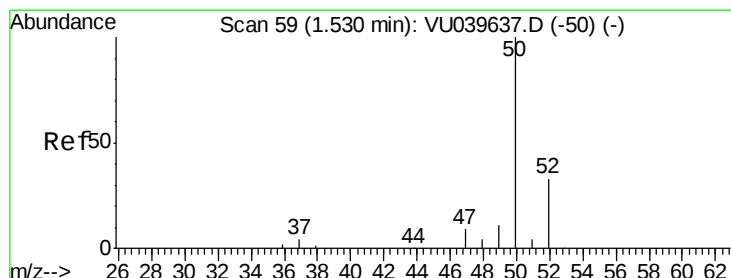
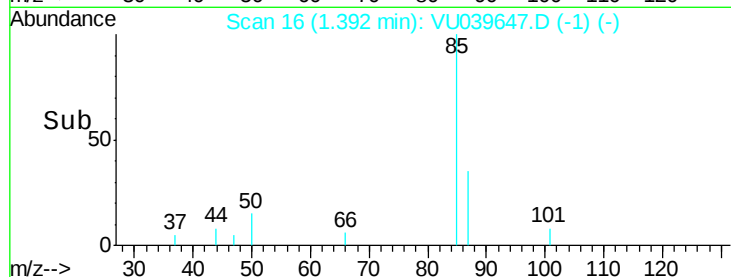
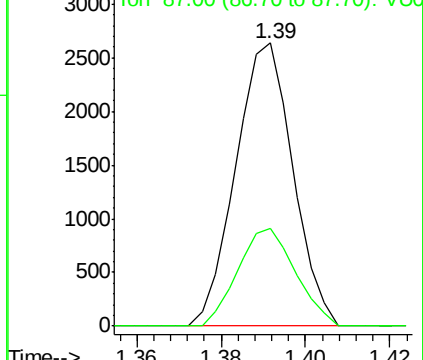
Manual Integrations
APPROVED

sam

7/30/2020 2:58:00 AM



Abundance Ion 85.00 (84.70 to 85.70): VU039637.D (-8) (-)



#3

Chloromethane

Concen: 2.148 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU039647.D

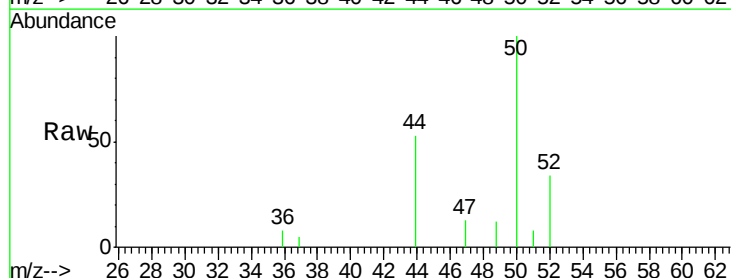
Acq: 23 Jul 2020 19:47

Tgt Ion: 50 Resp: 2894

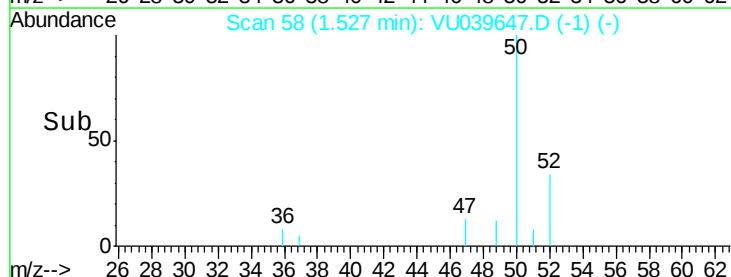
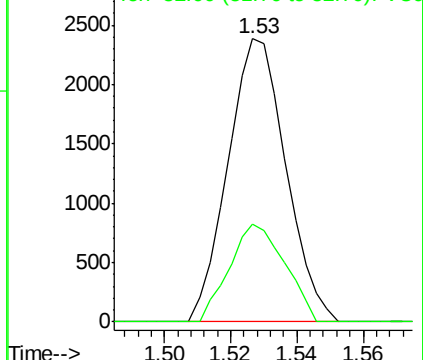
Ion Ratio Lower Upper

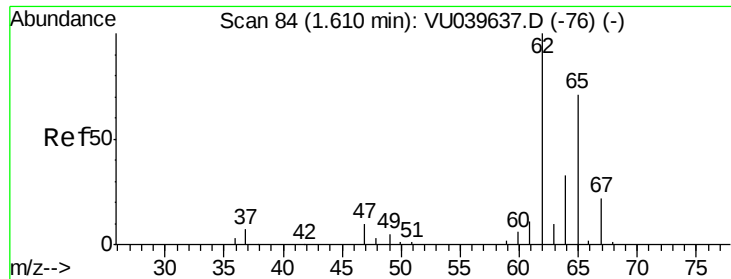
50 100

52 34.5 24.0 44.6



Abundance Ion 50.00 (49.70 to 50.70): VU039637.D (-50) (-)





#5

Vinyl chloride

Concen: 2.318 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 62 Resp: 3174

Ion Ratio Lower Upper

62 100

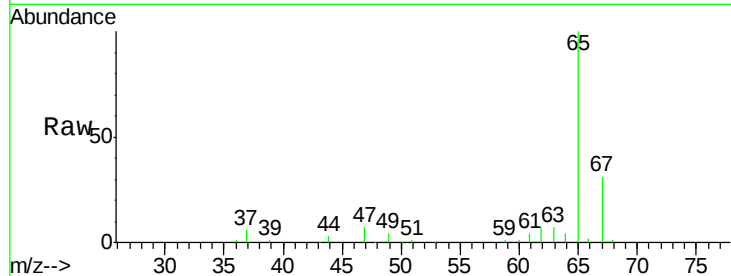
64 50.7 22.8 42.4#

Manual Integrations

APPROVED

sam

7/30/2020 2:58:00 AM



Abundance Ion 62.00 (61.70 to 62.70): VU039647.D (-76) (-)

Ion 64.00 (63.70 to 64.70): VU039647.D (-76) (-)

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

1.61

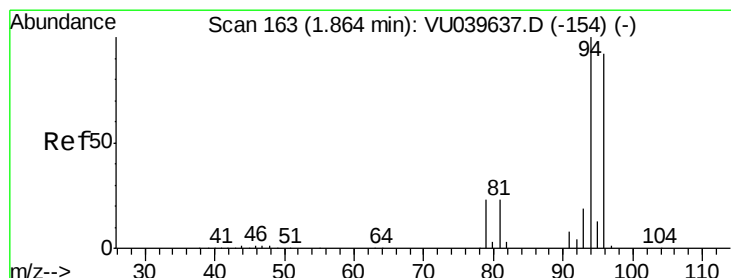
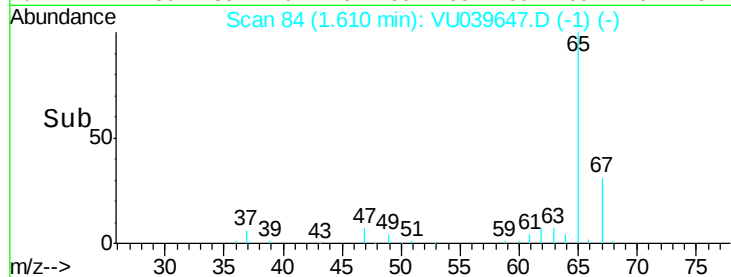
1.61

1.61

1.61

1.61

1.61



#6

Bromomethane

Concen: 2.347 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039647.D

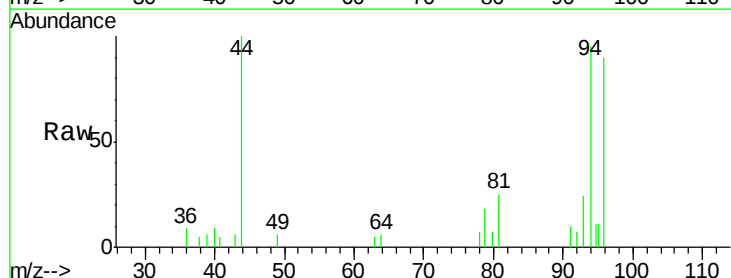
Acq: 23 Jul 2020 19:47

Tgt Ion: 94 Resp: 2415

Ion Ratio Lower Upper

94 100

96 94.1 65.7 122.1



Abundance Ion 94.00 (93.70 to 94.70): VU039647.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU039647.D (-154) (-)

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

1.87

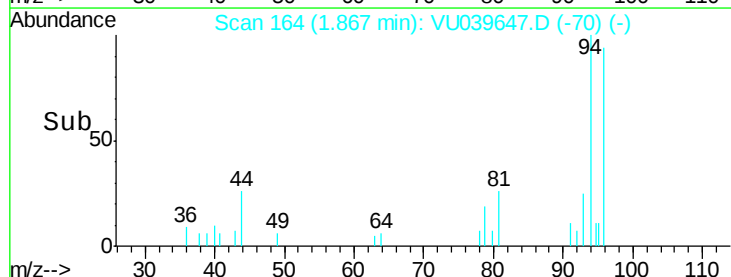
1.87

1.87

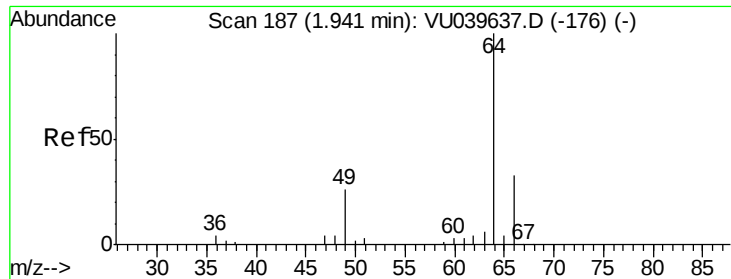
1.87

1.87

1.87



Time-->



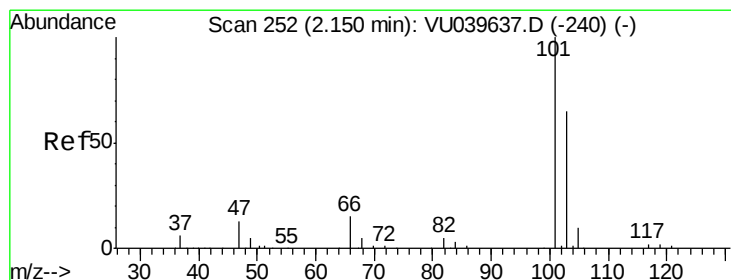
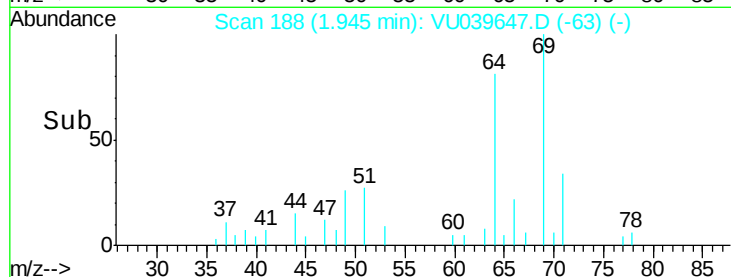
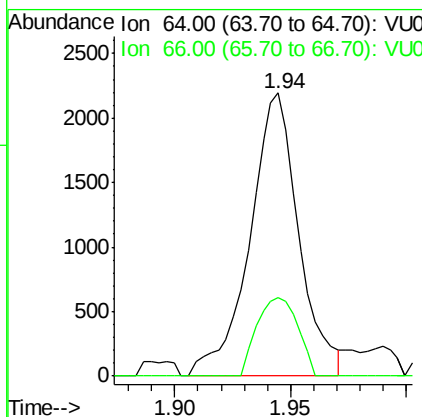
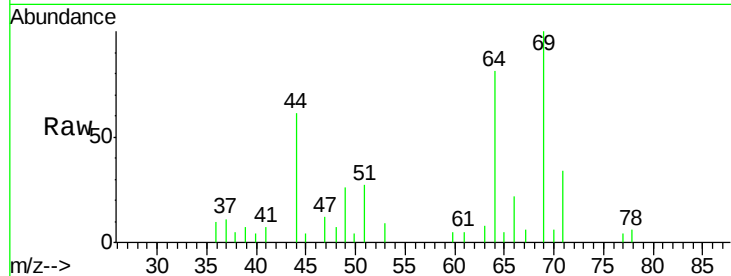
#8
Chloroethane
Concen: 2.645 ug/L
RT: 1.94 min Scan# 188
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion: 64 Resp: 3221
Ion Ratio Lower Upper
64 100
66 27.8 22.7 42.1

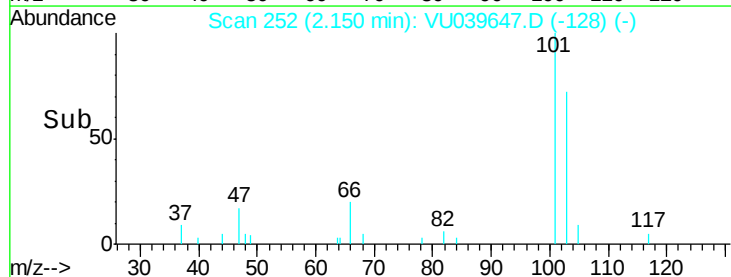
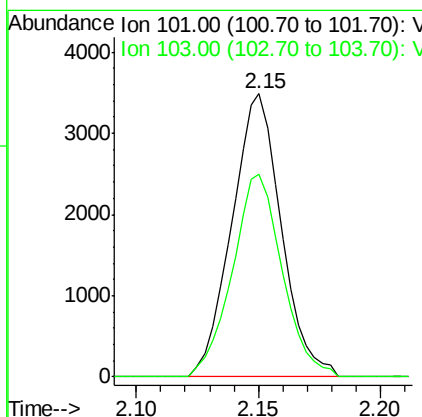
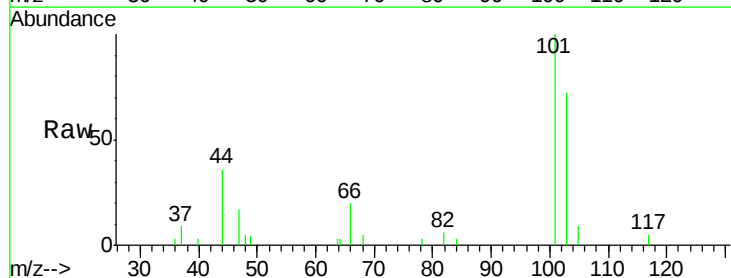
Manual Integrations
APPROVED

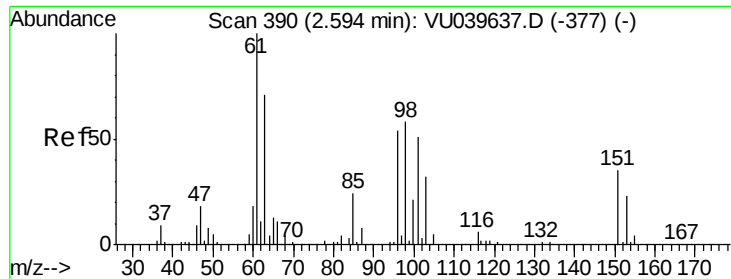
sam
7/30/2020 2:58:00 AM



#9
Trichlorofluoromethane
Concen: 2.027 ug/L
RT: 2.15 min Scan# 252
Delta R.T. -0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Tgt Ion: 101 Resp: 4906
Ion Ratio Lower Upper
101 100
103 72.0 52.8 79.2





#10

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

Concen: 2.532 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

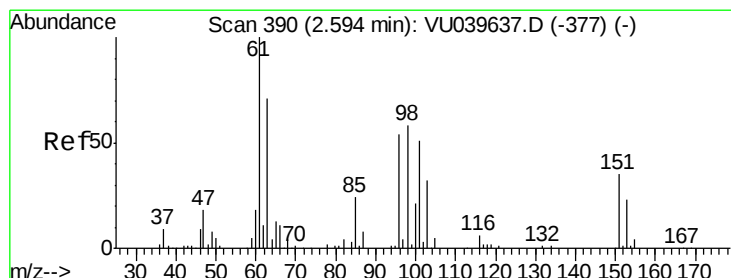
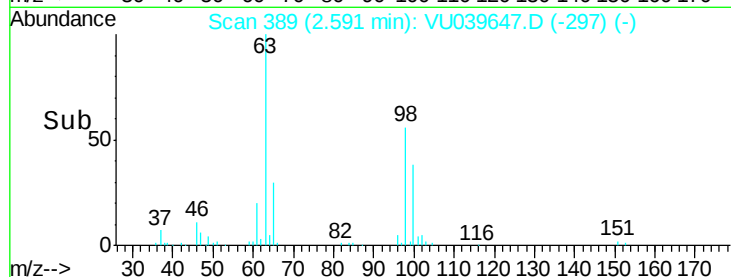
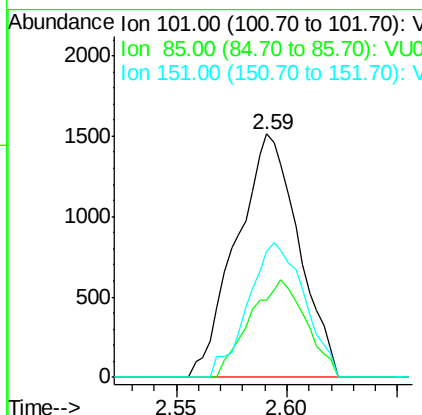
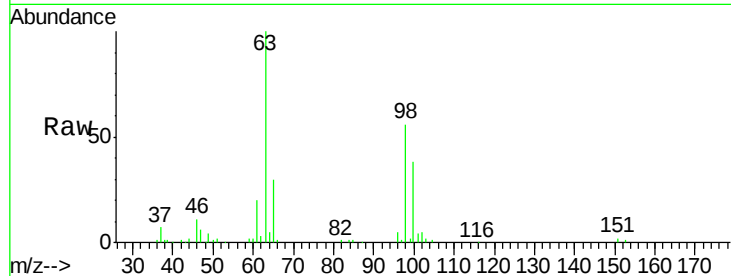
ClientSampleId :

MDL01

Tot Ion:	101	Resp:	2949
Ion Ratio	Lower	Upper	
101	100		
85	36.3	39.7	59.5#
151	48.6	57.4	86.2#

