

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026161.D
 Acq On : 15 Aug 2018 21:12
 Operator : MD/SY
 Sample : MDL06
 Misc : 5.00µ/5mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:23 PM

Quant Time: Aug 16 04:56:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 16 04:40:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	280886	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	265052	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	111884	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	69402	42.08	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	84.16%
7) Chloroethane-d5	1.67	69	59262	43.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.42%
11) 1,1-Dichloroethene-d2	2.27	63	110420	34.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	68.18%
21) 2-Butanone-d5	4.18	46	130468	103.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.09%
24) Chloroform-d	4.65	84	169206	45.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.60%
26) 1,2-Dichloroethane-d4	5.31	65	114877	47.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.02%
32) Benzene-d6	5.35	84	325825	47.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.36%
36) 1,2-Dichloropropane-d6	6.33	67	108225	48.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.34%
41) Toluene-d8	7.57	98	293126	44.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.62%
43) trans-1,3-Dichloropropene-	7.85	79	49335	46.38	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.76%
47) 2-Hexanone-d5	8.31	63	95450	103.70	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.70%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	148836	47.07	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.14%
64) 1,2-Dichlorobenzene-d4	11.86	152	114132	49.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.04%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4313	1.94 ug/L	89
3) Chloromethane	1.33	50	4793	2.37 ug/L	98
5) Vinyl chloride	1.40	62	4381	2.17 ug/L #	72
6) Bromomethane	1.62	94	2226	2.14 ug/L	89
8) Chloroethane	1.69	64	2496	2.06 ug/L	98
9) Trichlorofluoromethane	1.89	101	5609	1.88 ug/L	91
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	3903	2.41 ug/L #	74
12) 1,1-Dichloroethene	2.28	96	3885	2.62 ug/L #	1
13) Acetone	2.32	43	4560	3.94 ug/L	97
14) Carbon disulfide	2.48	76	9936	1.93 ug/L	98
15) Methyl Acetate	2.62	43	5130	2.55 ug/L #	84
16) Methylene chloride	2.70	84	4365	2.20 ug/L	86
17) trans-1,2-Dichloroethene	2.99	96	3490	1.98 ug/L	79
18) Methyl tert-butyl Ether	3.00	73	10832	1.94 ug/L #	93
19) 1,1-Dichloroethane	3.45	63	6875	2.03 ug/L	98
20) cis-1,2-Dichloroethene	4.24	96	4001	2.03 ug/L	93
22) 2-Butanone	4.28	43	6009m	4.16 ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026161.D
 Acq On : 15 Aug 2018 21:12
 Operator : MD/SY
 Sample : MDL06
 Misc : 5.00µ/5mL/100µL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

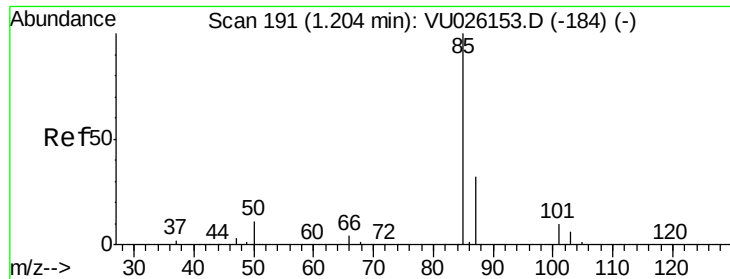
Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:23 PM

Quant Time: Aug 16 04:56:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 16 04:40:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	2113m	1.98	ug/L	
25) Chloroform	4.68	83	9014	2.53	ug/L	100
27) 1,2-Dichloroethane	5.41	62	5898	2.05	ug/L	96
29) Cyclohexane	5.00	56	4441	1.68	ug/L #	86
30) 1,1,1-Trichloroethane	4.92	97	6587	2.08	ug/L #	84
31) Carbon tetrachloride	5.14	117	5400	1.88	ug/L	96
33) Benzene	5.39	78	15194	2.12	ug/L	100
34) Trichloroethene	6.19	95	3784	2.02	ug/L	78
35) Methylcyclohexane	6.42	83	4968	1.77	ug/L	99
37) 1,2-Dichloropropane	6.44	63	3972	1.98	ug/L #	94
38) Bromodichloromethane	6.76	83	5224	1.97	ug/L #	96
39) cis-1,3-Dichloropropene	7.27	75	6125	2.06	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	9368	3.77	ug/L #	73
42) Toluene	7.64	91	15800	2.07	ug/L	92
44) trans-1,3-Dichloropropene	7.89	75	5413	1.89	ug/L	95
45) 1,1,2-Trichloroethane	8.07	97	3679	1.94	ug/L	94
46) Tetrachloroethene	8.23	164	3095	1.92	ug/L	87
48) 2-Hexanone	8.37	43	9065	4.65	ug/L #	94
49) Dibromochloromethane	8.48	129	4180	1.83	ug/L	97
50) 1,2-Dibromoethane	8.59	107	3555	1.80	ug/L #	91
51) Chlorobenzene	9.12	112	9998	1.92	ug/L #	87
52) Ethylbenzene	9.25	91	14367	1.73	ug/L	95
53) m,p-Xylene	9.38	106	4817	1.51	ug/L	78
54) o-xylene	9.78	106	5257	1.65	ug/L	91
55) Styrene	9.80	104	8242	1.55	ug/L	95
56) Isopropylbenzene	10.17	105	12578	1.53	ug/L	97
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	6764	2.13	ug/L #	92
59) 1,2,3-Trichloropropane	10.50	75	4812	1.95	ug/L	97
61) Bromoform	9.96	173	3035	2.07	ug/L	96
62) 1,3-Dichlorobenzene	11.42	146	6107	1.82	ug/L	90
63) 1,4-Dichlorobenzene	11.51	146	6633	1.92	ug/L	92
65) 1,2-Dichlorobenzene	11.88	146	7490	2.09	ug/L #	90
66) 1,2-Dibromo-3-chloropropan	12.66	75	1166	2.05	ug/L #	75
67) 1,3,5-Trichlorobenzene	12.89	180	3623	1.46	ug/L	89
68) 1,2,4-trichlorobenzene	13.51	180	2379m	1.27	ug/L	
69) Naphthalene	13.75	128	7246m	1.36	ug/L	
70) 1,2,3-Trichlorobenzene	13.99	180	2832	1.41	ug/L #	96

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



#2

Dichlorodifluoromethane

Concen: 1.94 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 85 Resp: 4313

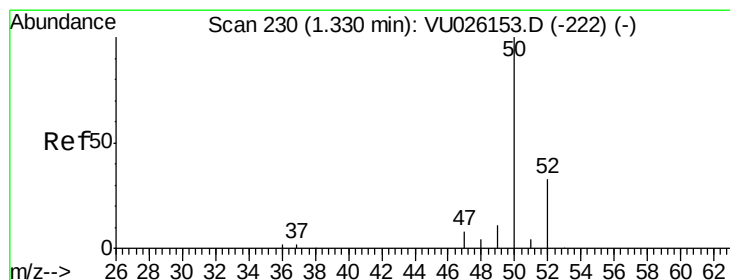
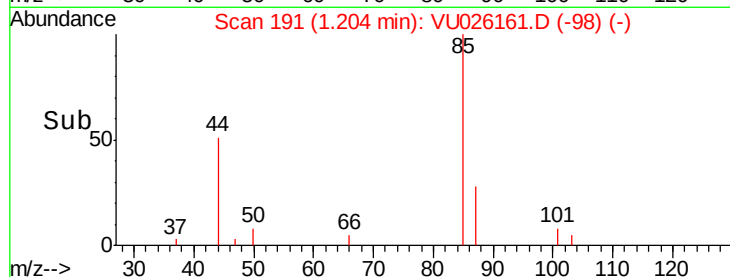
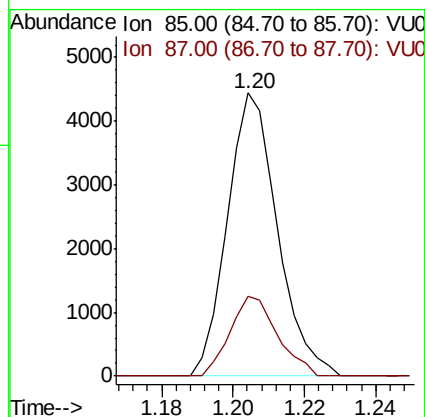
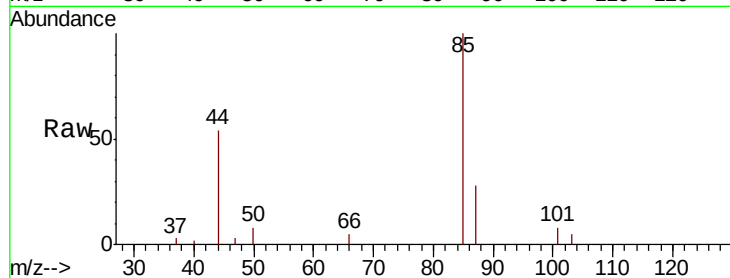
Ion Ratio Lower Upper

85 100

87 26.7 26.1 39.1

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:23 PM



#3

Chloromethane

Concen: 2.37 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026161.D

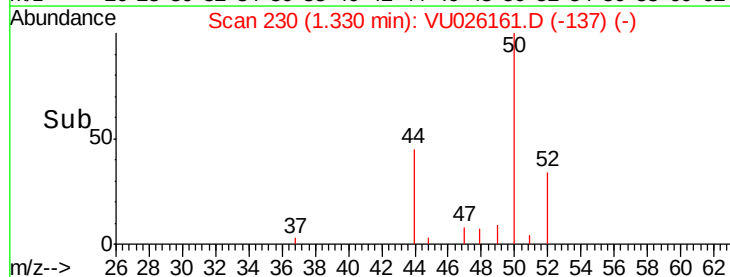
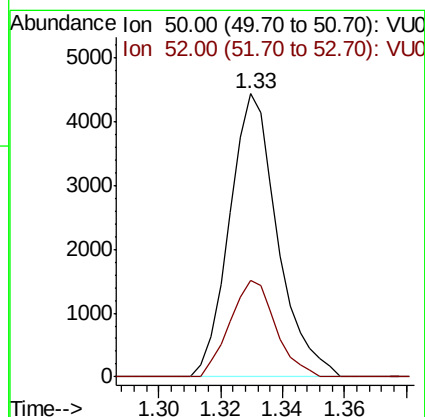
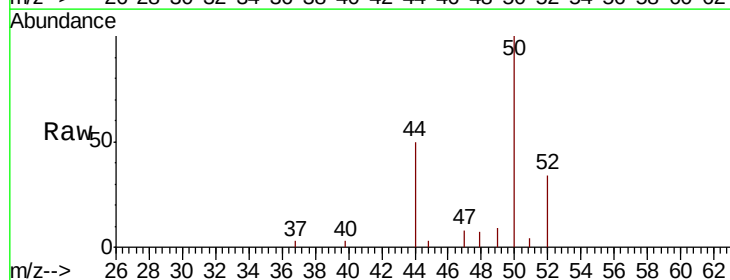
Acq: 15 Aug 2018 21:12

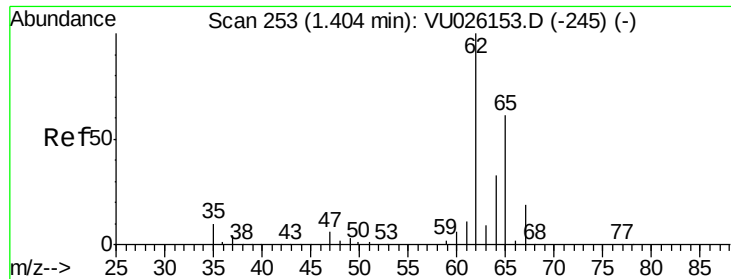
Tgt Ion: 50 Resp: 4793

Ion Ratio Lower Upper

50 100

52 33.9 23.0 42.8





#5

Vinyl chloride

Concen: 2.17 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 62 Resp: 4381

Ion Ratio Lower Upper

62 100

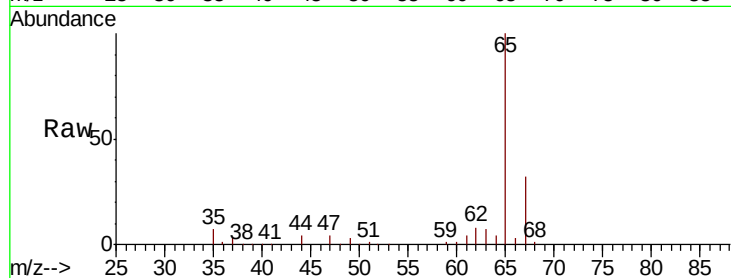
64 48.9 23.0 42.8#

Manual Integrations

APPROVED

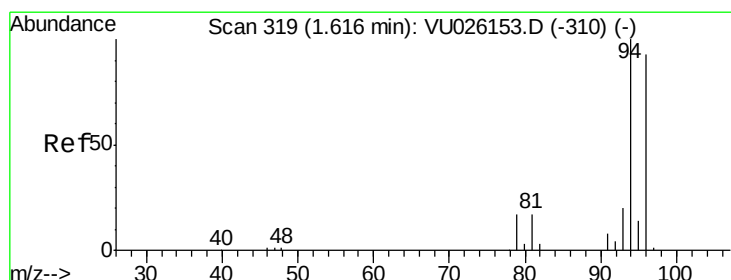
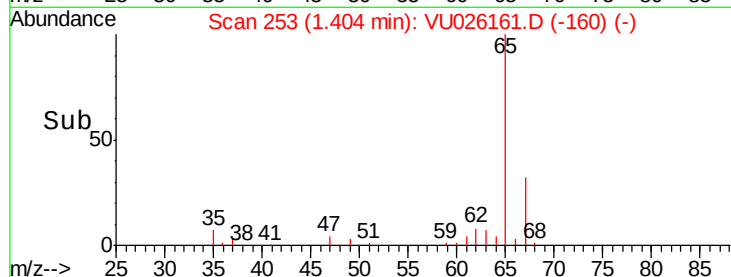
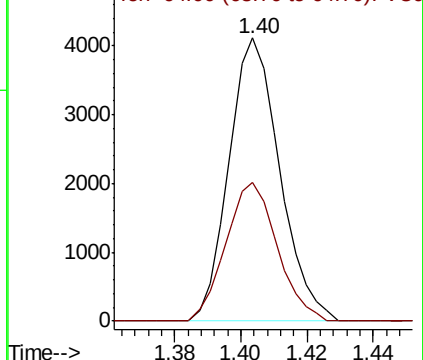
MMDadoda

8/16/2018 4:20:23 PM



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.14 ug/L

RT: 1.62 min Scan# 320

Delta R.T. 0.00 min

Lab File: VU026161.D

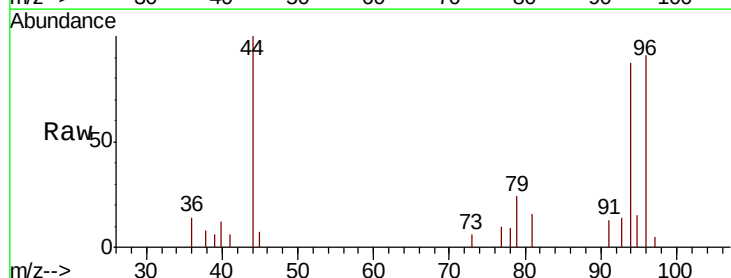
Acq: 15 Aug 2018 21:12

Tgt Ion: 94 Resp: 2226

Ion Ratio Lower Upper

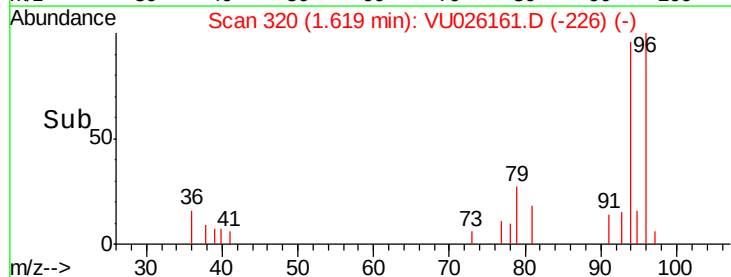
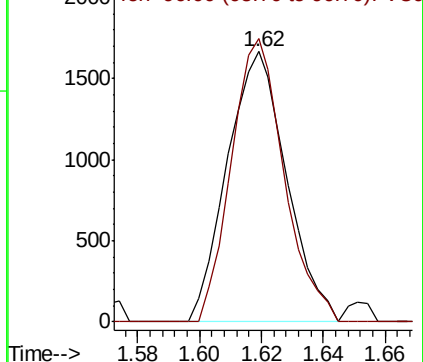
94 100

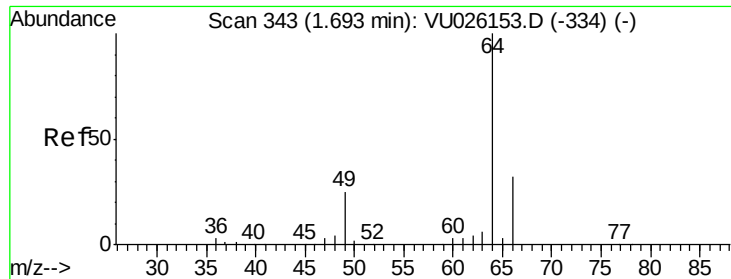
96 104.7 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.06 ug/L

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 64 Resp: 2496

Ion Ratio Lower Upper

64 100

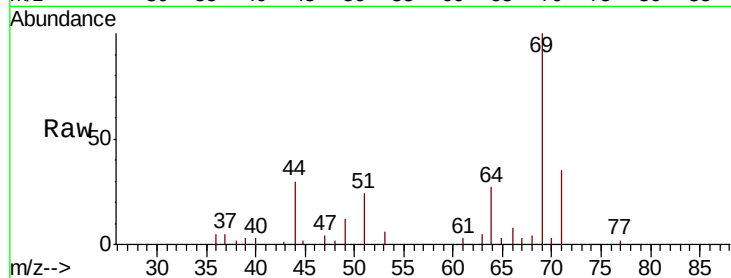
66 30.7 22.2 41.2

Manual Integrations

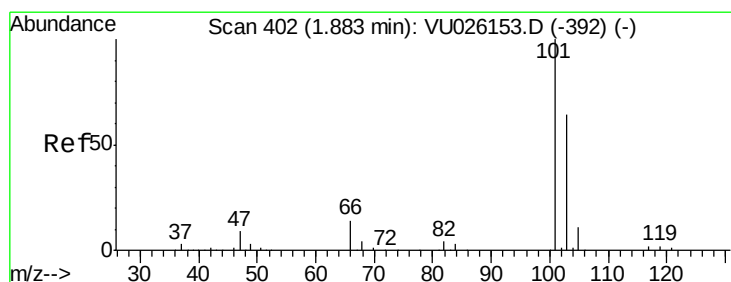
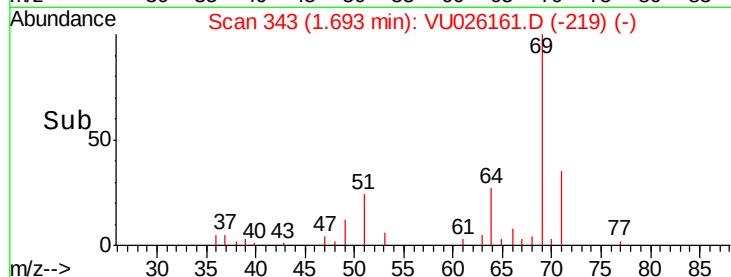
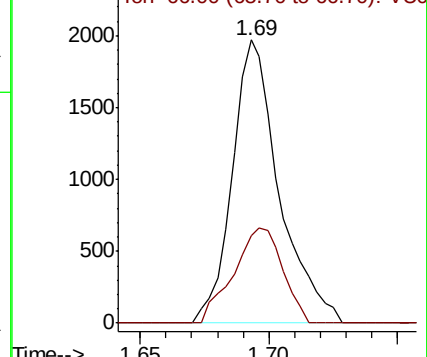
APPROVED

