

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026169.D
 Acq On : 16 Aug 2018 00:51
 Operator : MD/SY
 Sample : MDL07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:32 PM

Quant Time: Aug 16 05:09:46 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	278436	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	262876	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	110020	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	65106	39.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.64%
7) Chloroethane-d5	1.68	69	56122	41.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.52%
11) 1,1-Dichloroethene-d2	2.27	63	105909	32.99	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.98%
21) 2-Butanone-d5	4.18	46	125539	100.07	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.07%
24) Chloroform-d	4.65	84	162047	44.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.50%
26) 1,2-Dichloroethane-d4	5.31	65	110942	46.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.58%
32) Benzene-d6	5.35	84	313335	46.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.46%
36) 1,2-Dichloropropane-d6	6.33	67	102492	46.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	92.00%
41) Toluene-d8	7.57	98	283369	43.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.36%
43) trans-1,3-Dichloropropene-	7.85	79	45667	43.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.58%
47) 2-Hexanone-d5	8.31	63	89704	98.26	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	98.26%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	144659	46.13	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.26%
64) 1,2-Dichlorobenzene-d4	11.86	152	112708	49.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.46%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	4209	1.91	ug/L #	88
3) Chloromethane	1.33	50	5025	2.50	ug/L	93
5) Vinyl chloride	1.40	62	4380	2.19	ug/L #	74
6) Bromomethane	1.62	94	2145	2.08	ug/L	98
8) Chloroethane	1.70	64	2533	2.11	ug/L	89
9) Trichlorofluoromethane	1.88	101	6487	2.19	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	4155	2.59	ug/L #	81
12) 1,1-Dichloroethene	2.28	96	3822	2.60	ug/L #	1
13) Acetone	2.32	43	4997	4.35	ug/L	96
14) Carbon disulfide	2.48	76	11196	2.19	ug/L	99
15) Methyl Acetate	2.62	43	4962	2.49	ug/L	92
16) Methylene chloride	2.70	84	4350	2.21	ug/L	95
17) trans-1,2-Dichloroethene	2.99	96	3562	2.04	ug/L	92
18) Methyl tert-butyl Ether	3.00	73	10966	1.98	ug/L #	87
19) 1,1-Dichloroethane	3.45	63	7143	2.13	ug/L	94
20) cis-1,2-Dichloroethene	4.23	96	4187m	2.14	ug/L	
22) 2-Butanone	4.27	43	5529m	3.87	ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026169.D
 Acq On : 16 Aug 2018 00:51
 Operator : MD/SY
 Sample : MDL07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:32 PM

Quant Time: Aug 16 05:09:46 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	4.56	128	1988	1.88	ug/L	90
25) Chloroform	4.67	83	9157	2.60	ug/L	97
27) 1,2-Dichloroethane	5.41	62	6161	2.16	ug/L	99
29) Cyclohexane	5.00	56	5329	2.03	ug/L	96
30) 1,1,1-Trichloroethane	4.92	97	7582	2.41	ug/L	90
31) Carbon tetrachloride	5.14	117	6103	2.14	ug/L	92
33) Benzene	5.39	78	16088	2.26	ug/L	100
34) Trichloroethene	6.19	95	4013	2.16	ug/L	85
35) Methylcyclohexane	6.43	83	5197	1.87	ug/L	98
37) 1,2-Dichloropropane	6.43	63	4262	2.14	ug/L #	90
38) Bromodichloromethane	6.76	83	5734	2.18	ug/L #	83
39) cis-1,3-Dichloropropene	7.27	75	5805	1.97	ug/L	89
40) 4-Methyl-2-pentanone	7.47	43	10631	4.31	ug/L	92
42) Toluene	7.64	91	16088	2.13	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	5352	1.88	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	4034	2.14	ug/L	95
46) Tetrachloroethene	8.23	164	3467	2.17	ug/L	91
48) 2-Hexanone	8.37	43	9499	4.92	ug/L #	98
49) Dibromochloromethane	8.48	129	4595	2.02	ug/L	98
50) 1,2-Dibromoethane	8.59	107	4399	2.25	ug/L #	97
51) Chlorobenzene	9.12	112	10213	1.98	ug/L	95
52) Ethylbenzene	9.26	91	14894	1.81	ug/L	91
53) m,p-Xylene	9.38	106	5731	1.81	ug/L	87
54) o-xylene	9.78	106	4969	1.57	ug/L	96
55) Styrene	9.80	104	7959	1.51	ug/L	92
56) Isopropylbenzene	10.17	105	12957	1.59	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	7240	2.30	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	5297	2.16	ug/L	100
61) Bromoform	9.96	173	3385	2.35	ug/L #	96
62) 1,3-Dichlorobenzene	11.42	146	7154	2.17	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	7318	2.15	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	7930	2.25	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.65	75	1259	2.25	ug/L #	79
67) 1,3,5-Trichlorobenzene	12.90	180	4548	1.87	ug/L	94
68) 1,2,4-trichlorobenzene	13.51	180	2314	1.25	ug/L	93
69) Naphthalene	13.75	128	7172m	1.37	ug/L	
70) 1,2,3-Trichlorobenzene	13.99	180	2587	1.31	ug/L	97

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

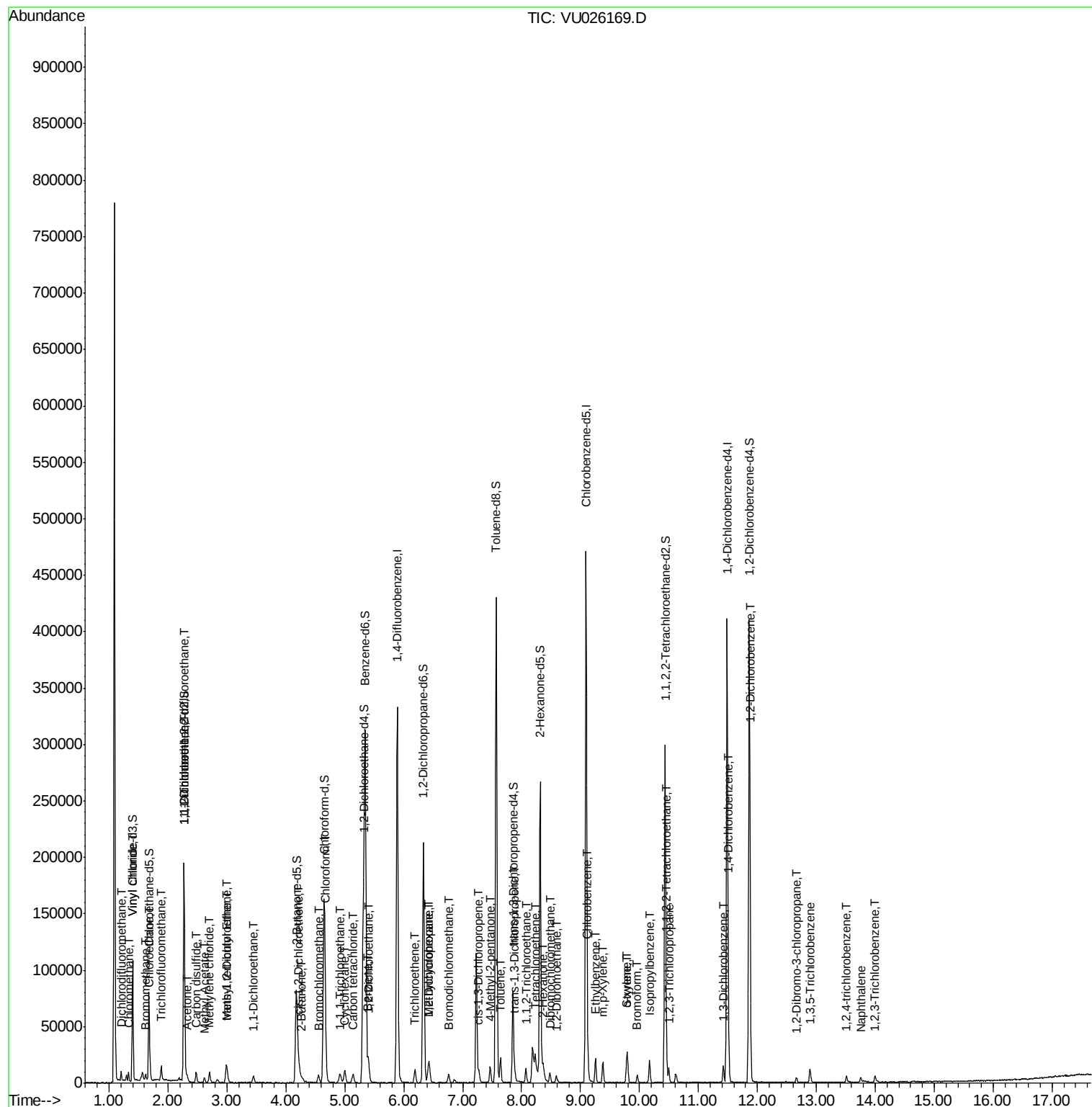
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081518\
Data File : VU026169.D
Acq On : 16 Aug 2018 00:51
Operator : MD/SY
Sample : MDL07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 42 Sample Multiplier: 1

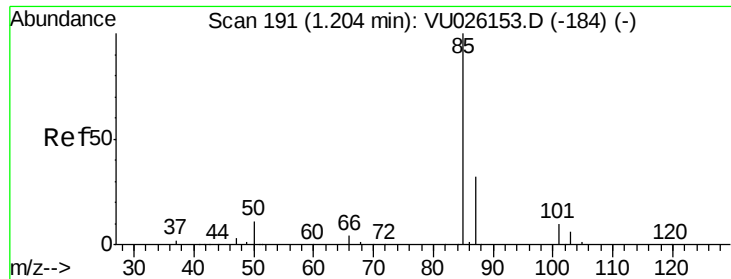
Instrument :
MSVOA_U
ClientSampleId :
MDL07

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM

Quant Time: Aug 16 05:09:46 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 16 04:40:24 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.91 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 85 Resp: 4209

Ion Ratio Lower Upper

85 100

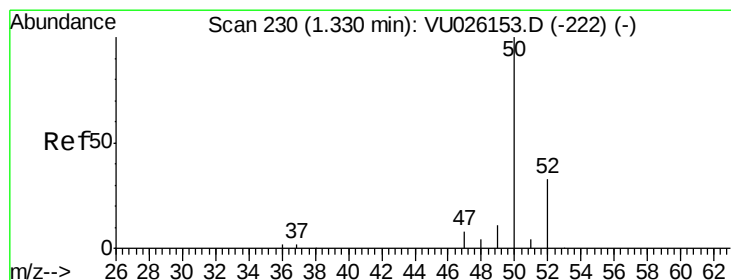
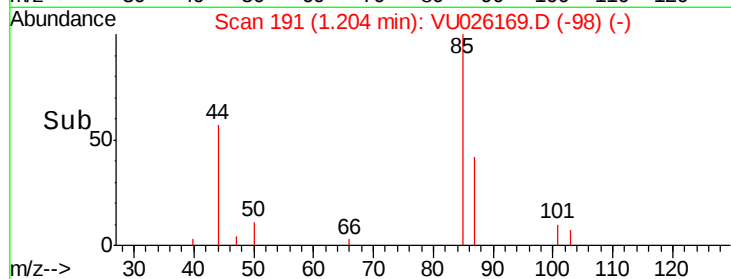
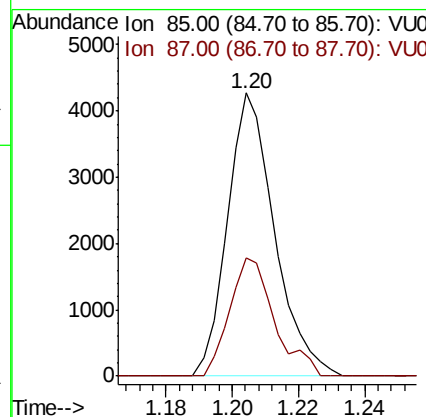
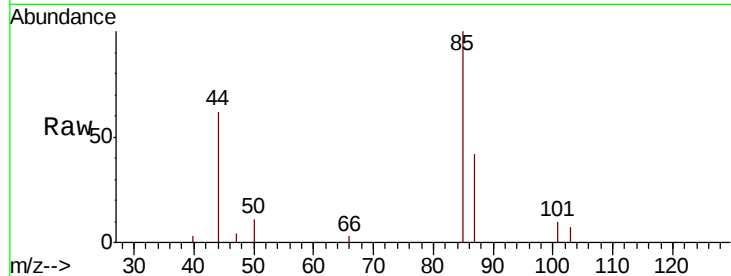
87 39.4 26.1 39.1#

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:32 PM



#3

Chloromethane

Concen: 2.50 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026169.D

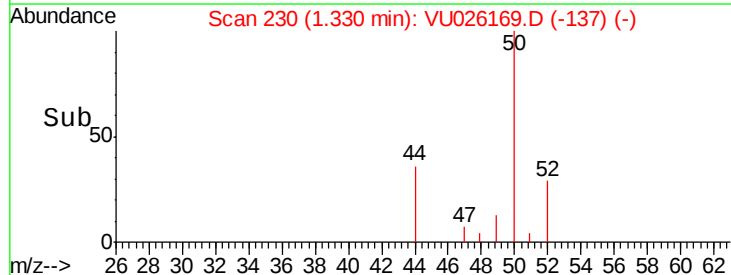
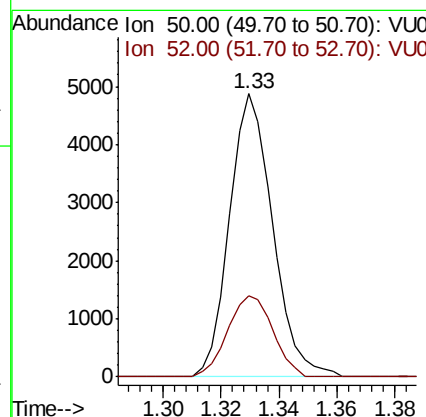
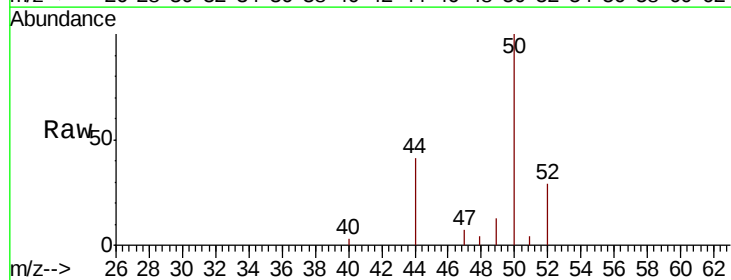
Acq: 16 Aug 2018 00:51

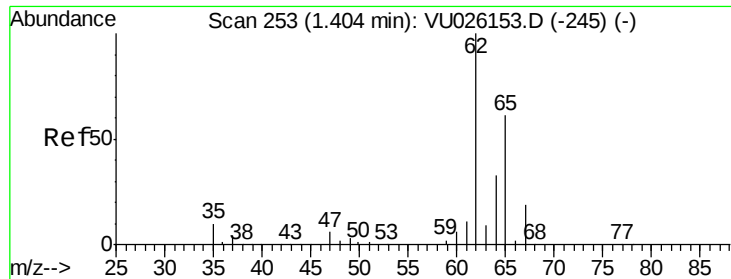
Tgt Ion: 50 Resp: 5025

Ion Ratio Lower Upper

50 100

52 28.9 23.0 42.8





#5

Vinyl chloride

Concen: 2.19 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 62 Resp: 4380

Ion Ratio Lower Upper

62 100

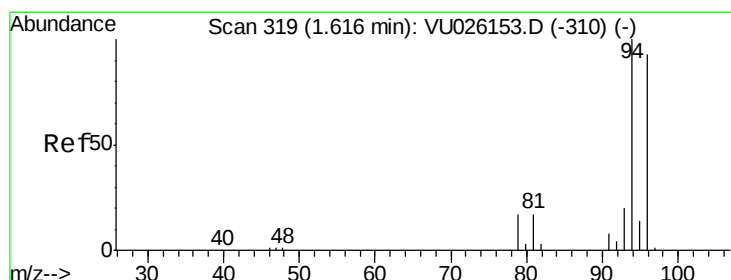
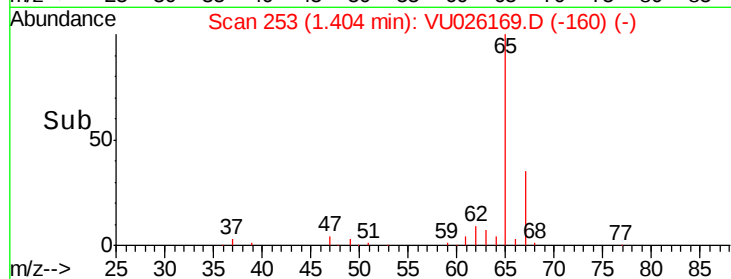
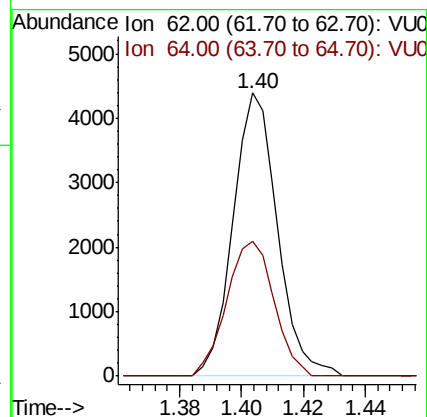
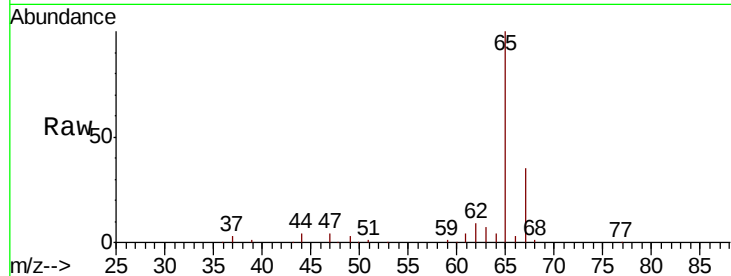
64 47.7 23.0 42.8#