Manual Integrations
APPROVED

sam
7/30/2020 2:58:00 AM



#12

1,1-Dichloroethene

Concen: 2.718 ug/L

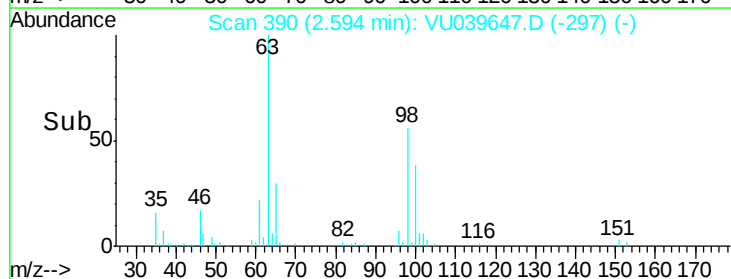
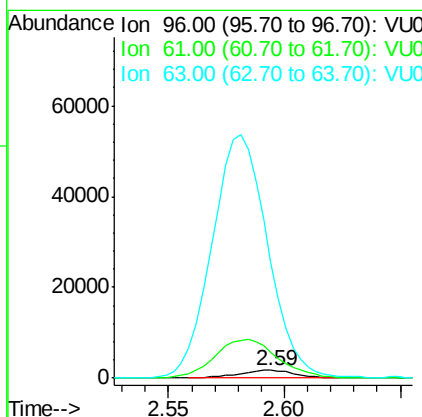
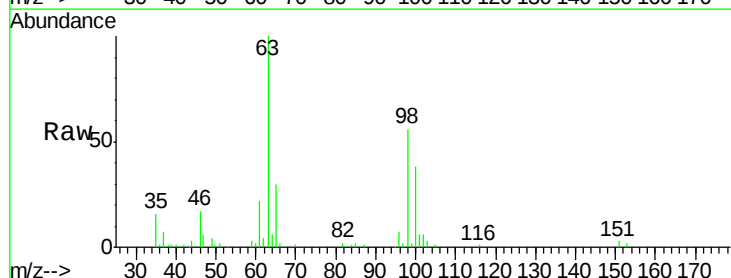
RT: 2.59 min Scan# 390

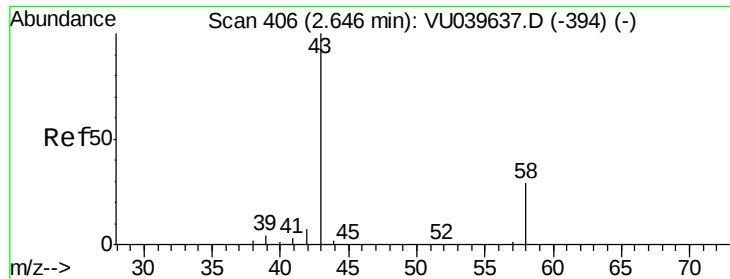
Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Tgt Ion:	96	Resp:	2952
Ion Ratio	Lower	Upper	
96	100		
61	333.0	136.6	253.6#
63	1487.8	97.2	180.6#





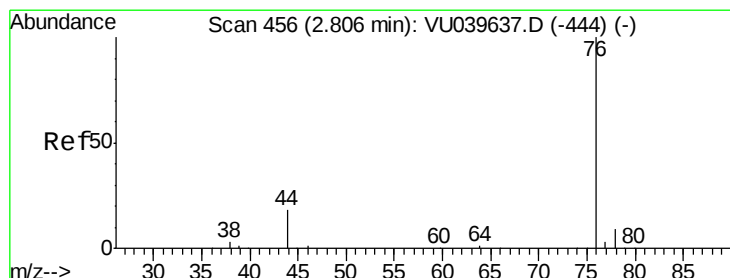
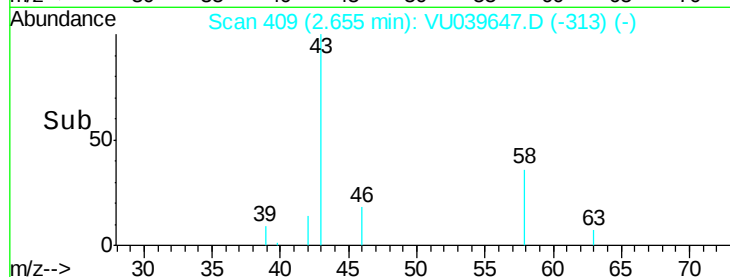
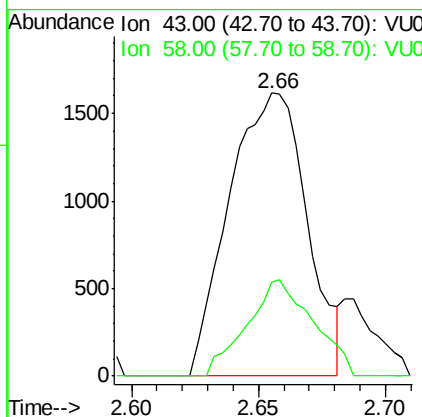
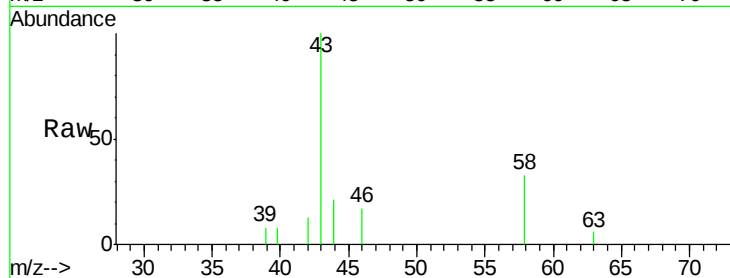
#13
Acetone
Concen: 3.615 ug/L m
RT: 2.66 min Scan# 409
Delta R.T. 0.01 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	29.1	0.0	59.4

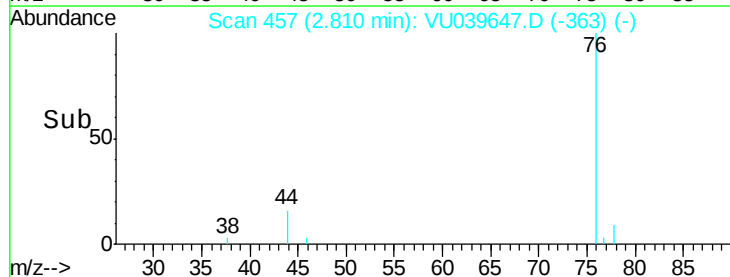
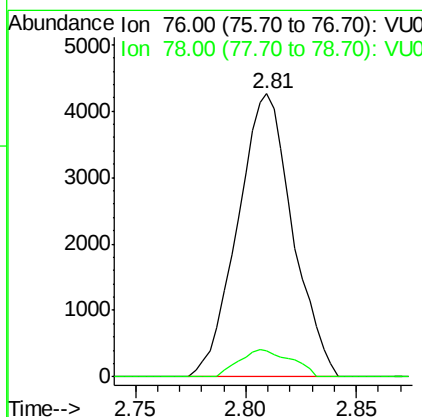
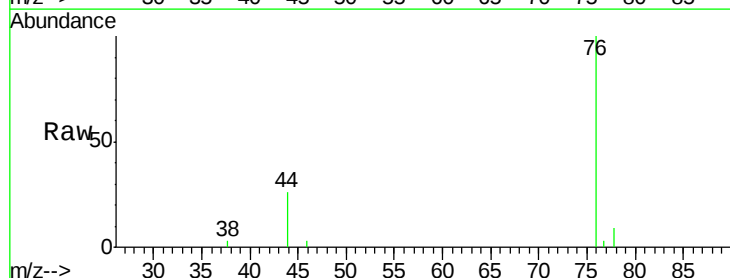
Manual Integrations
APPROVED

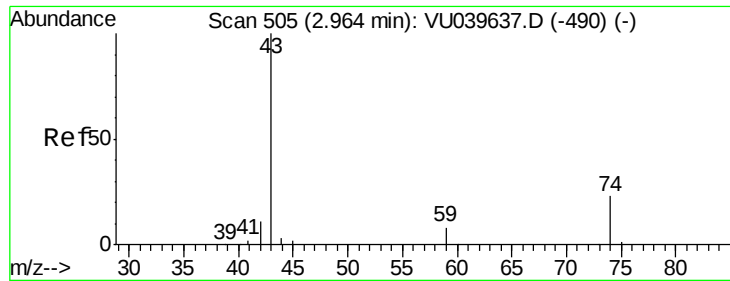
sam
7/30/2020 2:58:00 AM



#14
Carbon disulfide
Concen: 2.118 ug/L
RT: 2.81 min Scan# 457
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9





#15

Methyl Acetate

Concen: 1.934 ug/L m

RT: 2.97 min Scan# 506

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 3299

Ion Ratio Lower Upper

43 100

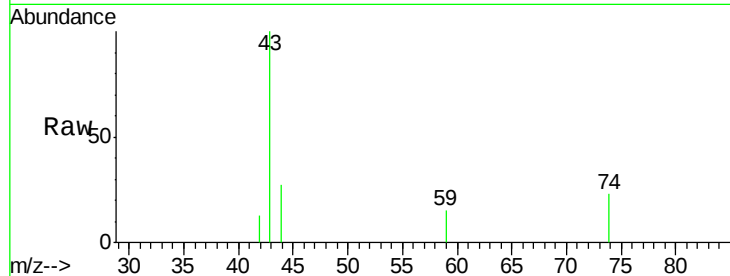
74 16.6 17.4 26.0#

Manual Integrations

APPROVED

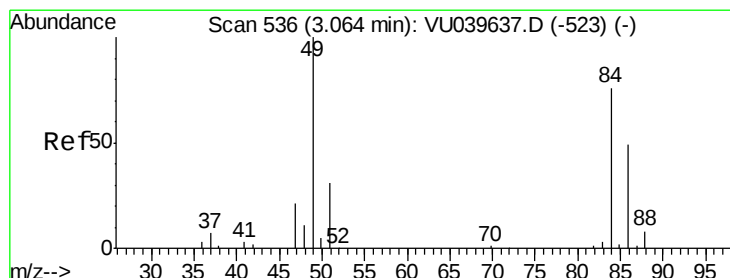
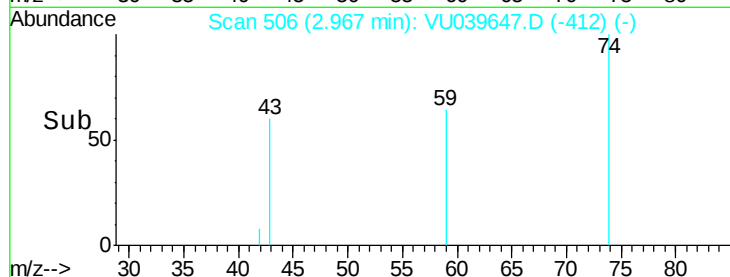
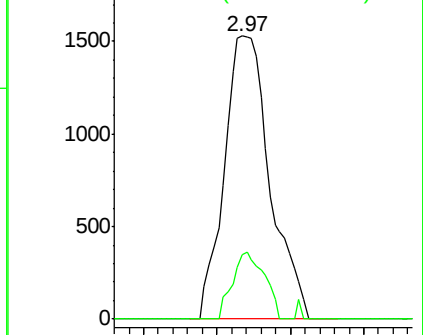
sam

7/30/2020 2:58:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VU039647.D (-490) (-)

Ion 74.00 (73.70 to 74.70): VU039647.D (-490) (-)



#16

Methylene chloride

Concen: 2.232 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

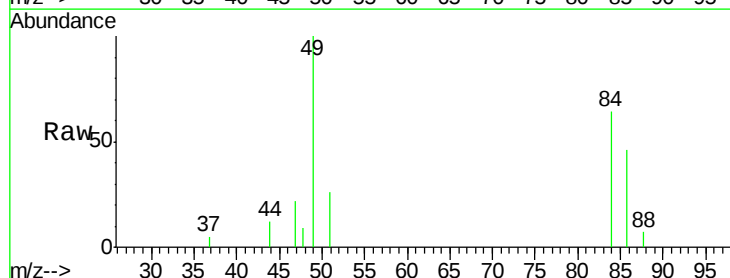
Tgt Ion: 84 Resp: 2903

Ion Ratio Lower Upper

84 100

86 72.7 46.2 85.8

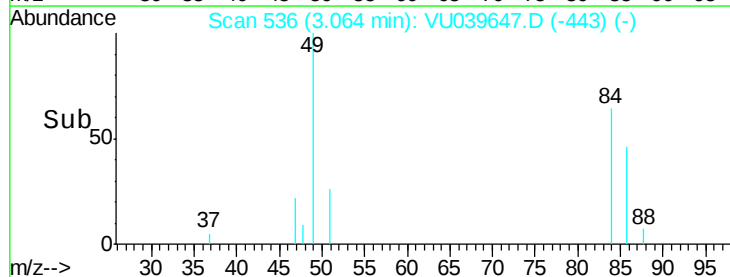
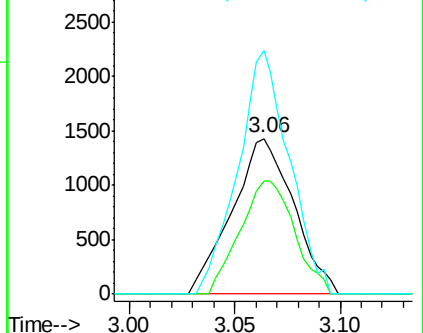
49 156.6 97.3 180.7

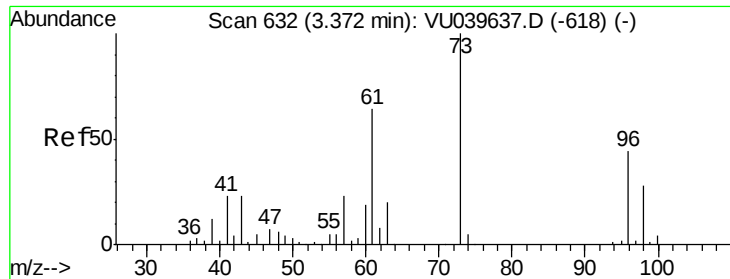


Abundance Ion 84.00 (83.70 to 84.70): VU039647.D (-523) (-)

Ion 86.00 (85.70 to 86.70): VU039647.D (-523) (-)

Ion 49.00 (48.70 to 49.70): VU039647.D (-523) (-)





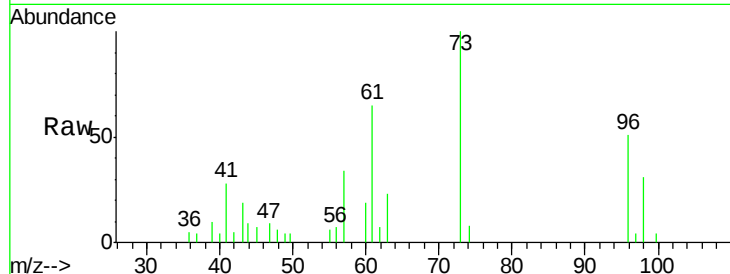
#17
trans-1,2-Dichloroethene
Concen: 2.202 ug/L
RT: 3.38 min Scan# 633
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Instrument :
MSVOA_U
ClientSampleID :
MDL01

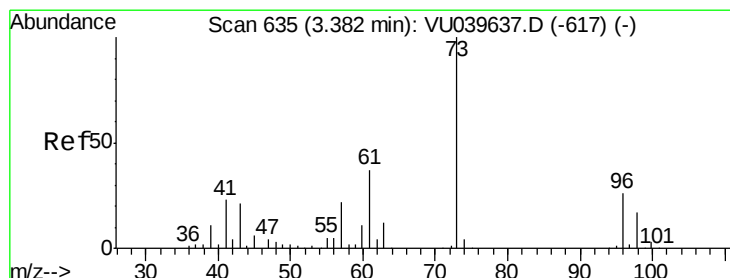
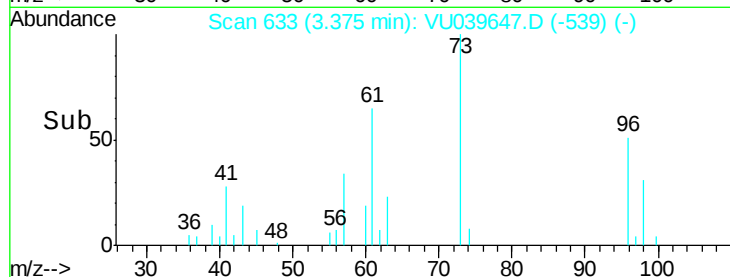
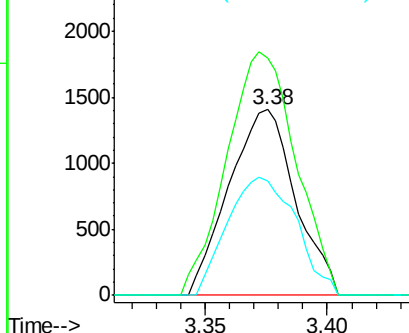
Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	127.6	106.7	198.1	
98	61.3	44.3	82.3	

Manual Integrations
APPROVED

sam
7/30/2020 2:58:00 AM

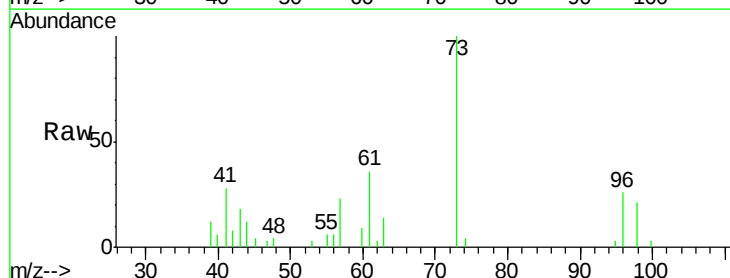


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

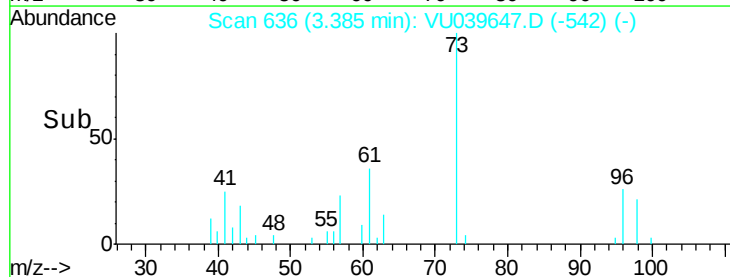
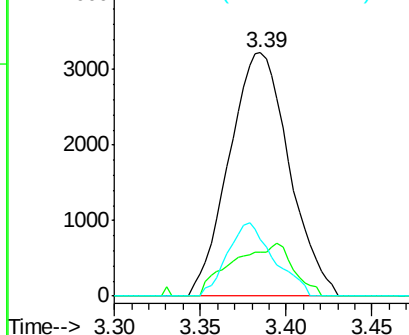