MMDadoda

8/16/2018 4:20:23 PM



Abundance Ion 64.00 (63.70 to 64.70): VU026161.D (-219) (-)



#9

Trichlorofluoromethane

Concen: 1.88 ug/L

RT: 1.89 min Scan# 403

Delta R.T. 0.00 min

Lab File: VU026161.D

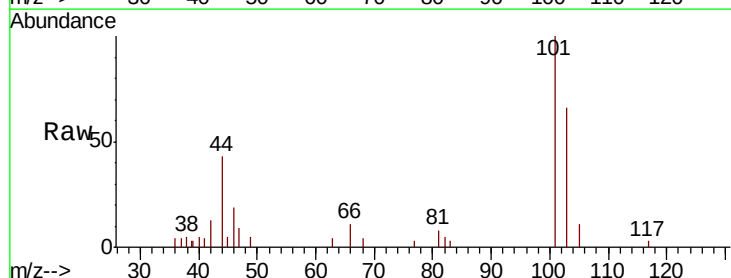
Acq: 15 Aug 2018 21:12

Tgt Ion:101 Resp: 5609

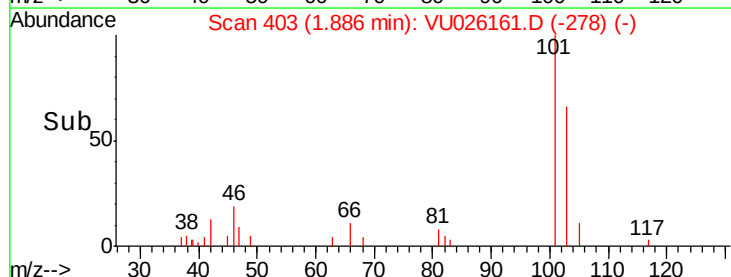
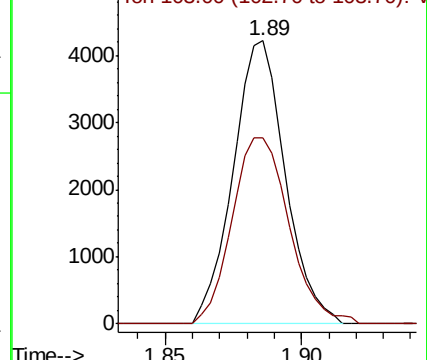
Ion Ratio Lower Upper

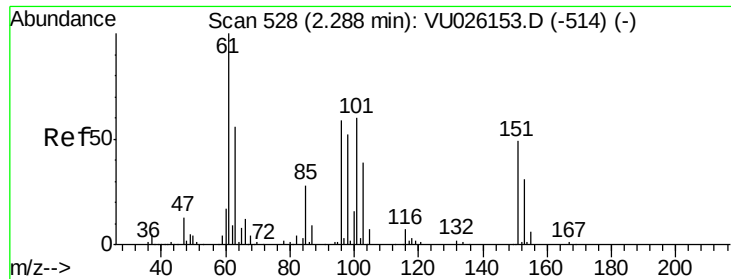
101 100

103 71.5 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU026161.D (-278) (-)





#10

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

Concen: 2.41 ug/L

RT: 2.28 min Scan# 526

Delta R.T. -0.01 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

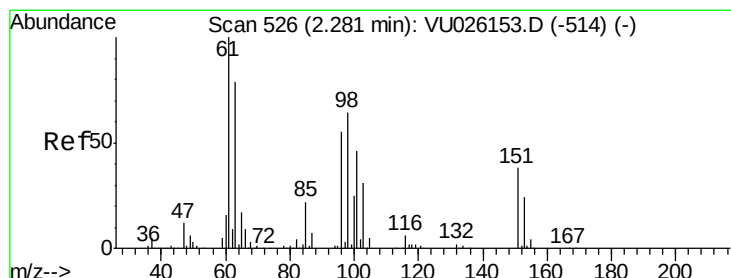
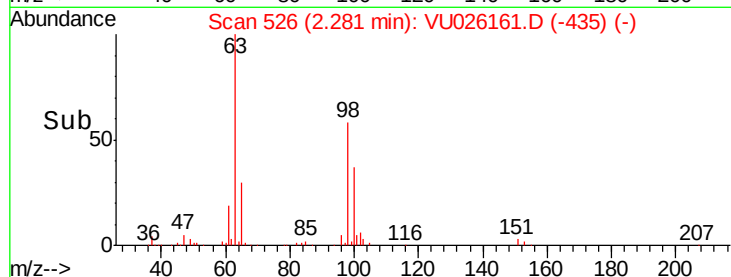
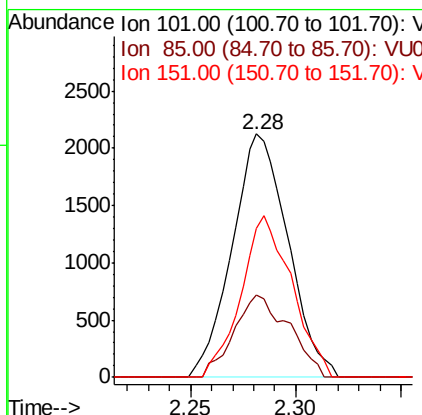
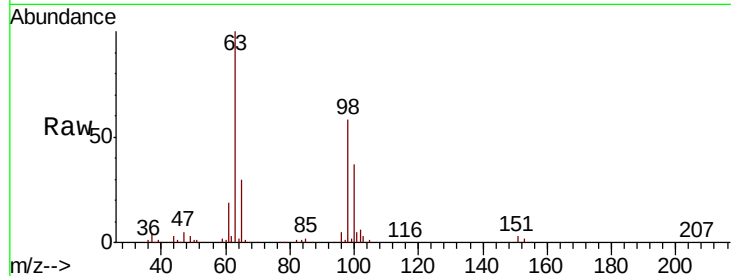
ClientSampleID :

MDL06

Tot Ion:	101	Resp:	3903
Ion Ratio	Lower	Upper	
101	100		
85	24.0	36.6	55.0#
151	60.4	63.8	95.8#

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:23 PM



#12

1,1-Dichloroethene

Concen: 2.62 ug/L

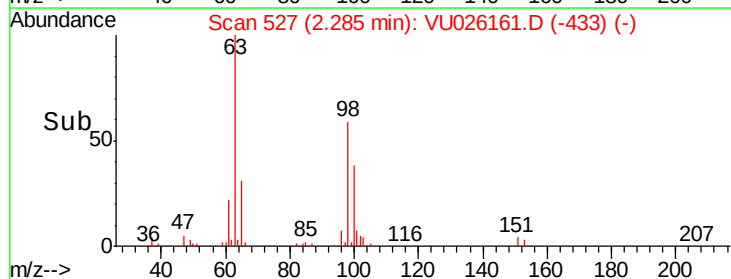
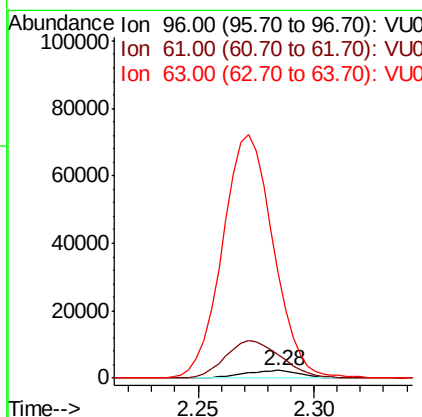
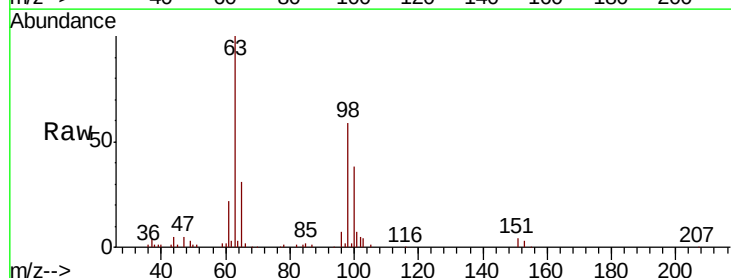
RT: 2.28 min Scan# 527

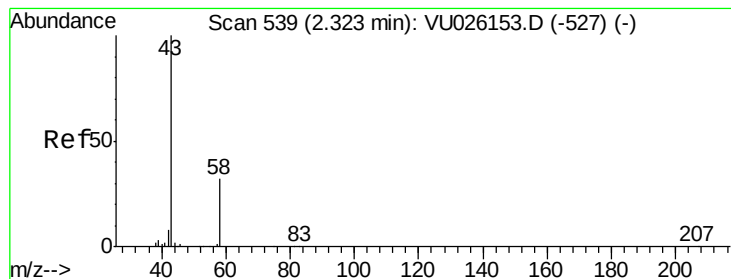
Delta R.T. 0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Tgt Ion:	96	Resp:	3885
Ion Ratio	Lower	Upper	
96	100		
61	302.8	126.8	235.4#
63	1380.6	97.0	180.2#





#13

Acetone

Concen: 3.94 ug/L

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

ClientSampleId :

MDL06

Tot Ion: 43 Resp: 4560

Ion Ratio Lower Upper

43 100

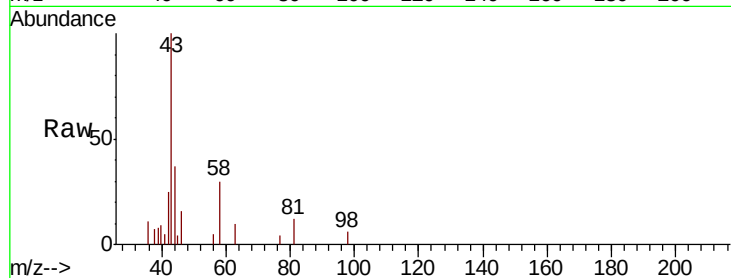
58 29.8 0.0 62.6

Manual Integrations

APPROVED

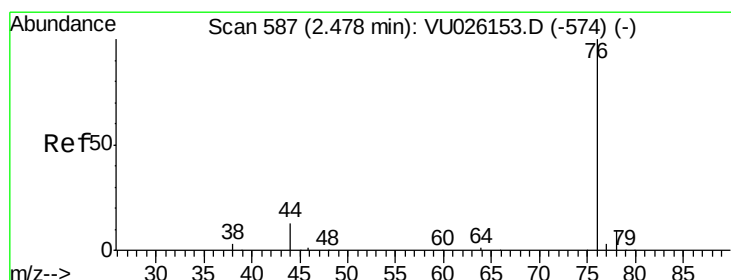
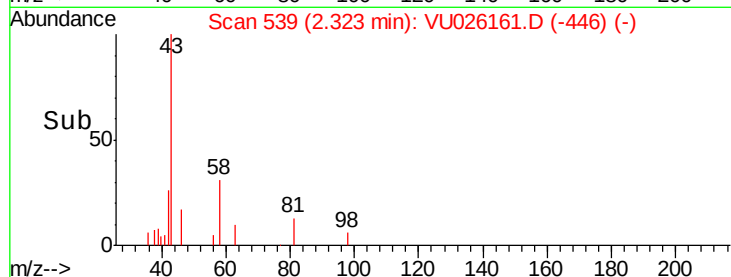
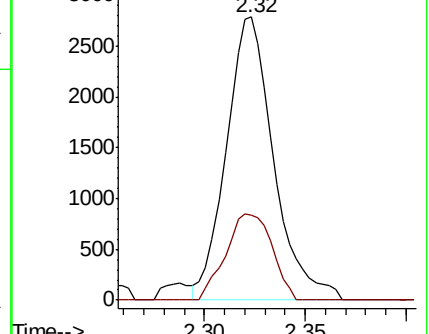
MMDadoda

8/16/2018 4:20:23 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 1.93 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026161.D

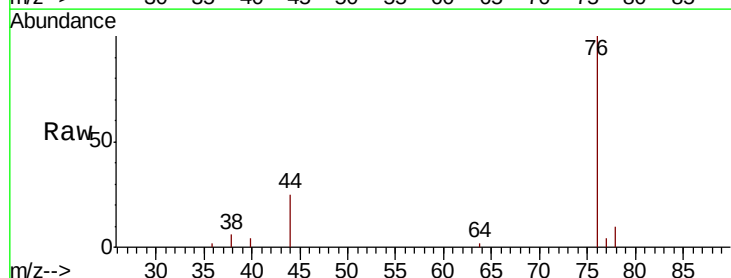
Acq: 15 Aug 2018 21:12

Tgt Ion: 76 Resp: 9936

Ion Ratio Lower Upper

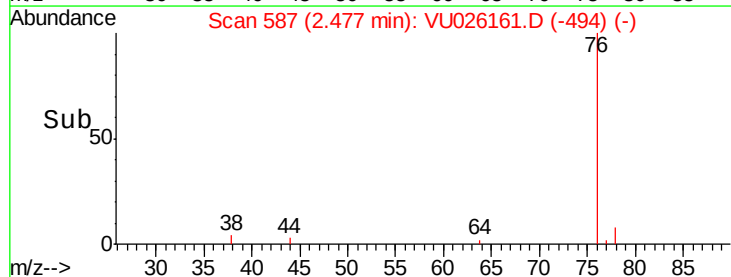
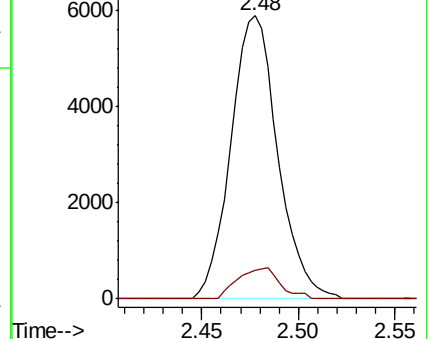
76 100

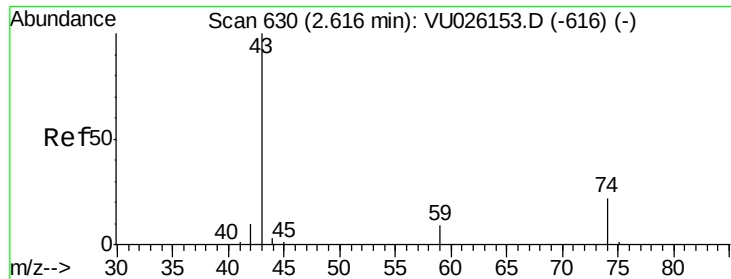
78 10.0 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





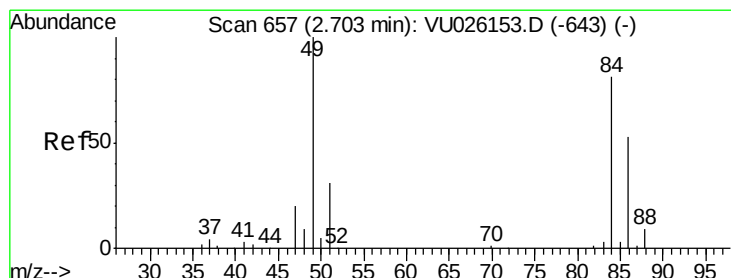
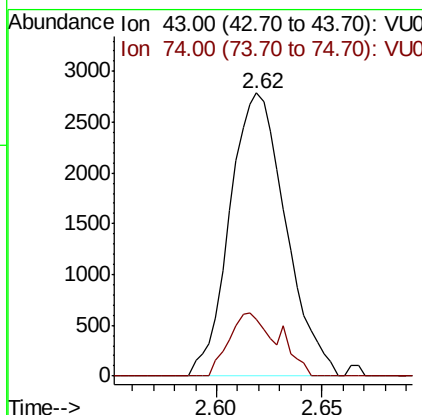
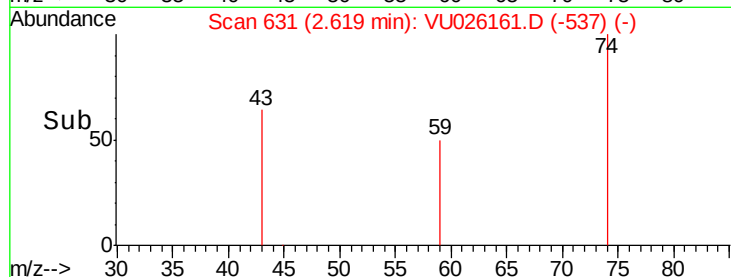
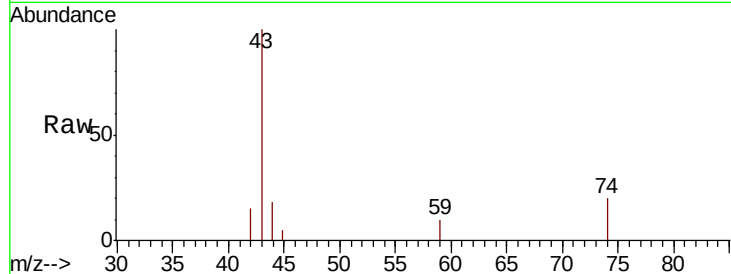
#15
Methvl Acetate
Concen: 2.55 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion: 43 Resp: 5130
Ion Ratio Lower Upper
43 100
74 15.7 18.6 28.0#

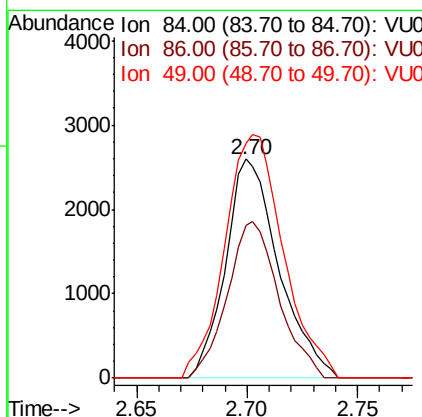
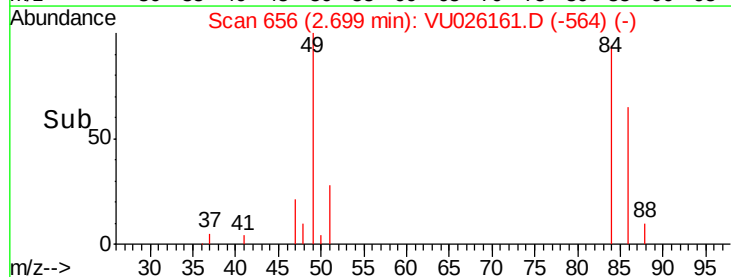
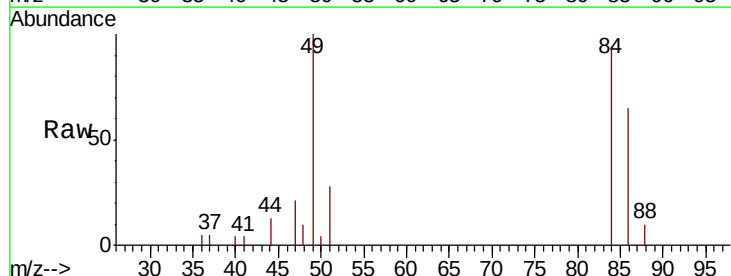
Manual Integrations
APPROVED