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:32 PM



#6

Bromomethane

Concen: 2.08 ug/L

RT: 1.62 min Scan# 321

Delta R.T. 0.01 min

Lab File: VU026169.D

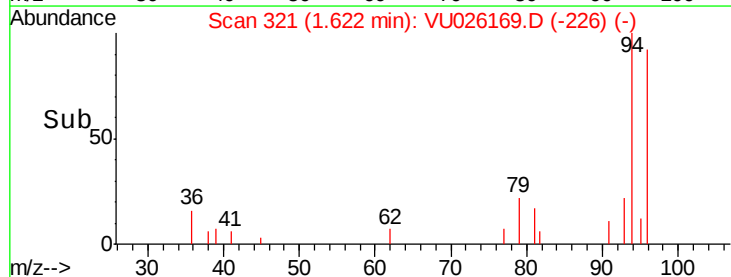
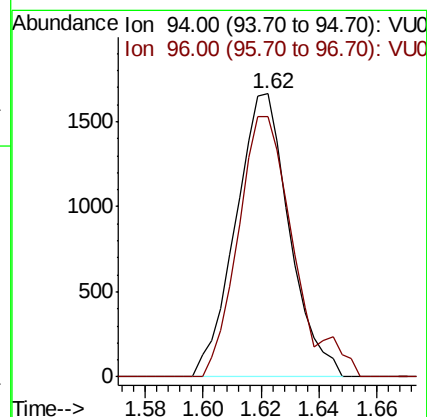
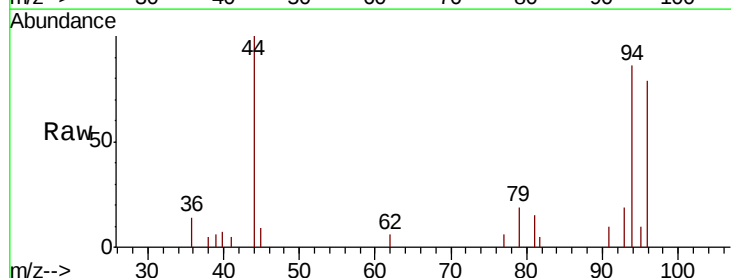
Acq: 16 Aug 2018 00:51

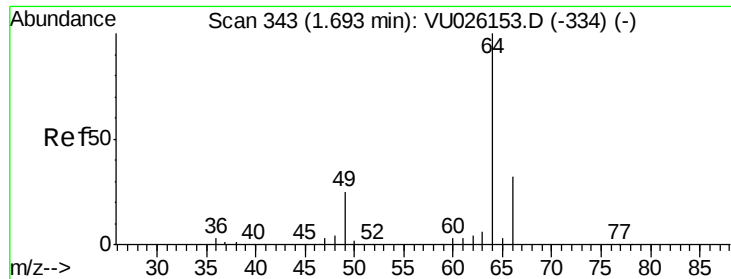
Tgt Ion: 94 Resp: 2145

Ion Ratio Lower Upper

94 100

96 92.2 65.9 122.5





#8

Chloroethane

Concen: 2.11 ug/L

RT: 1.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 64 Resp: 2533

Ion Ratio Lower Upper

64 100

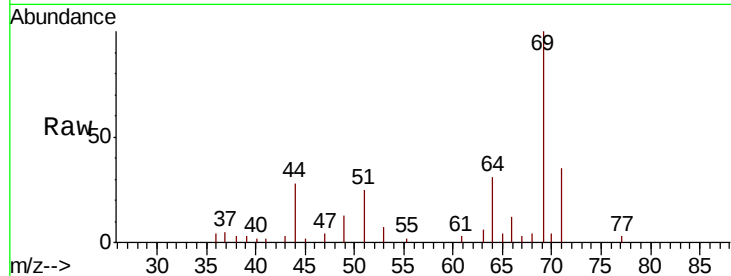
66 37.7 22.2 41.2

Manual Integrations

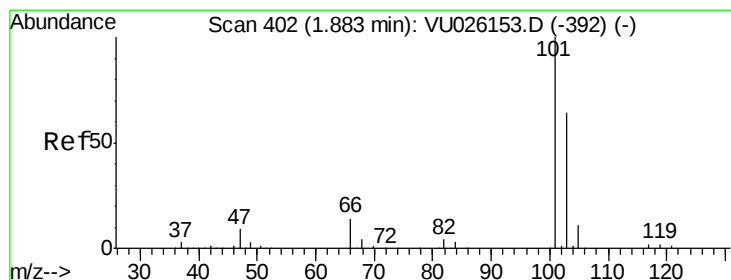
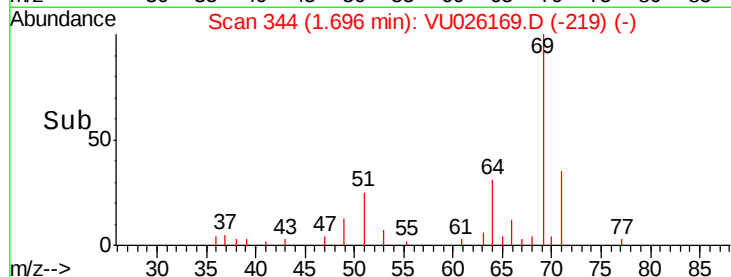
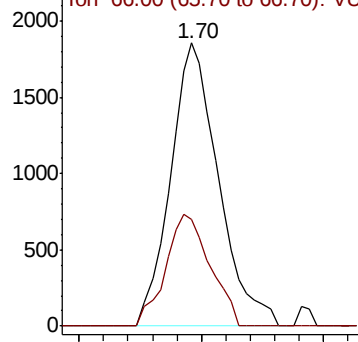
APPROVED

MMDadoda

8/16/2018 4:20:32 PM



Abundance Ion 64.00 (63.70 to 64.70): VU026169.D (-219) (-)



#9

Trichlorofluoromethane

Concen: 2.19 ug/L

RT: 1.88 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU026169.D

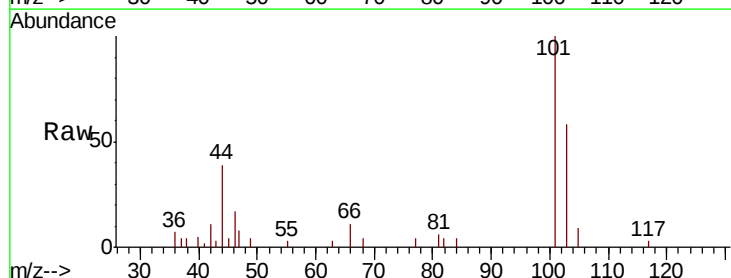
Acq: 16 Aug 2018 00:51

Tgt Ion:101 Resp: 6487

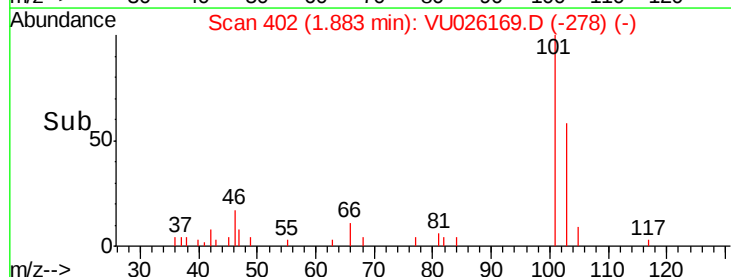
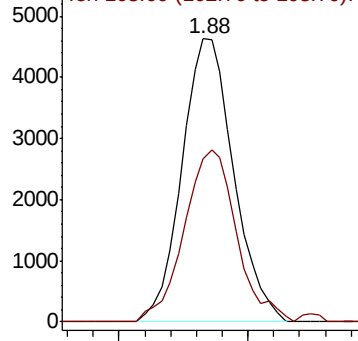
Ion Ratio Lower Upper

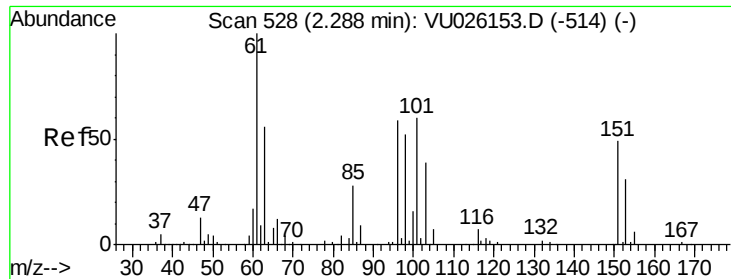
101 100

103 61.5 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU026169.D (-278) (-)





#10

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

Concen: 2.59 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

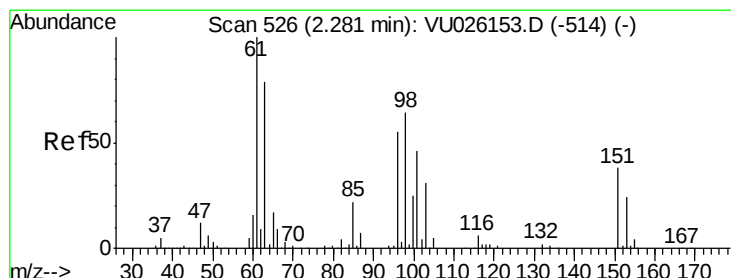
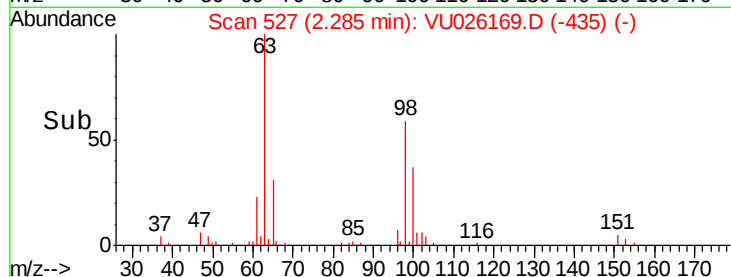
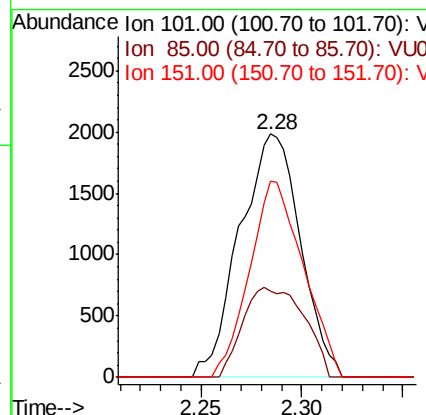
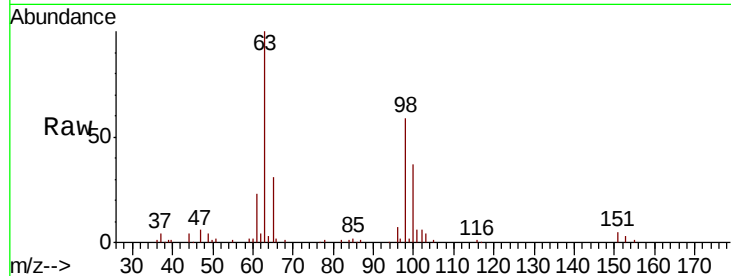
ClientSampled :

MDL07

Tot Ion:	101	Resp:	4155
Ion Ratio	Lower	Upper	
101	100		
85	21.4	36.6	55.0#
151	71.6	63.8	95.8

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM



#12

1,1-Dichloroethene

Concen: 2.60 ug/L

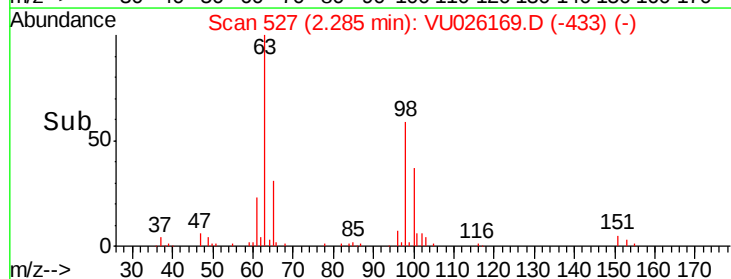
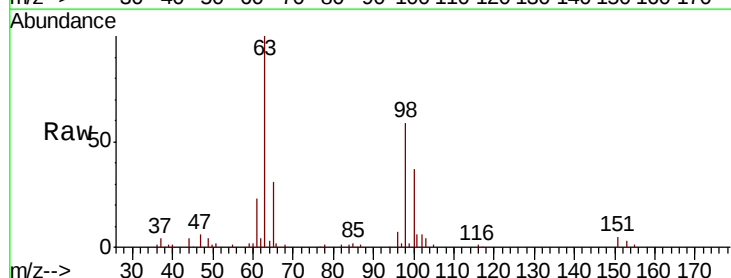
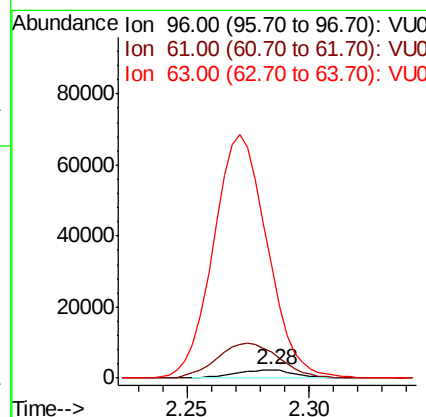
RT: 2.28 min Scan# 527

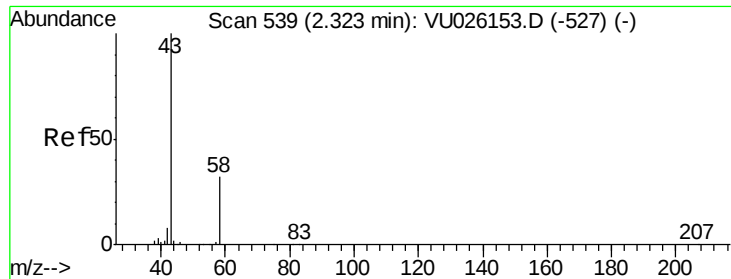
Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Tgt Ion:	96	Resp:	3822
Ion Ratio	Lower	Upper	
96	100		
61	314.6	126.8	235.4#
63	1382.6	97.0	180.2#





#13

Acetone

Concen: 4.35 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 4997

Ion Ratio Lower Upper

43 100

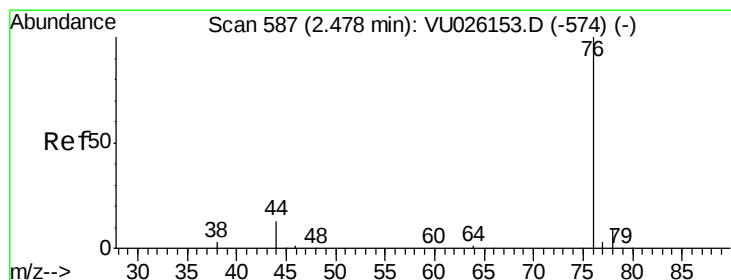
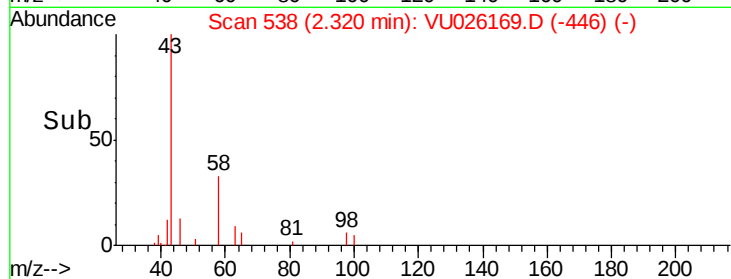
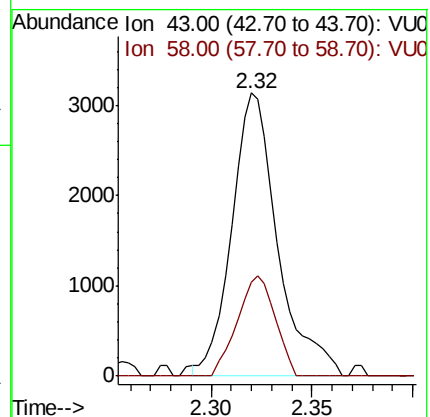
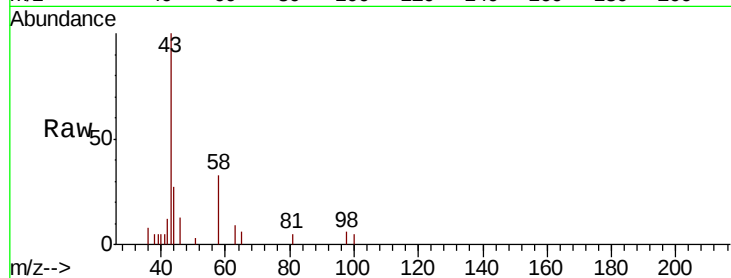
58 29.1 0.0 62.6