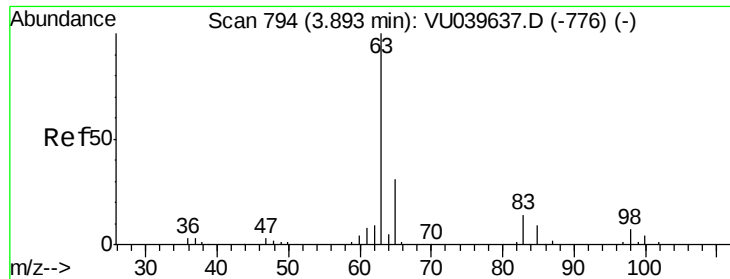
#18
Methyl tert-butyl Ether
Concen: 2.000 ug/L
RT: 3.39 min Scan# 636
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Tgt Ion	Ion	Ratio	Lower	Upper
73	100			
43	3.8	18.2	27.2#	
57	23.2	17.4	26.2	



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





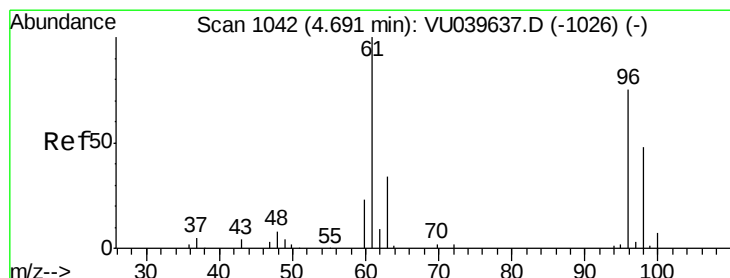
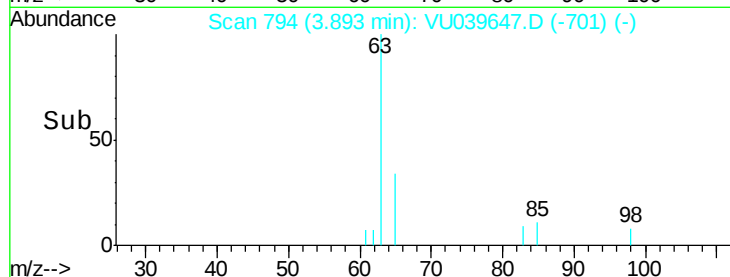
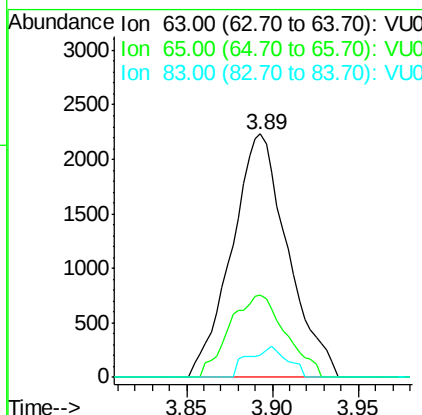
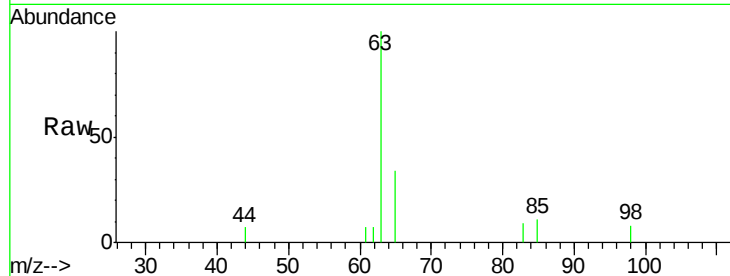
#19
 1,1-Dichloroethane
 Concen: 2.146 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.9	20.4	38.0
83	9.0	9.7	18.1

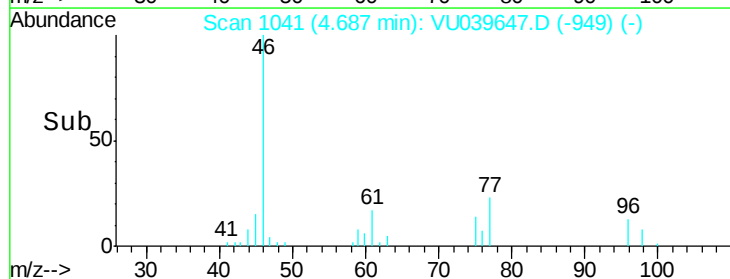
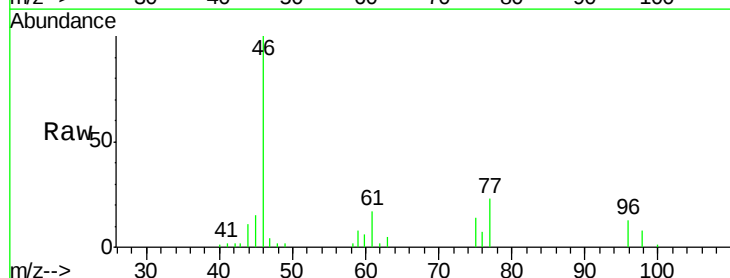
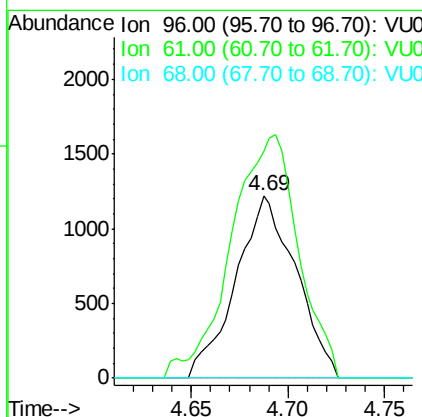
Manual Integrations
 APPROVED

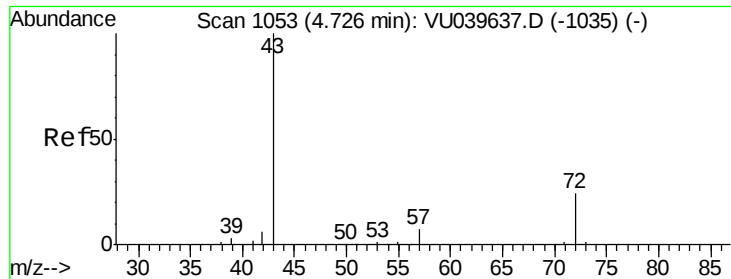
sam
 7/30/2020 2:58:00 AM



#20
 cis-1,2-Dichloroethene
 Concen: 1.905 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.4	94.0	174.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.144 ug/L m

RT: 4.73 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 5561

Ion Ratio Lower Upper

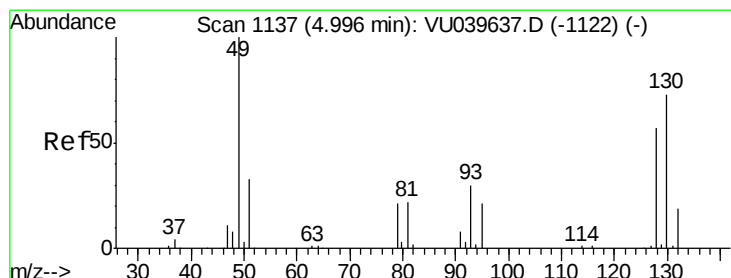
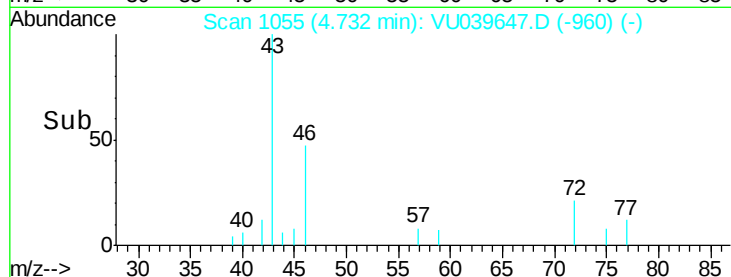
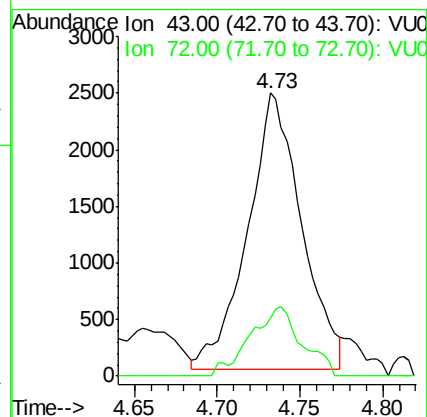
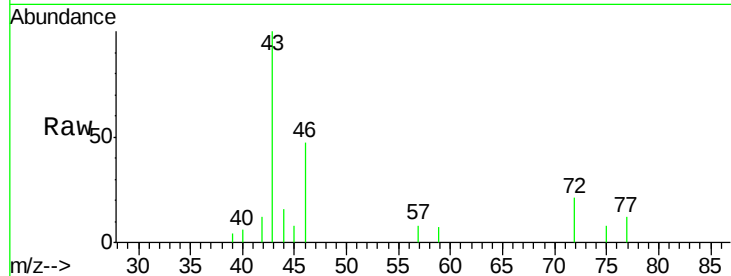
43 100

72 16.2 12.8 38.3

Manual Integrations
APPROVED

sam

7/30/2020 2:58:00 AM



#23

Bromochloromethane

Concen: 2.125 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Tgt Ion: 128 Resp: 1475

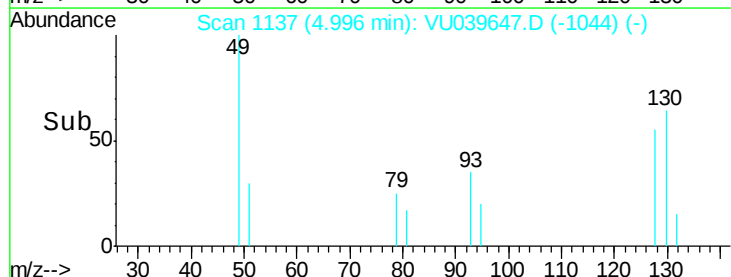
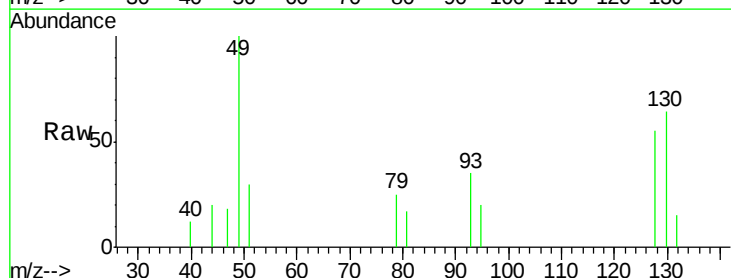
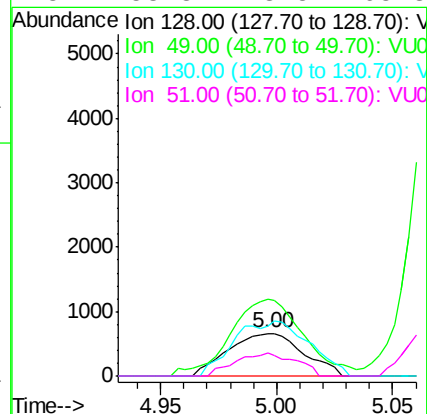
Ion Ratio Lower Upper

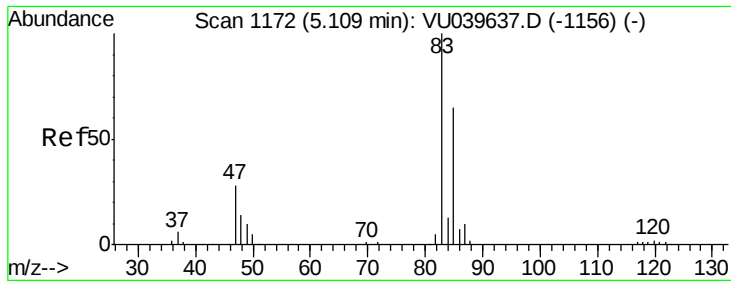
128 100

49 180.8 124.5 231.3

130 116.6 94.4 175.2

51 53.8 43.5 65.3





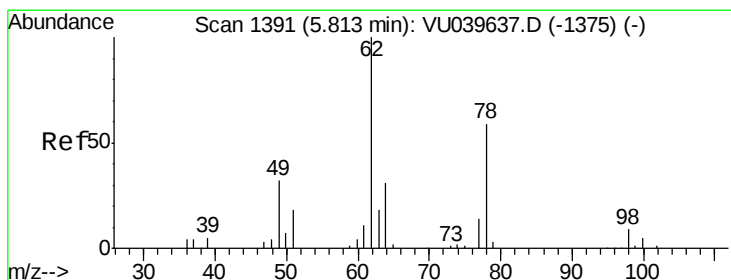
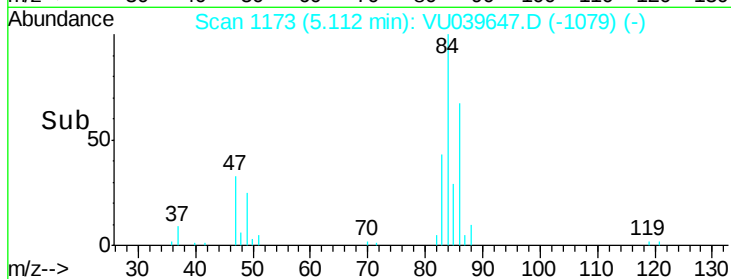
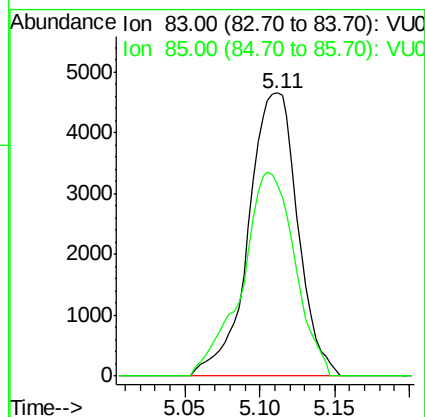
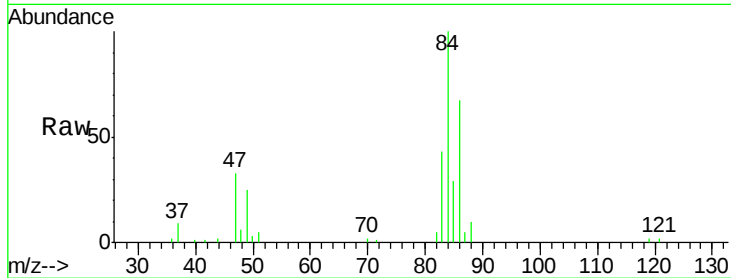
#25
Chloroform
Concen: 4.085 ug/L
RT: 5.11 min Scan# 1173
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	83	Resp	10686
Ion Ratio	100	Lower	Upper
85	67.5	45.6	84.6

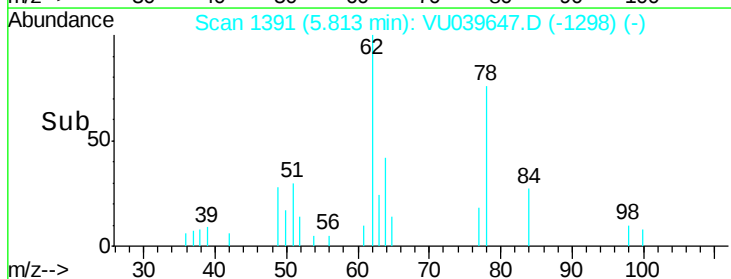
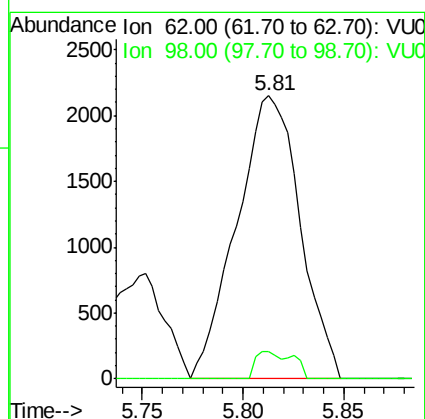
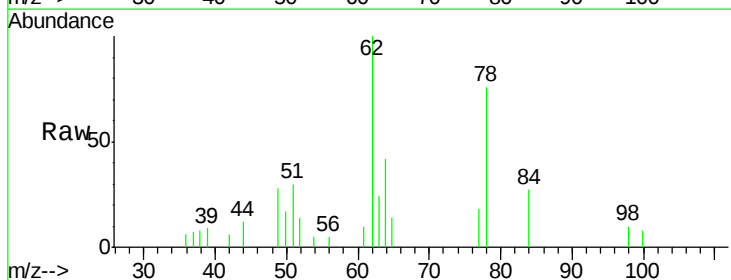
Manual Integrations
APPROVED

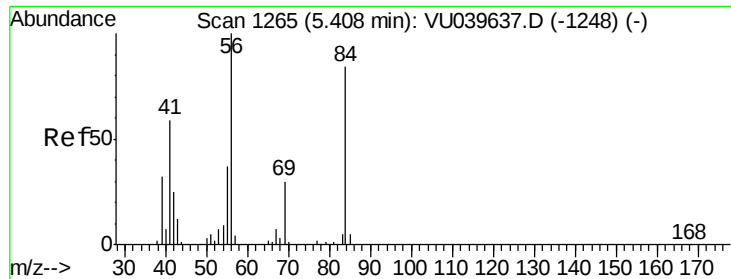
sam
7/30/2020 2:58:00 AM



#27
1,2-Dichloroethane
Concen: 2.173 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. -0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Tgt Ion	62	Resp	4713
Ion Ratio	100	Lower	Upper
98	9.8	6.4	9.6#