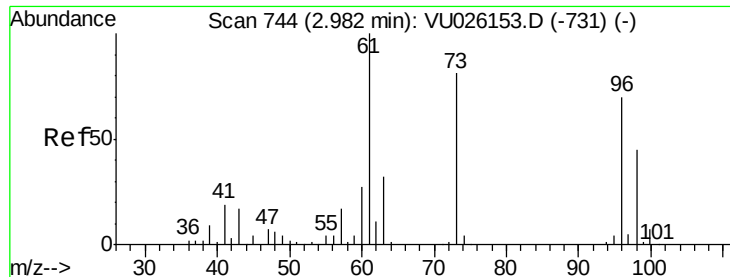
MMDadoda
8/16/2018 4:20:23 PM



#16
Methylene chloride
Concen: 2.20 ug/L
RT: 2.70 min Scan# 656
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Tgt Ion: 84 Resp: 4365
Ion Ratio Lower Upper
84 100
86 69.8 44.0 81.6
49 106.9 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 1.98 ug/L

RT: 2.99 min Scan# 746

Delta R.T. 0.01 min

Lab File: VU026161.D

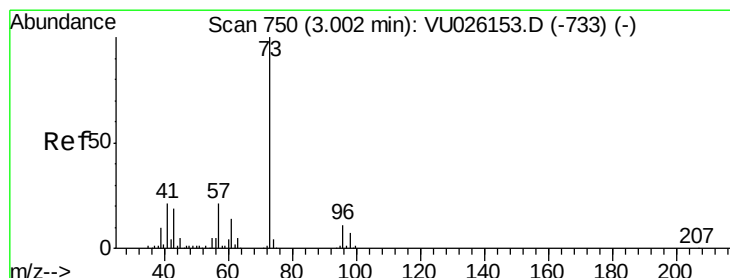
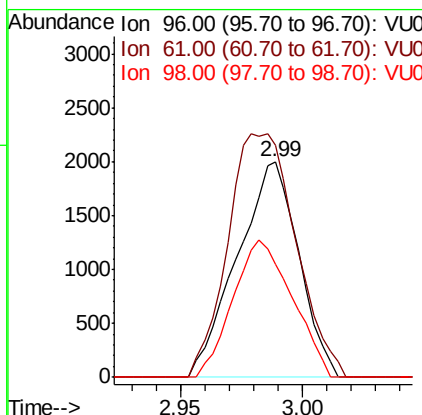
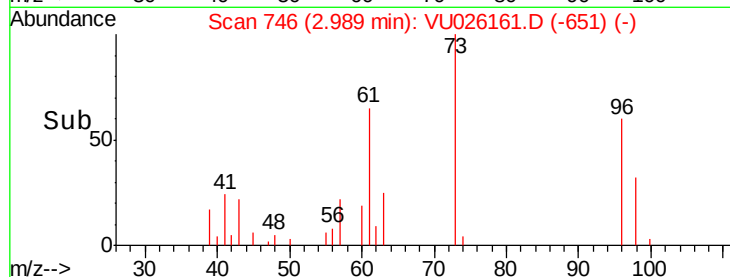
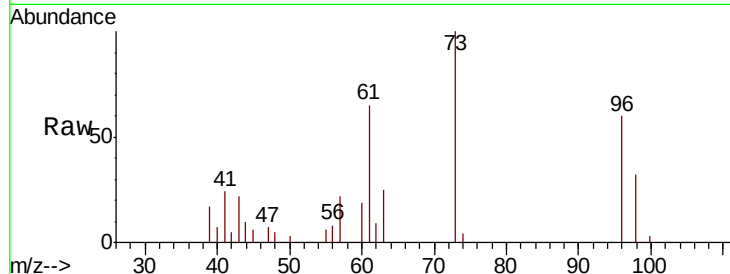
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
96	100		
61	107.6	96.7	179.5
98	52.7	43.6	81.0

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:23 PM



#18

Methyl tert-butyl Ether

Concen: 1.94 ug/L

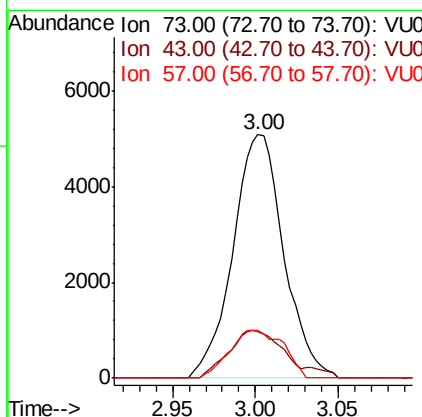
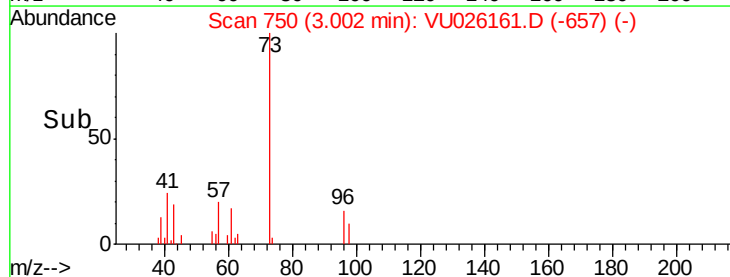
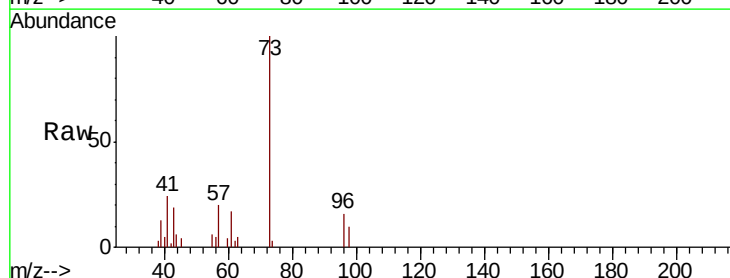
RT: 3.00 min Scan# 750

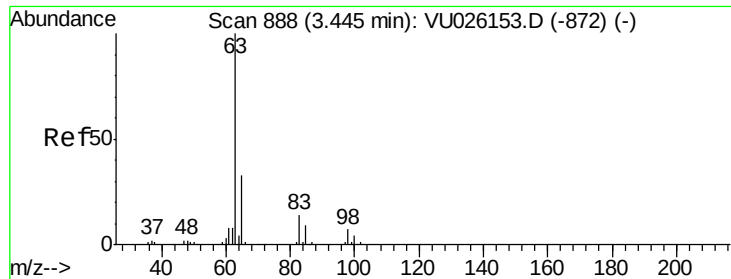
Delta R.T. -0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
73	100		
43	20.2	16.2	24.4
57	16.2	18.2	27.2#





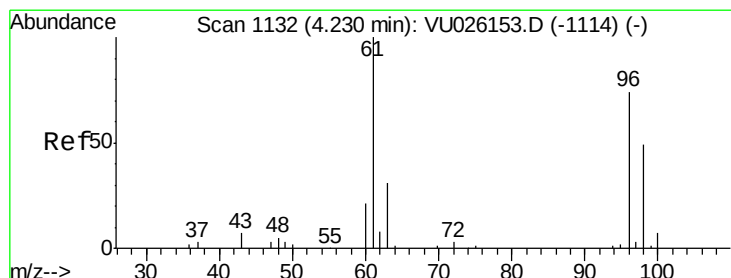
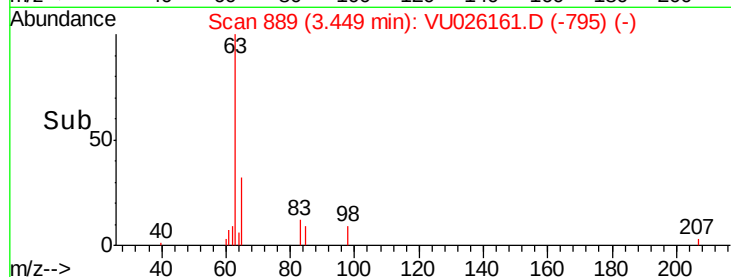
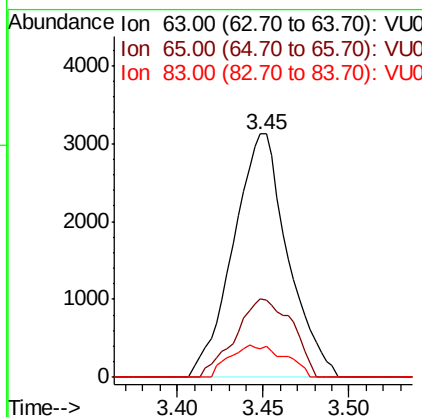
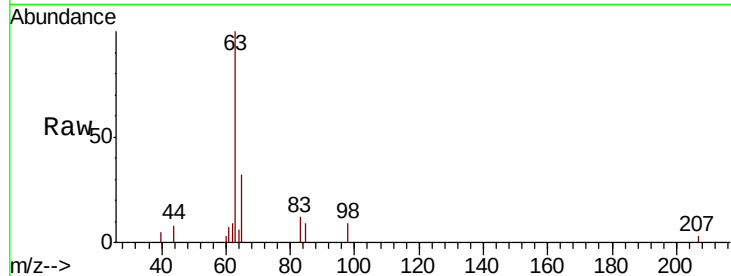
#19
 1,1-Dichloroethane
 Concen: 2.03 ug/L
 RT: 3.45 min Scan# 889
 Delta R.T. 0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion:	63	Resp:	6875
Ion	Ratio	Lower	Upper
63	100		
65	32.2	22.1	41.1
83	11.9	9.4	17.4

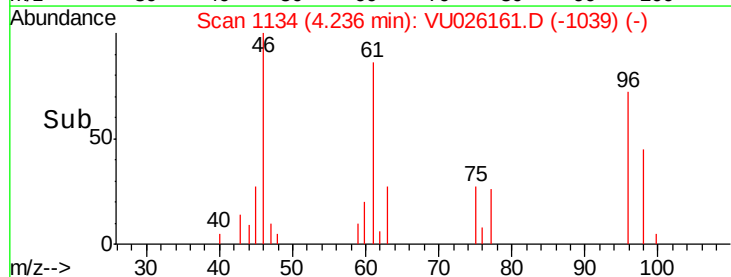
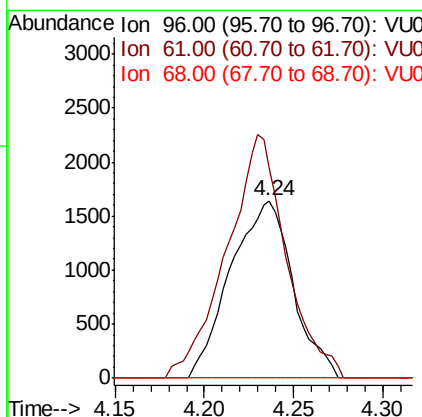
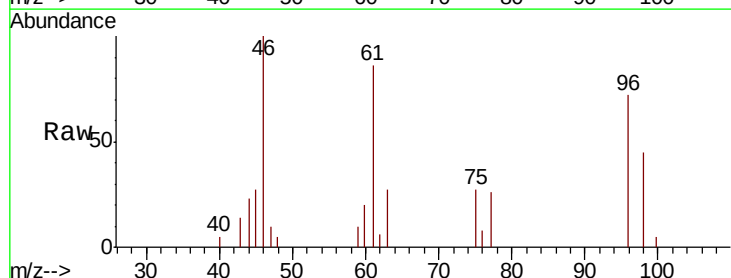
Manual Integrations
 APPROVED

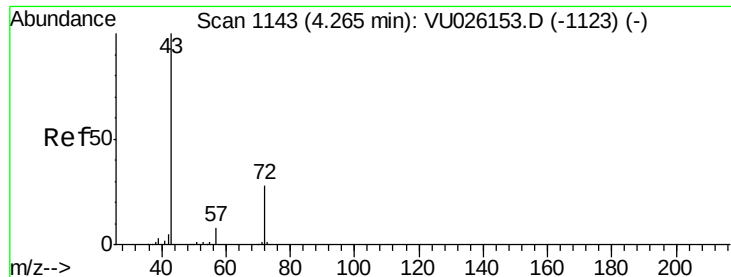
MMDadoda
 8/16/2018 4:20:23 PM



#20
 cis-1,2-Dichloroethene
 Concen: 2.03 ug/L
 RT: 4.24 min Scan# 1134
 Delta R.T. 0.01 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Tgt Ion:	96	Resp:	4001
Ion	Ratio	Lower	Upper
96	100		
61	118.7	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.16 ug/L m

RT: 4.28 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 43 Resp: 6009

Ion Ratio Lower Upper

43 100

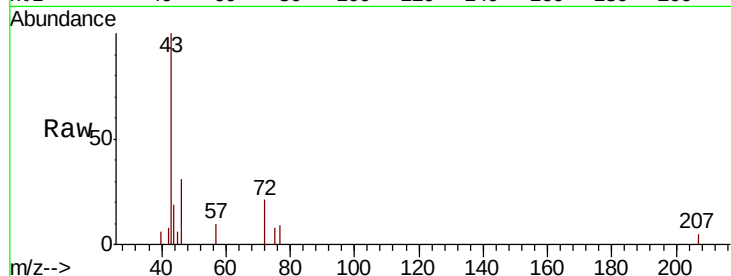
72 0.0 13.4 40.1#

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:23 PM



Abundance Ion 43.00 (42.70 to 43.70): VU026161.D (-1147) (-)

Ion 72.00 (71.70 to 72.70): VU026161.D (-1147) (-)

2500

2000

1500

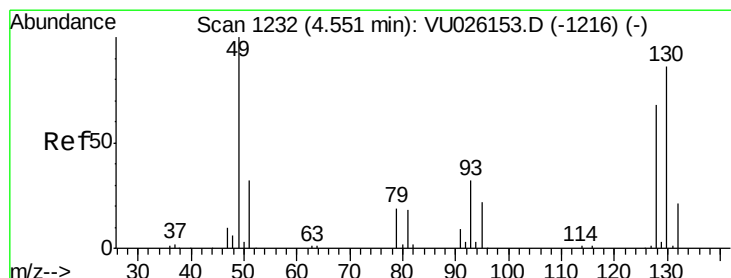
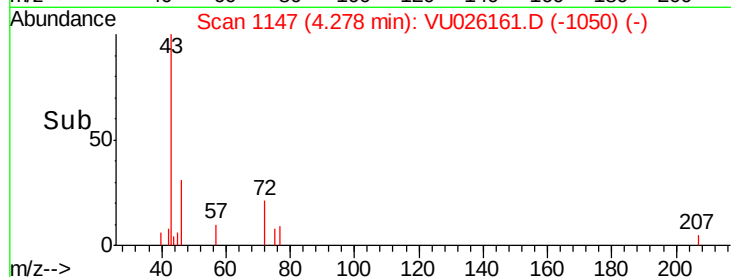
1000

500

0

4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 1.98 ug/L m

RT: 4.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Tgt Ion:128 Resp: 2113

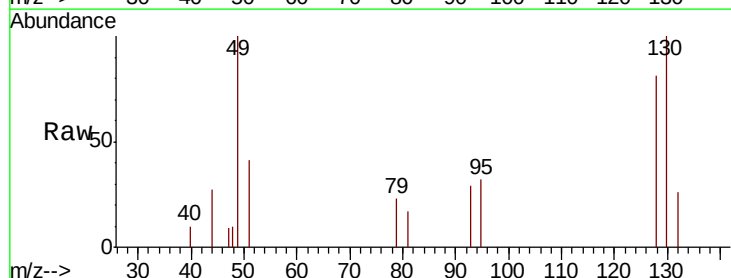
Ion Ratio Lower Upper

128 100

49 123.8 101.3 188.1

130 124.2 86.4 160.4

51 51.3 38.1 57.1



Abundance Ion 128.00 (127.70 to 128.70): VU026161.D (-1231) (-)

Ion 49.00 (48.70 to 49.70): VU026161.D (-1231) (-)

Ion 130.00 (129.70 to 130.70): VU026161.D (-1231) (-)

Ion 51.00 (50.70 to 51.70): VU026161.D (-1231) (-)

6000

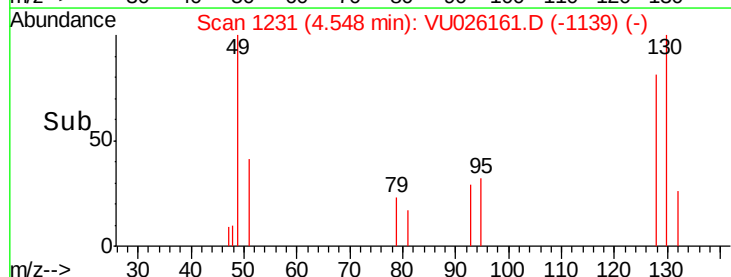
4000

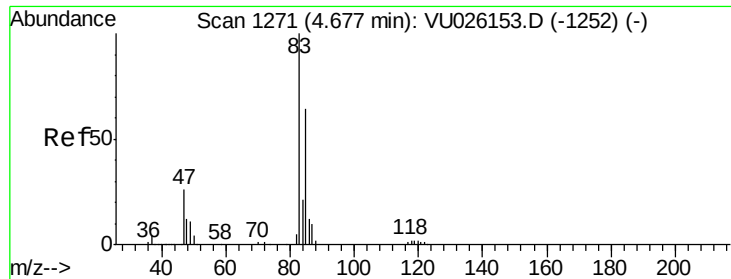
2000

0

4.50 4.55 4.60

Time-->





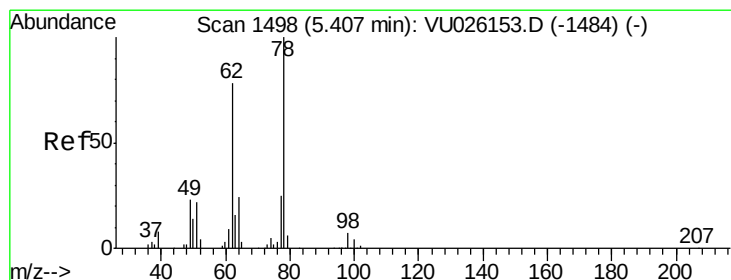
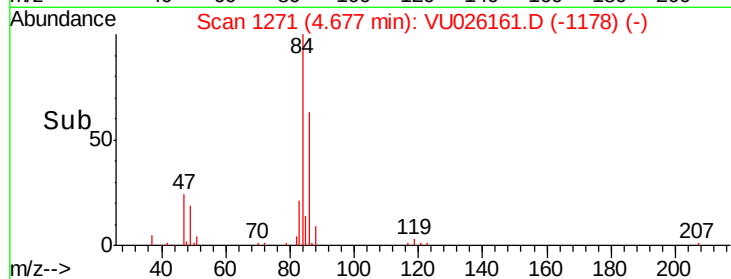
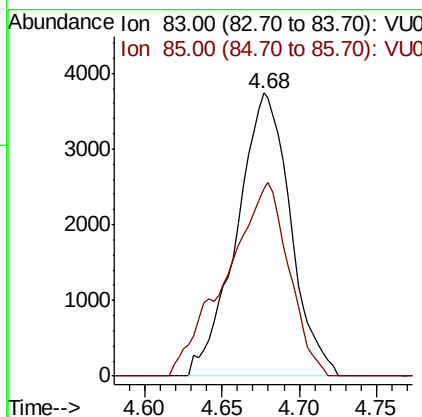
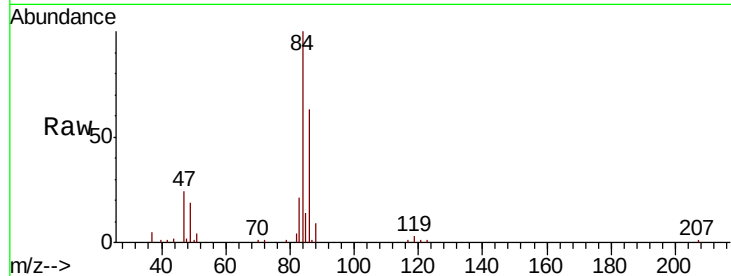
#25
Chloroform
Concen: 2.53 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion	83	Resp	9014
Ion Ratio	100	Lower	Upper
85	66.3	46.3	86.1