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:32 PM



#14

Carbon disulfide

Concen: 2.19 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026169.D

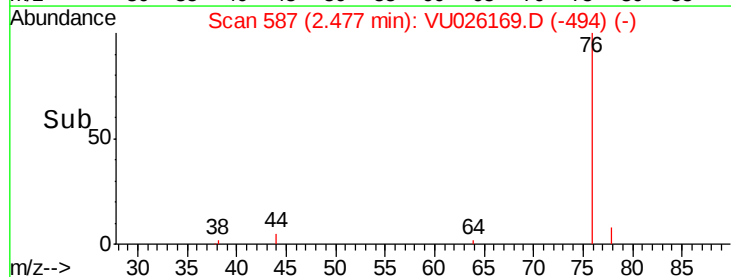
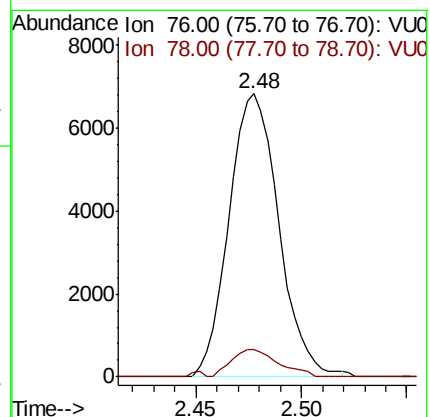
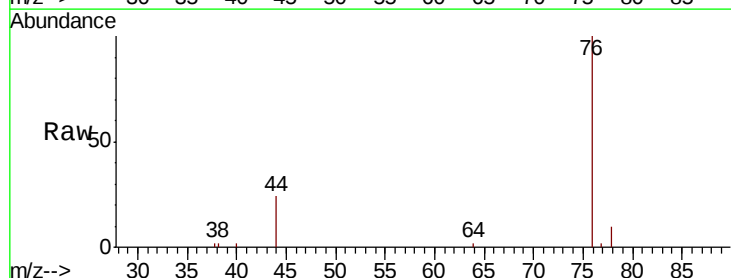
Acq: 16 Aug 2018 00:51

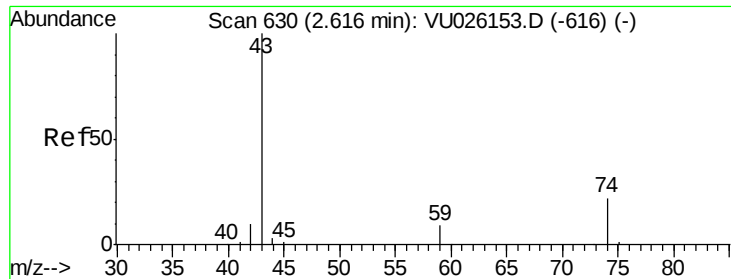
Tgt Ion: 76 Resp: 11196

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.2





#15

Methvl Acetate

Concen: 2.49 ug/L

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 43 Resp: 4962

Ion Ratio Lower Upper

43 100

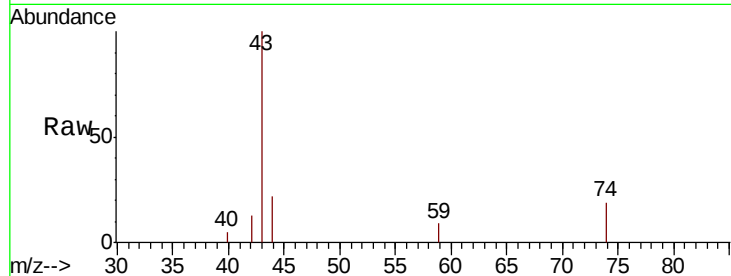
74 19.3 18.6 28.0

Manual Integrations

APPROVED

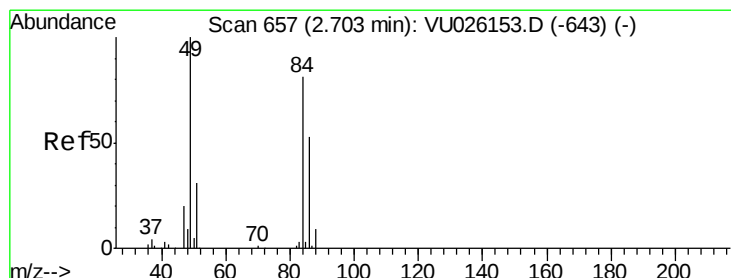
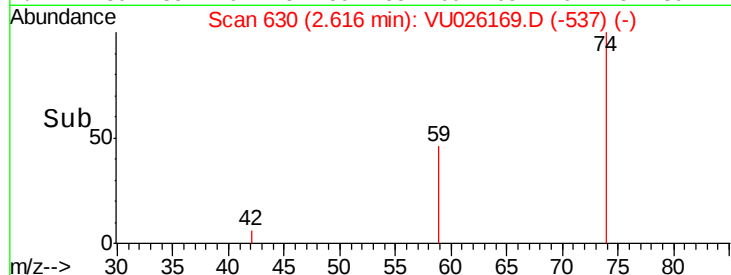
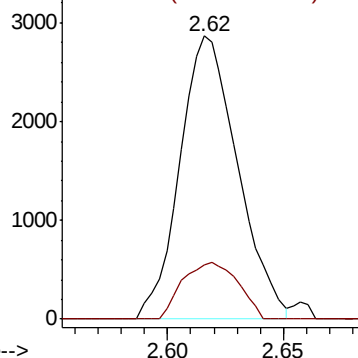
MMDadoda

8/16/2018 4:20:32 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 2.21 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

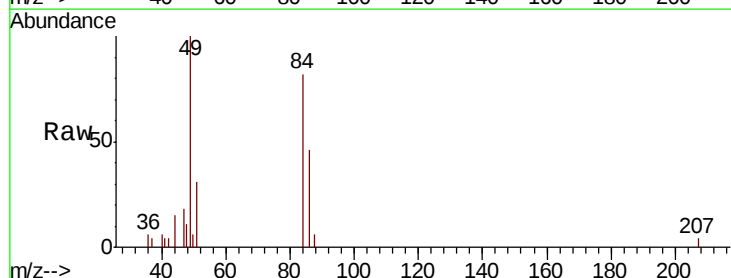
Tgt Ion: 84 Resp: 4350

Ion Ratio Lower Upper

84 100

86 56.2 44.0 81.6

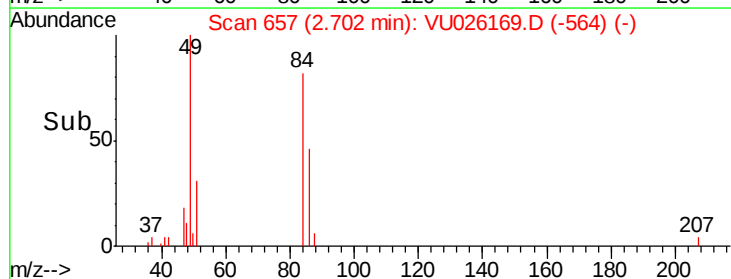
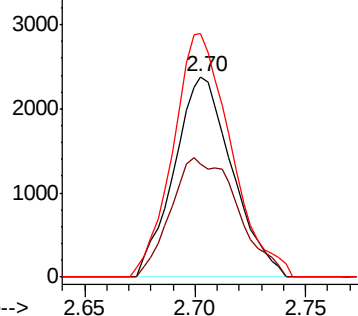
49 121.5 87.7 162.9

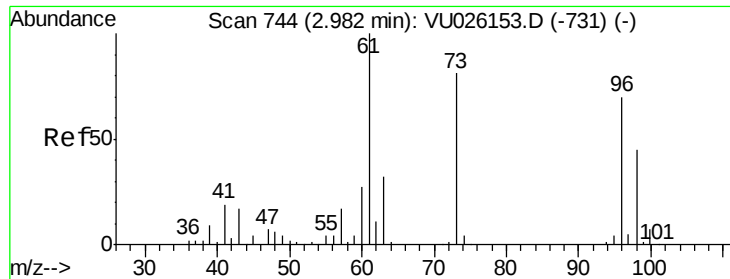


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





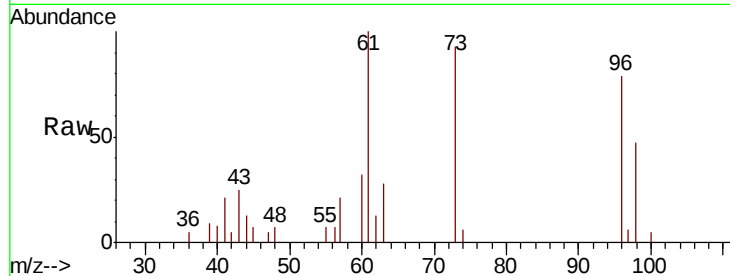
#17
trans-1,2-Dichloroethene
Concen: 2.04 ug/L
RT: 2.99 min Scan# 745
Delta R.T. 0.00 min
Lab File: VU026169.D
Acq: 16 Aug 2018 00:51

Instrument :
MSVOA_U
ClientSampled :
MDL07

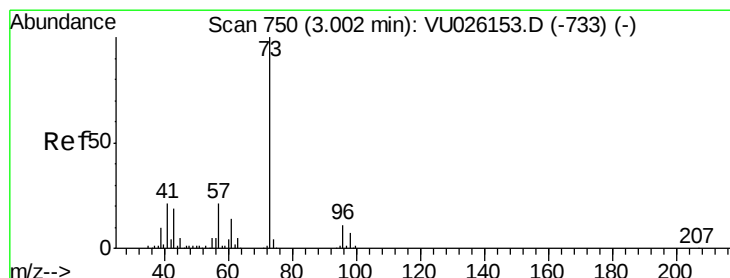
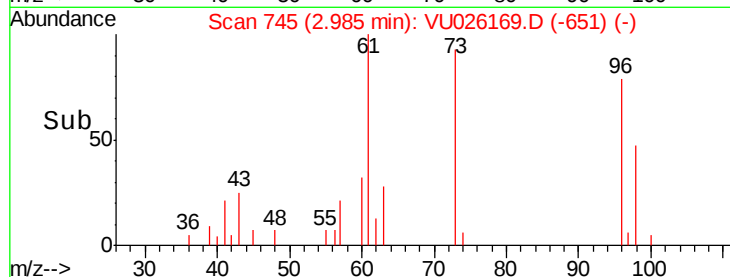
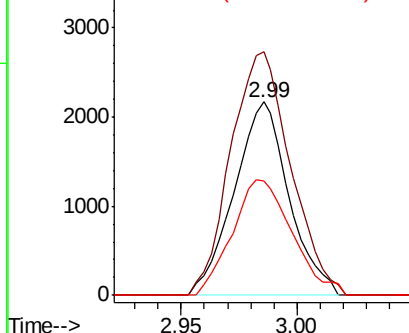
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.8	96.7	179.5
98	59.2	43.6	81.0

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM

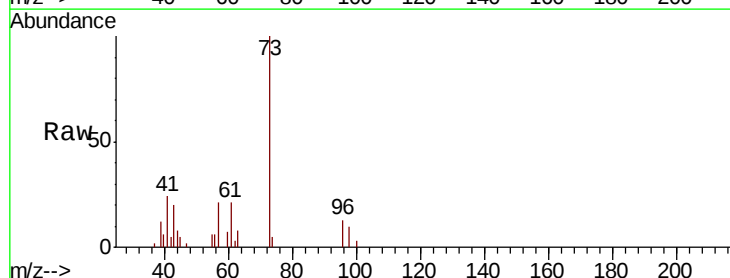


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

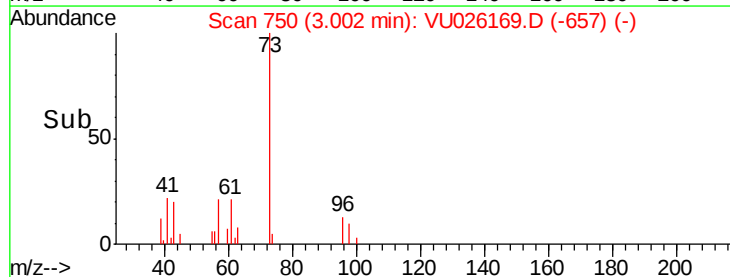
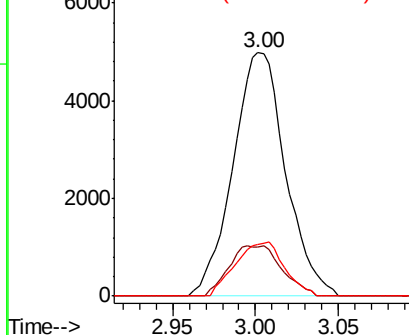


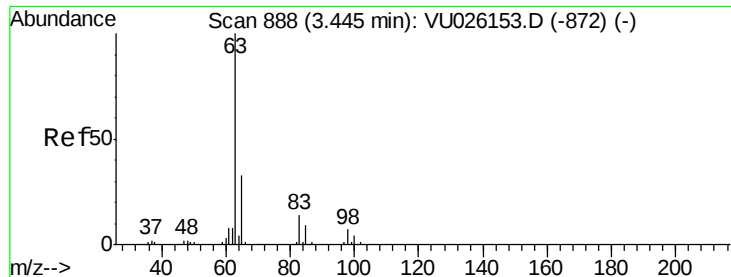
#18
Methyl tert-butyl Ether
Concen: 1.98 ug/L
RT: 3.00 min Scan# 750
Delta R.T. -0.00 min
Lab File: VU026169.D
Acq: 16 Aug 2018 00:51

Tgt Ion	Ratio	Lower	Upper
73	100		
43	10.2	16.2	24.4#
57	20.7	18.2	27.2



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: 2.13 ug/L

RT: 3.45 min Scan# 888

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

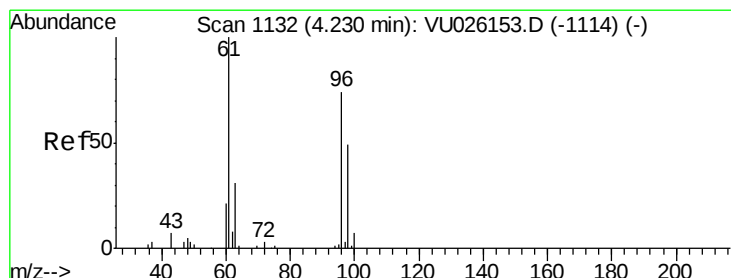
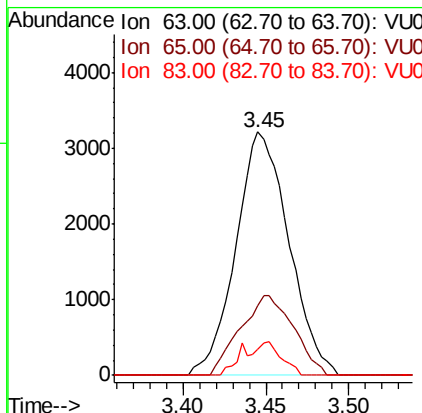
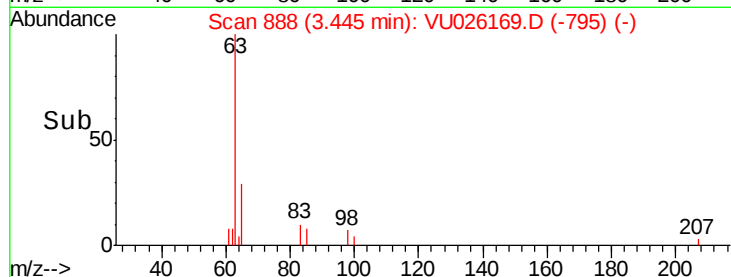
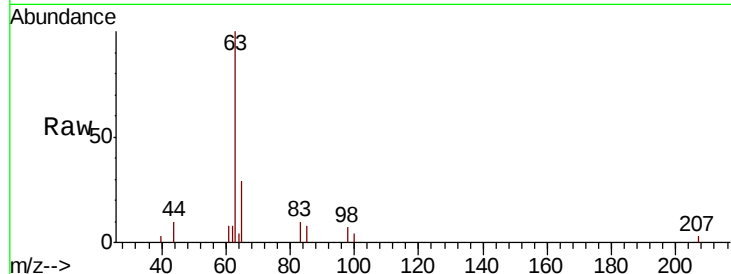
ClientSampleId :

MDL07

Tot Ion:	63	Resp:	7143
Ion	Ratio	Lower	Upper
63	100		
65	28.5	22.1	41.1
83	10.5	9.4	17.4

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM



#20

cis-1,2-Dichloroethene

Concen: 2.14 ug/L m

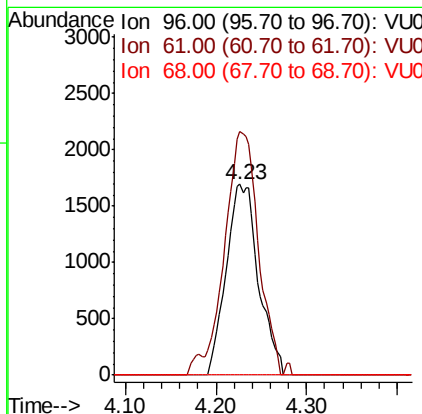
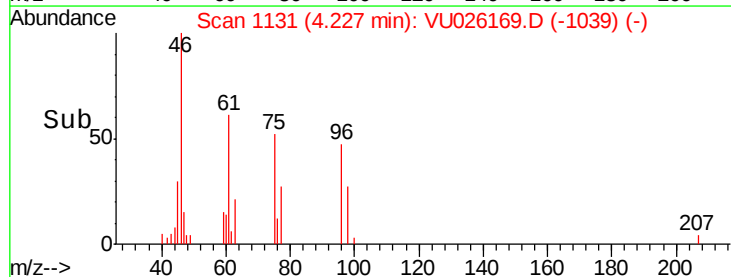
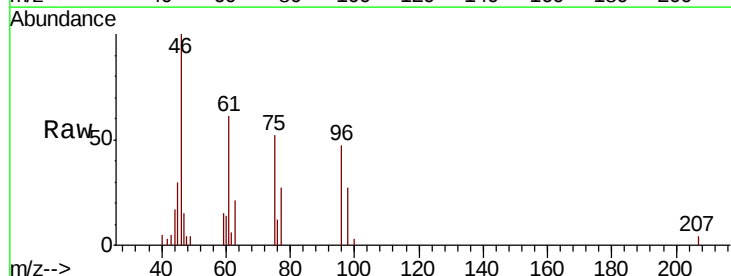
RT: 4.23 min Scan# 1131