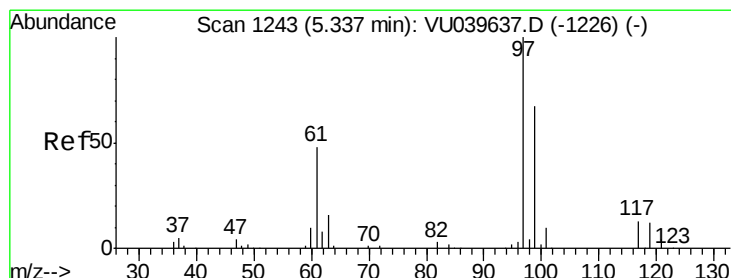
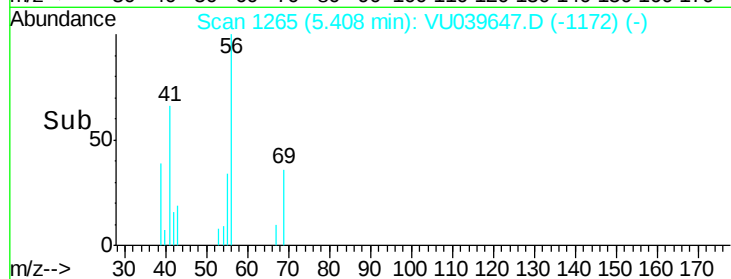
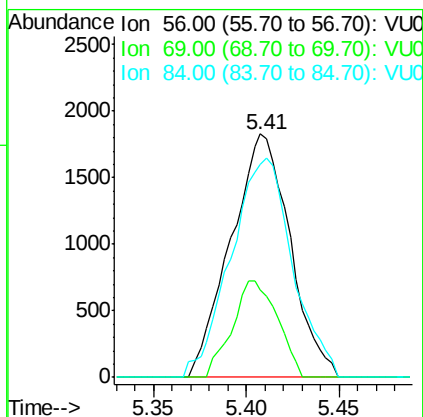
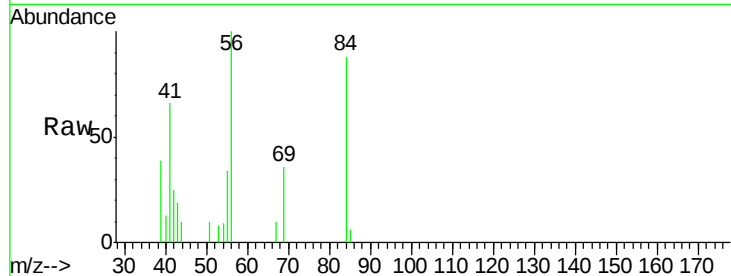
#29
Cyclohexane
Concen: 2.058 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion:	56	Resp:	4048
Ion	Ratio	Lower	Upper
56	100		
69	30.2	23.9	35.9
84	94.1	65.8	98.8

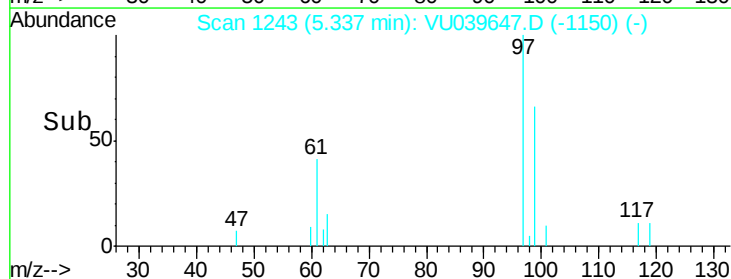
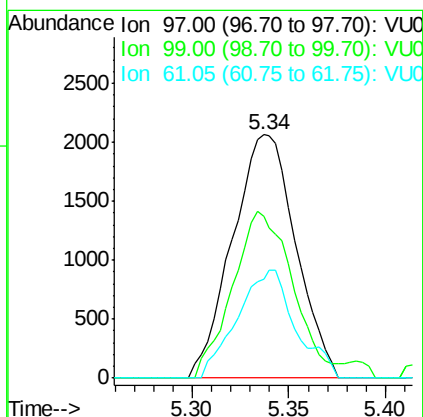
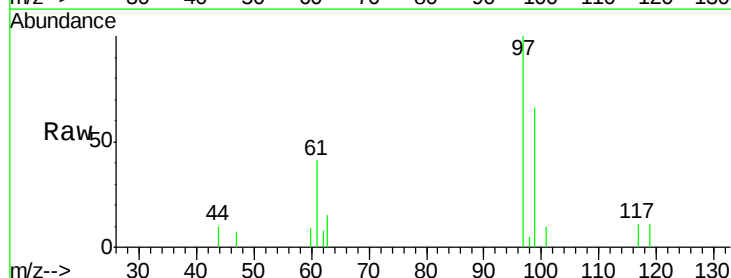
Manual Integrations
APPROVED

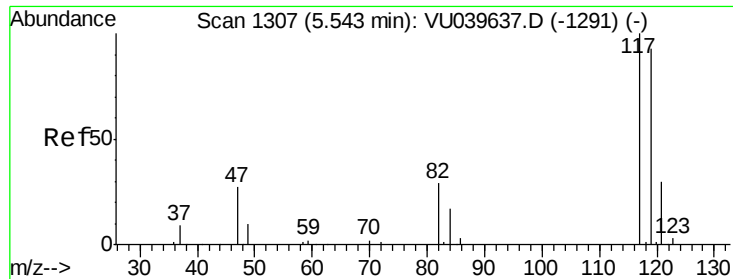
sam
7/30/2020 2:58:00 AM



#30
1,1,1-Trichloroethane
Concen: 2.168 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. -0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Tgt Ion:	97	Resp:	4698
Ion	Ratio	Lower	Upper
97	100		
99	65.4	50.3	75.5
61	37.5	36.0	54.0





#31

Carbon tetrachloride

Concen: 1.977 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:117 Resp: 3553

Ion Ratio Lower Upper

117 100

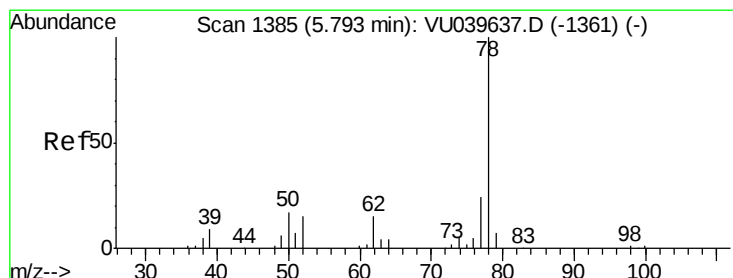
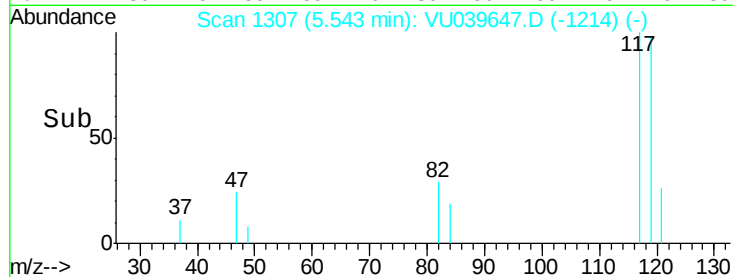
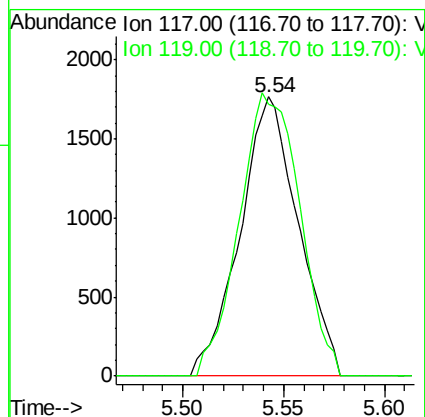
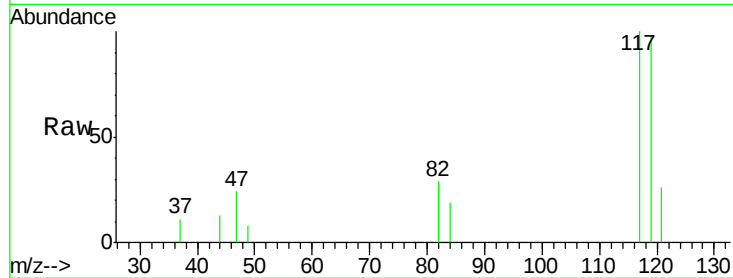
119 105.7 78.2 117.4

Manual Integrations

APPROVED

sam

7/30/2020 2:58:00 AM



#33

Benzene

Concen: 2.218 ug/L

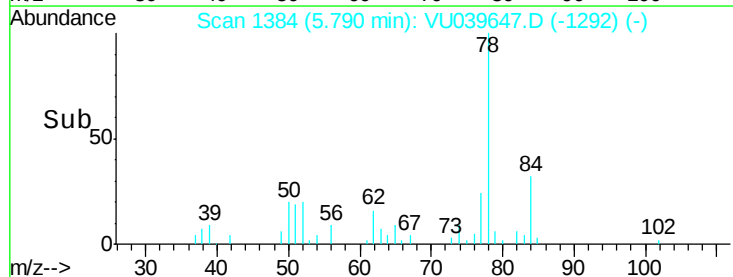
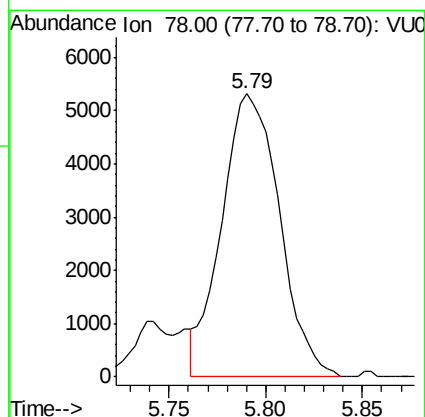
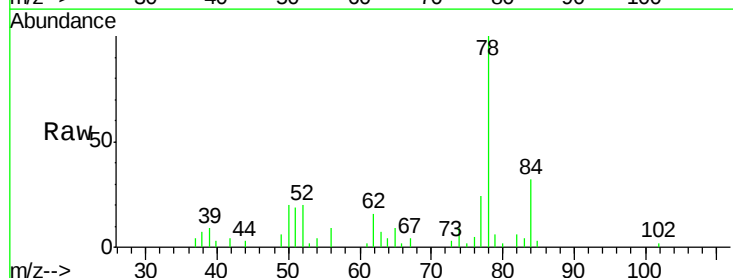
RT: 5.79 min Scan# 1384

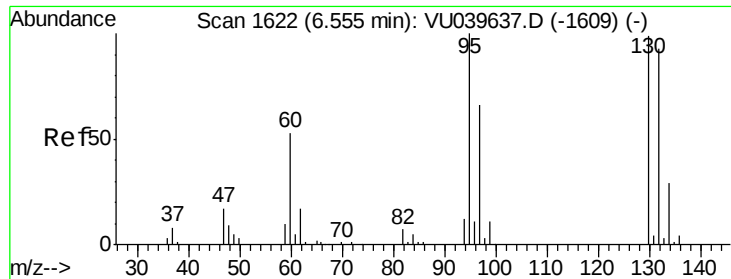
Delta R.T. -0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Tgt Ion: 78 Resp: 11066





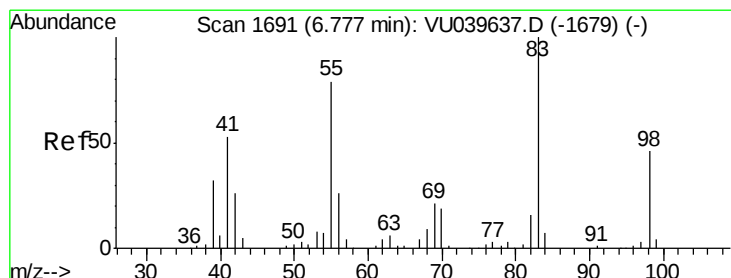
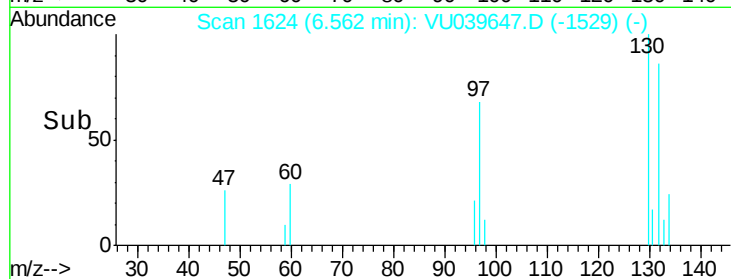
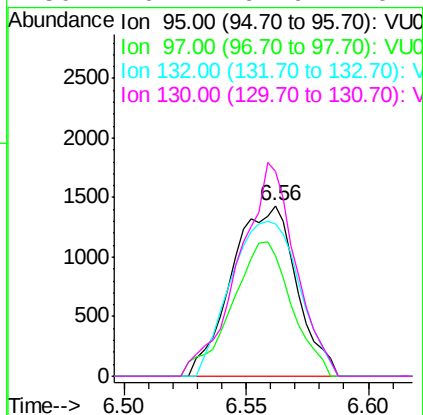
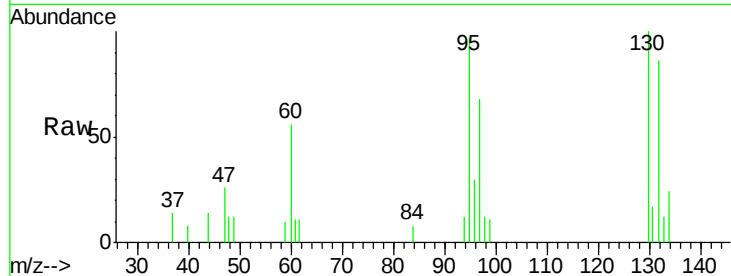
#34
 Trichloroethene
 Concen: 1.999 ug/L
 RT: 6.56 min Scan# 1624
 Delta R.T. 0.01 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
95	100		
97	70.2	45.5	84.5
132	101.0	65.0	120.6
130	120.4	67.9	126.1

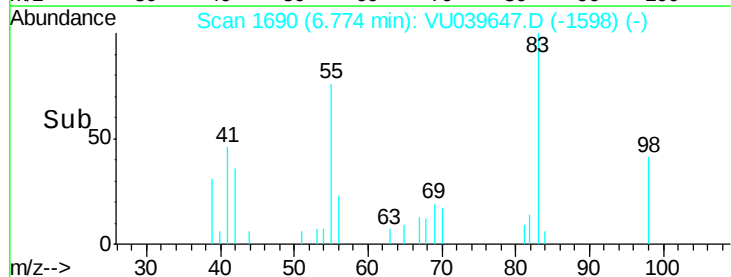
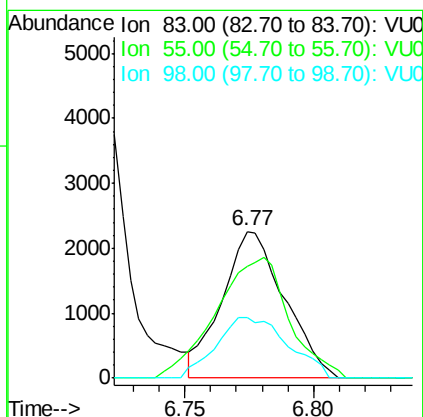
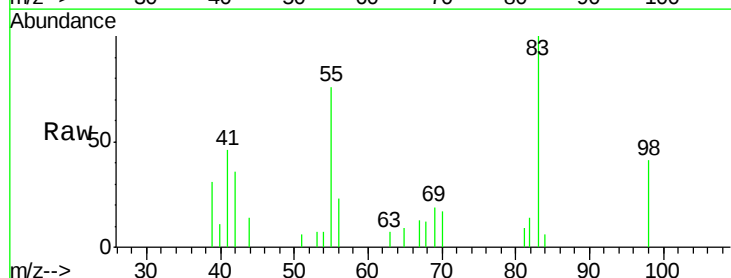
Manual Integrations
 APPROVED

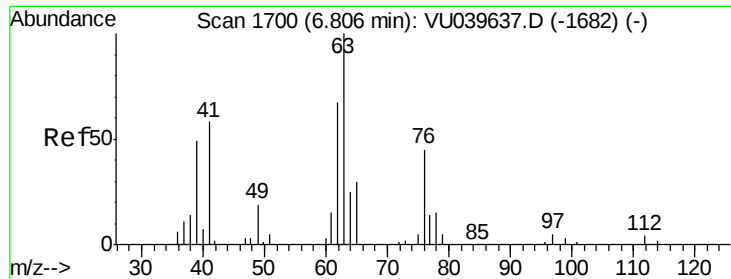
sam
 7/30/2020 2:58:00 AM



#35
 Methylcyclohexane
 Concen: 1.865 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Tgt Ion	Ratio	Lower	Upper
83	100		
55	96.4	62.9	94.3#
98	47.6	36.3	54.5





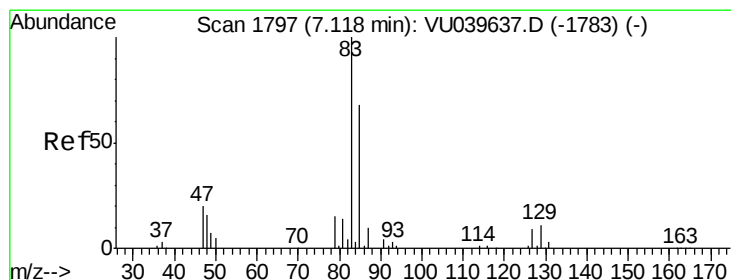
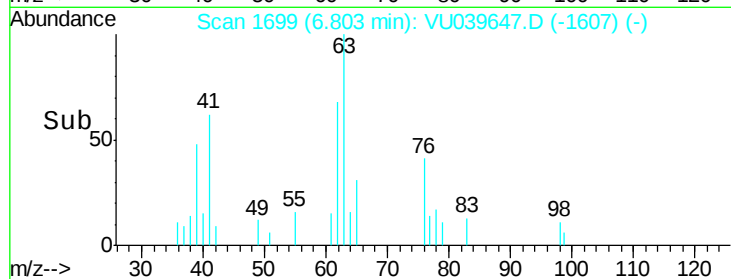
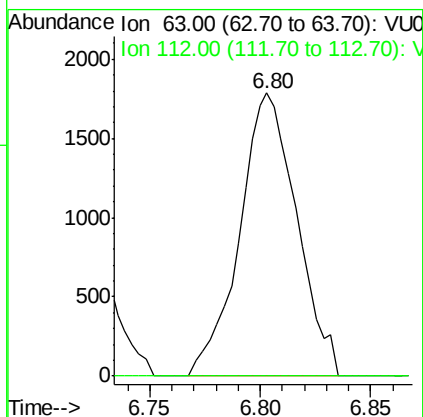
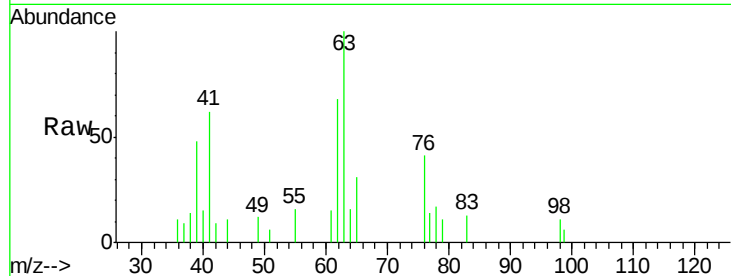
#37
 1,2-Dichloropropane
 Concen: 2.373 ug/L
 RT: 6.80 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 3205
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.0 4.4#