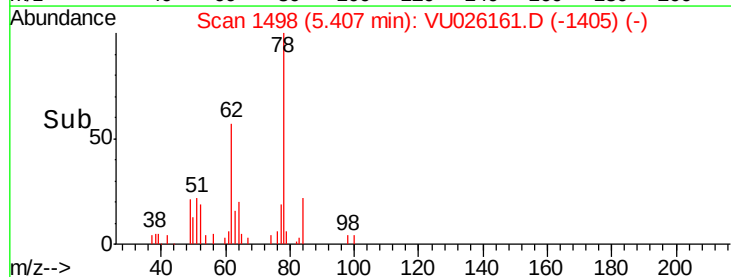
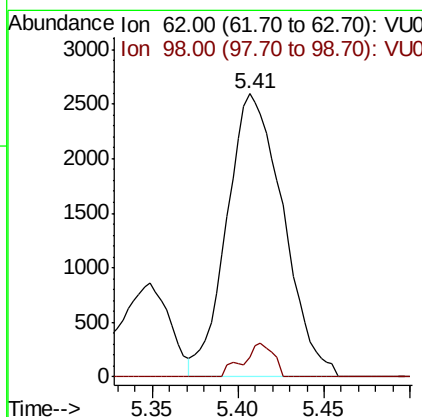
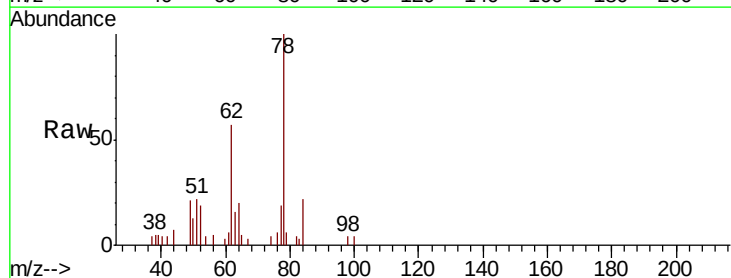
Manual Integrations
APPROVED

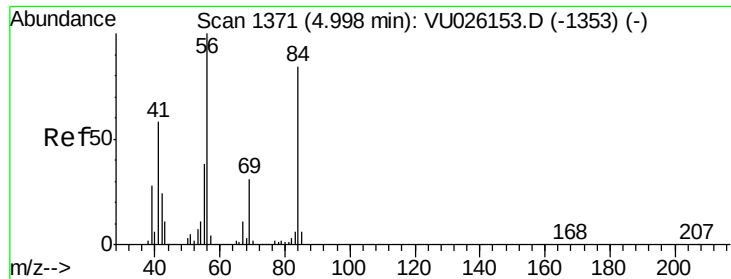
MMDadoda
8/16/2018 4:20:23 PM



#27
1,2-Dichloroethane
Concen: 2.05 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Tgt Ion	62	Resp	5898
Ion Ratio	100	Lower	Upper
98	7.1	7.0	10.4





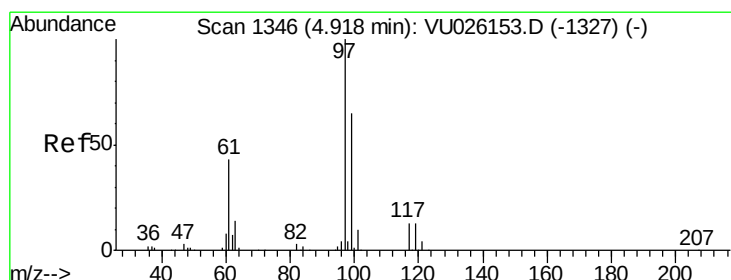
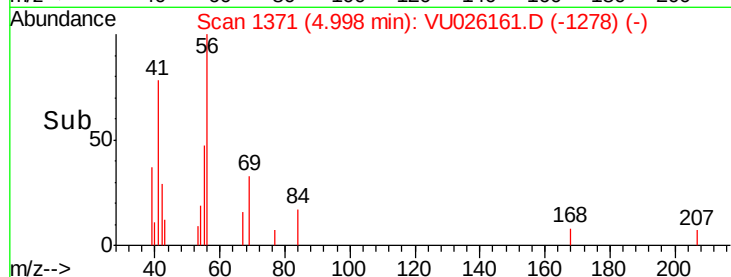
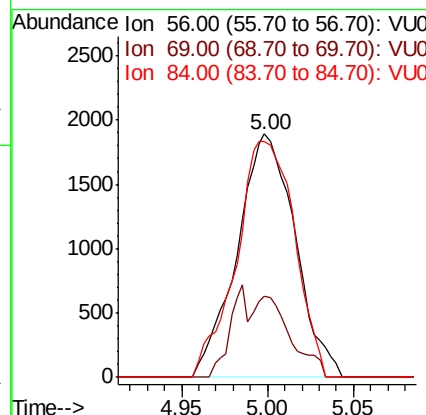
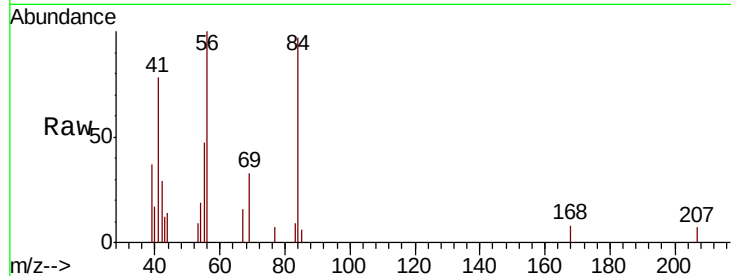
#29
Cyclohexane
Concen: 1.68 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	Ratio	Lower	Upper
56	100		
69	21.1	24.1	36.1#
84	97.2	68.6	102.8

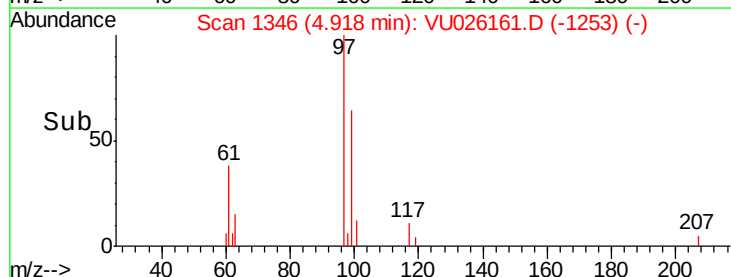
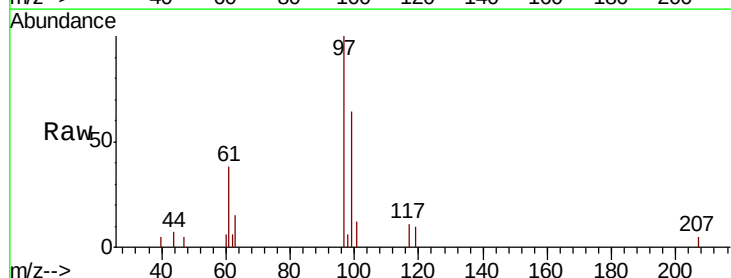
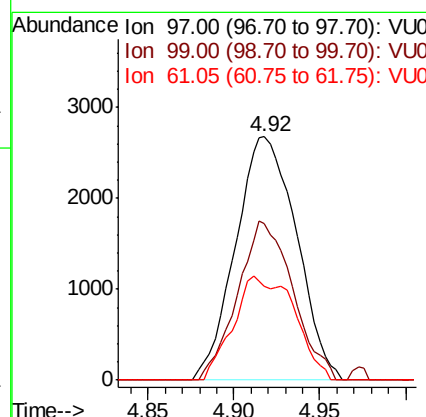
Manual Integrations
APPROVED

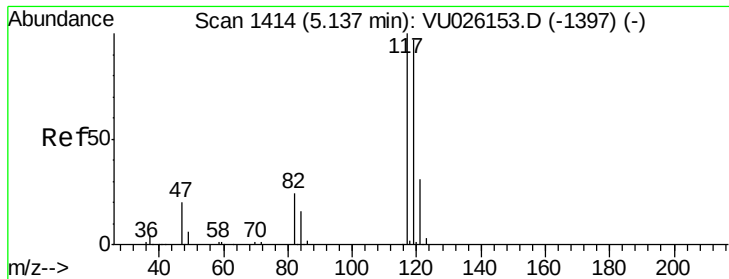
MMDadoda
8/16/2018 4:20:23 PM



#30
1,1,1-Trichloroethane
Concen: 2.08 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	59.3	52.2	78.2
61	25.5	35.4	53.0#





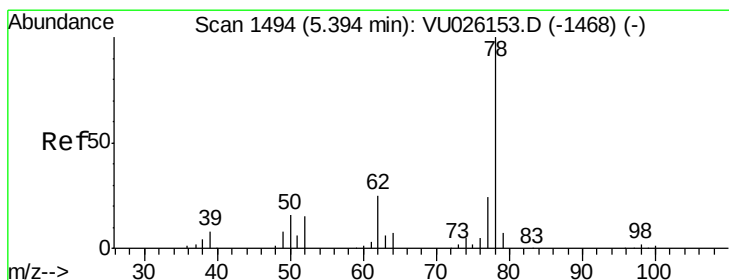
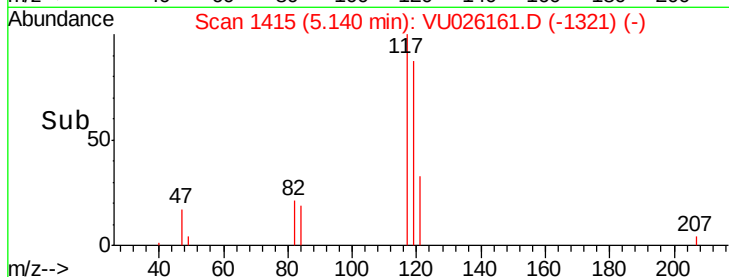
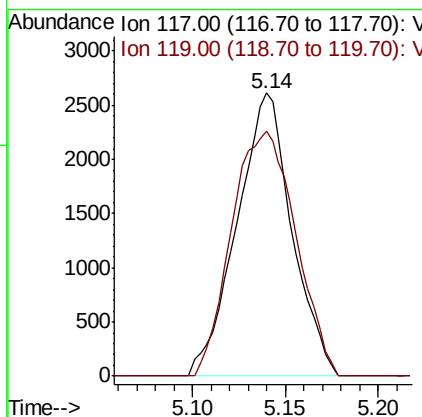
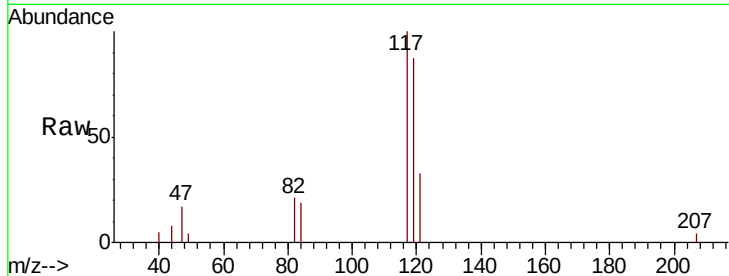
#31
Carbon tetrachloride
Concen: 1.88 ug/L
RT: 5.14 min Scan# 1415
Delta R.T. 0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion:117 Resp: 5400
Ion Ratio Lower Upper
117 100
119 100.9 77.4 116.2

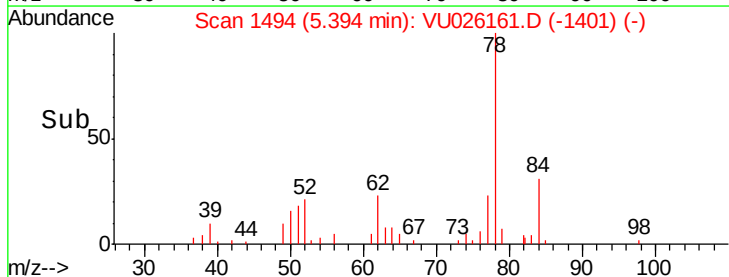
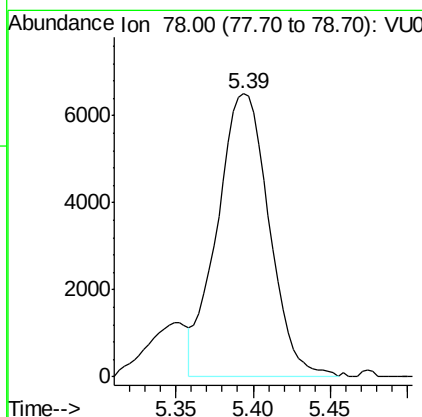
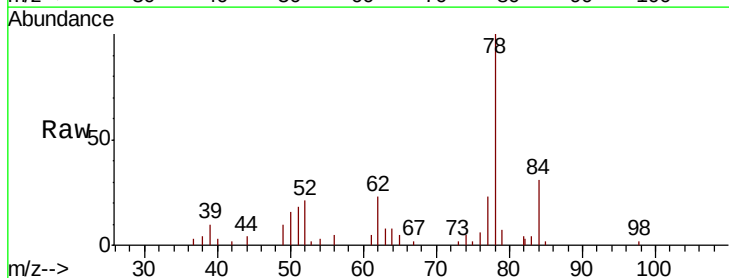
Manual Integrations
APPROVED

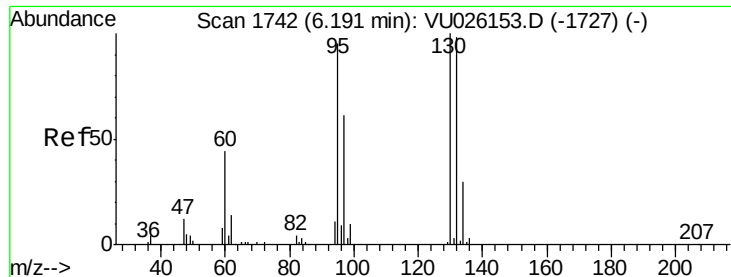
MMDadoda
8/16/2018 4:20:23 PM



#33
Benzene
Concen: 2.12 ug/L
RT: 5.39 min Scan# 1494
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Tgt Ion: 78 Resp: 15194





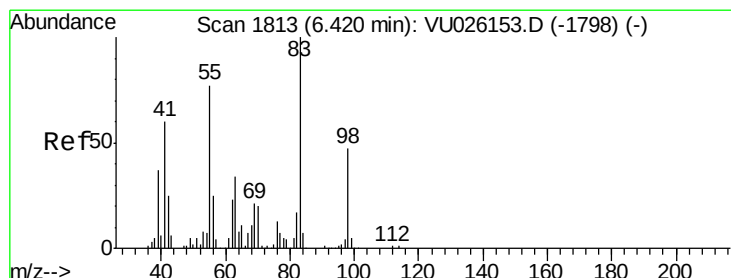
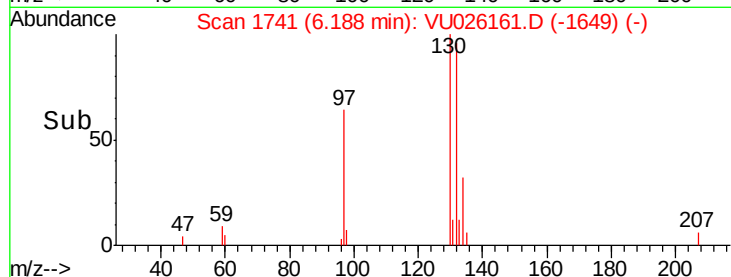
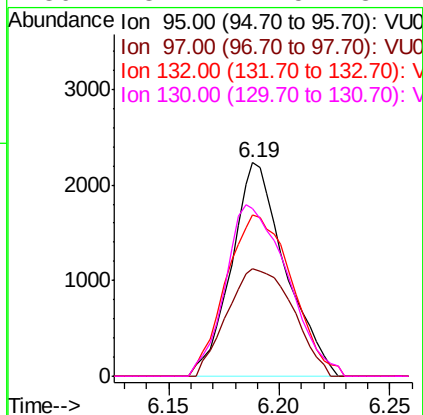
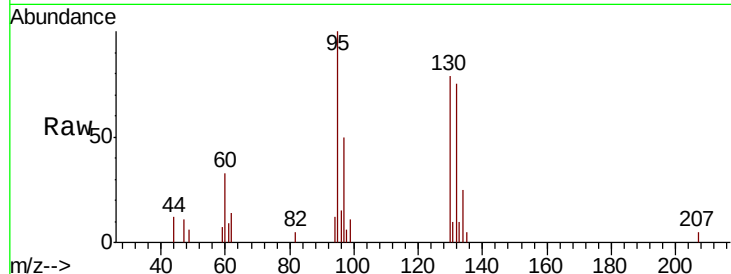
#34
 Trichloroethene
 Concen: 2.02 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion:	95	Resp:	3784
Ion	Ratio	Lower	Upper
95	100		
97	50.1	45.7	84.9
132	75.3	68.8	127.8
130	78.7	71.5	132.7

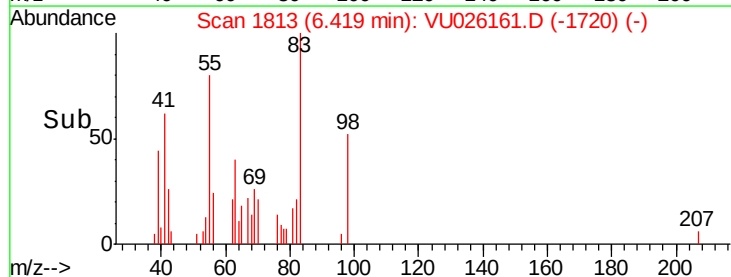
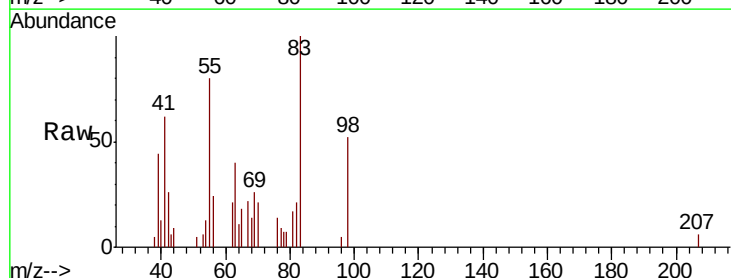
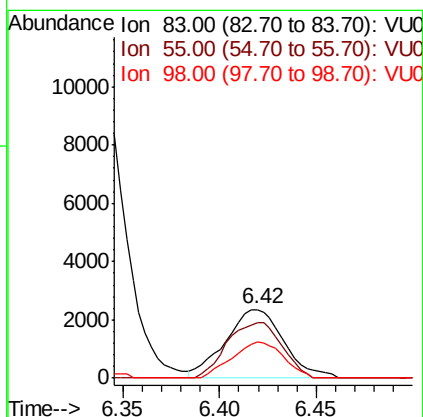
Manual Integrations
 APPROVED