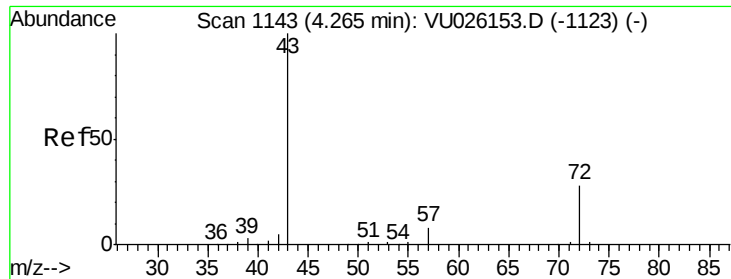
Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Tgt Ion:	96	Resp:	4187
Ion	Ratio	Lower	Upper
96	100		
61	127.6	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.87 ug/L m

RT: 4.27 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 43 Resp: 5529

Ion Ratio Lower Upper

43 100

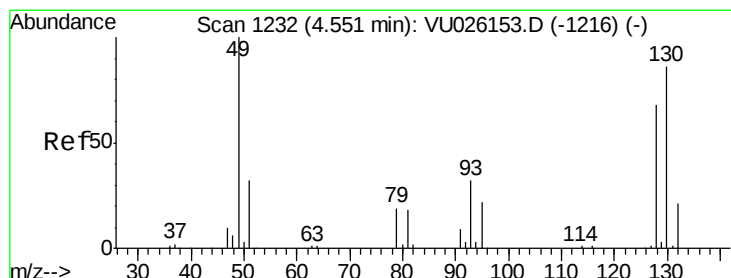
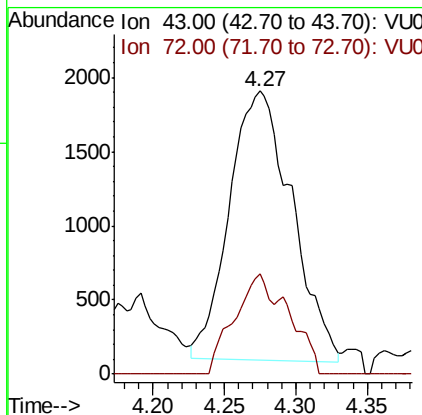
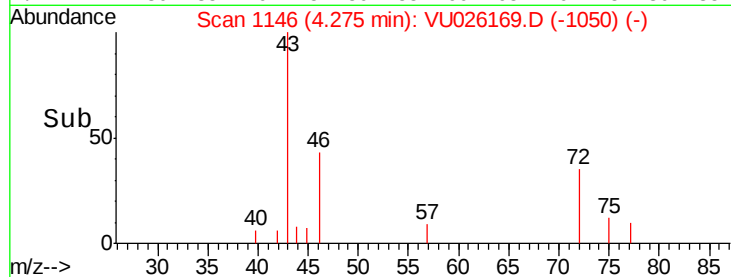
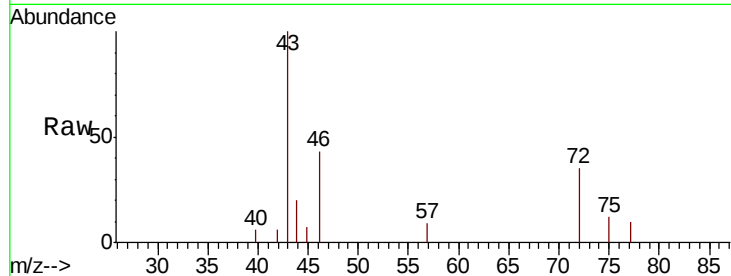
72 21.7 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:32 PM



#23

Bromochloromethane

Concen: 1.88 ug/L

RT: 4.56 min Scan# 1234

Delta R.T. 0.01 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Tgt Ion:128 Resp: 1988

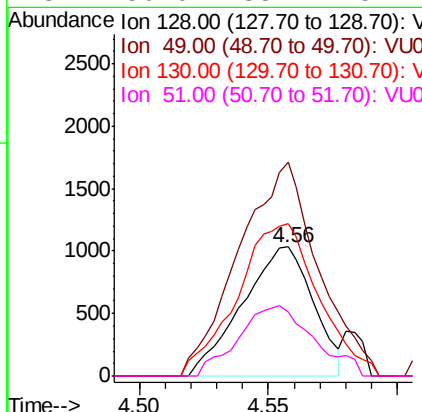
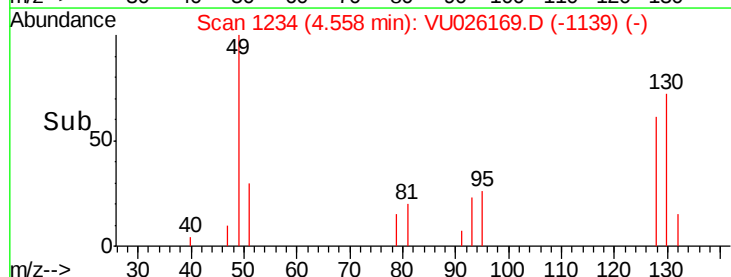
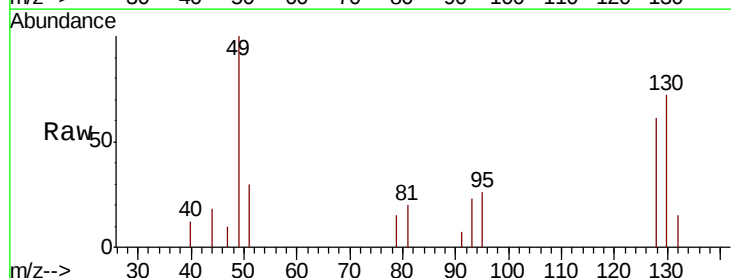
Ion Ratio Lower Upper

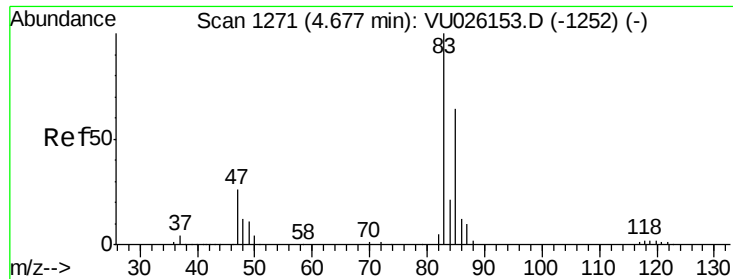
128 100

49 165.2 101.3 188.1

130 118.3 86.4 160.4

51 50.0 38.1 57.1





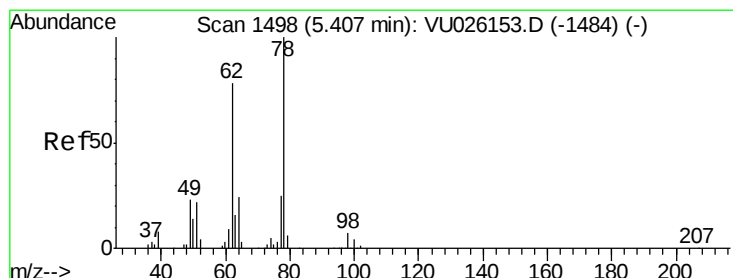
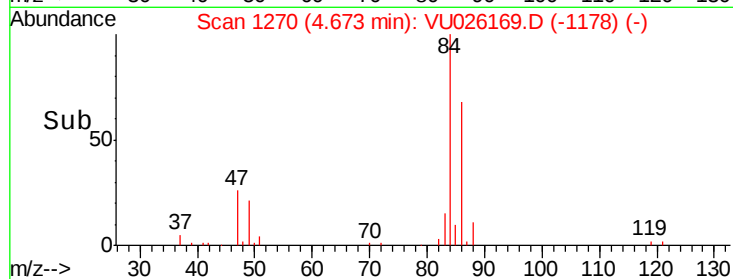
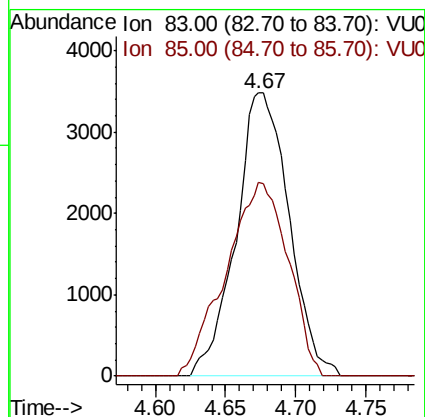
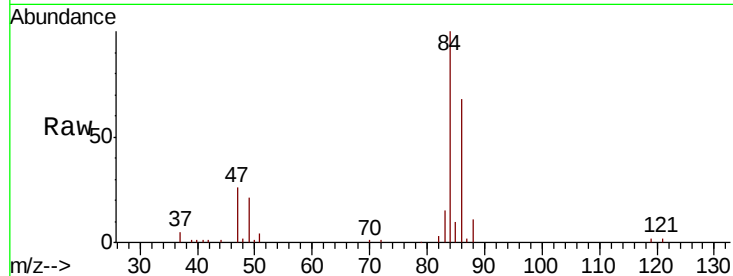
#25
Chloroform
Concen: 2.60 ug/L
RT: 4.67 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU026169.D
Acq: 16 Aug 2018 00:51

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion: 83 Resp: 9157
Ion Ratio Lower Upper
83 100
85 68.4 46.3 86.1

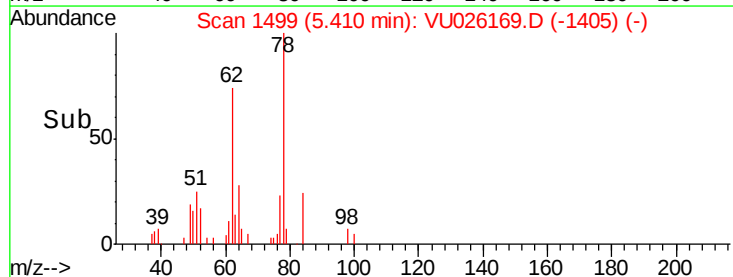
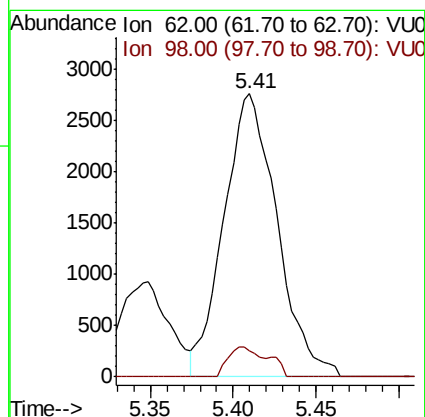
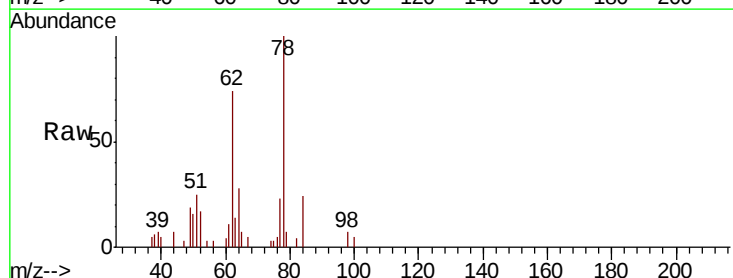
Manual Integrations
APPROVED

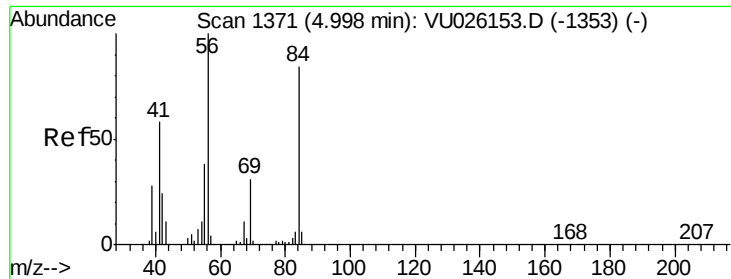
MMDadoda
8/16/2018 4:20:32 PM



#27
1,2-Dichloroethane
Concen: 2.16 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU026169.D
Acq: 16 Aug 2018 00:51

Tgt Ion: 62 Resp: 6161
Ion Ratio Lower Upper
62 100
98 9.2 7.0 10.4





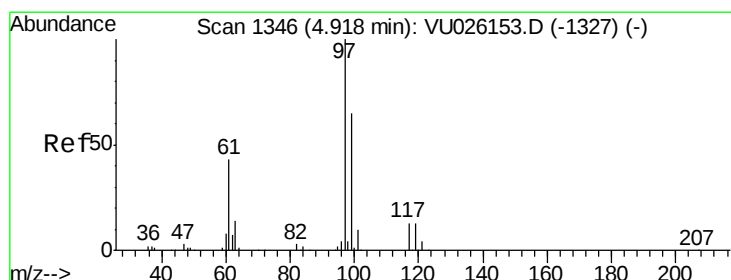
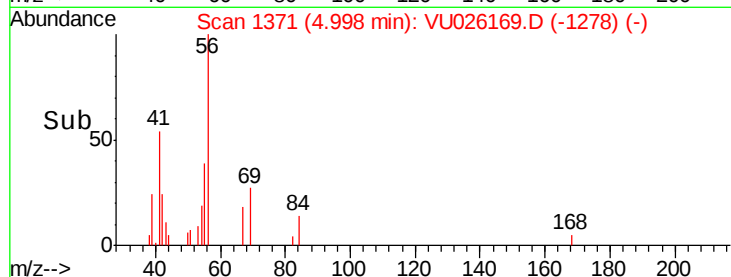
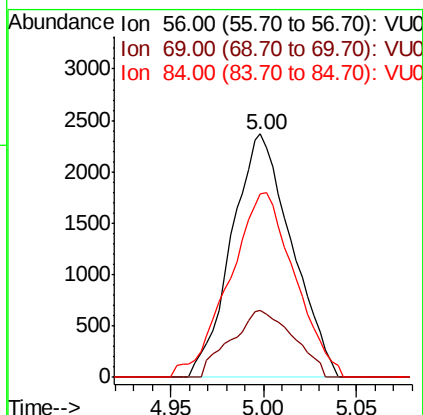
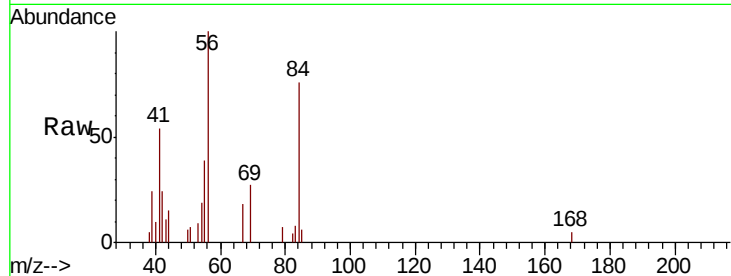
#29
Cyclohexane
Concen: 2.03 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU026169.D
Acq: 16 Aug 2018 00:51

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.6	24.1	36.1
84	81.2	68.6	102.8

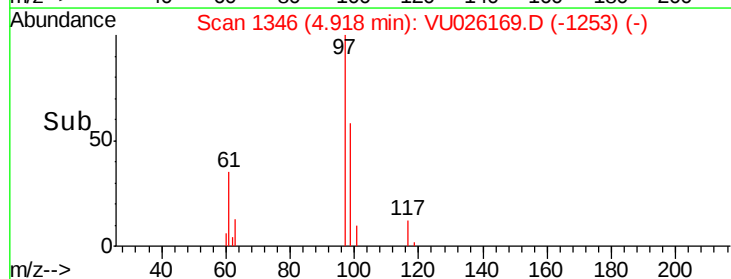
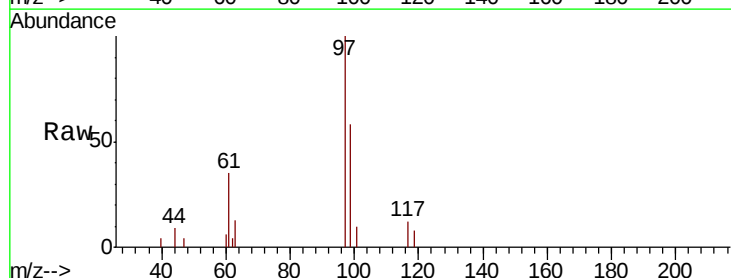
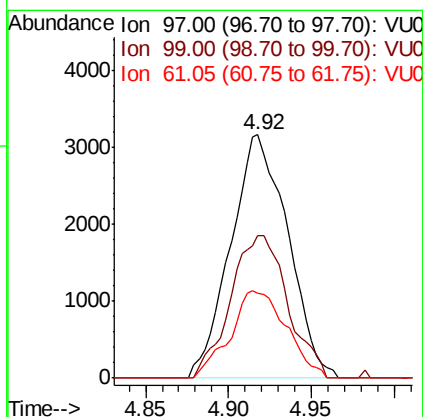
Manual Integrations
APPROVED