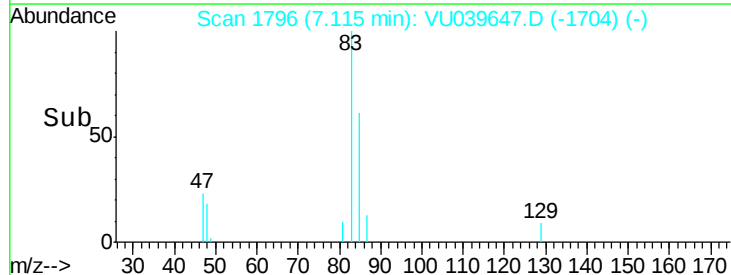
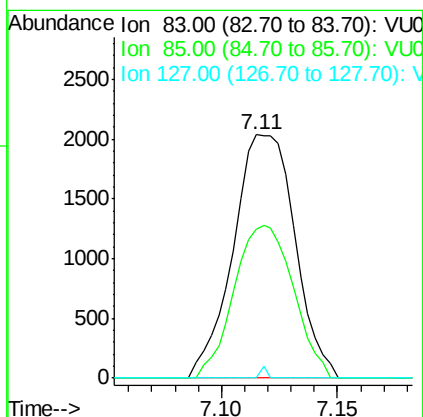
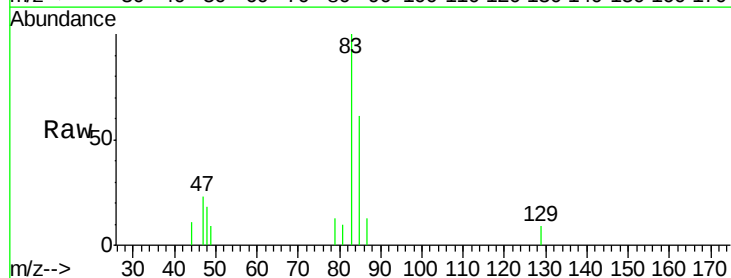
Manual Integrations
 APPROVED

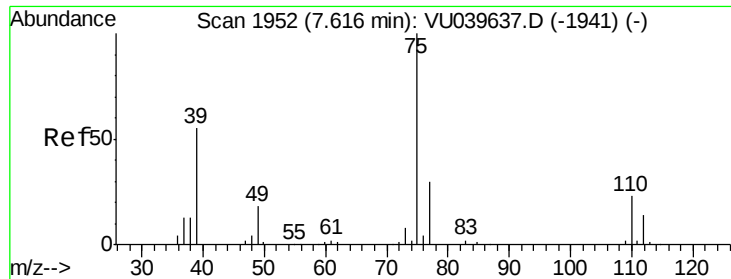
sam
 7/30/2020 2:58:00 AM



#38
 Bromodichloromethane
 Concen: 2.104 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Tgt Ion: 83 Resp: 3774
 Ion Ratio Lower Upper
 83 100
 85 60.9 45.9 85.3
 127 0.0 7.4 11.2#





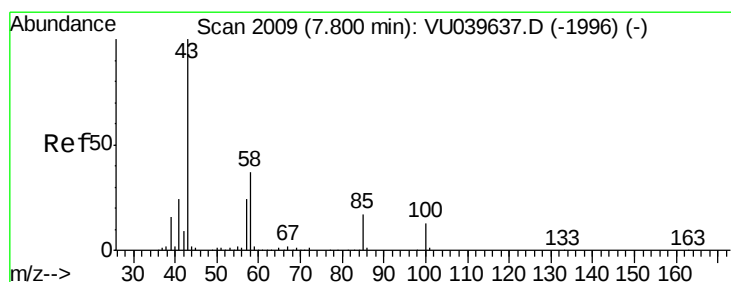
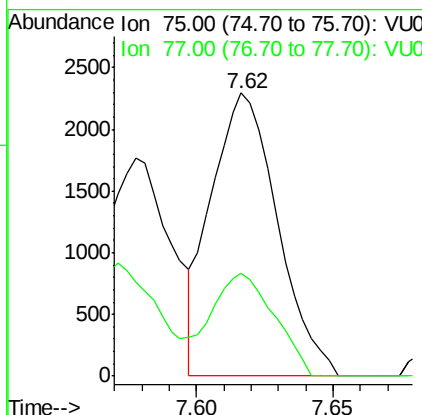
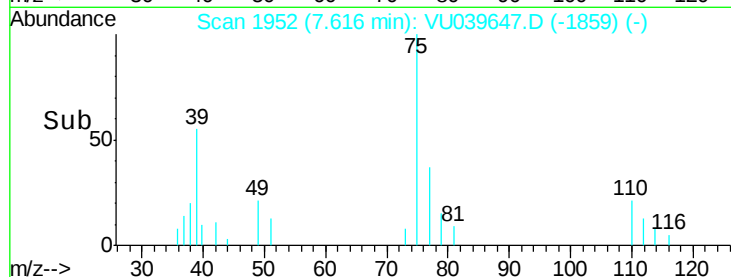
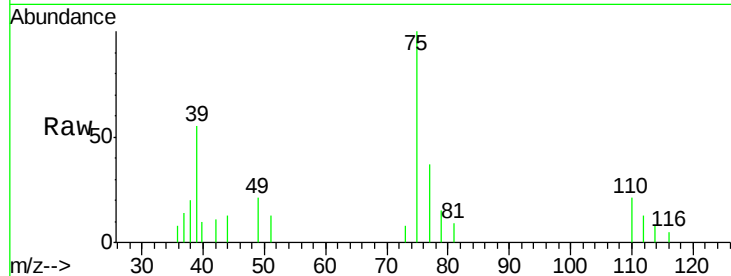
#39
 cis-1,3-Dichloropropene
 Concen: 1.920 ug/L
 RT: 7.62 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 75 Resp: 3875
 Ion Ratio Lower Upper
 75 100
 77 36.5 21.8 40.6

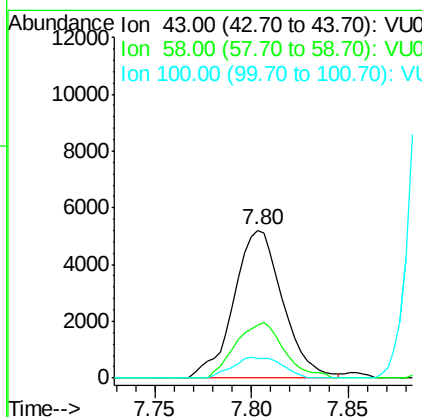
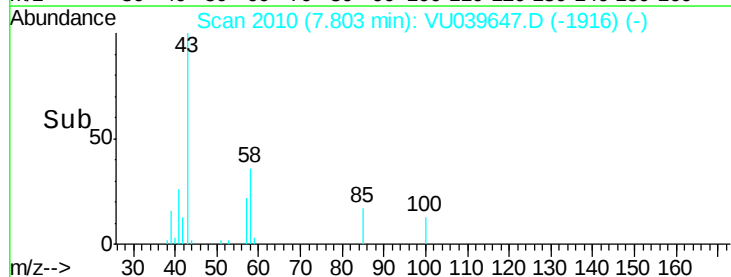
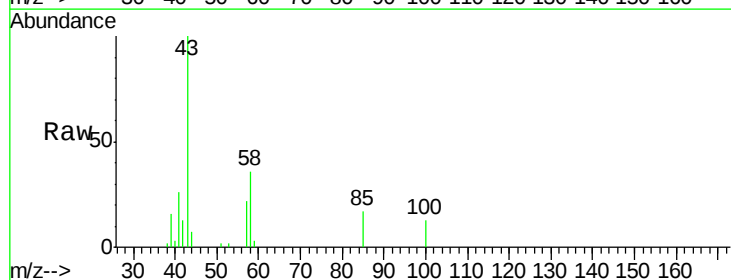
Manual Integrations
 APPROVED

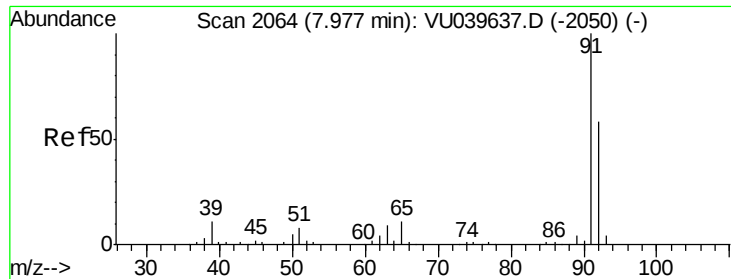
sam
 7/30/2020 2:58:00 AM



#40
 4-Methyl-2-pentanone
 Concen: 3.885 ug/L
 RT: 7.80 min Scan# 2010
 Delta R.T. 0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Tgt Ion: 43 Resp: 9141
 Ion Ratio Lower Upper
 43 100
 58 37.2 29.1 43.7
 100 14.1 10.6 16.0





#42

Toluene

Concen: 2.083 ug/L

RT: 7.98 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 11430

Ion Ratio Lower Upper

91 100

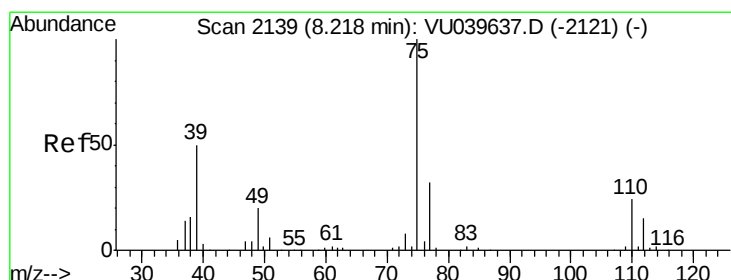
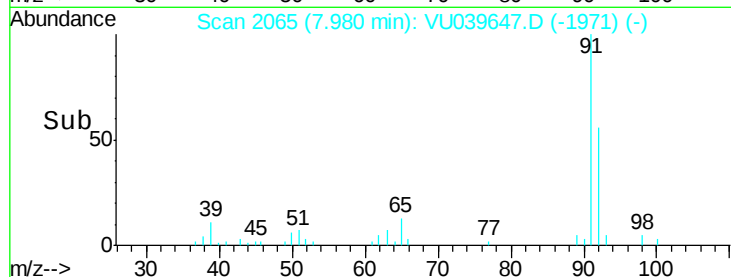
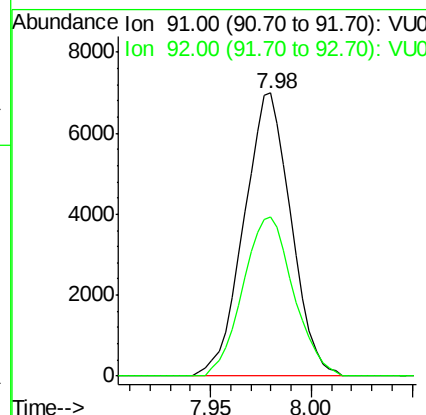
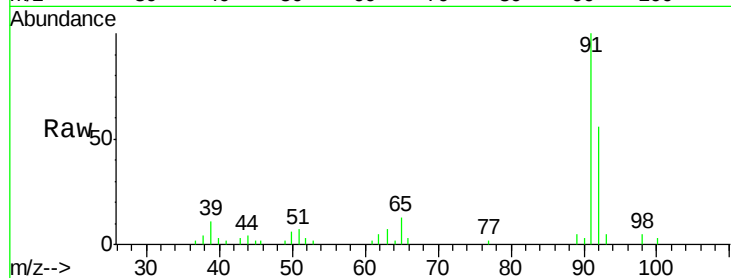
92 56.2 40.1 74.5

Manual Integrations

APPROVED

sam

7/30/2020 2:58:00 AM



#44

trans-1,3-Dichloropropene

Concen: 2.213 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU039647.D

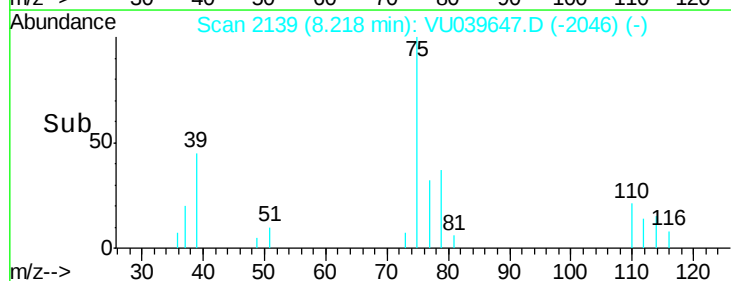
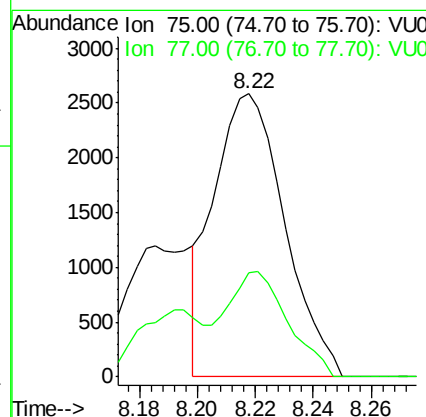
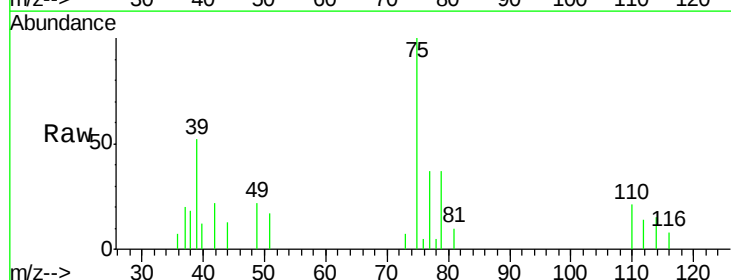
Acq: 23 Jul 2020 19:47

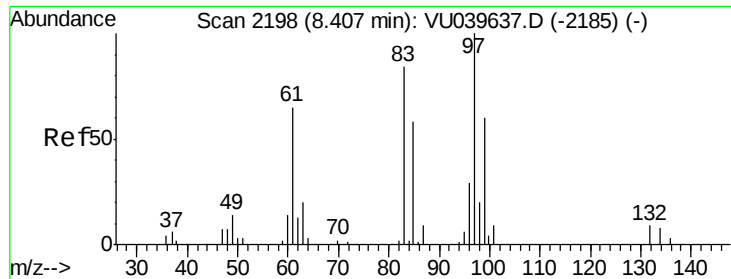
Tgt Ion: 75 Resp: 4374

Ion Ratio Lower Upper

75 100

77 36.6 22.7 42.1





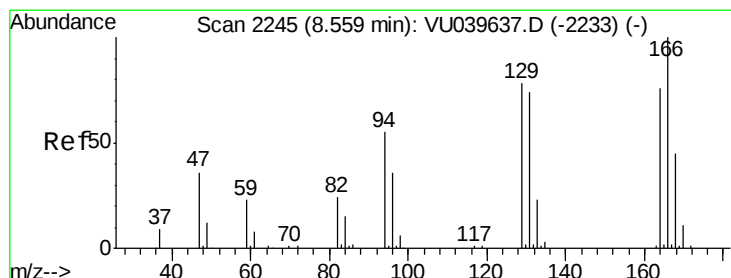
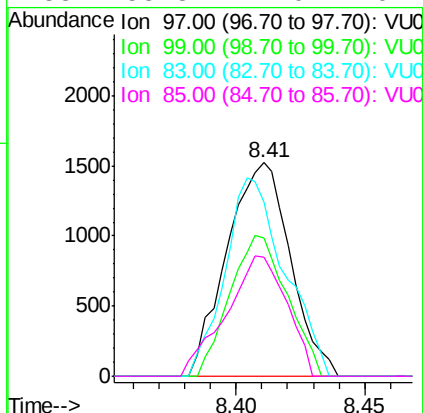
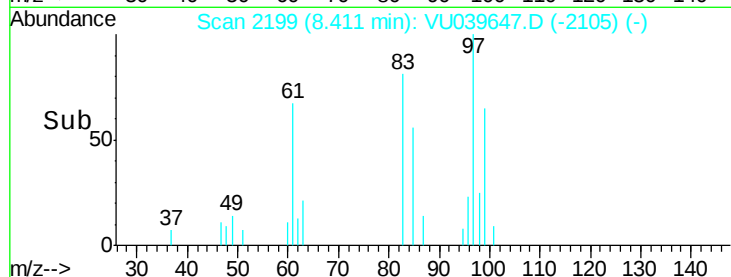
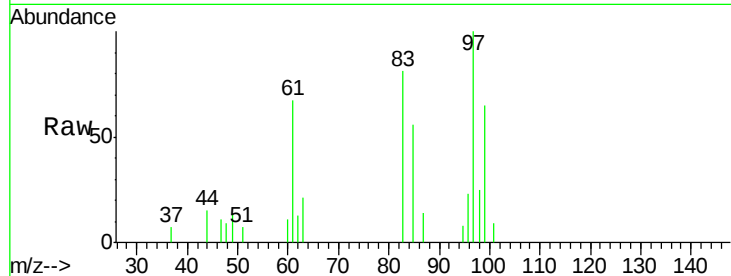
#45
1,1,2-Trichloroethane
Concen: 2.032 ug/L
RT: 8.41 min Scan# 2199
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion:	97	Resp:	2617
Ion	Ratio	Lower	Upper
97	100		
99	64.8	45.1	83.9
83	81.3	62.7	116.5
85	55.8	41.0	76.2

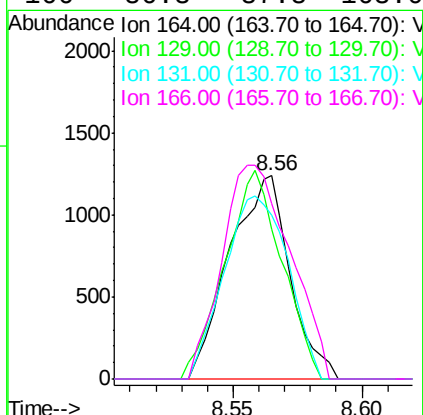
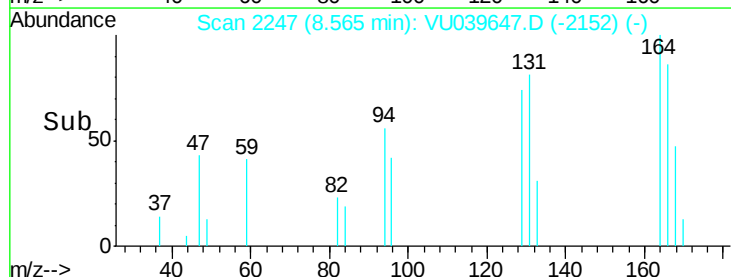
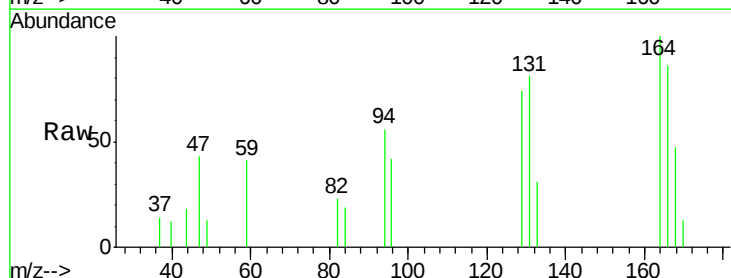
Manual Integrations
APPROVED