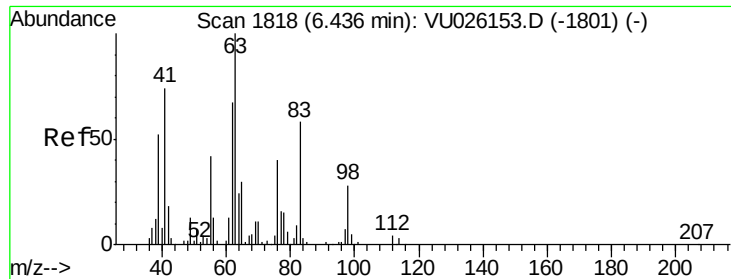
MMDadoda
 8/16/2018 4:20:23 PM



#35
 Methylcyclohexane
 Concen: 1.77 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Tgt Ion:	83	Resp:	4968
Ion	Ratio	Lower	Upper
83	100		
55	75.5	61.0	91.6
98	45.9	37.6	56.4





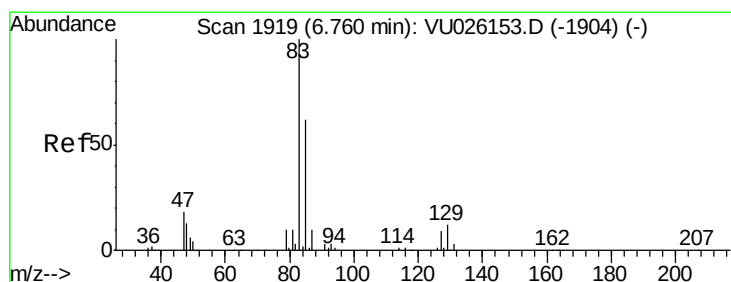
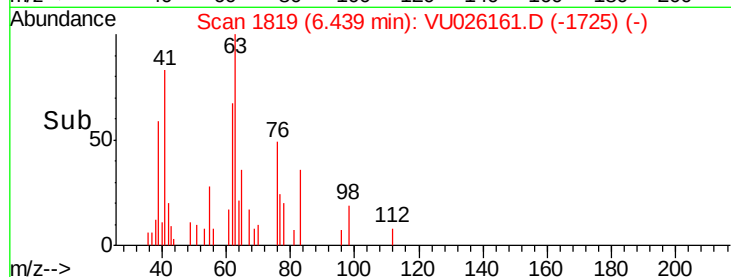
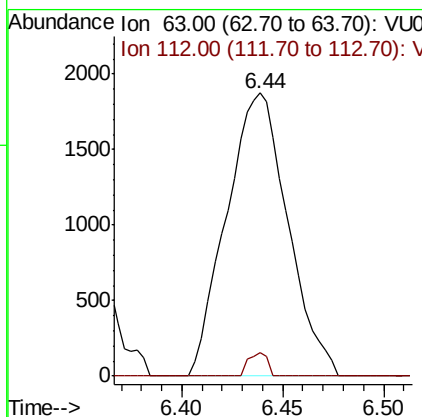
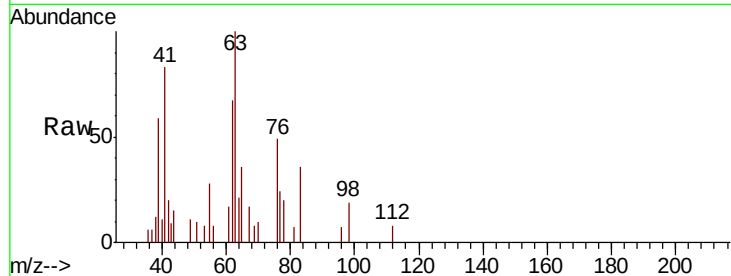
#37
 1,2-Dichloropropane
 Concen: 1.98 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion: 63 Resp: 3972
 Ion Ratio Lower Upper
 63 100
 112 2.6 3.5 5.3#

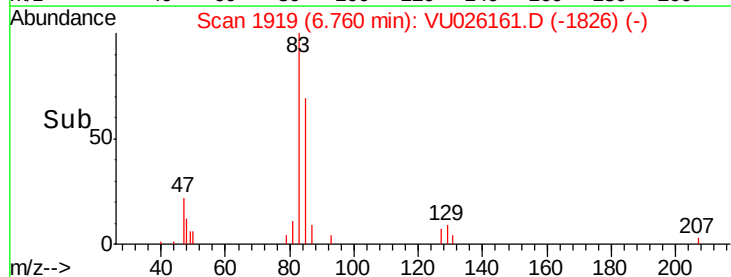
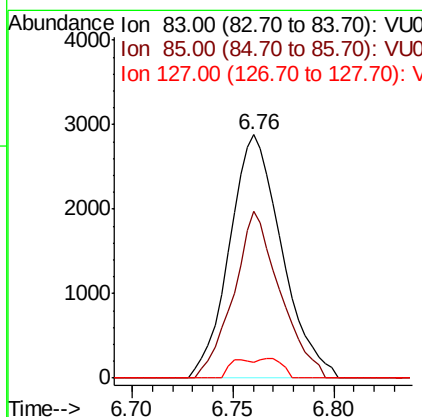
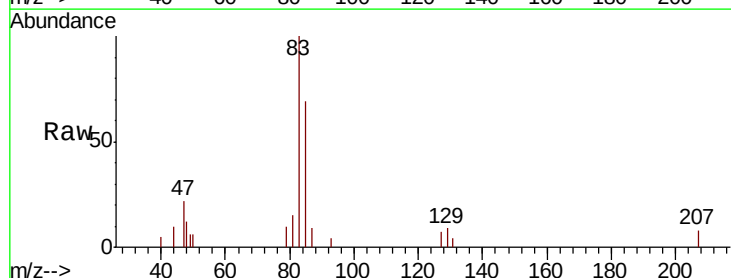
Manual Integrations
 APPROVED

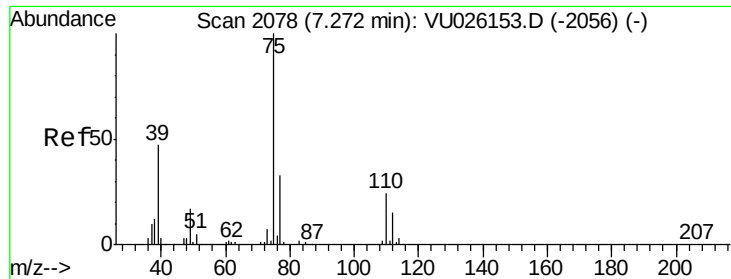
MMDadoda
 8/16/2018 4:20:23 PM



#38
 Bromodichloromethane
 Concen: 1.97 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Tgt Ion: 83 Resp: 5224
 Ion Ratio Lower Upper
 83 100
 85 68.8 46.0 85.4
 127 6.6 7.5 11.3#





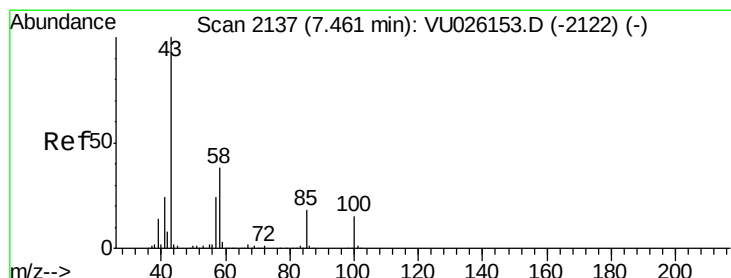
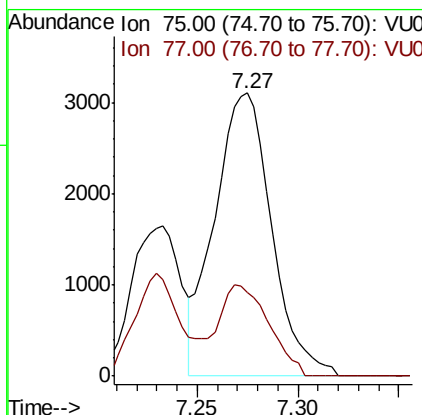
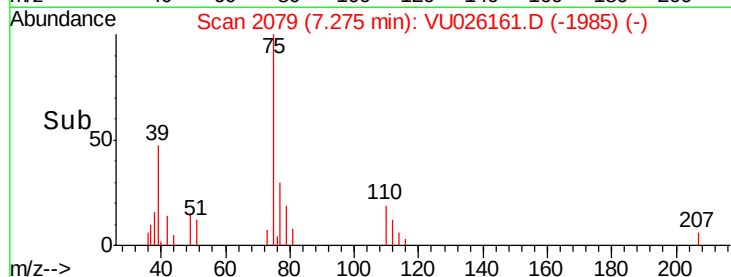
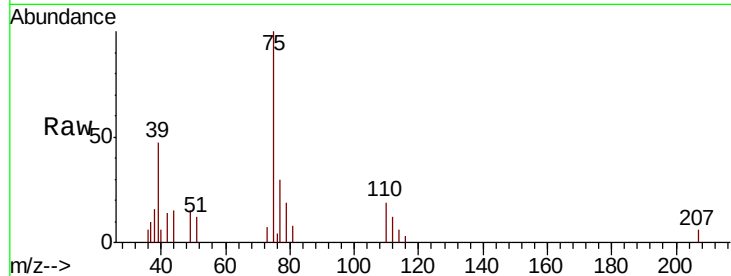
#39
 cis-1,3-Dichloropropene
 Concen: 2.06 ug/L
 RT: 7.27 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion: 75 Resp: 6125
 Ion Ratio Lower Upper
 75 100
 77 29.8 22.2 41.2

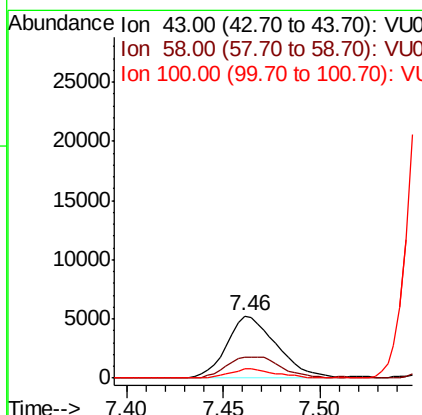
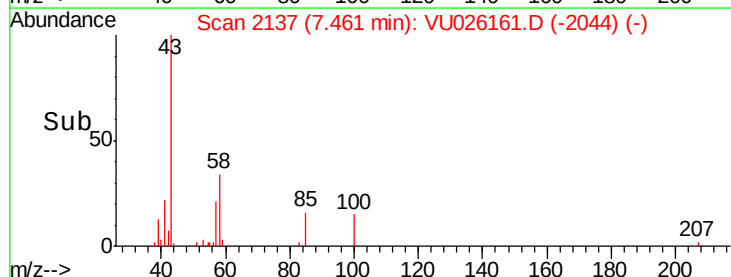
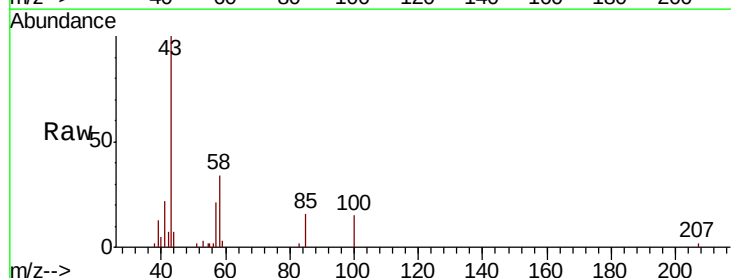
Manual Integrations
 APPROVED

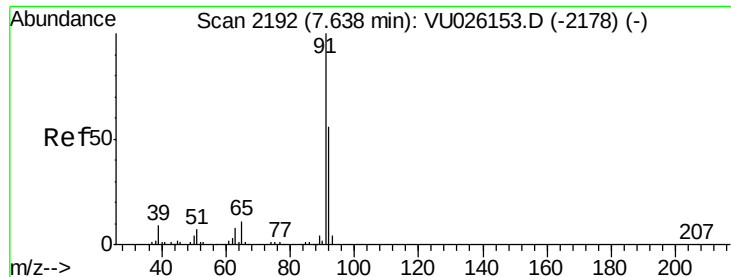
MMDadoda
 8/16/2018 4:20:23 PM



#40
 4-Methyl-2-pentanone
 Concen: 3.77 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. -0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Tgt Ion: 43 Resp: 9368
 Ion Ratio Lower Upper
 43 100
 58 18.1 31.8 47.8#
 100 13.1 12.2 18.2





#42

Toluene

Concen: 2.07 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

ClientSampled :

MDL06

Tot Ion: 91 Resp: 15800

Ion Ratio Lower Upper

91 100

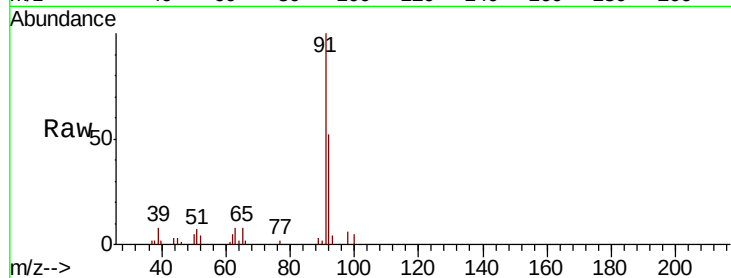
92 51.7 40.0 74.4

Manual Integrations

APPROVED

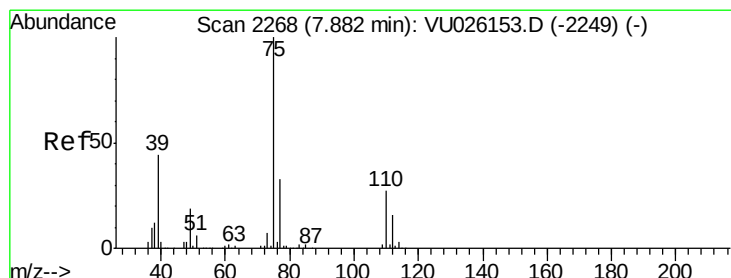
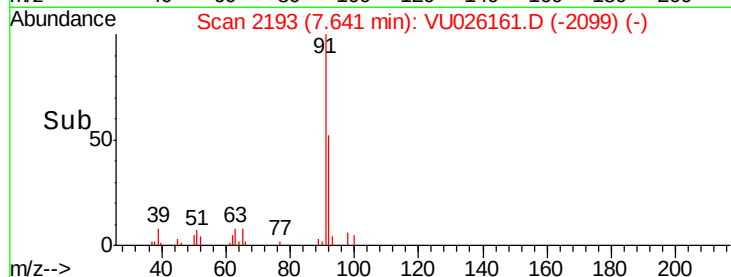
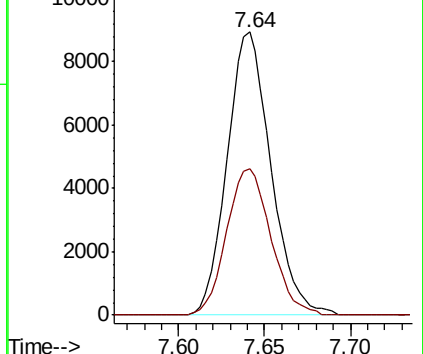
MMDadoda

8/16/2018 4:20:23 PM



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 1.89 ug/L

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU026161.D

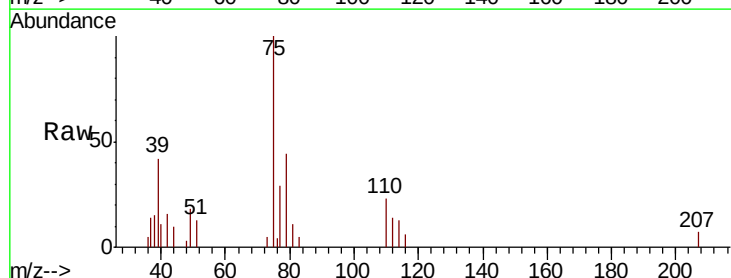
Acq: 15 Aug 2018 21:12

Tgt Ion: 75 Resp: 5413

Ion Ratio Lower Upper

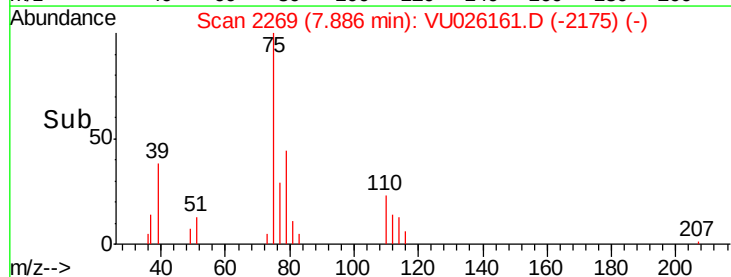
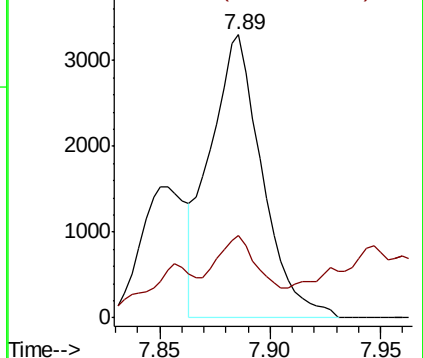
75 100

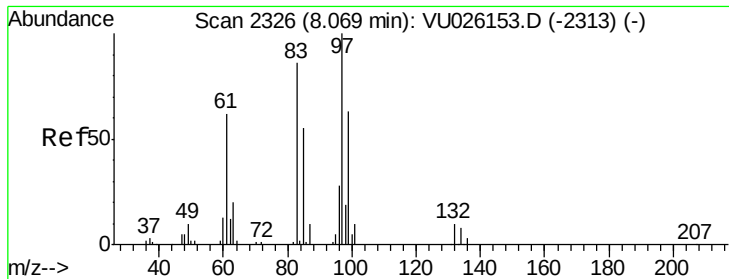
77 28.9 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