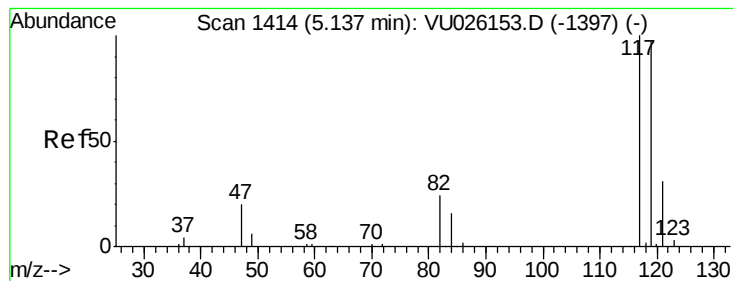
MMDadoda
8/16/2018 4:20:32 PM



#30
1,1,1-Trichloroethane
Concen: 2.41 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU026169.D
Acq: 16 Aug 2018 00:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	58.7	52.2	78.2
61	35.4	35.4	53.0





#31

Carbon tetrachloride

Concen: 2.14 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion:117 Resp: 6103

Ion Ratio Lower Upper

117 100

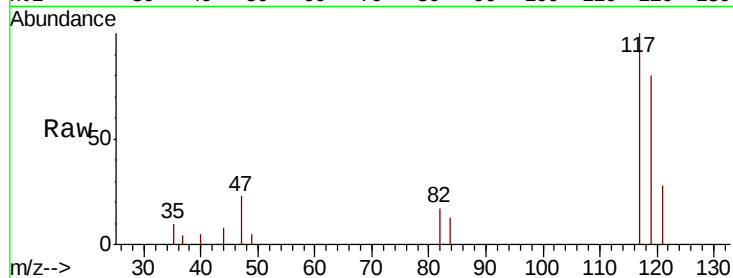
119 88.6 77.4 116.2

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:32 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.14

3000

2500

2000

1500

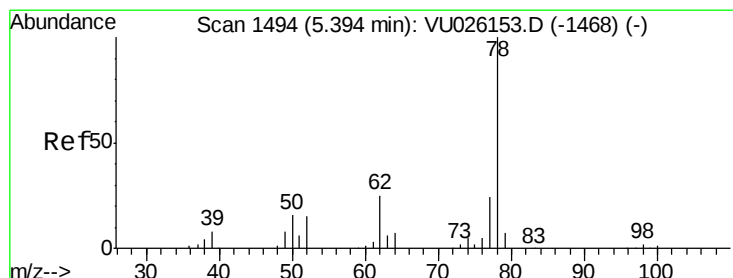
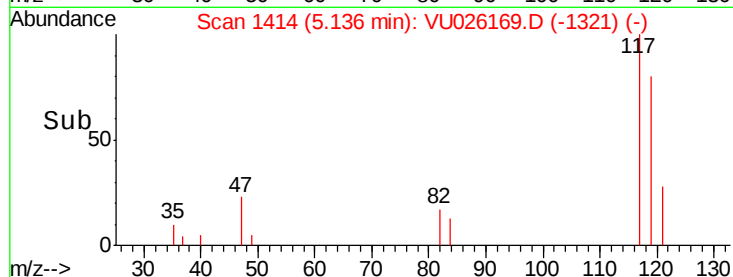
1000

500

0

Time-->

5.10 5.15 5.20



#33

Benzene

Concen: 2.26 ug/L

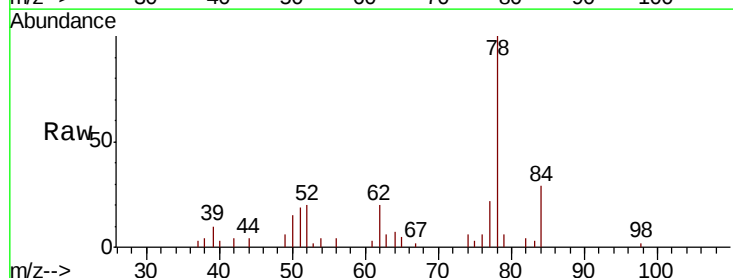
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Tgt Ion: 78 Resp: 16088



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.39

8000

6000

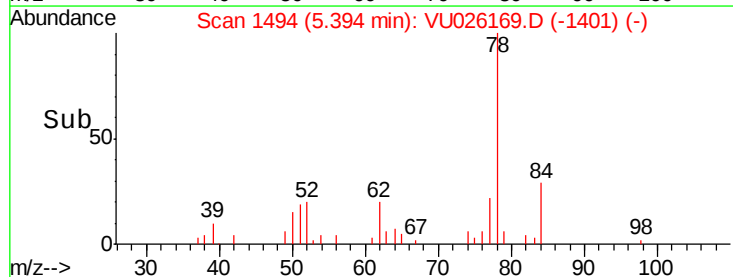
4000

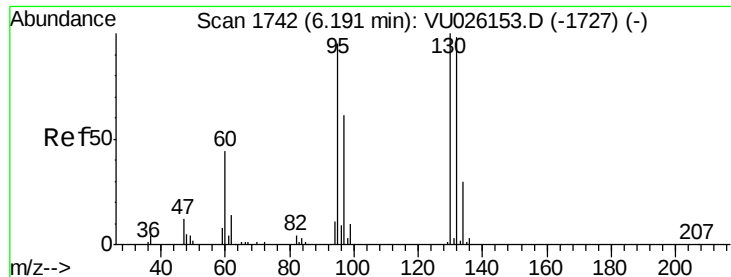
2000

0

Time-->

5.35 5.40 5.45





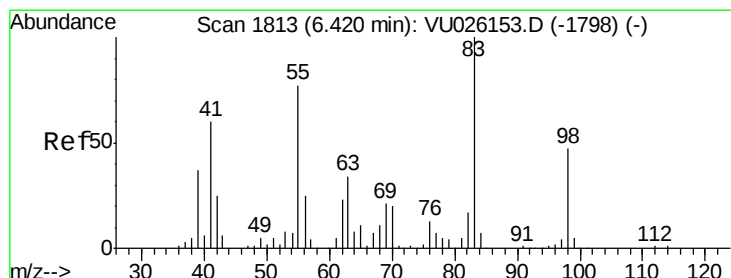
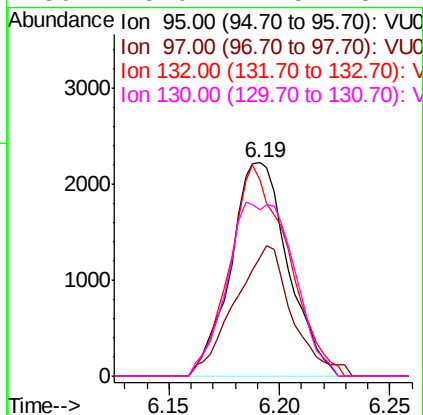
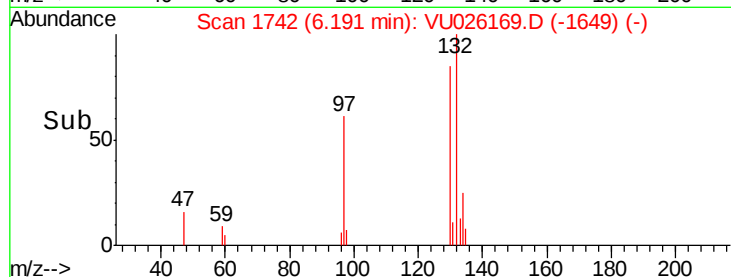
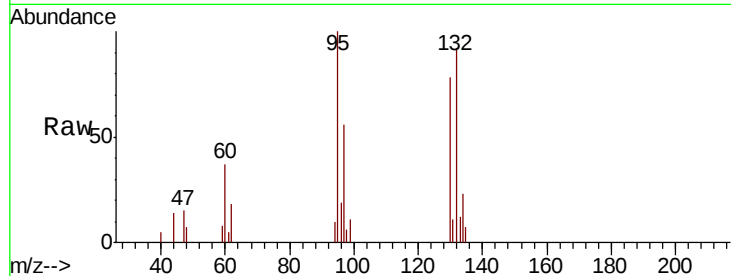
#34
 Trichloroethene
 Concen: 2.16 ug/L
 RT: 6.19 min Scan# 1742
 Delta R.T. -0.00 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	95	Resp:	4013
Ion	Ratio	Lower	Upper
95	100		
97	56.0	45.7	84.9
132	91.6	68.8	127.8
130	78.0	71.5	132.7

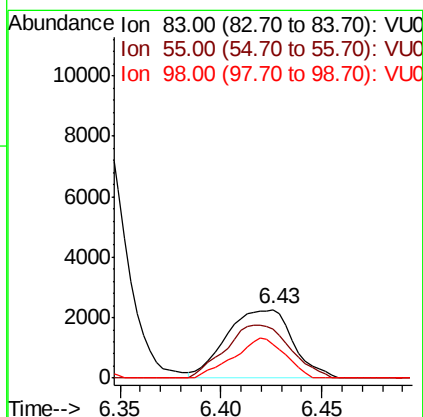
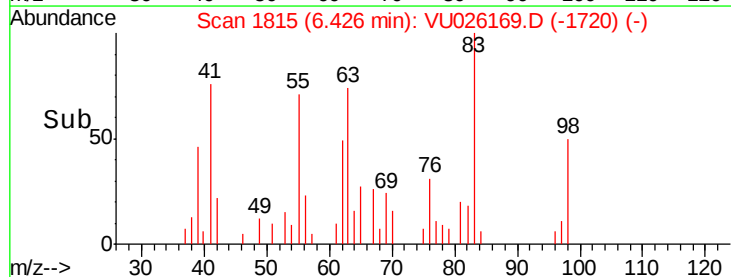
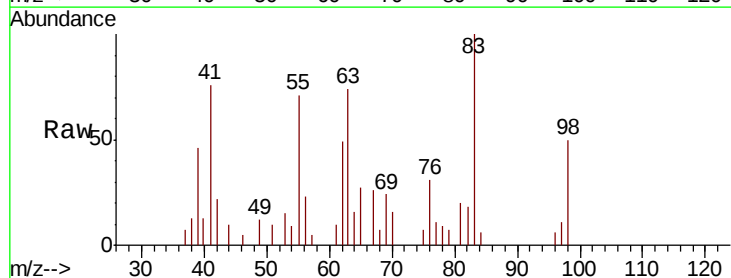
Manual Integrations
 APPROVED

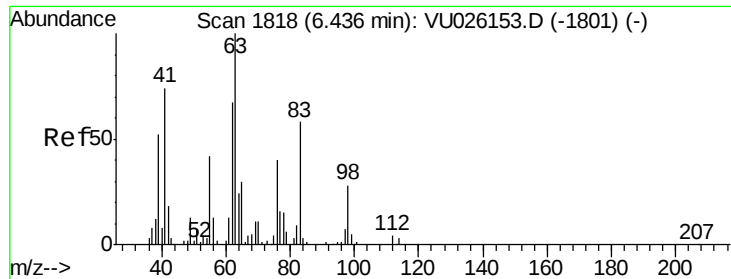
MMDadoda
 8/16/2018 4:20:32 PM



#35
 Methylcyclohexane
 Concen: 1.87 ug/L
 RT: 6.43 min Scan# 1815
 Delta R.T. 0.01 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Tgt Ion:	83	Resp:	5197
Ion	Ratio	Lower	Upper
83	100		
55	75.4	61.0	91.6
98	45.1	37.6	56.4





#37

1,2-Dichloropropane

Concen: 2.14 ug/L

RT: 6.43 min Scan# 1817

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 63 Resp: 4262

Ion Ratio Lower Upper

63 100

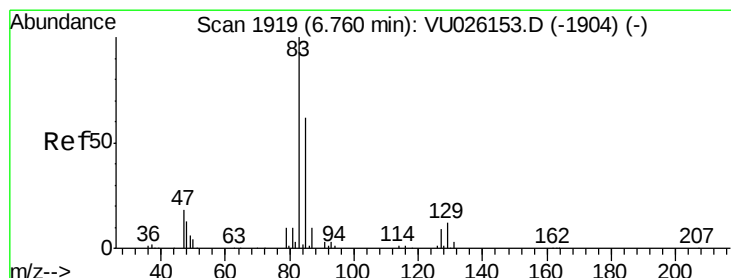
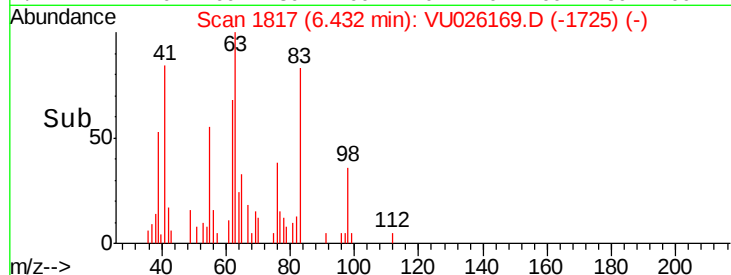
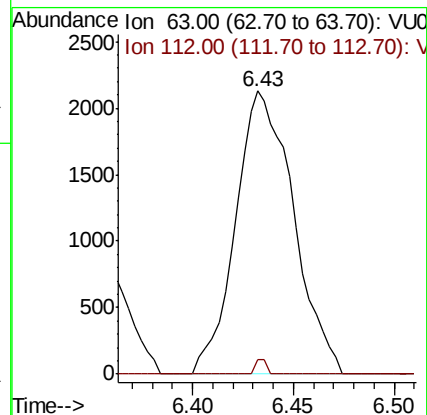
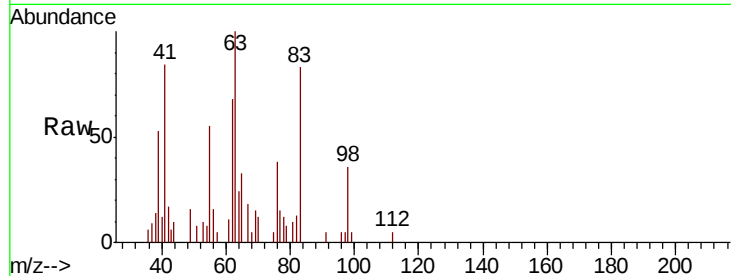
112 1.0 3.5 5.3#

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:32 PM



#38

Bromodichloromethane

Concen: 2.18 ug/L

RT: 6.76 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

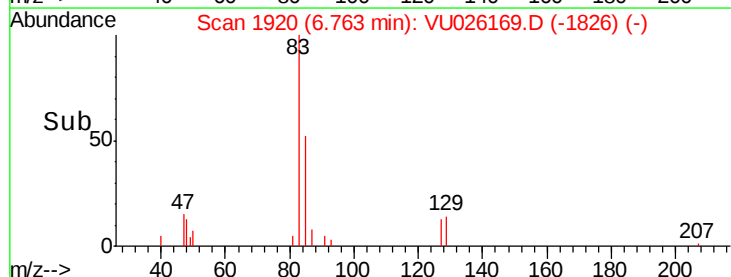
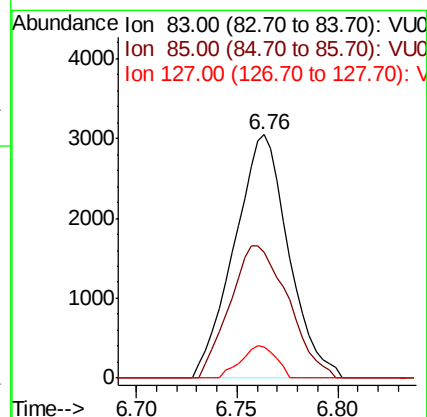
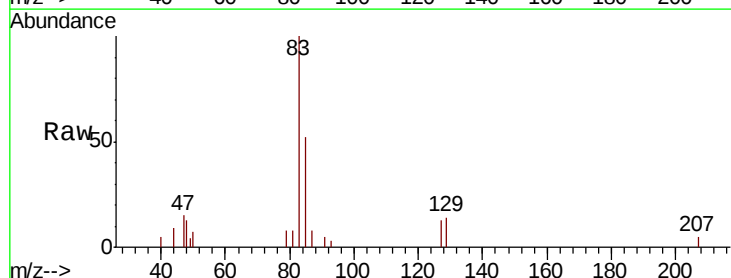
Tgt Ion: 83 Resp: 5734

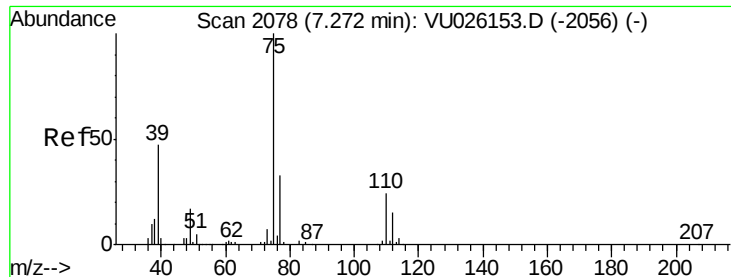
Ion Ratio Lower Upper

83 100

85 51.6 46.0 85.4

127 12.7 7.5 11.3#





#39

cis-1,3-Dichloropropene

Concen: 1.97 ug/L

RT: 7.27 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampleId :