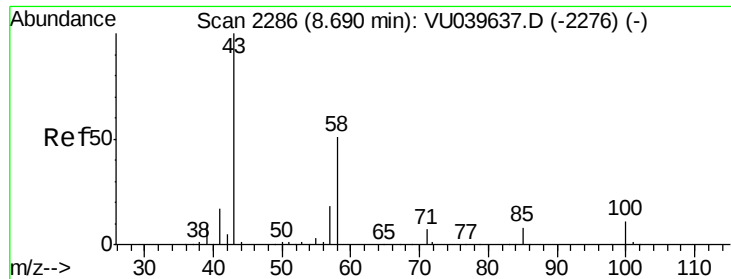
sam
7/30/2020 2:58:00 AM



#46
Tetrachloroethene
Concen: 2.034 ug/L
RT: 8.56 min Scan# 2247
Delta R.T. 0.01 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Tgt Ion:	164	Resp:	2030
Ion	Ratio	Lower	Upper
164	100		
129	73.6	71.1	132.1
131	80.5	70.3	130.5
166	86.3	87.8	163.0#





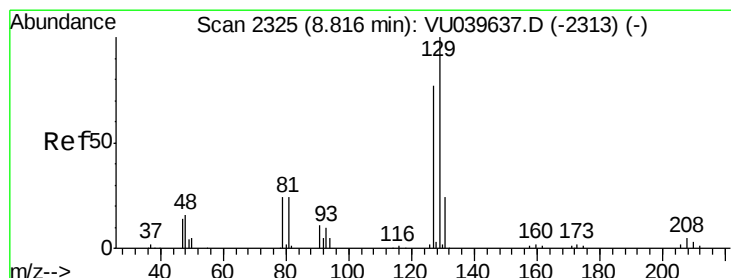
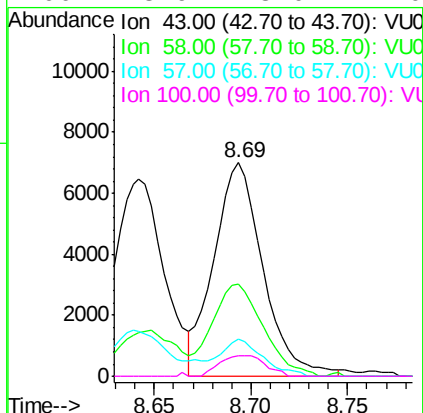
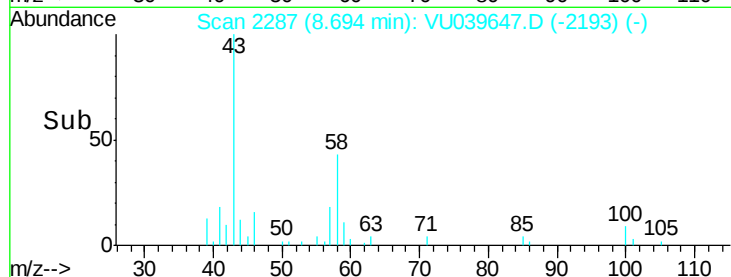
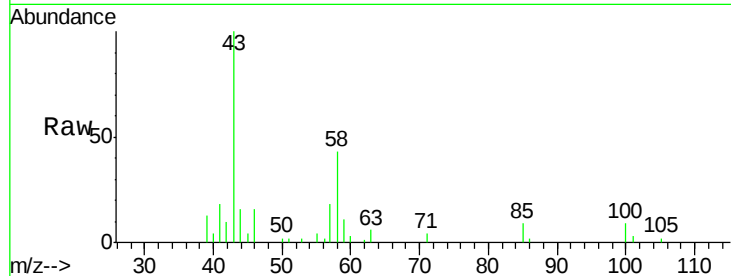
#48
2-Hexanone
Concen: 6.462 ug/L
RT: 8.69 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	44.9	40.6	61.0	
57	15.4	14.5	21.7	
100	8.9	8.0	12.0	

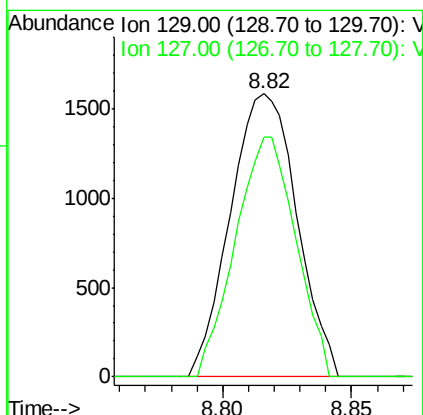
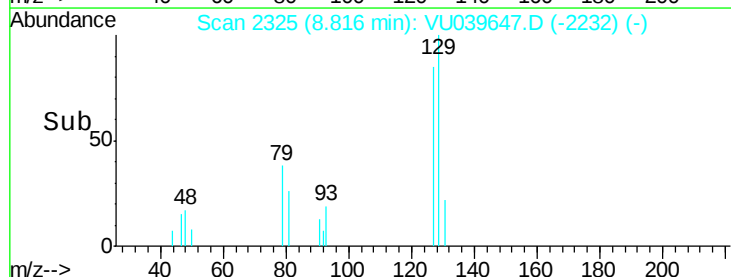
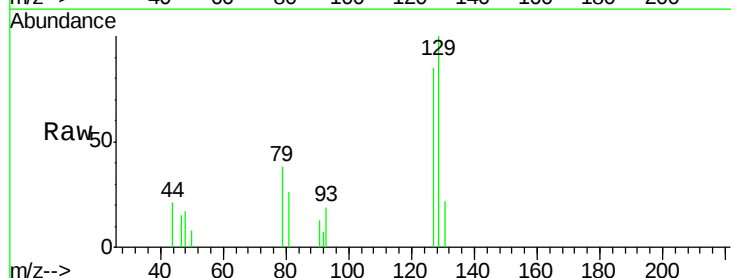
Manual Integrations
APPROVED

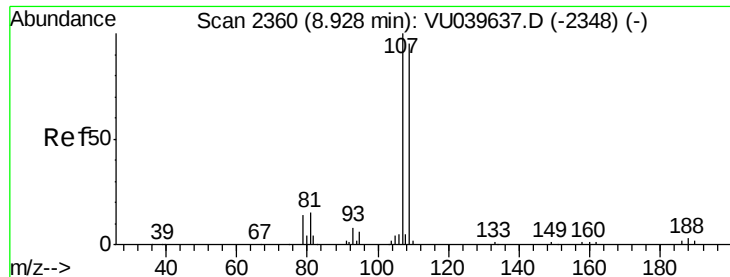
sam
7/30/2020 2:58:00 AM



#49
Dibromochloromethane
Concen: 1.963 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	84.9	54.3	100.9	





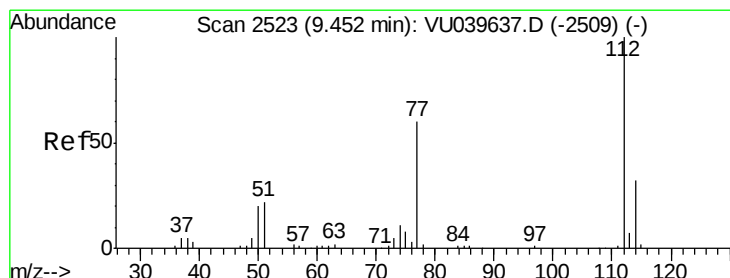
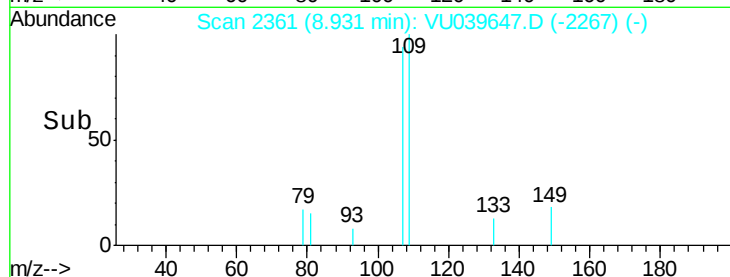
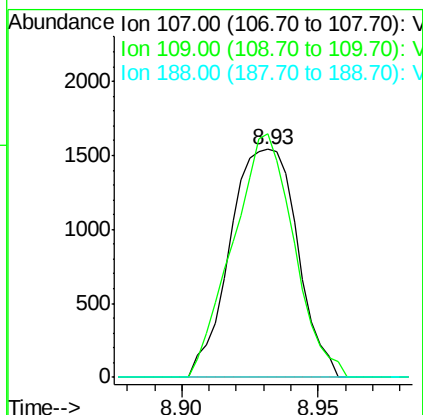
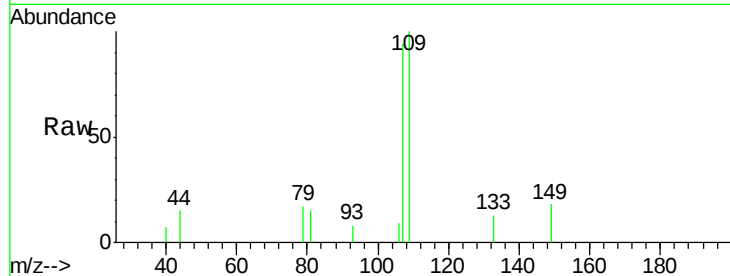
#50
1,2-Dibromoethane
Concen: 1.842 ug/L
RT: 8.93 min Scan# 2361
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
107	100		
109	106.8	66.8	124.2
188	0.0	3.0	4.4#

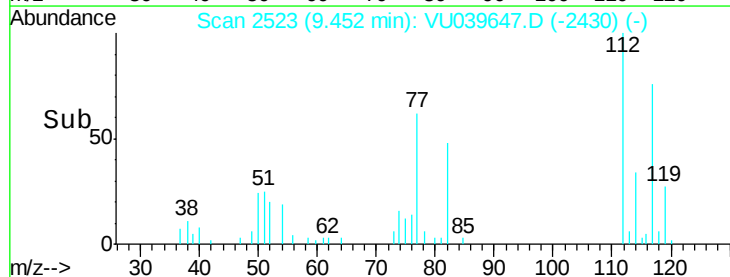
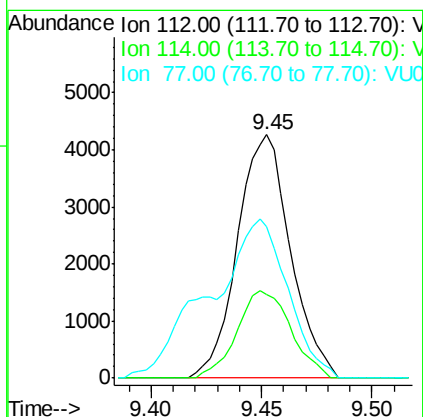
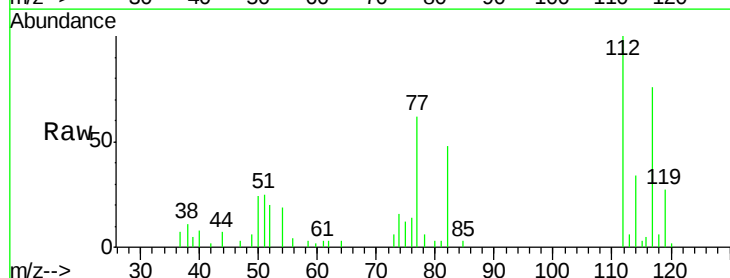
Manual Integrations
APPROVED

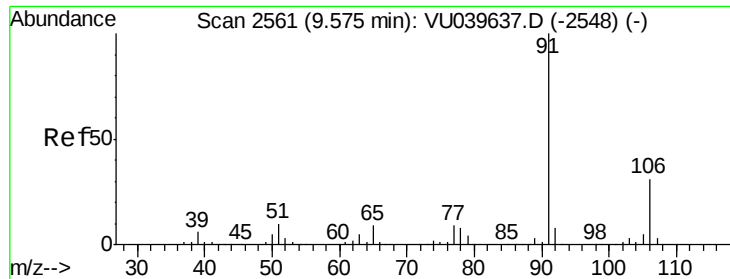
sam
7/30/2020 2:58:00 AM



#51
Chlorobenzene
Concen: 2.038 ug/L
RT: 9.45 min Scan# 2523
Delta R.T. 0.00 min
Lab File: VU039647.D
Acq: 23 Jul 2020 19:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.4	22.9	42.5
77	62.3	49.4	74.0





#52

Ethylbenzene

Concen: 1.980 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Tot Ion: 91 Resp: 12006

Ion Ratio Lower Upper

91 100

106 28.4 21.1 39.1

Instrument :

MSVOA_U

ClientSampled :

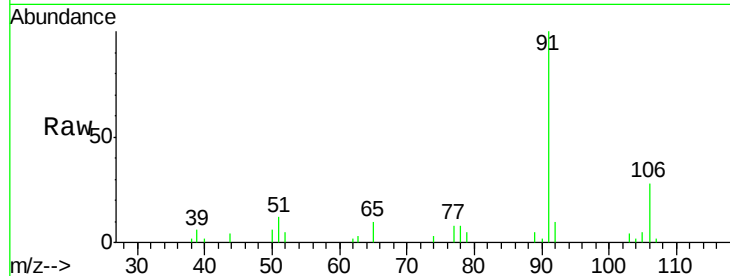
MDL01

Manual Integrations

APPROVED

sam

7/30/2020 2:58:00 AM



Abundance Ion 91.00 (90.70 to 91.70): VU039647.D (-2468) (-)

Ion 106.00 (105.70 to 106.70): VU039647.D (-2468) (-)

8000

6000

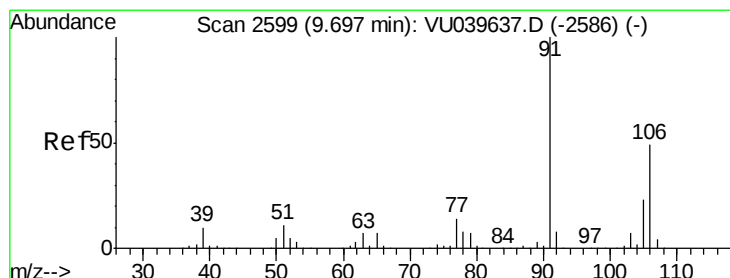
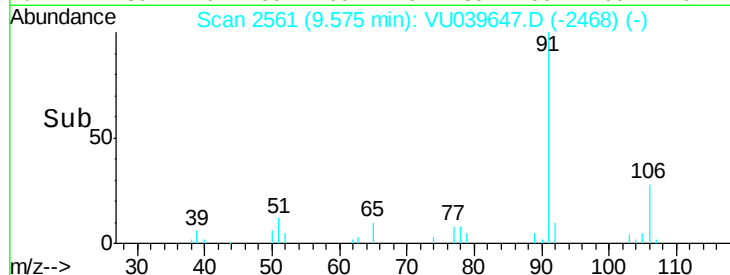
4000

2000

0

9.55 9.60

Time-->



#53

m,p-Xylene

Concen: 1.755 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU039647.D

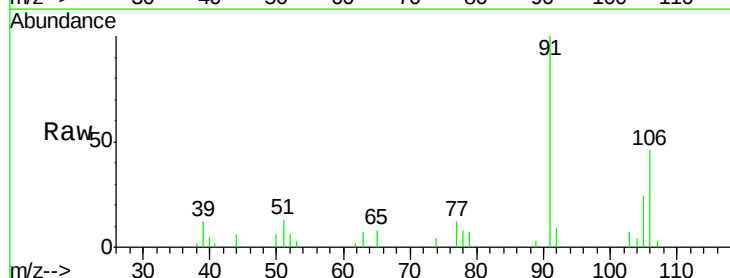
Acq: 23 Jul 2020 19:47

Tgt Ion: 106 Resp: 4010

Ion Ratio Lower Upper

106 100

91 218.1 149.7 277.9



Abundance Ion 106.00 (105.70 to 106.70): VU039647.D (-2506) (-)

Ion 91.00 (90.70 to 91.70): VU039647.D (-2506) (-)

6000

5000

4000

3000

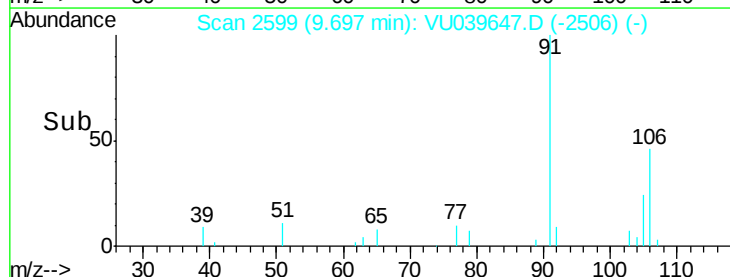
2000

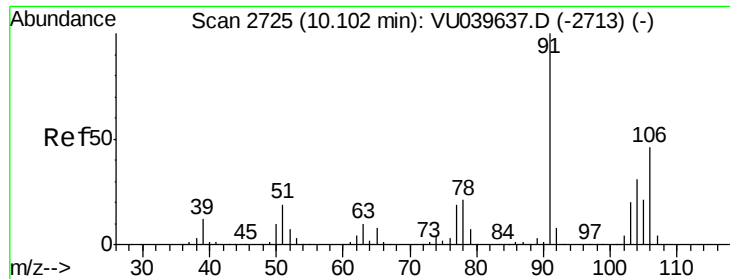
1000

0

9.65 9.70 9.75

Time-->





#54

o-xylene

Concen: 1.984 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. -0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

ClientSampleId :