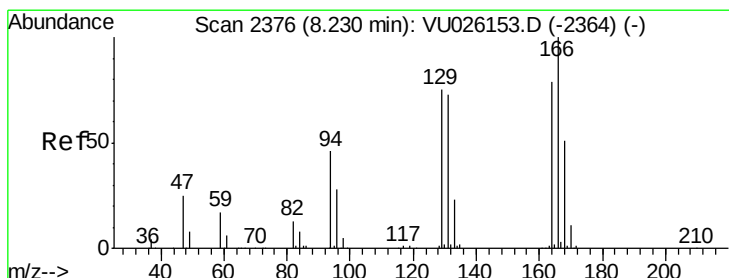
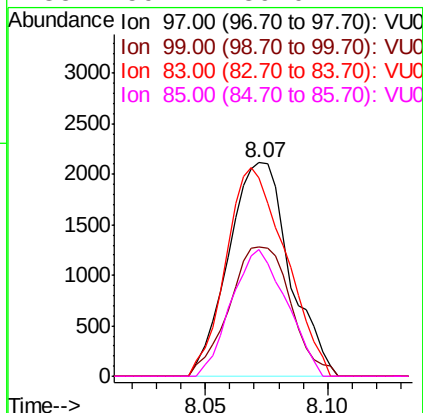
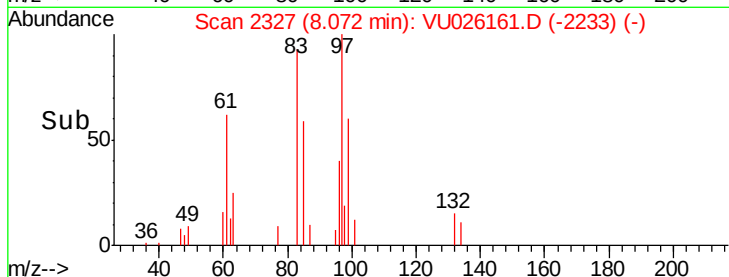
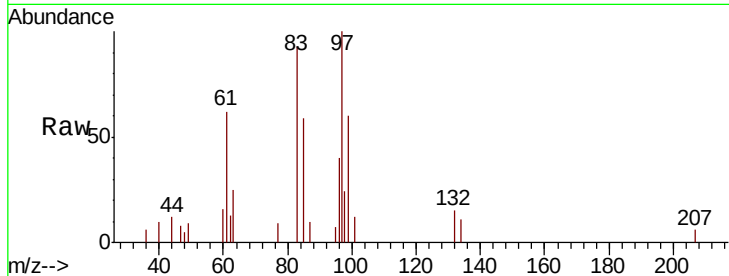
#45
1,1,2-Trichloroethane
Concen: 1.94 ug/L
RT: 8.07 min Scan# 2327
Delta R.T. 0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Tot Ion:	97	Resp:	3679
Ion	Ratio	Lower	Upper
97	100		
99	60.4	43.3	80.5
83	92.8	58.4	108.6
85	59.2	39.0	72.4

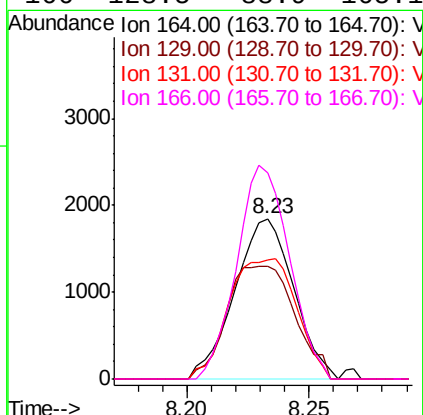
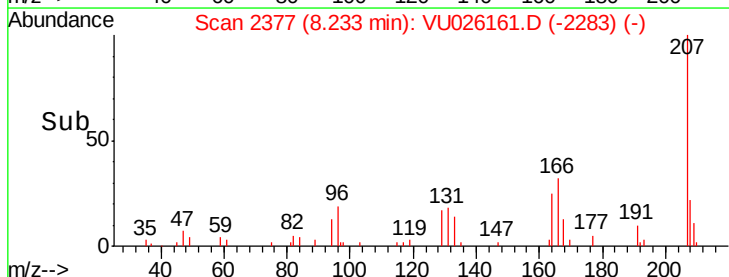
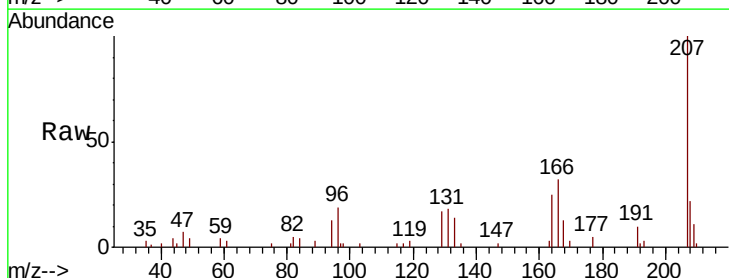
Manual Integrations
APPROVED

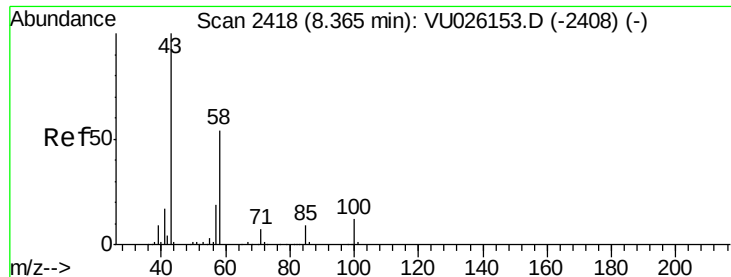
MMDadoda
8/16/2018 4:20:23 PM



#46
Tetrachloroethene
Concen: 1.92 ug/L
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Tgt Ion:	164	Resp:	3095
Ion	Ratio	Lower	Upper
164	100		
129	69.9	65.7	121.9
131	74.0	62.0	115.2
166	128.5	88.9	165.1





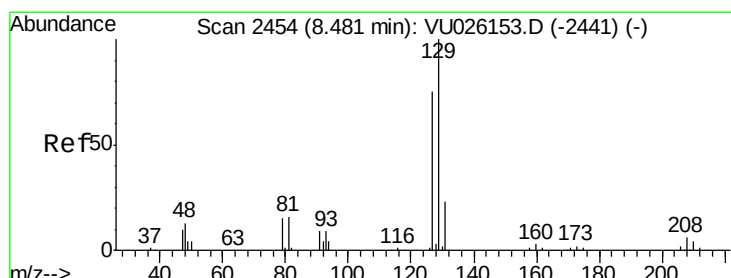
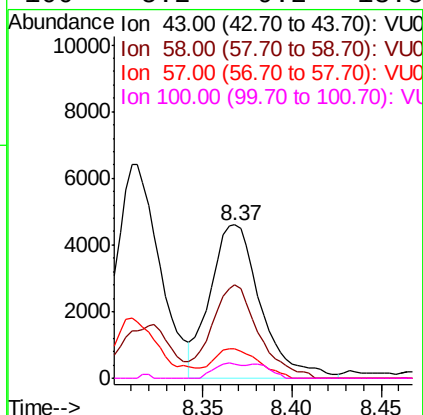
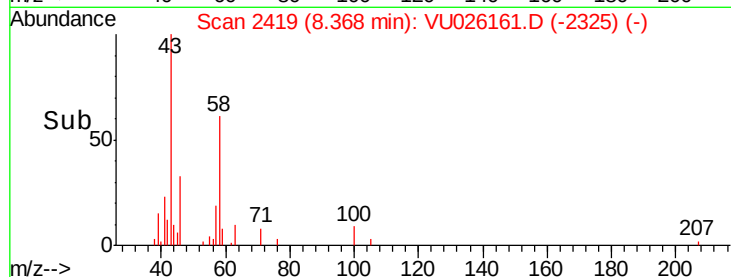
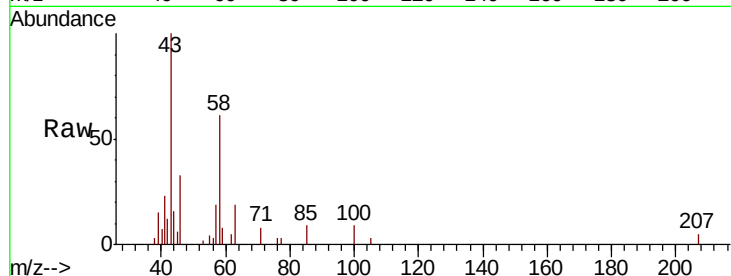
#48
2-Hexanone
Concen: 4.65 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	57.3	42.9	64.3	
57	17.2	15.1	22.7	
100	5.2	9.2	13.8	

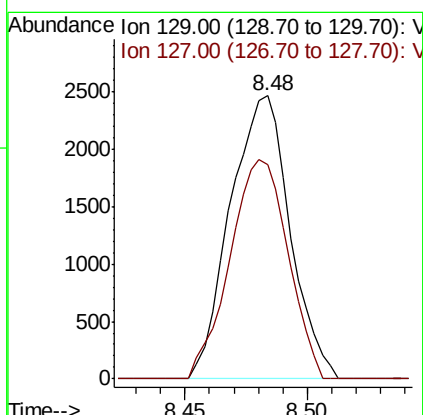
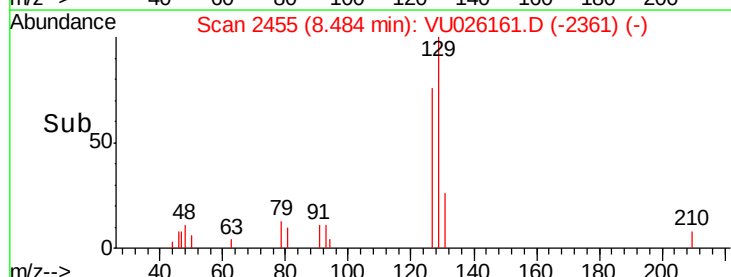
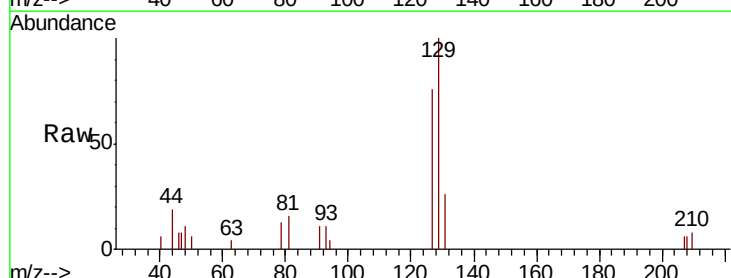
Manual Integrations
APPROVED

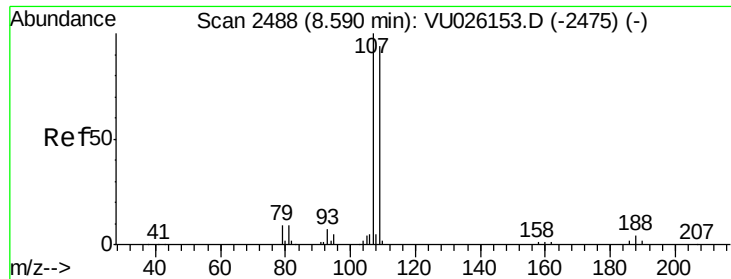
MMDadoda
8/16/2018 4:20:23 PM



#49
Dibromochloromethane
Concen: 1.83 ug/L
RT: 8.48 min Scan# 2455
Delta R.T. 0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	75.8	54.6	101.4	





#50

1,2-Dibromoethane

Concen: 1.80 ug/L

RT: 8.59 min Scan# 2489

Delta R.T. 0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

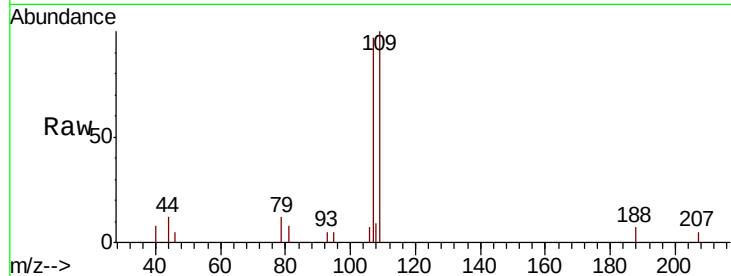
ClientSampleId :

MDL06

Tot Ion	Ratio	Lower	Upper
107	100		
109	103.5	66.1	122.7
188	7.0	3.2	4.8#

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:23 PM

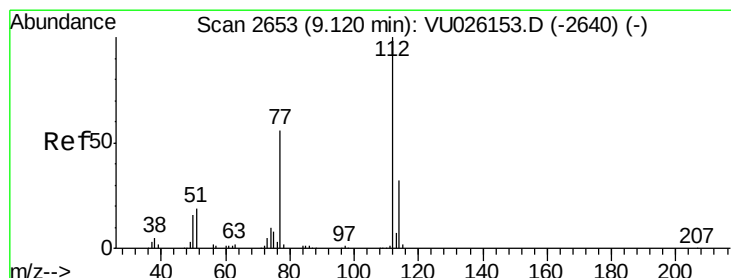
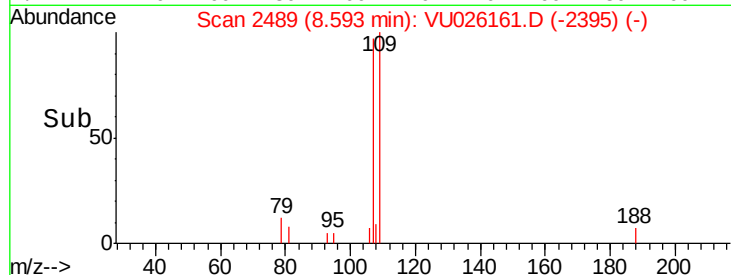
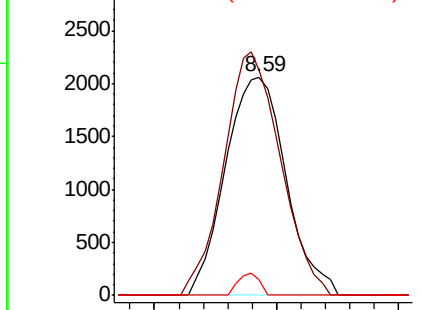


Abundance

Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 1.92 ug/L

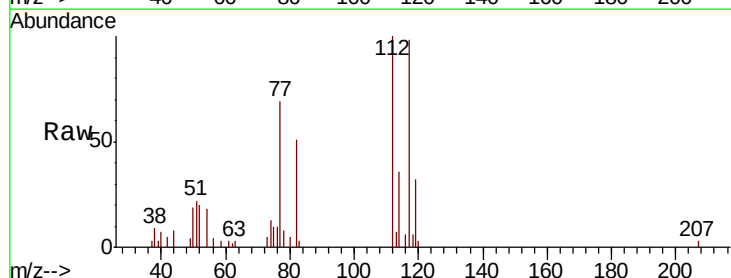
RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
112	100		
114	35.6	22.5	41.9
77	68.9	45.0	67.4#

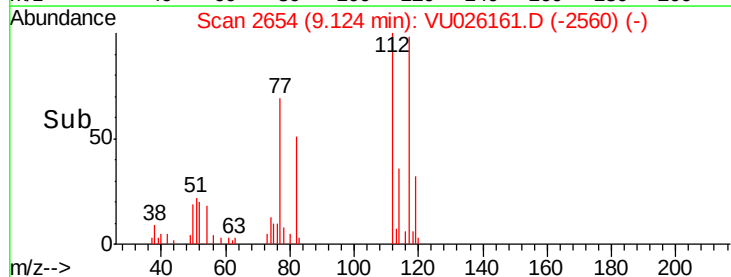
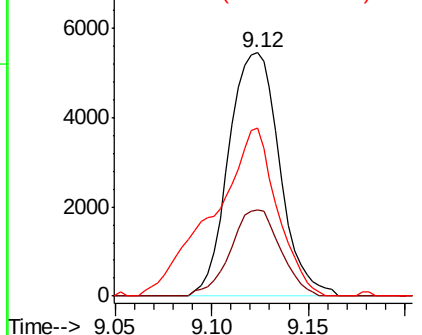


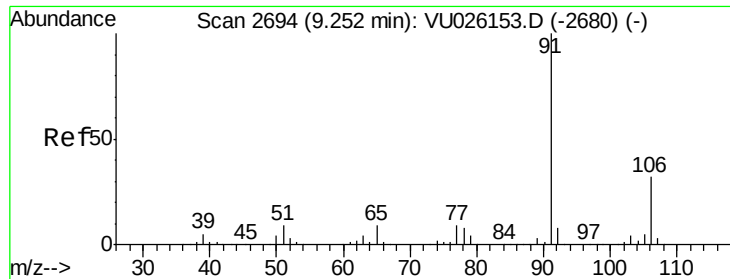
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 1.73 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Tot Ion: 91 Resp: 14367

Ion Ratio Lower Upper

91 100

106 29.1 22.3 41.5

Instrument :

MSVOA_U

ClientSampled :

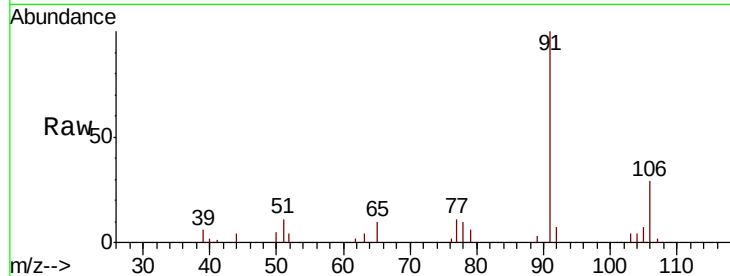
MDL06

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:23 PM



Abundance Ion 91.00 (90.70 to 91.70): VU026161.D (-2601) (-)

Ion 106.00 (105.70 to 106.70): VU026161.D (-2601) (-)

9.25

10000

8000

6000

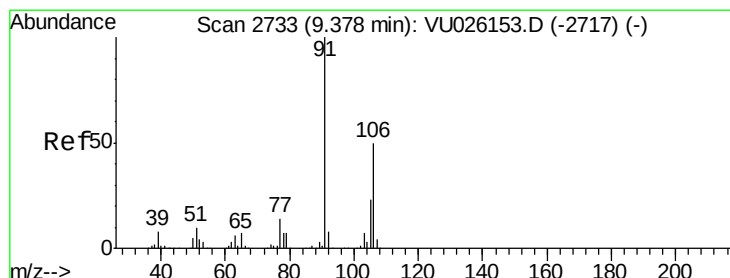
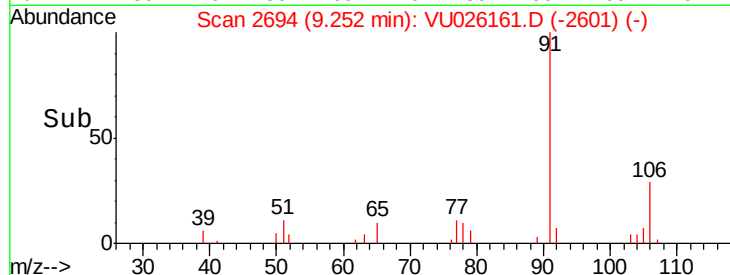
4000

2000

0

9.20 9.25 9.30

Time-->



#53

m,p-Xylene

Concen: 1.51 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026161.D

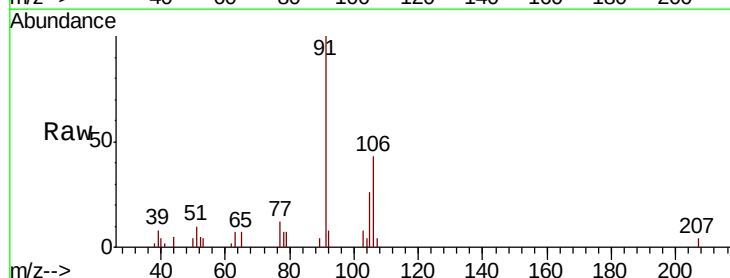
Acq: 15 Aug 2018 21:12

Tgt Ion: 106 Resp: 4817

Ion Ratio Lower Upper

106 100

91 231.6 139.2 258.4



Abundance Ion 106.00 (105.70 to 106.70): VU026161.D (-2640) (-)