MDL07

Tot Ion: 75 Resp: 5805

Ion Ratio Lower Upper

75 100

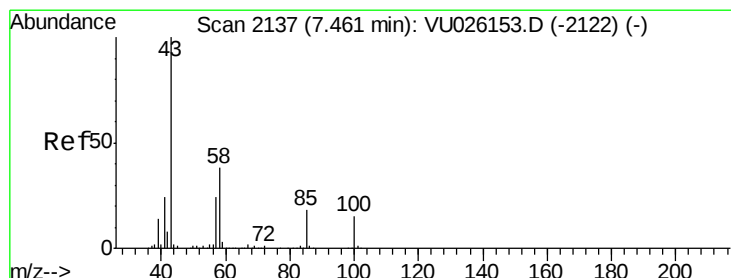
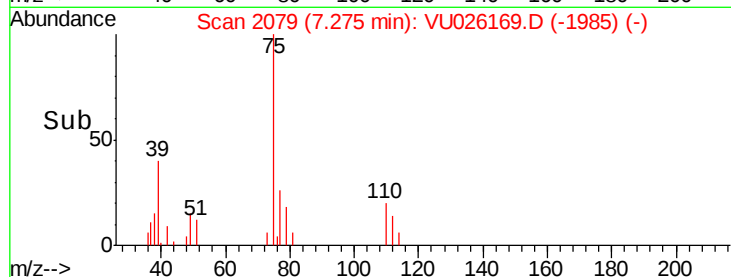
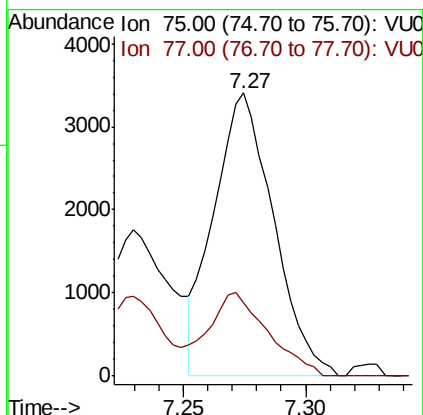
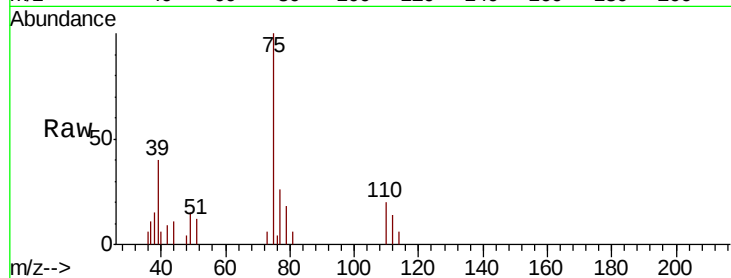
77 25.9 22.2 41.2

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:32 PM



#40

4-Methyl-2-pentanone

Concen: 4.31 ug/L

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

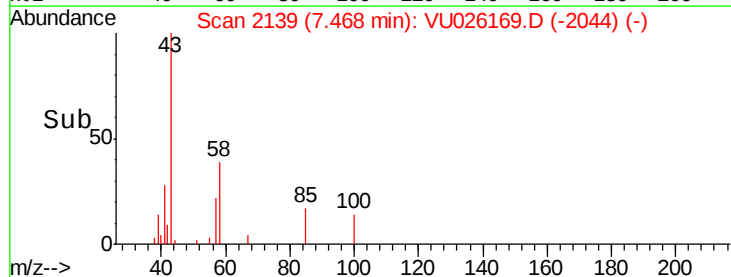
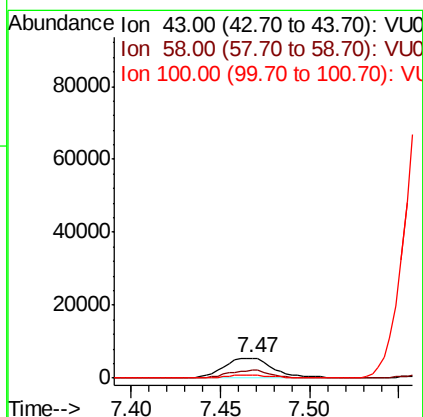
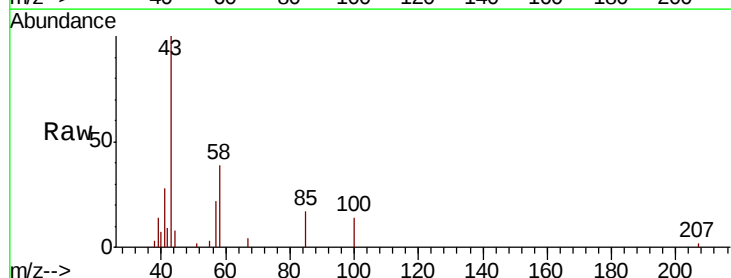
Tgt Ion: 43 Resp: 10631

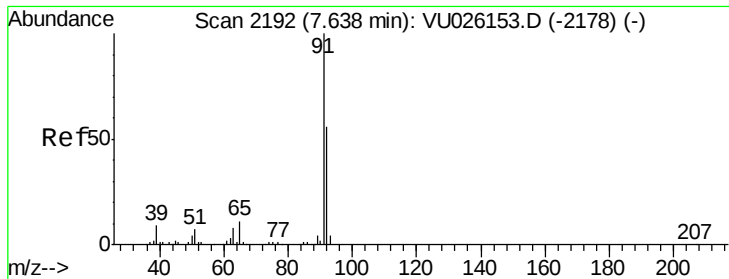
Ion Ratio Lower Upper

43 100

58 33.9 31.8 47.8

100 12.8 12.2 18.2





#42

Toluene

Concen: 2.13 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 91 Resp: 16088

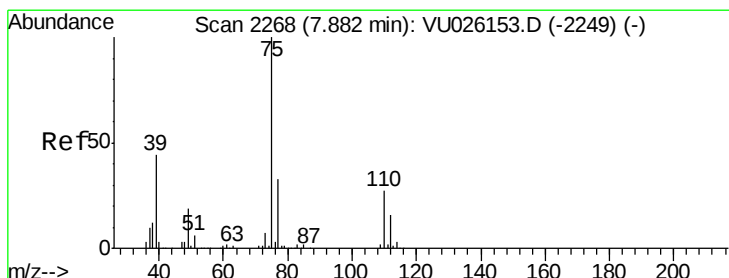
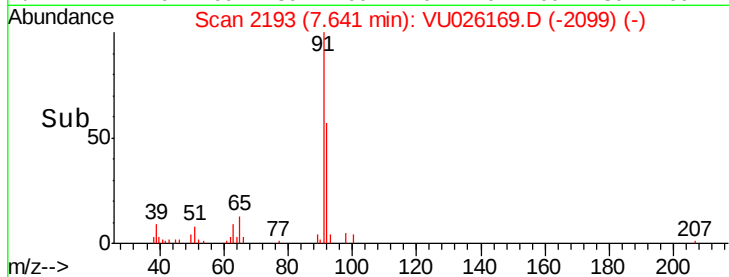
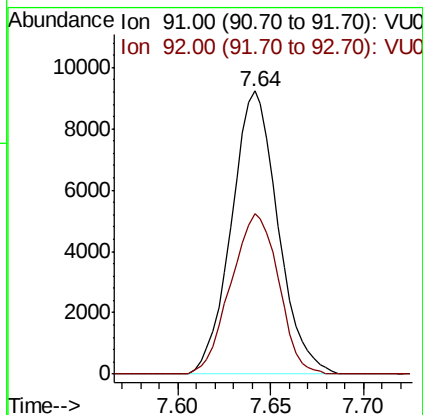
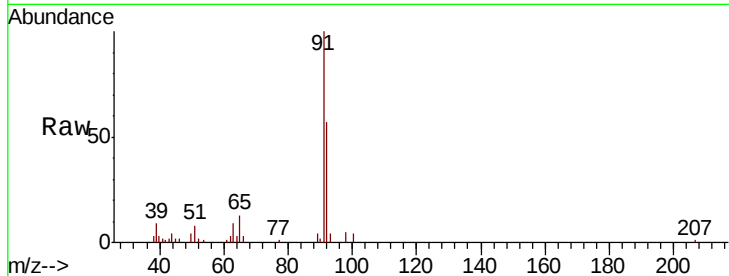
Ion Ratio Lower Upper

91 100

92 56.6 40.0 74.4

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM



#44

trans-1,3-Dichloropropene

Concen: 1.88 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026169.D

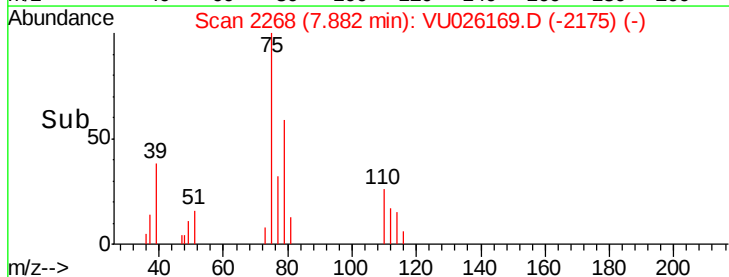
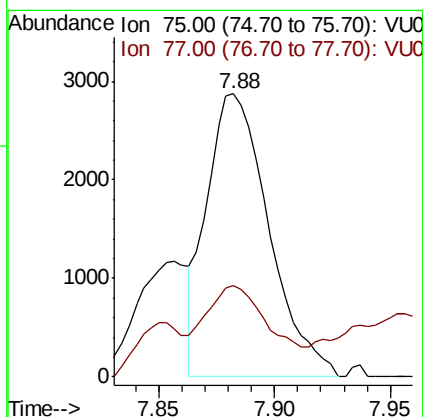
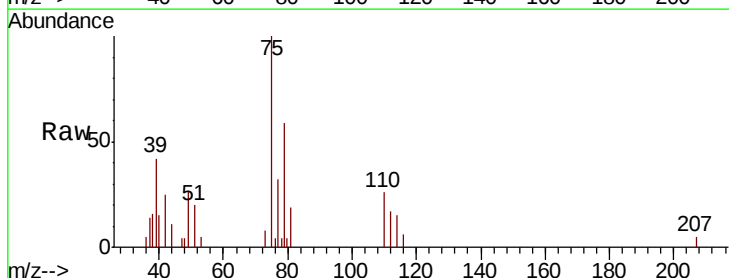
Acq: 16 Aug 2018 00:51

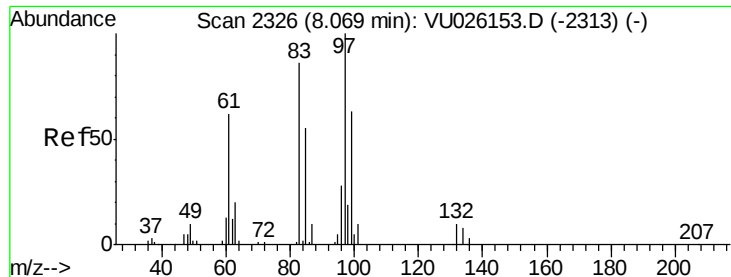
Tgt Ion: 75 Resp: 5352

Ion Ratio Lower Upper

75 100

77 32.2 22.0 41.0





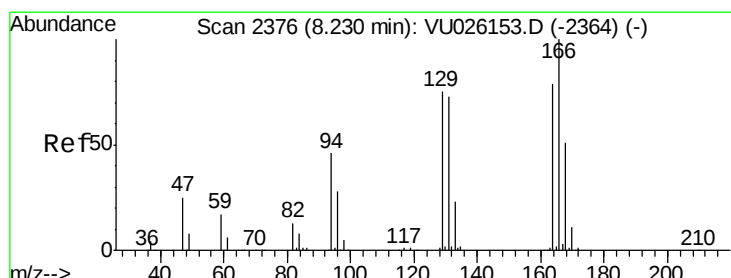
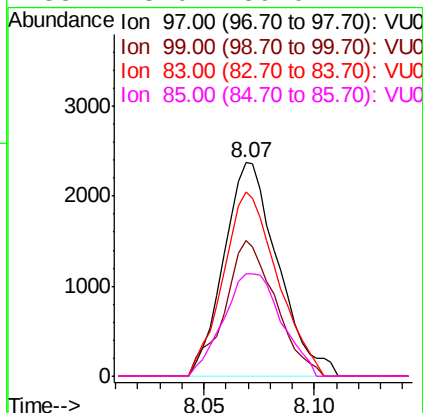
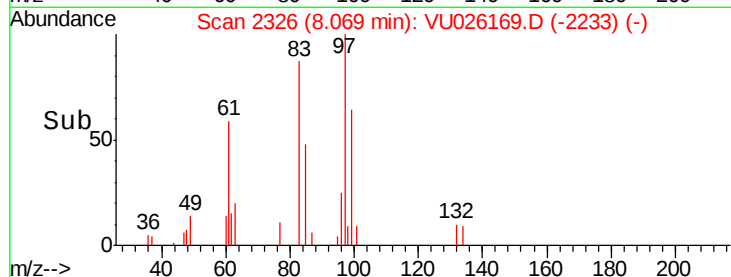
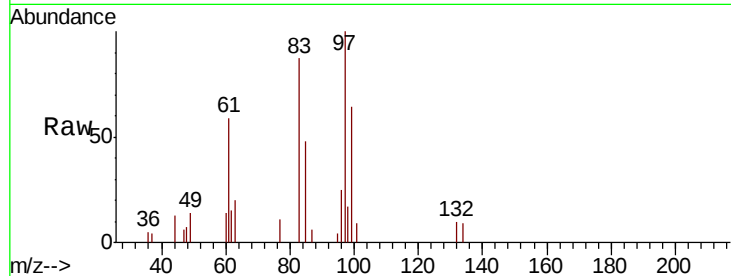
#45
 1,1,2-Trichloroethane
 Concen: 2.14 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion:	97	Resp:	4034
Ion	Ratio	Lower	Upper
97	100		
99	63.7	43.3	80.5
83	86.5	58.4	108.6
85	48.0	39.0	72.4

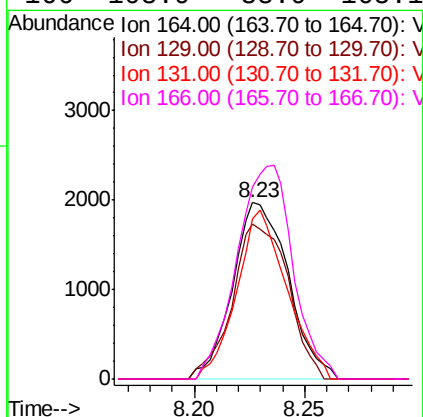
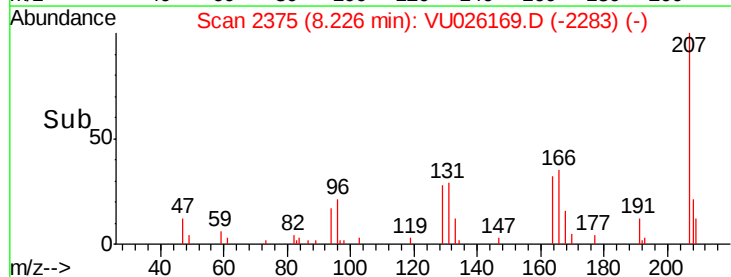
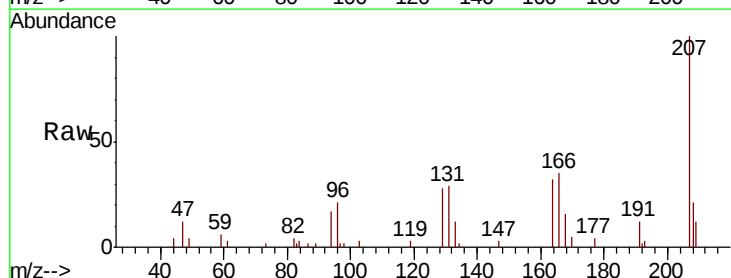
Manual Integrations
 APPROVED

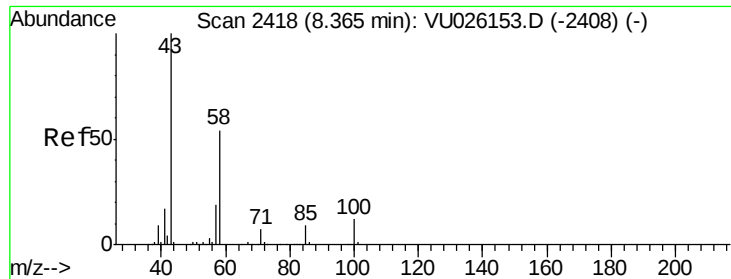
MMDadoda
 8/16/2018 4:20:32 PM



#46
 Tetrachloroethene
 Concen: 2.17 ug/L
 RT: 8.23 min Scan# 2375
 Delta R.T. -0.00 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Tgt Ion:	164	Resp:	3467
Ion	Ratio	Lower	Upper
164	100		
129	87.8	65.7	121.9
131	90.7	62.0	115.2
166	108.9	88.9	165.1