MDL01

Tot Ion:106 Resp: 4350

Ion Ratio Lower Upper

106 100

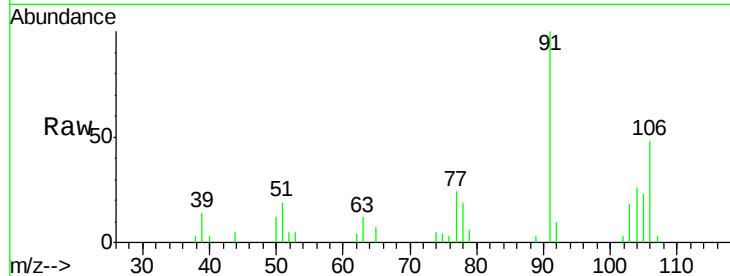
91 209.7 155.1 288.1

Manual Integrations

APPROVED

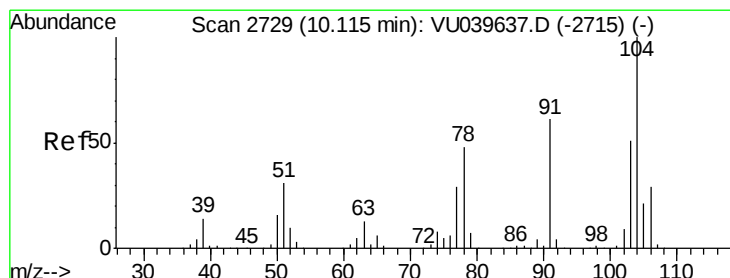
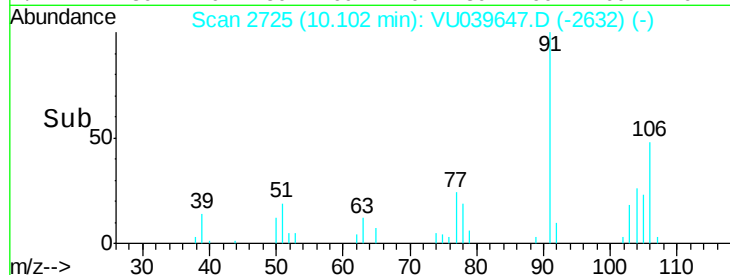
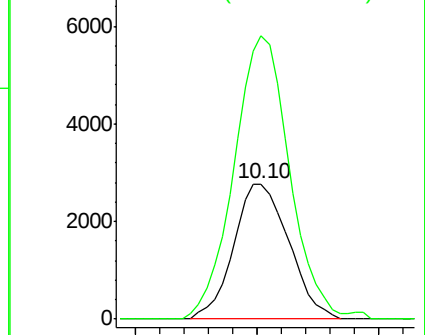
sam

7/30/2020 2:58:00 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.694 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU039647.D

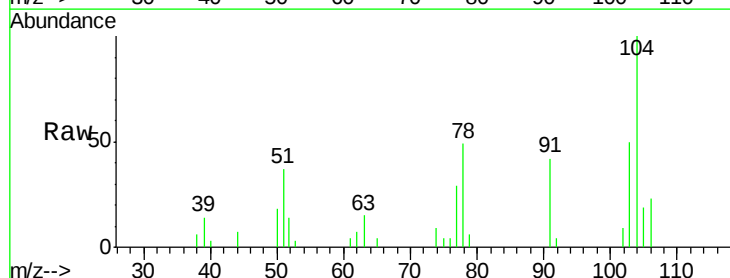
Acq: 23 Jul 2020 19:47

Tgt Ion:104 Resp: 6430

Ion Ratio Lower Upper

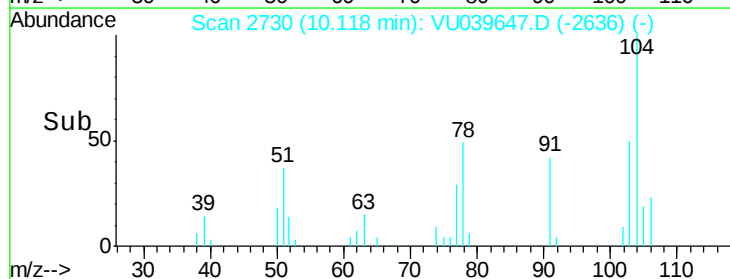
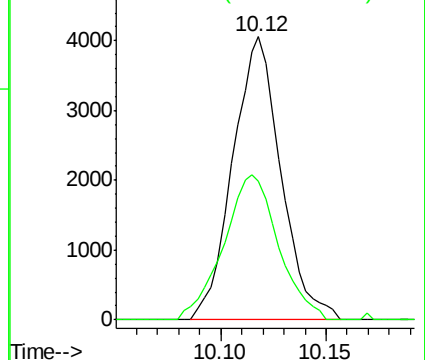
104 100

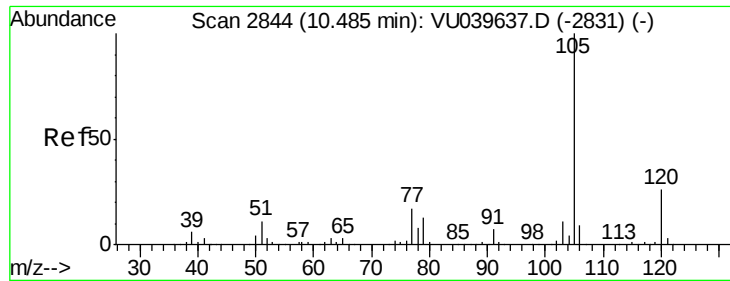
78 48.9 34.3 63.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.857 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

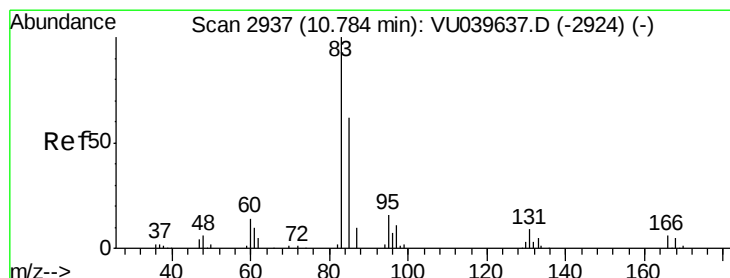
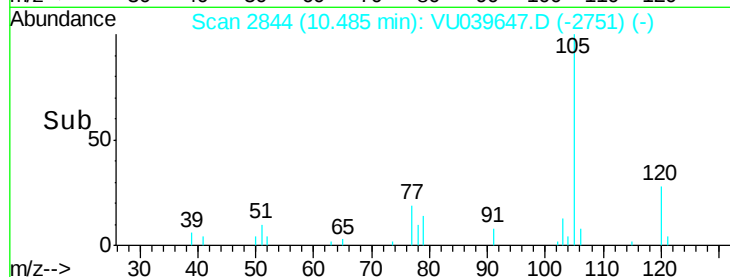
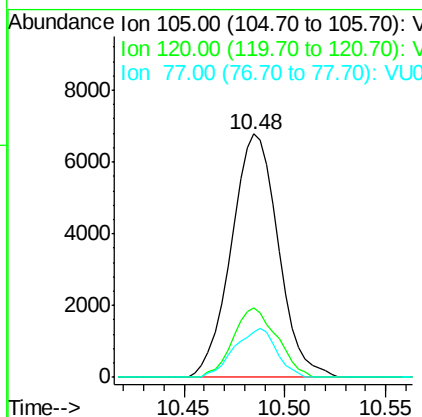
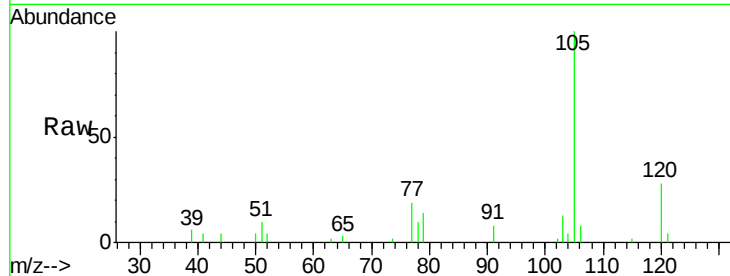
ClientSampled :

MDL01

Tot Ion:	105	Resp:	11055
Ion Ratio	Lower	Upper	
105	100		
120	26.8	20.6	31.0
77	18.0	13.4	20.2

Manual Integrations
APPROVED

sam
7/30/2020 2:58:00 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.212 ug/L

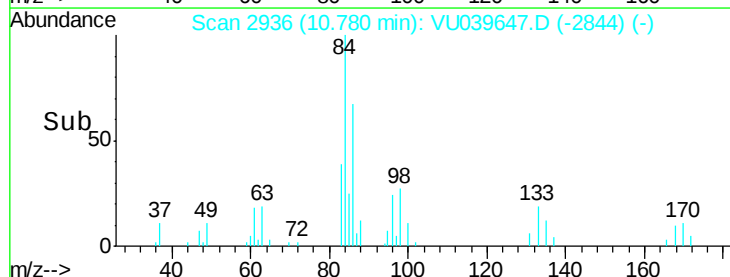
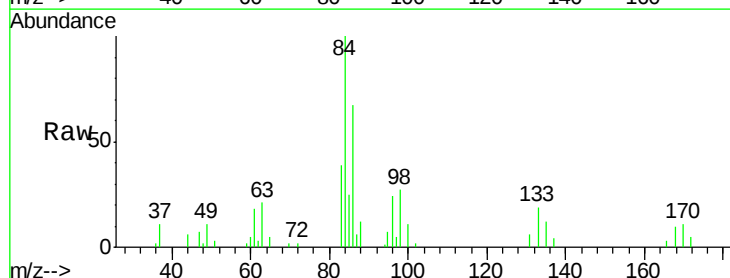
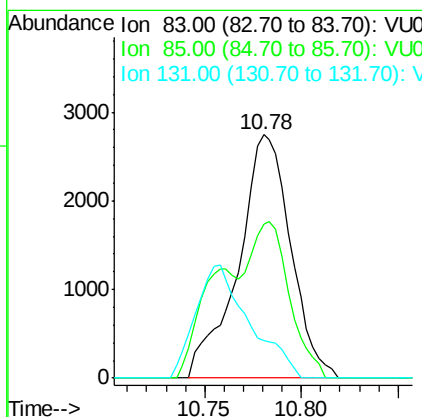
RT: 10.78 min Scan# 2936

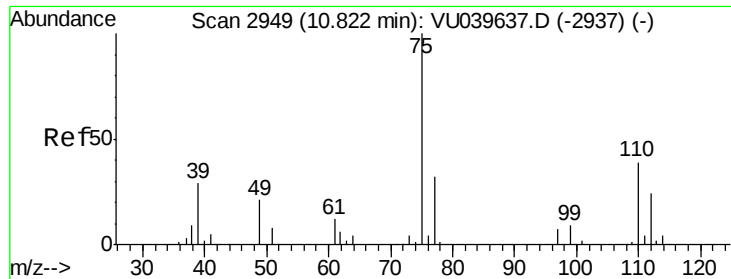
Delta R.T. -0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Tgt Ion:	83	Resp:	5194
Ion Ratio	Lower	Upper	
83	100		
85	63.3	46.4	86.2
131	15.2	7.8	11.6#





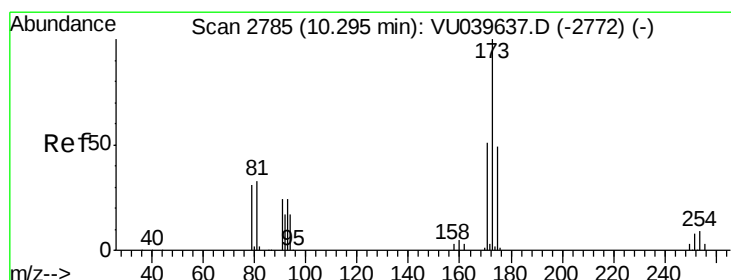
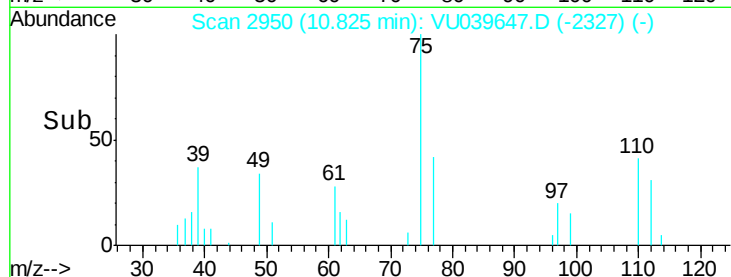
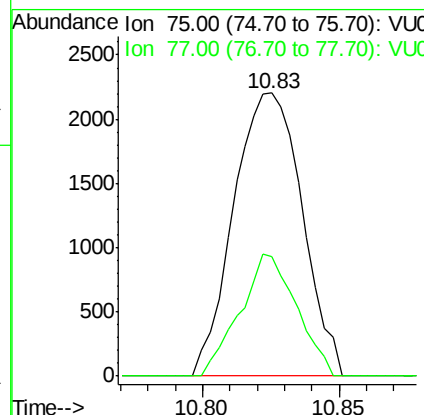
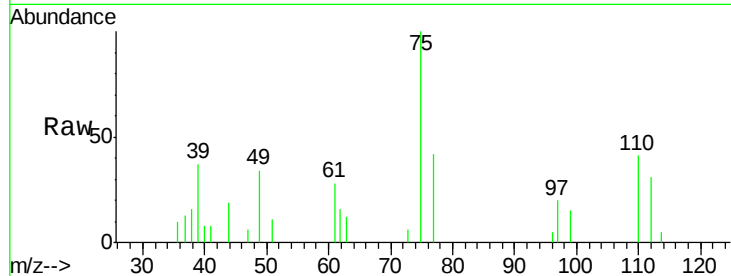
#59
 1,2,3-Trichloropropane
 Concen: 1.957 ug/L
 RT: 10.83 min Scan# 2950
 Delta R.T. 0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 75 Resp: 3835
 Ion Ratio Lower Upper
 75 100
 77 35.5 25.4 38.2

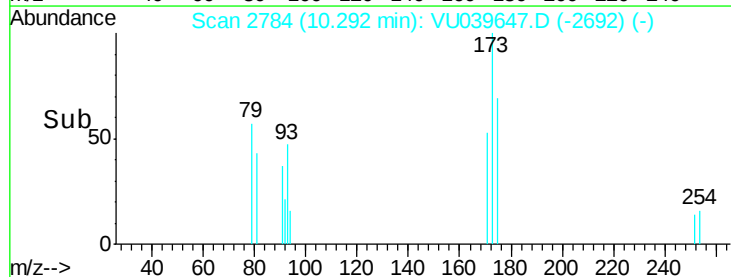
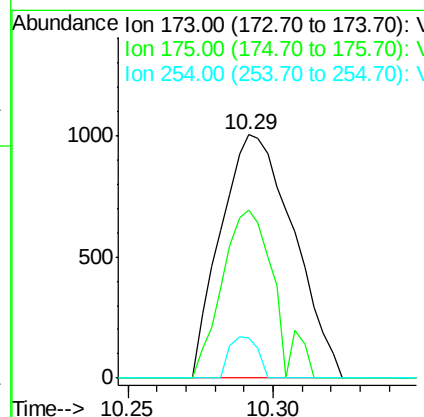
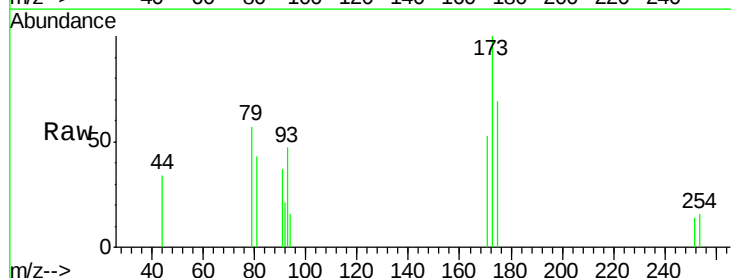
Manual Integrations
 APPROVED

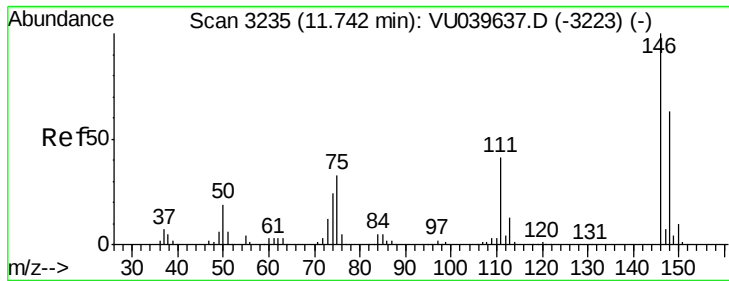
sam
 7/30/2020 2:58:00 AM



#61
 Bromoform
 Concen: 1.744 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Tgt Ion: 173 Resp: 1748
 Ion Ratio Lower Upper
 173 100
 175 45.5 38.4 57.6
 254 6.6 7.0 10.6#





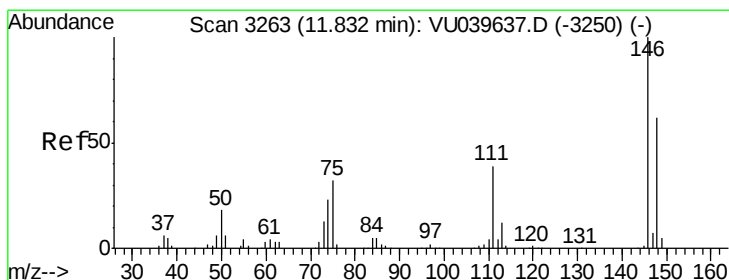
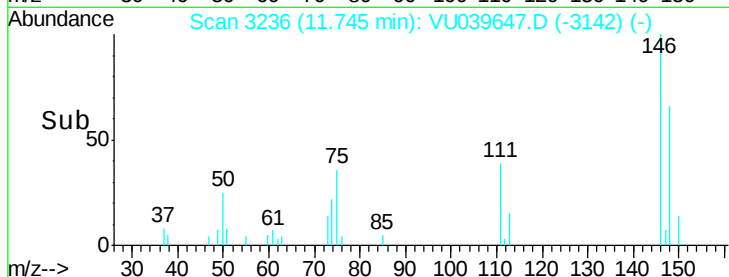
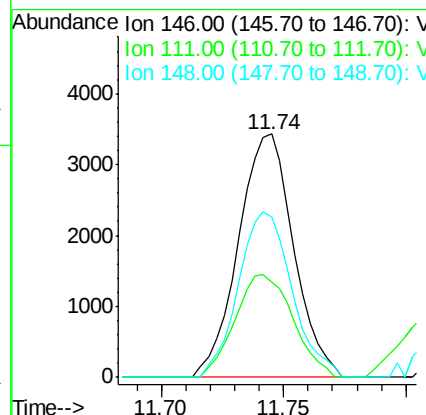
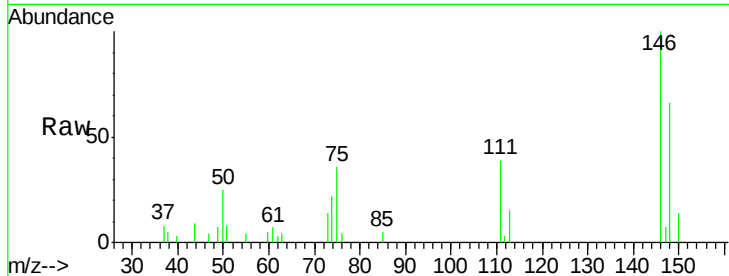
#62
 1,3-Dichlorobenzene
 Concen: 2.071 ug/L
 RT: 11.74 min Scan# 3236
 Delta R.T. 0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	29.3	54.3
148	66.0	46.1	85.5