Ion 91.00 (90.70 to 91.70): VU026161.D (-2640) (-)

9.38

6000

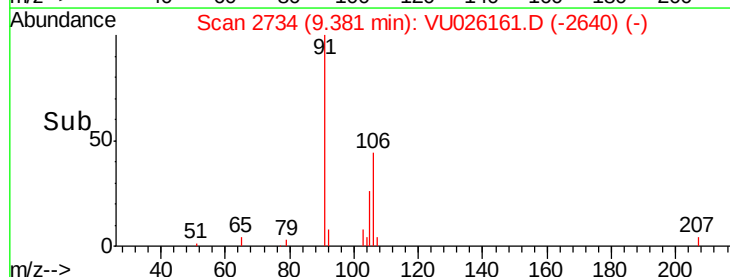
4000

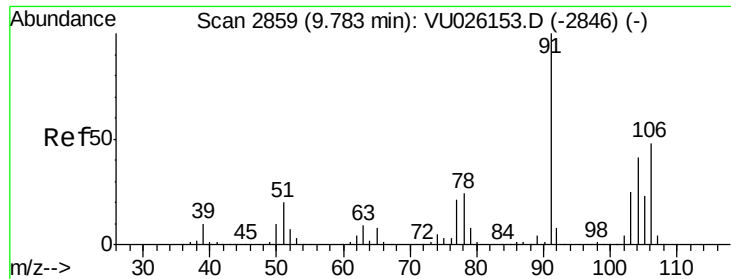
2000

0

9.35 9.40

Time-->





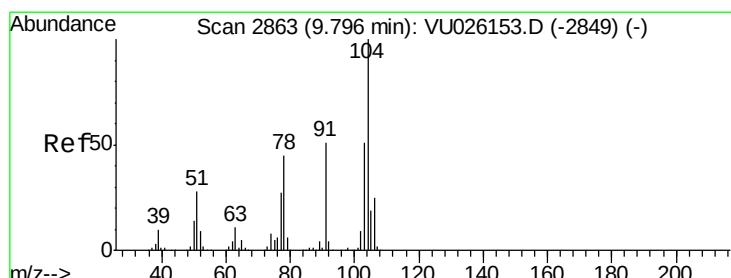
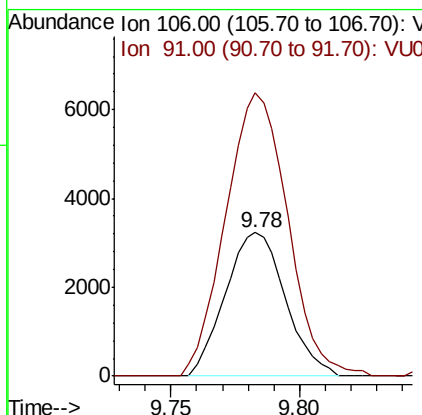
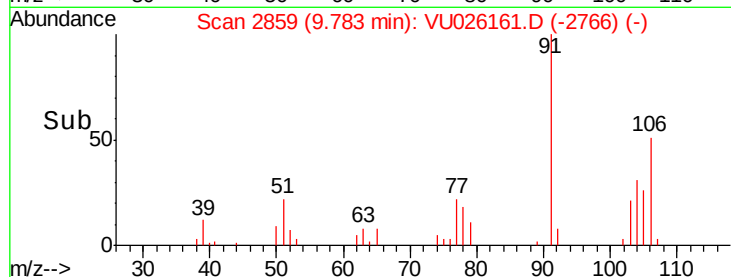
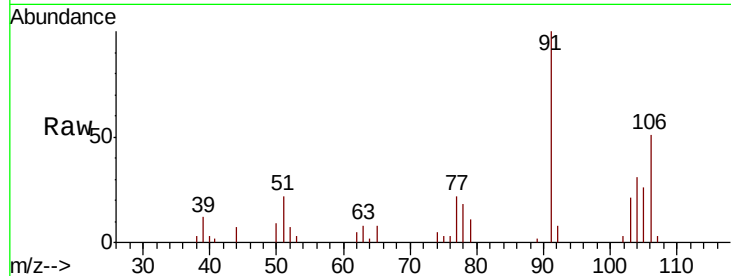
#54
o-xylene
Concen: 1.65 ug/L
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion:106 Resp: 5257
Ion Ratio Lower Upper
106 100
91 197.0 148.0 274.8

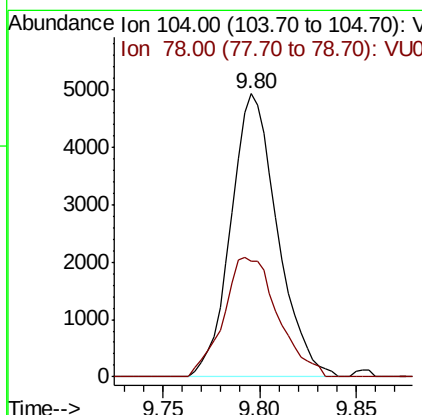
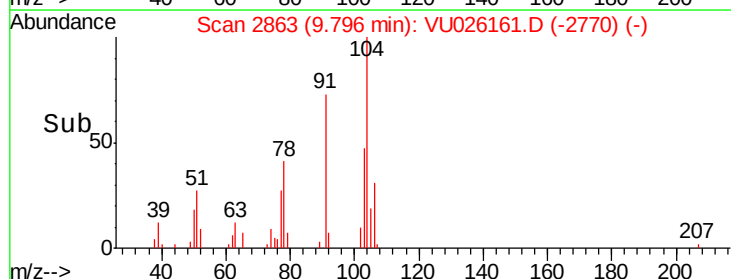
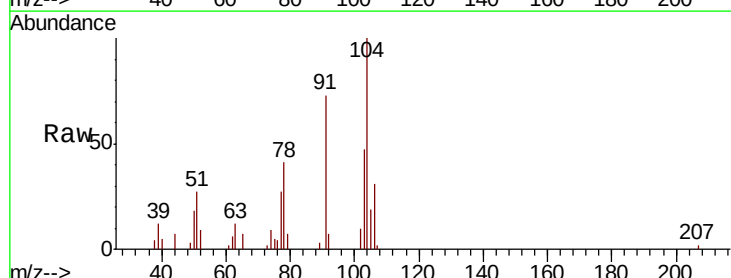
Manual Integrations
APPROVED

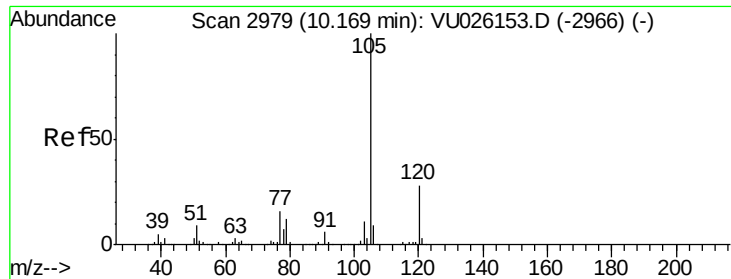
MMDadoda
8/16/2018 4:20:23 PM



#55
Styrene
Concen: 1.55 ug/L
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Tgt Ion:104 Resp: 8242
Ion Ratio Lower Upper
104 100
78 40.7 30.9 57.5





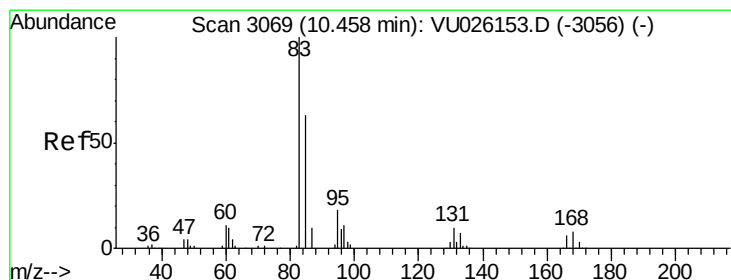
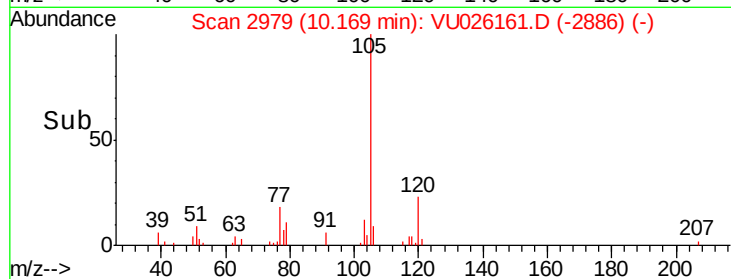
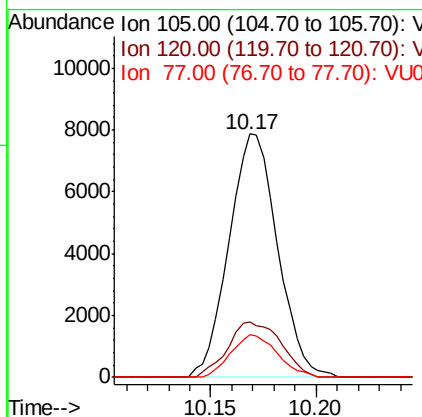
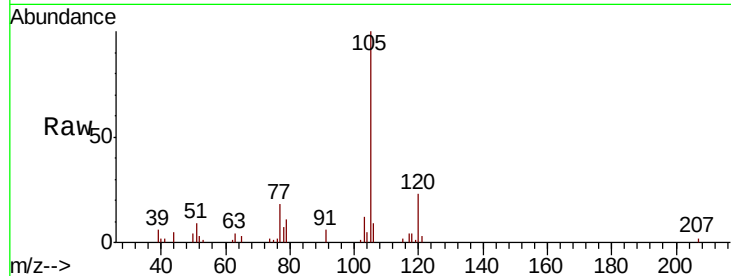
#56
Isopropylbenzene
Concen: 1.53 ug/L
RT: 10.17 min Scan# 2979
Delta R.T. -0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.0	21.5	32.3
77	16.7	12.3	18.5

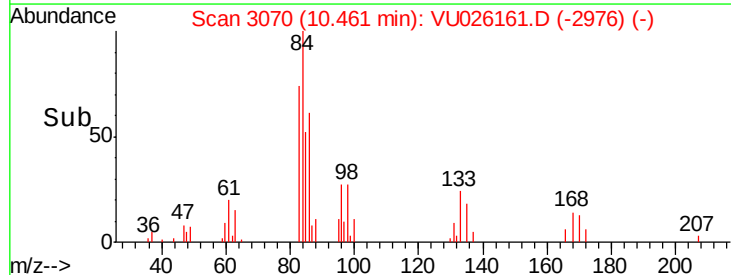
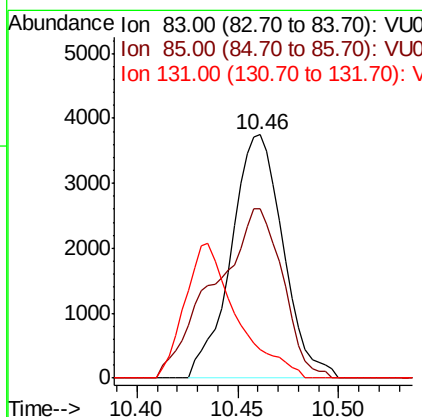
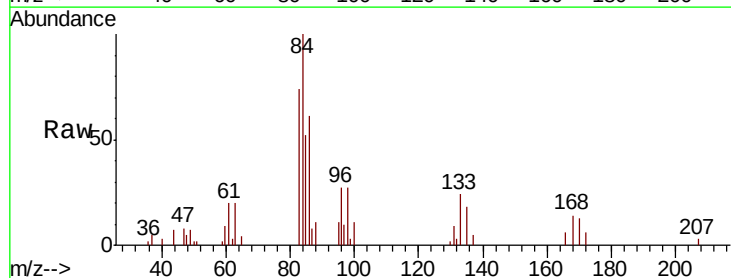
Manual Integrations
APPROVED

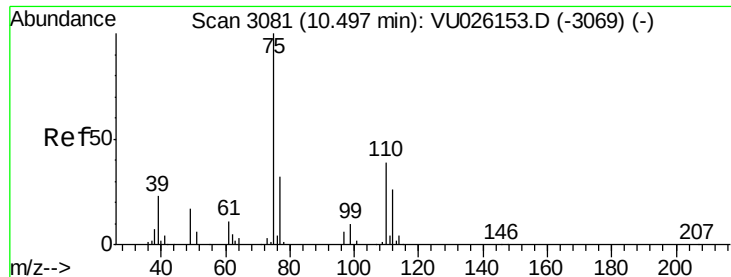
MMDadoda
8/16/2018 4:20:23 PM



#58
1,1,2,2-Tetrachloroethane
Concen: 2.13 ug/L
RT: 10.46 min Scan# 3070
Delta R.T. 0.00 min
Lab File: VU026161.D
Acq: 15 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.7	45.0	83.6
131	15.4	8.4	12.6





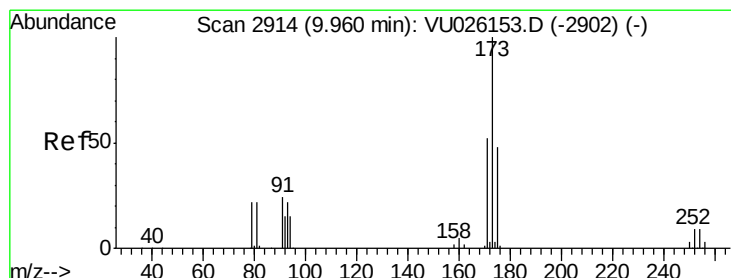
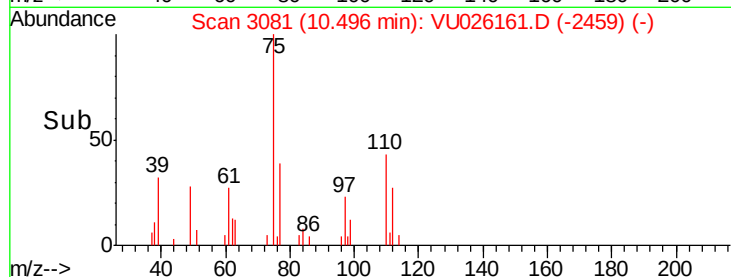
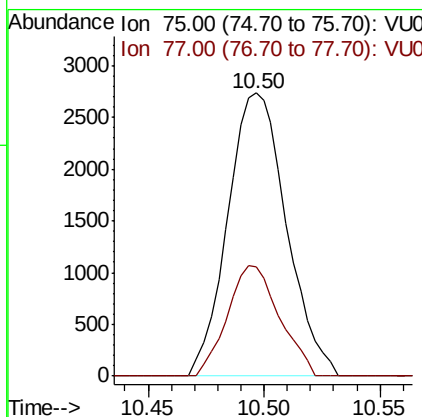
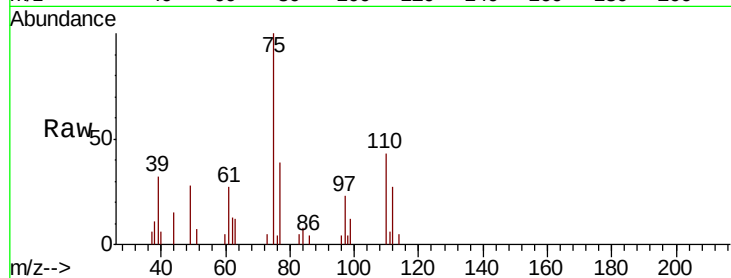
#59
 1,2,3-Trichloropropane
 Concen: 1.95 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Instrument :
 MSVOA_U
 ClientSampled :
 MDL06

Tot Ion: 75 Resp: 4812
 Ion Ratio Lower Upper
 75 100
 77 34.5 26.1 39.1

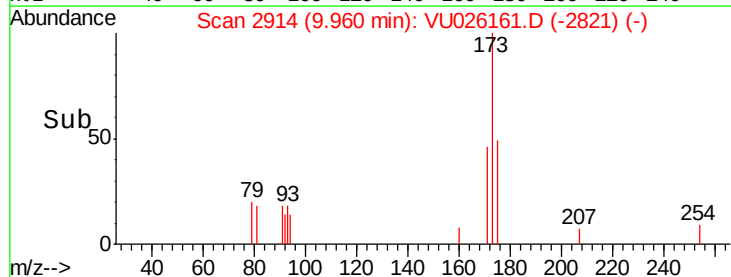
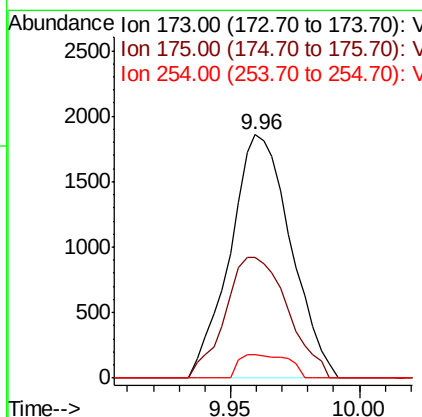
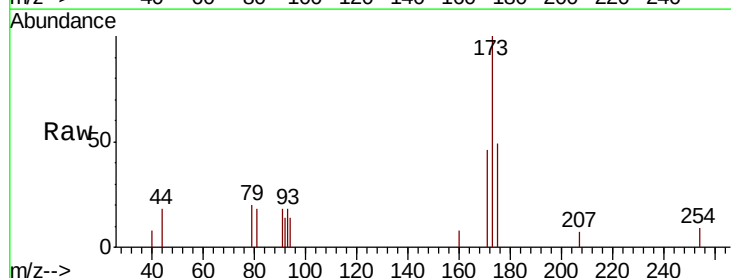
Manual Integrations
 APPROVED

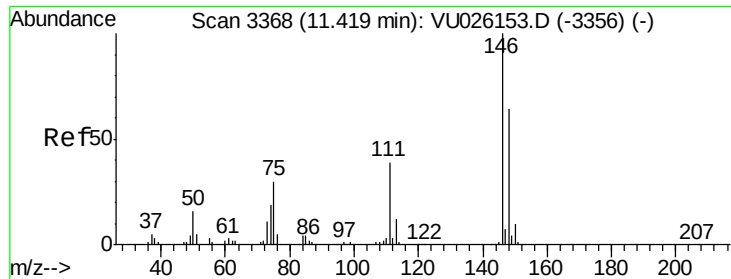
MMDadoda
 8/16/2018 4:20:23 PM



#61
 Bromoform
 Concen: 2.07 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Tgt Ion: 173 Resp: 3035
 Ion Ratio Lower Upper
 173 100
 175 51.2 38.8 58.2
 254 7.8 7.3 10.9