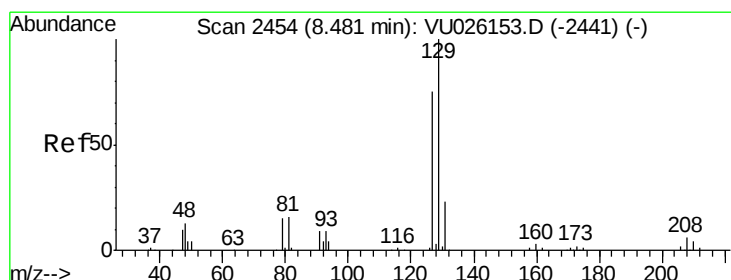
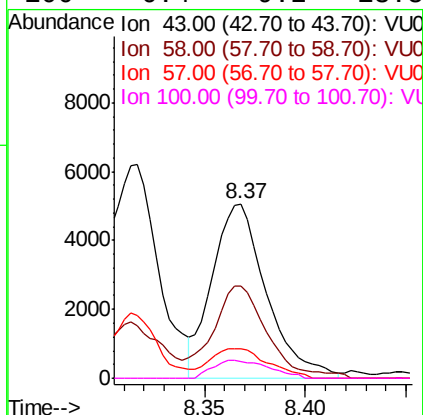
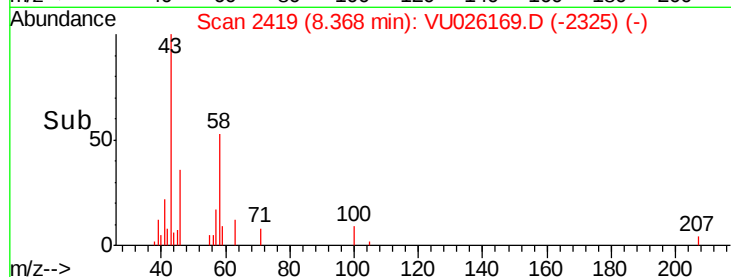
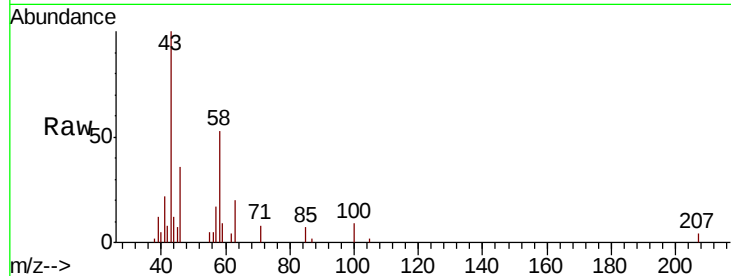
#48
2-Hexanone
Concen: 4.92 ug/L
RT: 8.37 min Scan# 2419
Delta R.T. 0.00 min
Lab File: VU026169.D
Acq: 16 Aug 2018 00:51

Instrument :
MSVOA_U
ClientSampleId :
MDL07

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.3	42.9	64.3
57	18.4	15.1	22.7
100	6.4	9.2	13.8

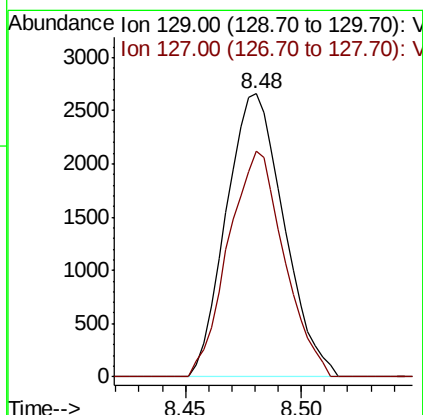
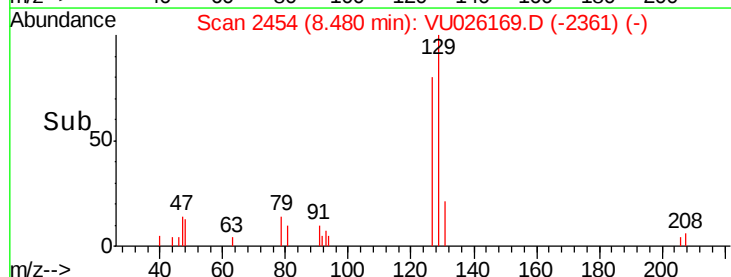
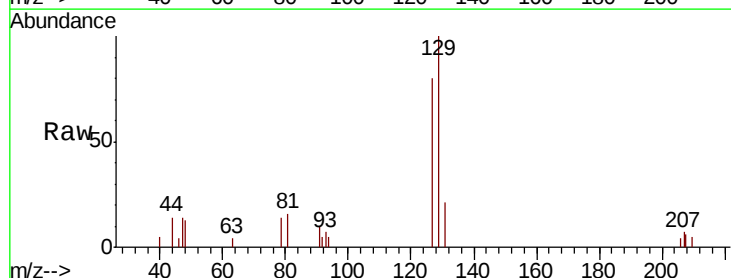
Manual Integrations
APPROVED

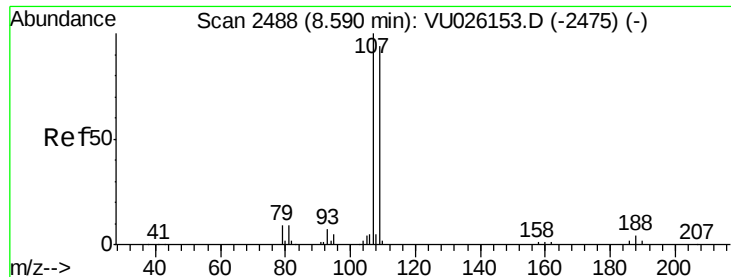
MMDadoda
8/16/2018 4:20:32 PM



#49
Dibromochloromethane
Concen: 2.02 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU026169.D
Acq: 16 Aug 2018 00:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.6	54.6	101.4





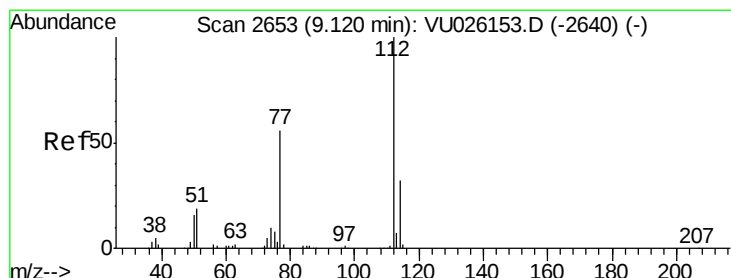
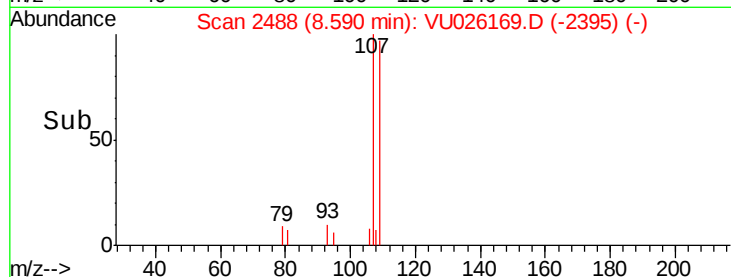
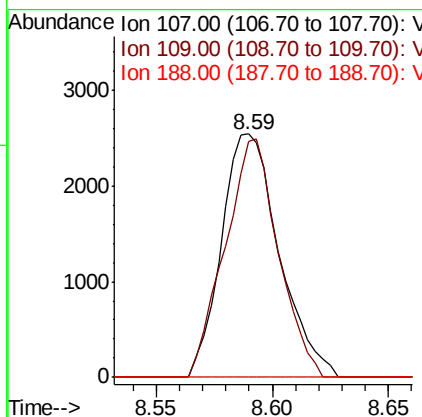
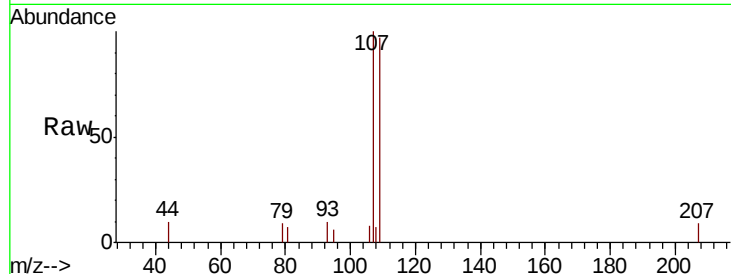
#50
 1,2-Dibromoethane
 Concen: 2.25 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.9	66.1	122.7
188	0.0	3.2	4.8#

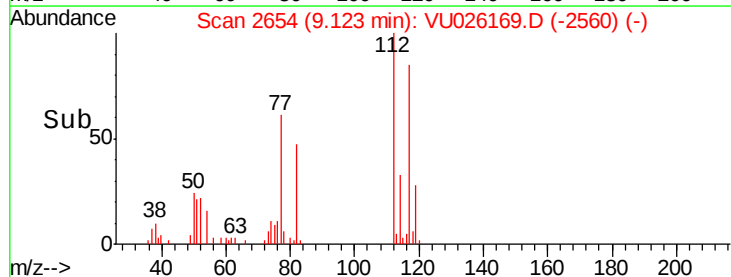
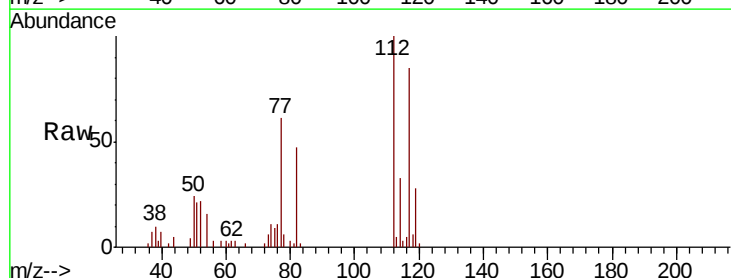
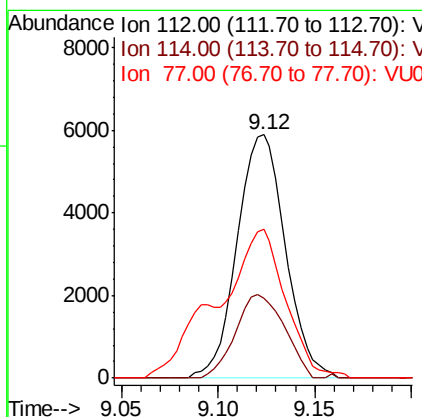
Manual Integrations
 APPROVED

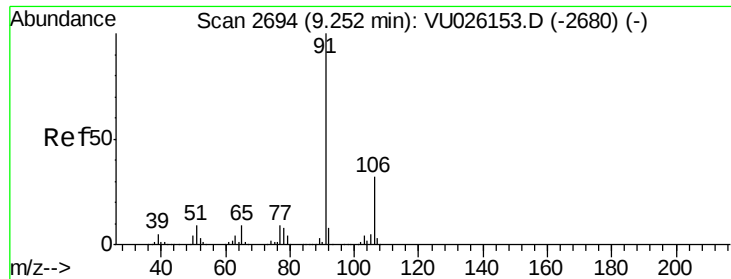
MMDadoda
 8/16/2018 4:20:32 PM



#51
 Chlorobenzene
 Concen: 1.98 ug/L
 RT: 9.12 min Scan# 2654
 Delta R.T. 0.00 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.8	22.5	41.9
77	61.1	45.0	67.4





#52

Ethylbenzene

Concen: 1.81 ug/L

RT: 9.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion: 91 Resp: 14894

Ion Ratio Lower Upper

91 100

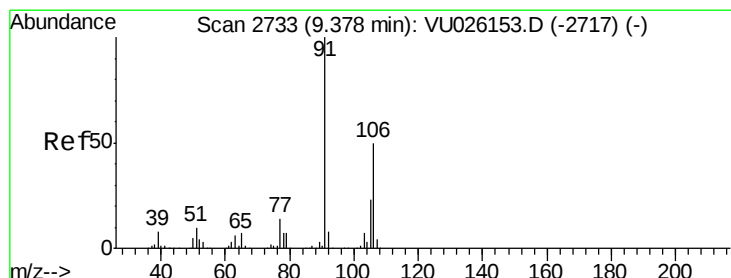
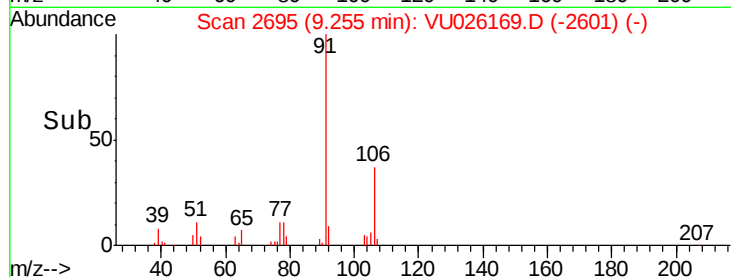
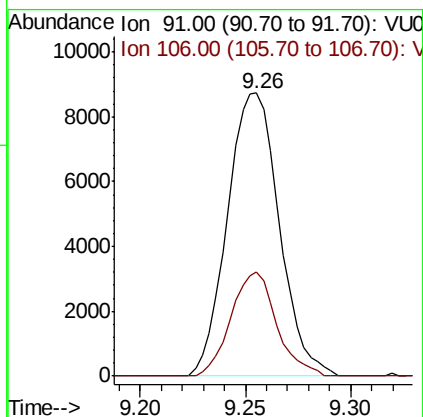
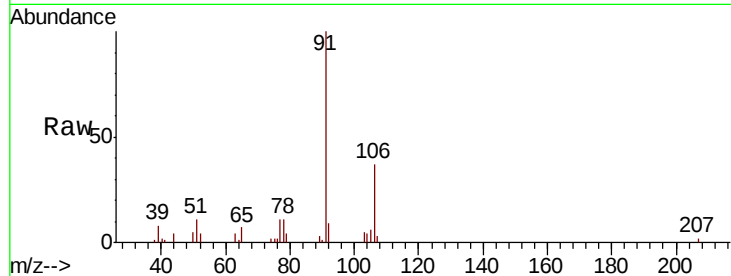
106 36.9 22.3 41.5

Manual Integrations

APPROVED

MMDadoda

8/16/2018 4:20:32 PM



#53

m,p-Xylene

Concen: 1.81 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026169.D

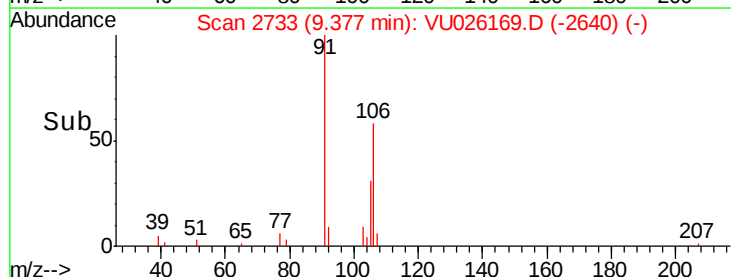
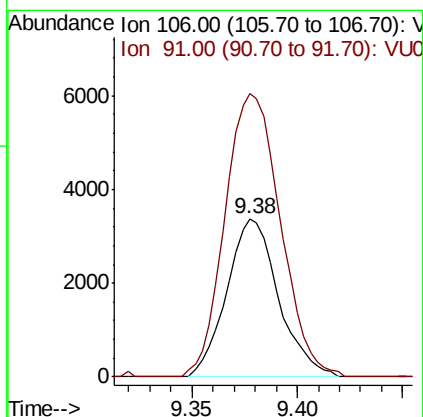
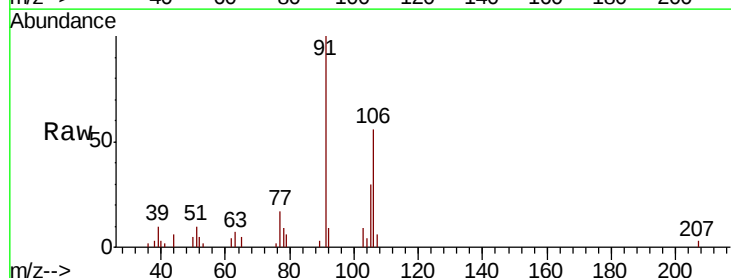
Acq: 16 Aug 2018 00:51

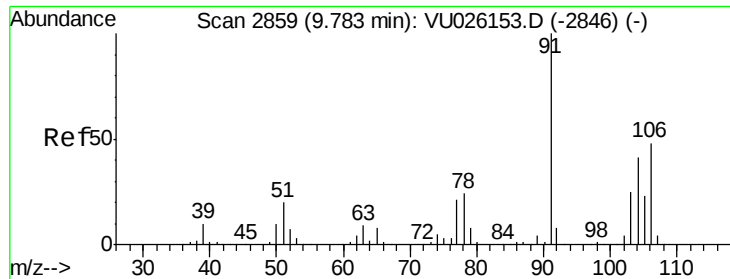
Tgt Ion: 106 Resp: 5731

Ion Ratio Lower Upper

106 100

91 178.7 139.2 258.4





#54

o-xylene

Concen: 1.57 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

ClientSampled :

MDL07

Tot Ion:106 Resp: 4969

Ion Ratio Lower Upper

106 100

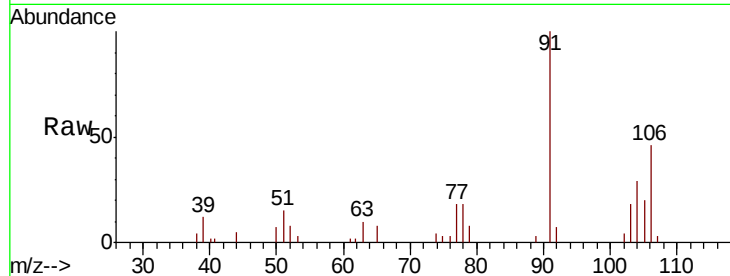
91 217.0 148.0 274.8

Manual Integrations

APPROVED

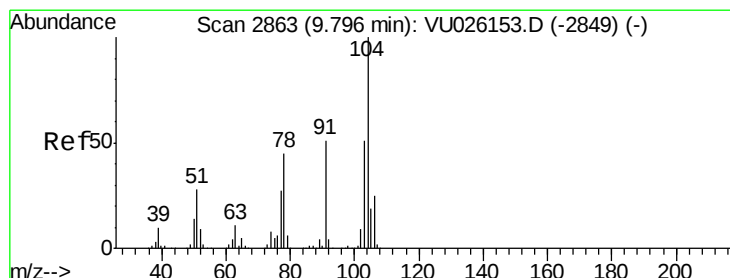
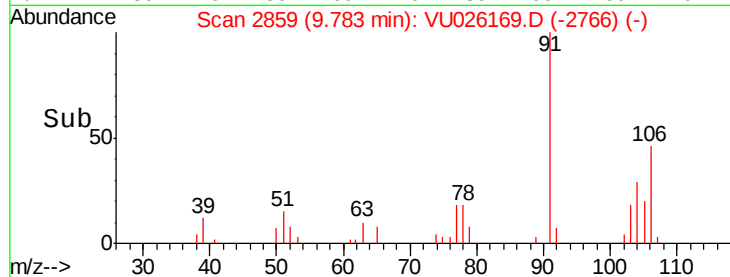
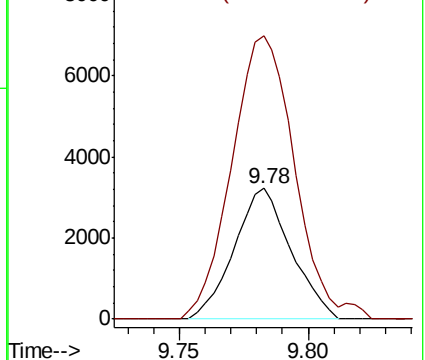
MMDadoda