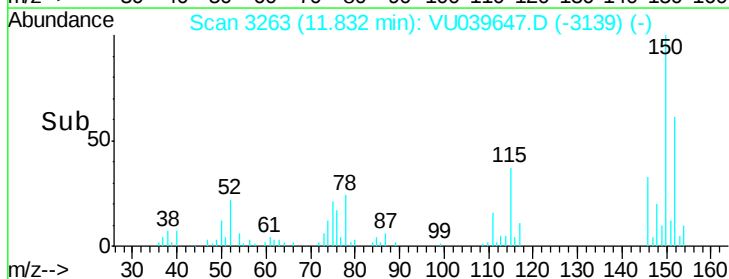
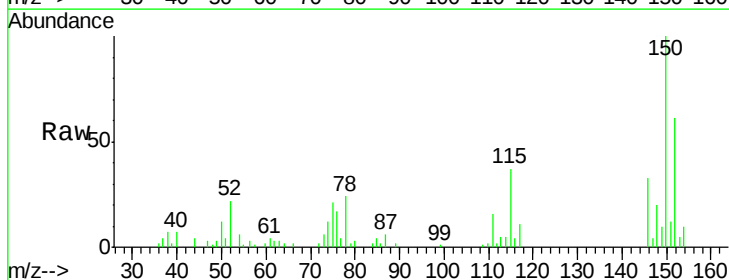
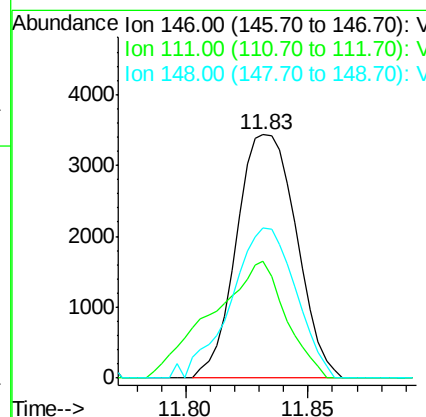
Manual Integrations
 APPROVED

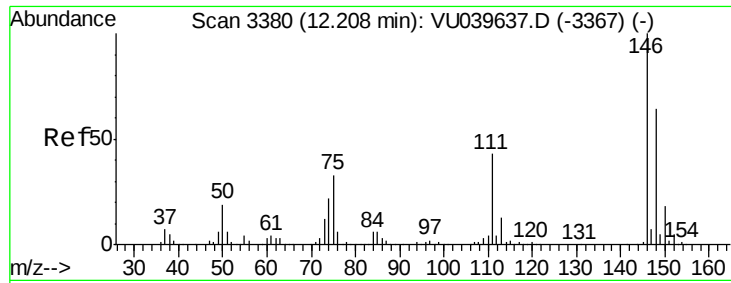
sam
 7/30/2020 2:58:00 AM



#63
 1,4-Dichlorobenzene
 Concen: 2.252 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	27.8	51.6
148	61.6	44.7	83.1





#65

1,2-Dichlorobenzene

Concen: 2.198 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

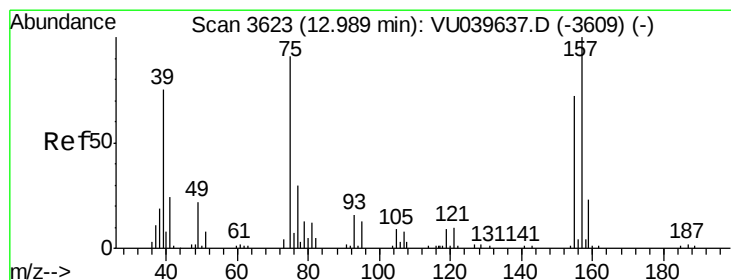
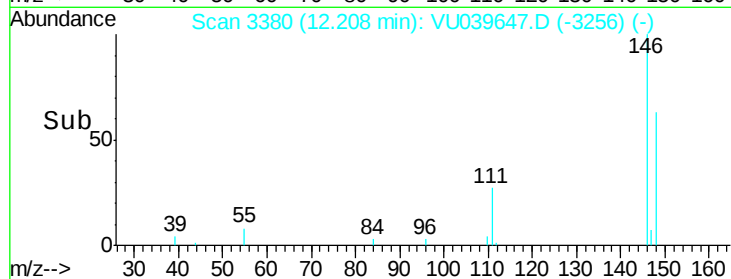
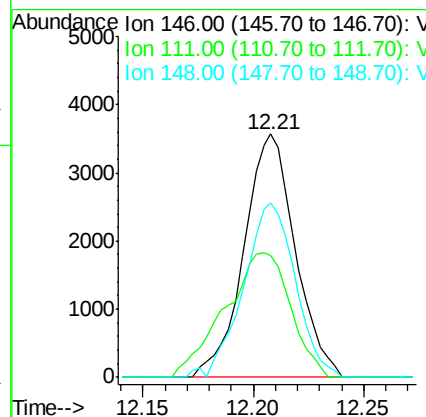
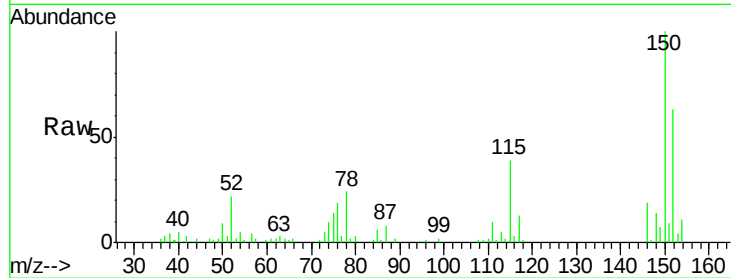
ClientSampleId :

MDL01

Tot Ion:	146	Resp:	5766
Ion	Ratio	Lower	Upper
146	100		
111	49.9	34.8	52.2
148	71.8	52.5	78.7

Manual Integrations
APPROVED

sam
7/30/2020 2:58:00 AM



#66

1,2-Dibromo-3-chloropropane

Concen: 1.877 ug/L m

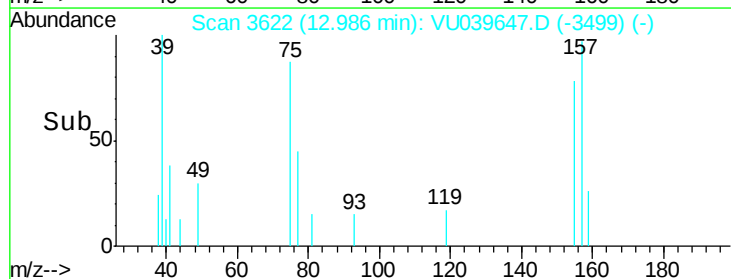
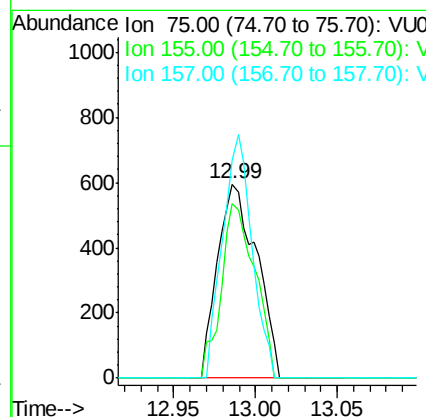
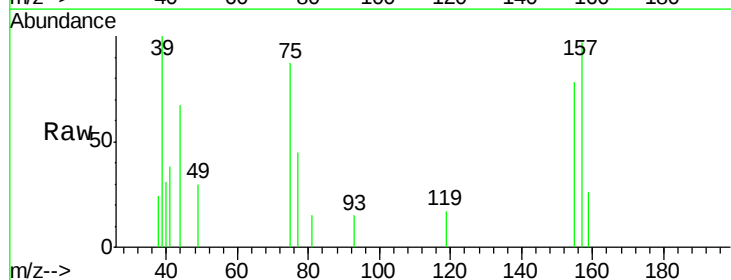
RT: 12.99 min Scan# 3622

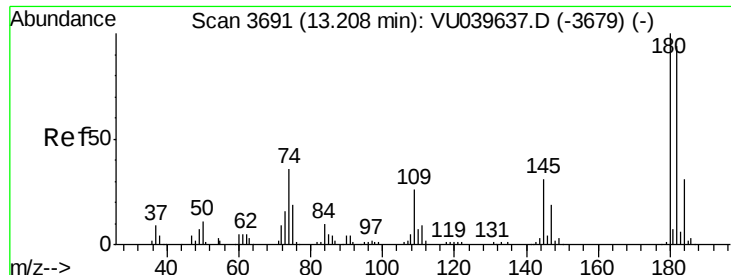
Delta R.T. -0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Tgt Ion:	75	Resp:	985
Ion	Ratio	Lower	Upper
75	100		
155	89.6	62.4	93.6
157	112.1	78.9	118.3





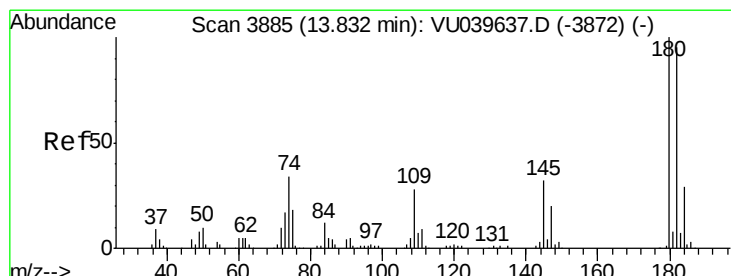
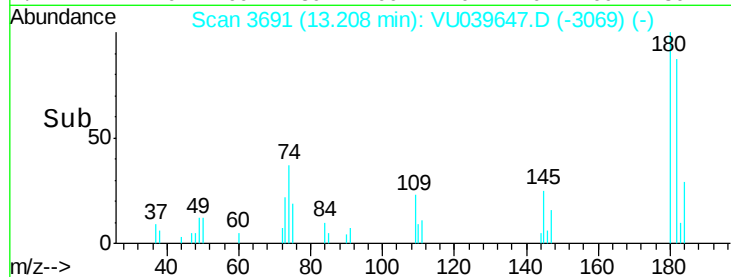
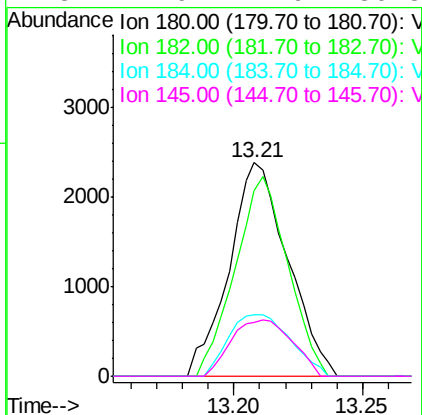
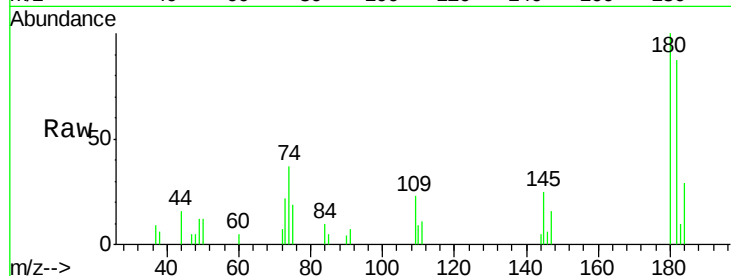
#67
 1,3,5-Trichlorobenzene
 Concen: 2.012 ug/L
 RT: 13.21 min Scan# 3691
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.4	75.7	113.5
184	30.8	24.2	36.2
145	27.6	24.6	36.8

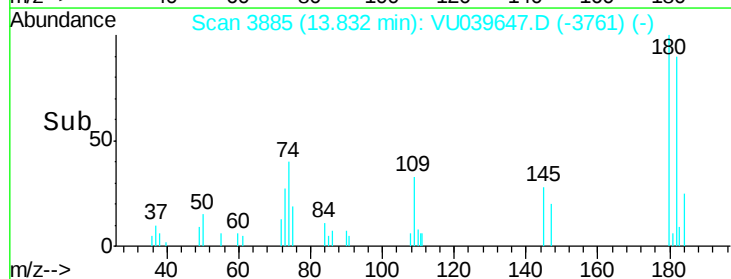
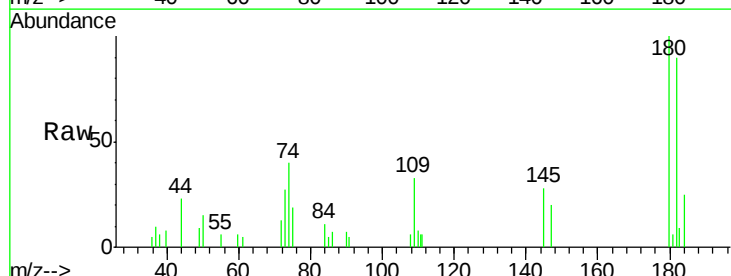
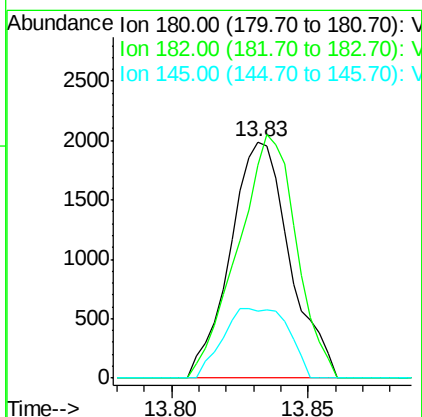
Manual Integrations
 APPROVED

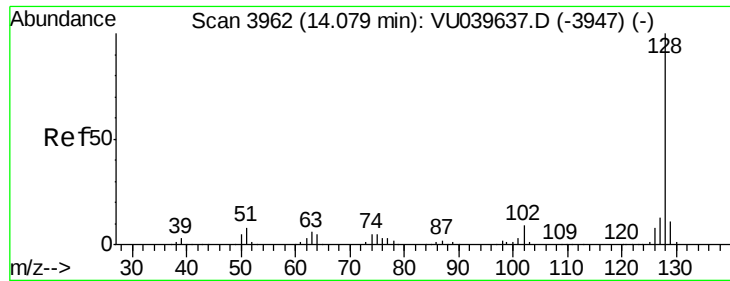
sam
 7/30/2020 2:58:00 AM



#68
 1,2,4-trichlorobenzene
 Concen: 1.892 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. -0.00 min
 Lab File: VU039647.D
 Acq: 23 Jul 2020 19:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.3	74.4	111.6
145	18.7	24.8	37.2#





#69

Naphthalene

Concen: 1.665 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Instrument :

MSVOA_U

ClientSampleId :

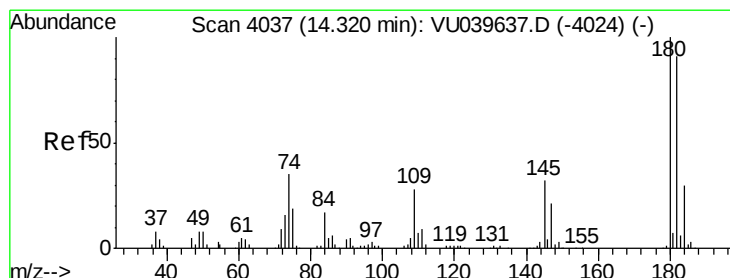
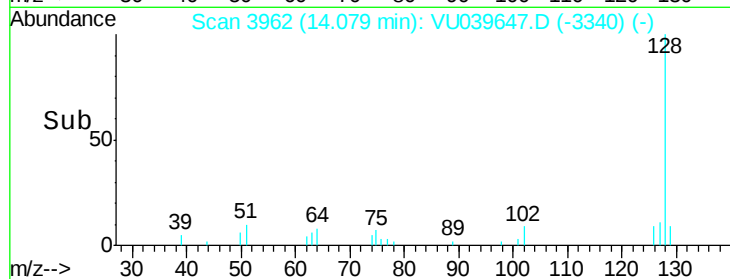
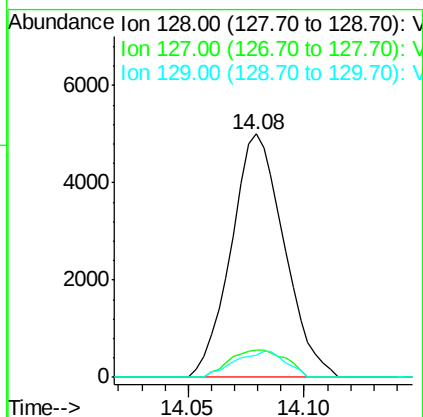
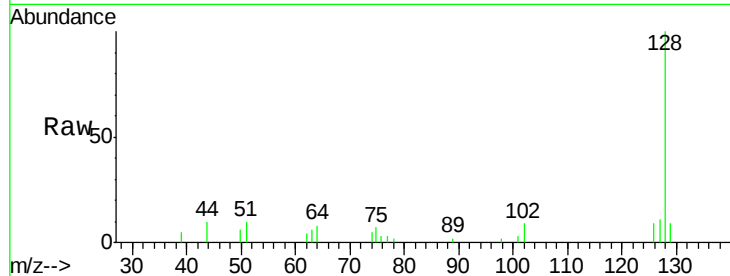
MDL01

Tot Ion:128 Resp: 7936

Ion	Ratio	Lower	Upper
128	100		
127	12.0	10.7	16.1
129	10.3	8.8	13.2

Manual Integrations
APPROVED

sam
7/30/2020 2:58:00 AM



#70

1,2,3-Trichlorobenzene

Concen: 1.834 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU039647.D

Acq: 23 Jul 2020 19:47

Tgt Ion:180 Resp: 2943

Ion	Ratio	Lower	Upper
180	100		
182	99.6	76.6	114.8
145	28.6	27.0	40.4