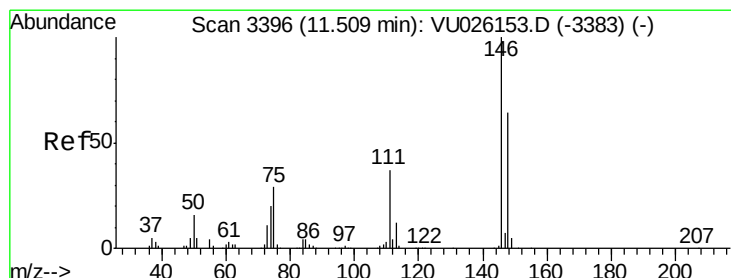
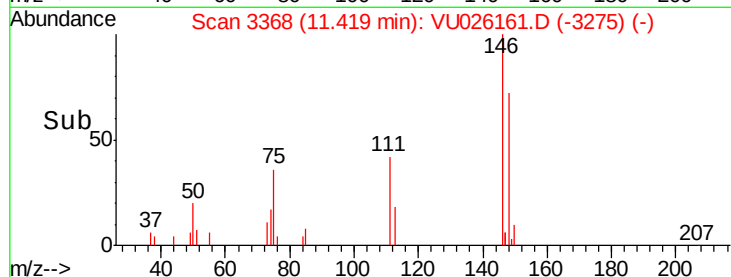
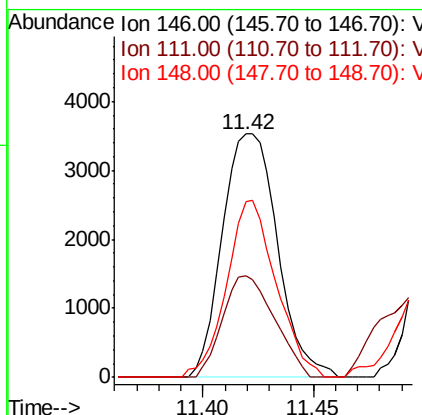
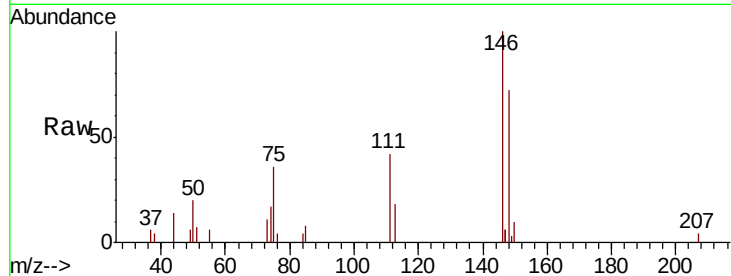
#62
 1,3-Dichlorobenzene
 Concen: 1.82 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	26.7	49.7
148	72.0	44.1	81.9

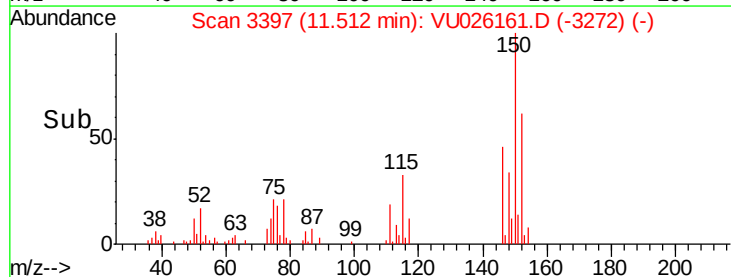
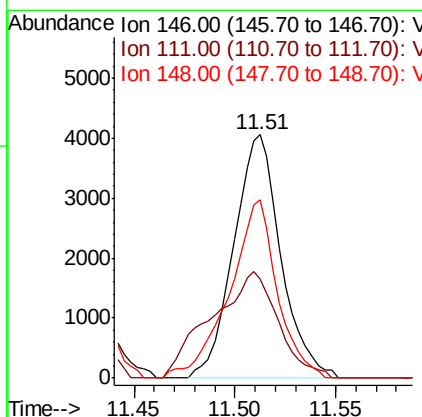
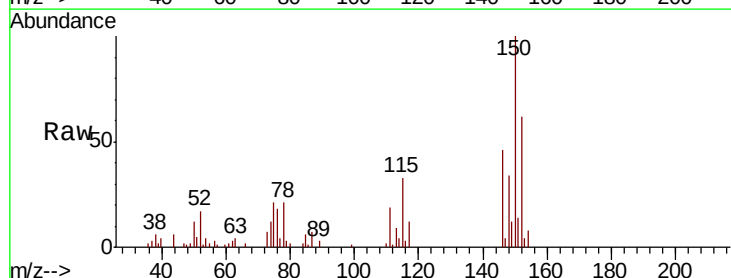
Manual Integrations
 APPROVED

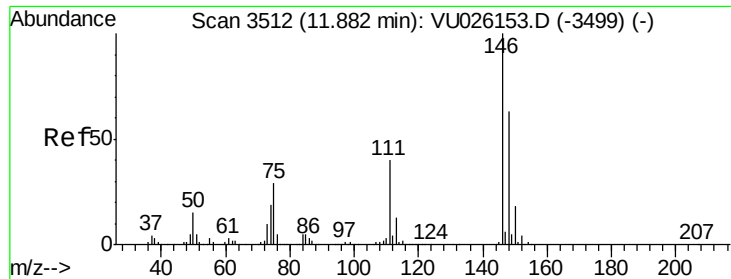
MMDadoda
 8/16/2018 4:20:23 PM



#63
 1,4-Dichlorobenzene
 Concen: 1.92 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.6	27.5	51.1
148	73.1	44.8	83.2





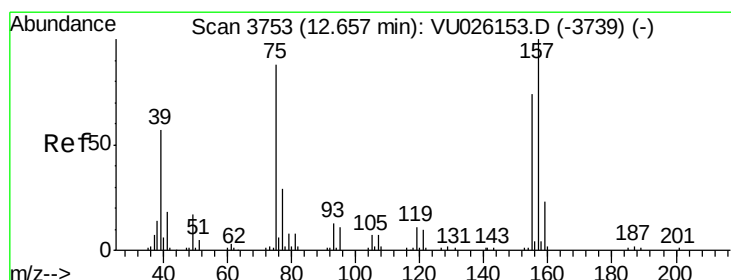
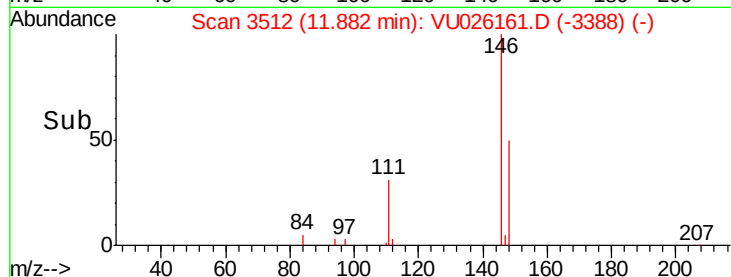
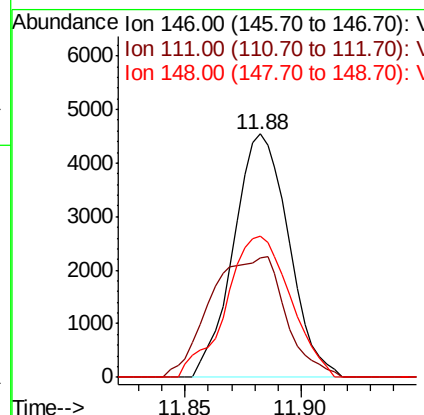
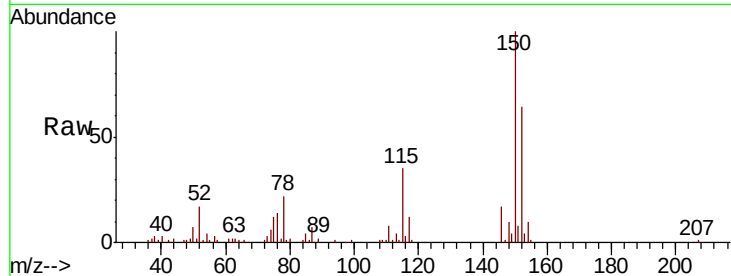
#65
 1,2-Dichlorobenzene
 Concen: 2.09 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.2	32.7	49.1#
148	57.9	51.4	77.2

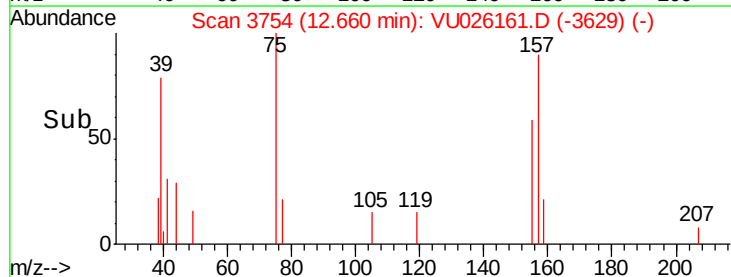
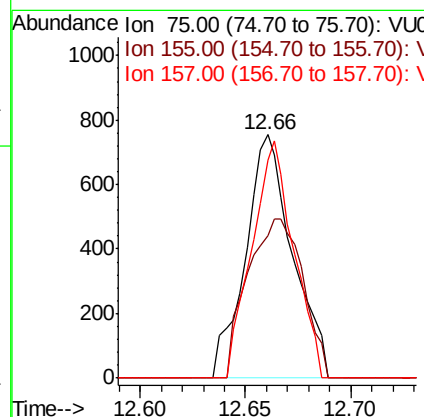
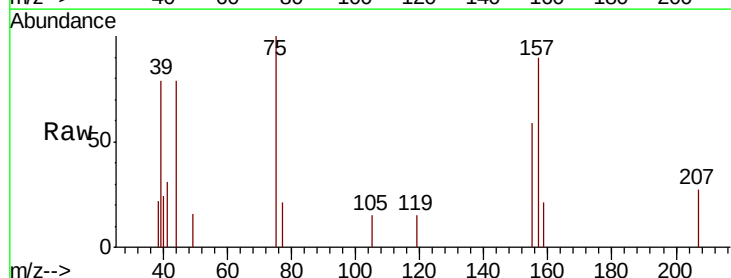
Manual Integrations
 APPROVED

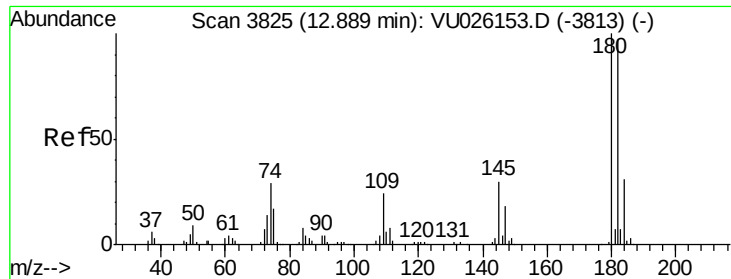
MMDadoda
 8/16/2018 4:20:23 PM



#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.05 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	58.5	68.2	102.2#
157	89.7	90.5	135.7#





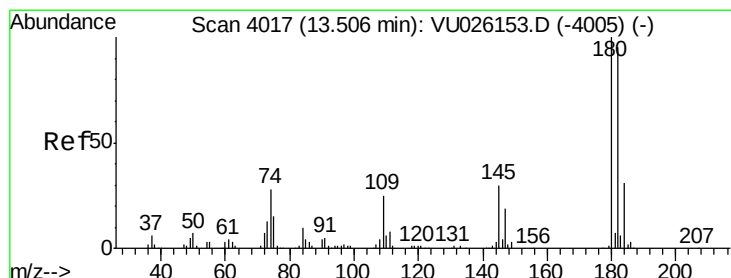
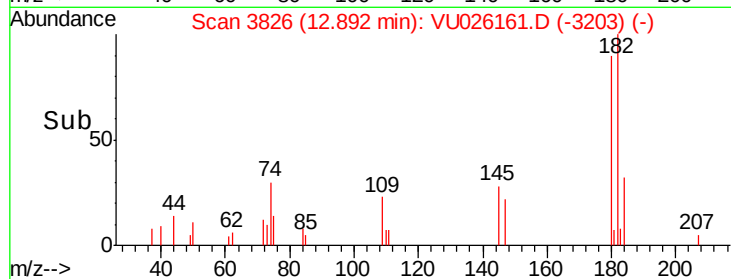
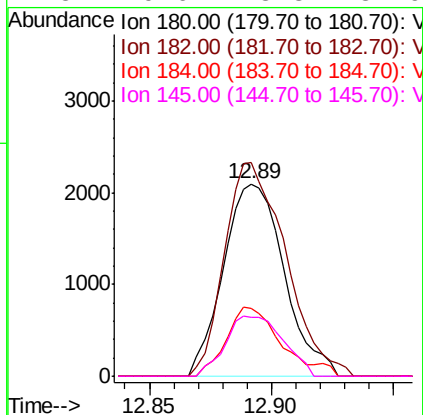
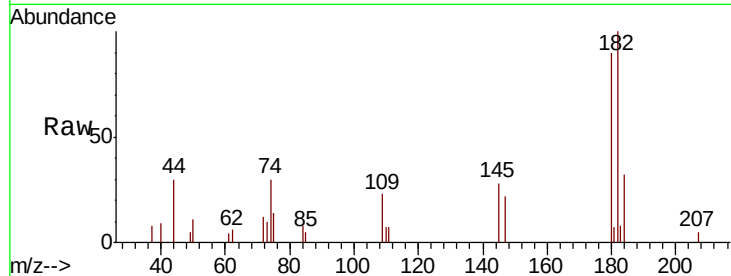
#67
 1,3,5-Trichlorobenzene
 Concen: 1.46 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
180	100		
182	111.9	75.6	113.4
184	30.4	24.3	36.5
145	29.6	23.3	34.9

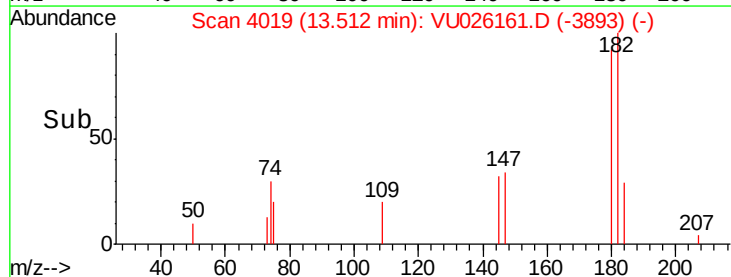
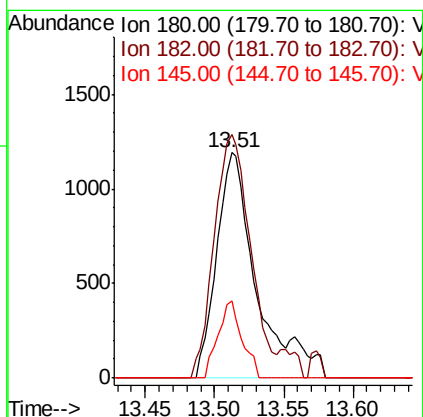
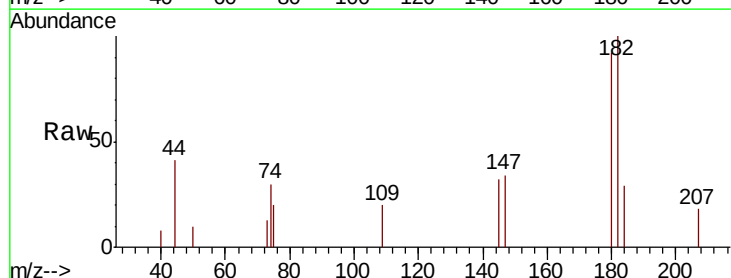
Manual Integrations
 APPROVED

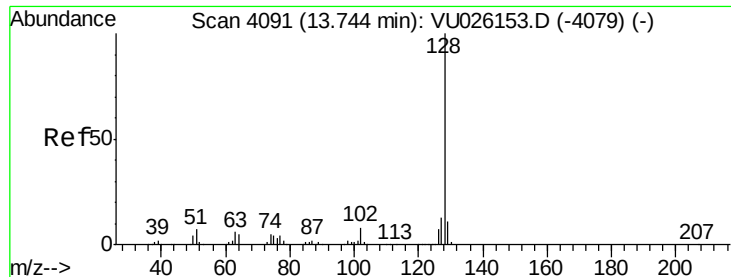
MMDadoda
 8/16/2018 4:20:23 PM



#68
 1,2,4-trichlorobenzene
 Concen: 1.27 ug/L m
 RT: 13.51 min Scan# 4019
 Delta R.T. 0.01 min
 Lab File: VU026161.D
 Acq: 15 Aug 2018 21:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.8	115.2
145	20.4	23.8	35.6#





#69

Naphthalene

Concen: 1.36 ug/L m

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Instrument :

MSVOA_U

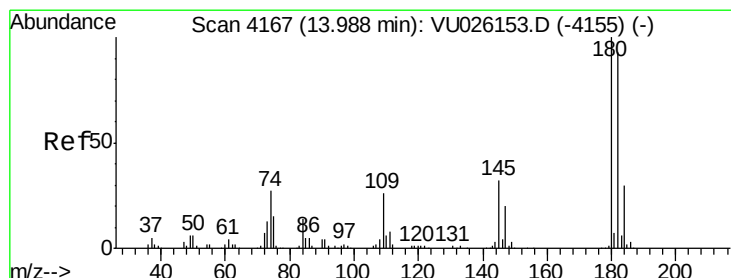
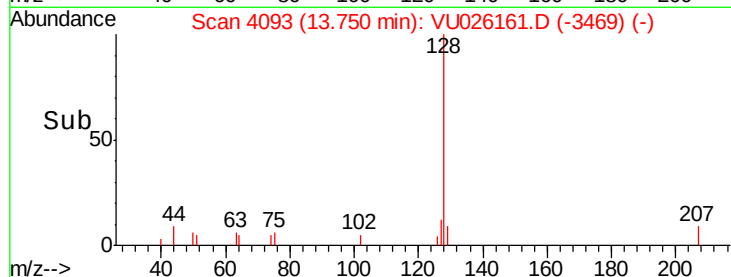
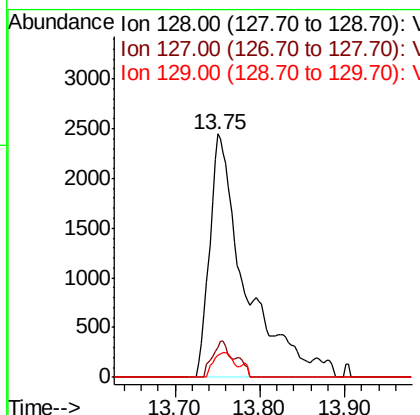
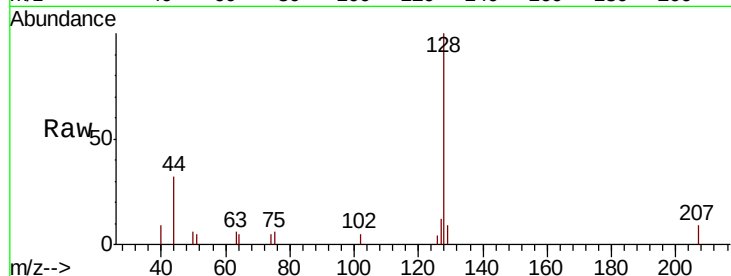
ClientSampled :

MDL06

Tot Ion:	128	Resp:	7246
Ion	Ratio	Lower	Upper
128	100		
127	6.7	10.3	15.5#
129	5.9	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:23 PM



#70

1,2,3-Trichlorobenzene

Concen: 1.41 ug/L

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU026161.D

Acq: 15 Aug 2018 21:12

Tgt Ion:	180	Resp:	2832
Ion	Ratio	Lower	Upper
180	100		
182	97.5	77.1	115.7
145	23.3	25.1	37.7#