8/16/2018 4:20:32 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.51 ug/L

RT: 9.80 min Scan# 2864

Delta R.T. 0.00 min

Lab File: VU026169.D

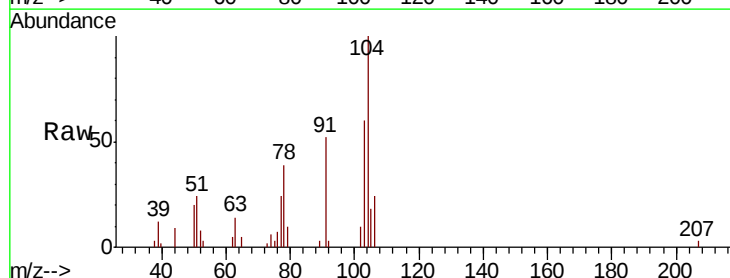
Acq: 16 Aug 2018 00:51

Tgt Ion:104 Resp: 7959

Ion Ratio Lower Upper

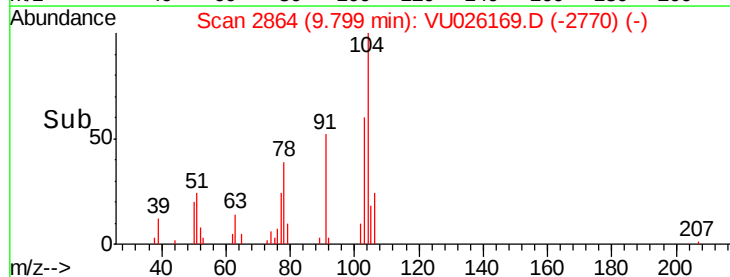
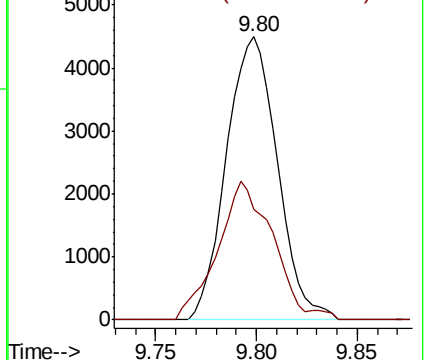
104 100

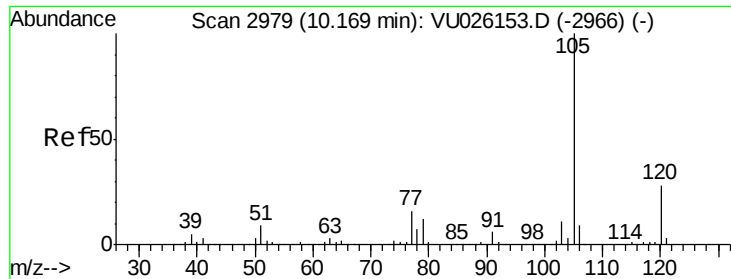
78 39.2 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.59 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

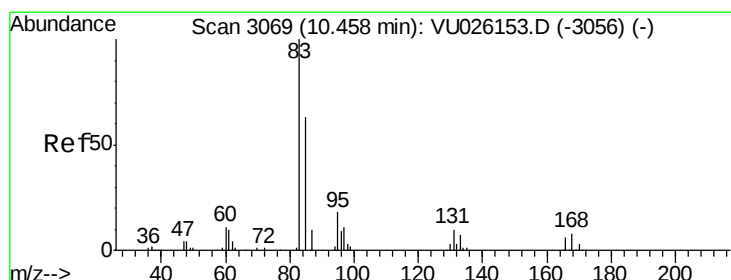
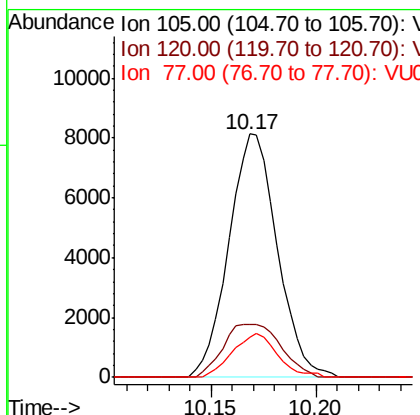
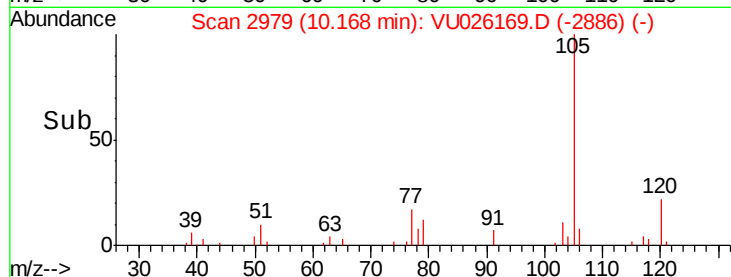
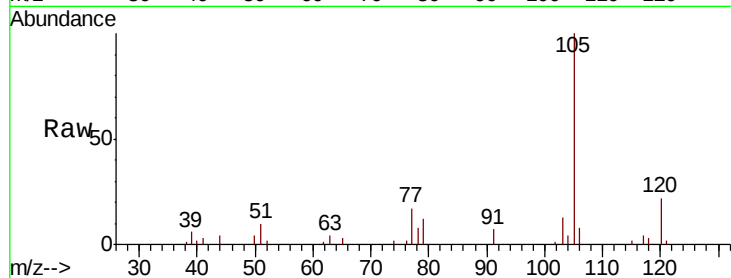
ClientSampled :

MDL07

Tot Ion:	105	Resp:	12957
Ion Ratio	Lower	Upper	
105	100		
120	26.0	21.5	32.3
77	16.3	12.3	18.5

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.30 ug/L

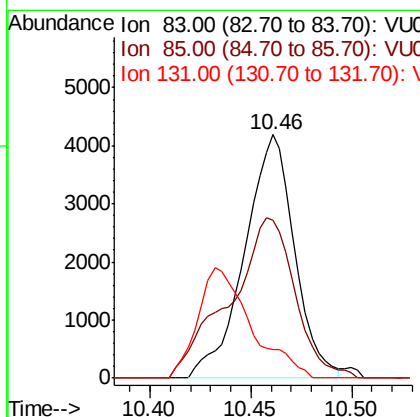
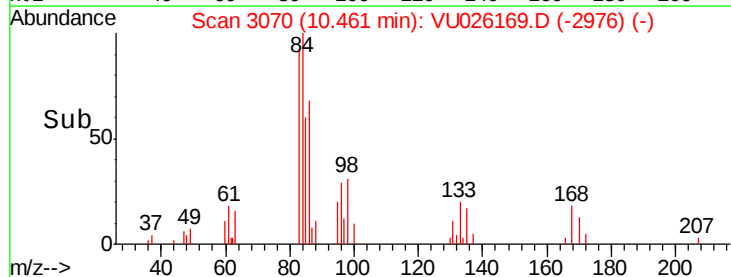
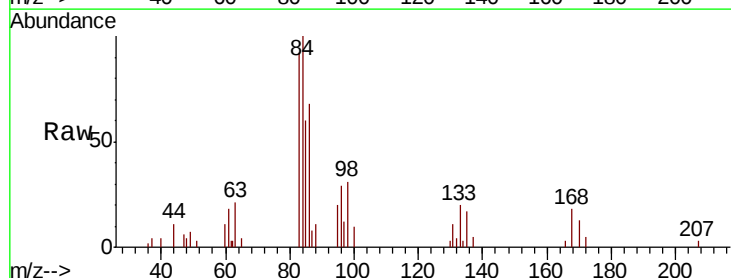
RT: 10.46 min Scan# 3070

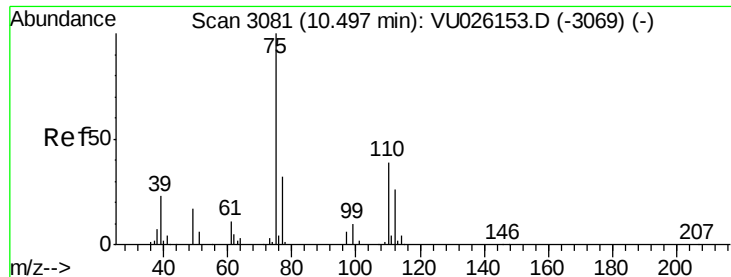
Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Tgt Ion:	83	Resp:	7240
Ion Ratio	Lower	Upper	
83	100		
85	64.7	45.0	83.6
131	11.9	8.4	12.6





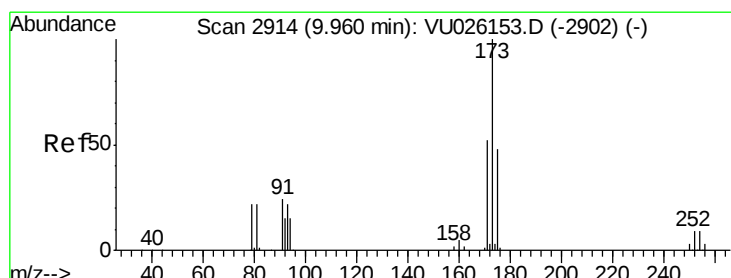
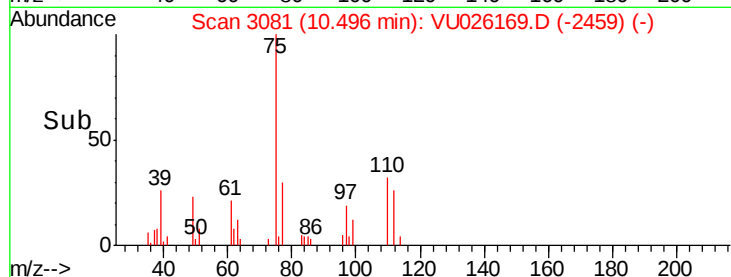
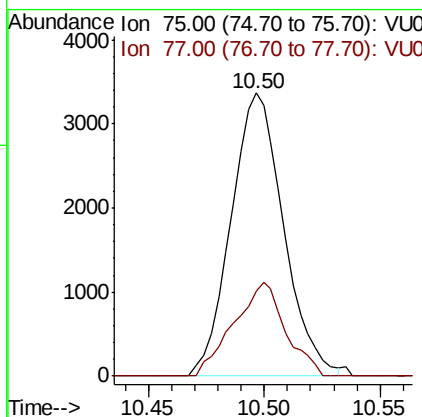
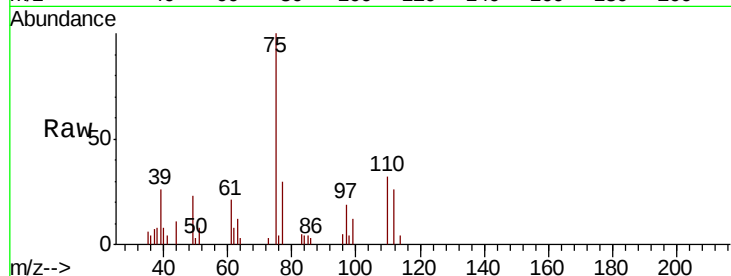
#59
 1,2,3-Trichloropropane
 Concen: 2.16 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion: 75 Resp: 5297
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.1 39.1

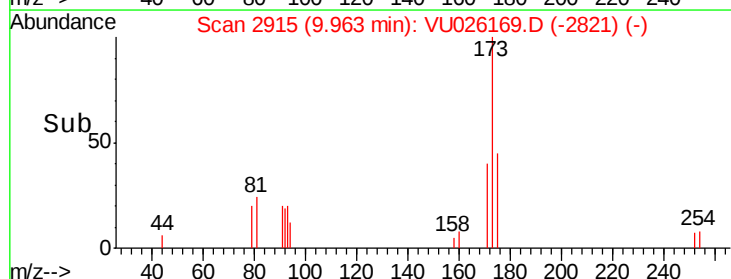
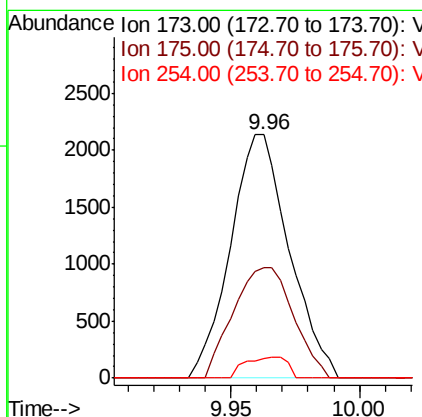
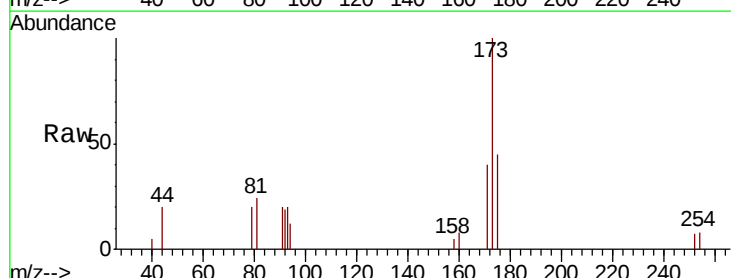
Manual Integrations
 APPROVED

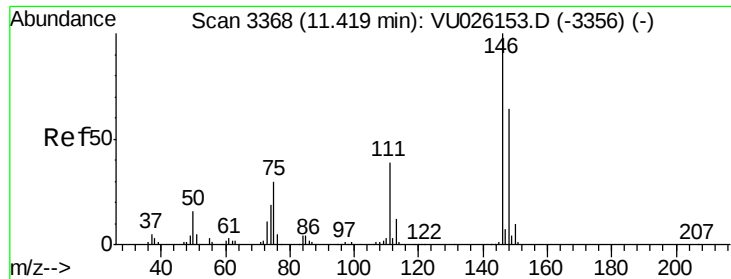
MMDadoda
 8/16/2018 4:20:32 PM



#61
 Bromoform
 Concen: 2.35 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Tgt Ion:173 Resp: 3385
 Ion Ratio Lower Upper
 173 100
 175 46.5 38.8 58.2
 254 6.3 7.3 10.9#





#62

1,3-Dichlorobenzene

Concen: 2.17 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

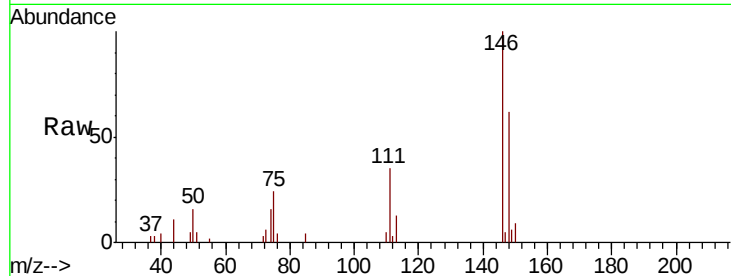
ClientSampleId :

MDL07

Tot Ion:	146	Resp:	7154
Ion	Ratio	Lower	Upper
146	100		
111	34.8	26.7	49.7
148	61.7	44.1	81.9

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM

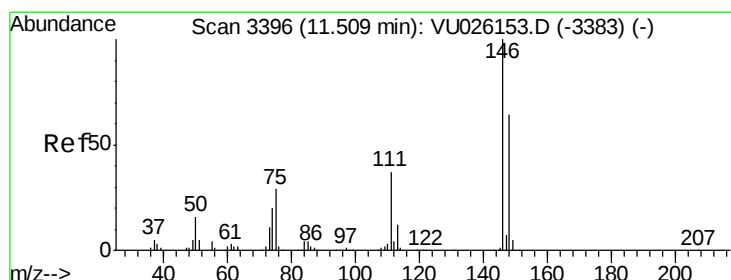
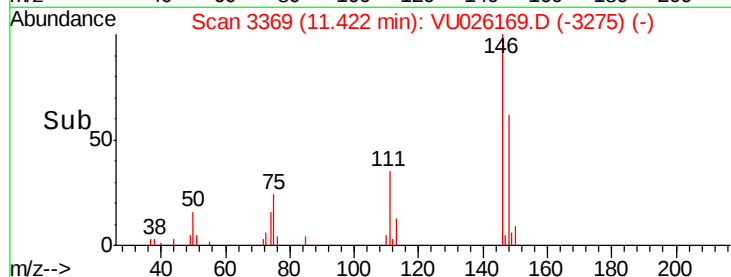
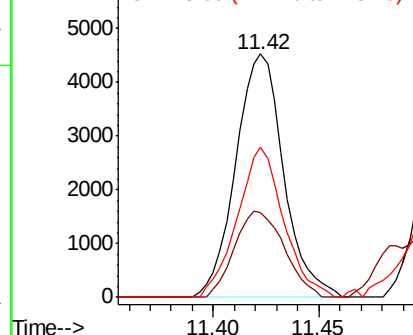


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 2.15 ug/L

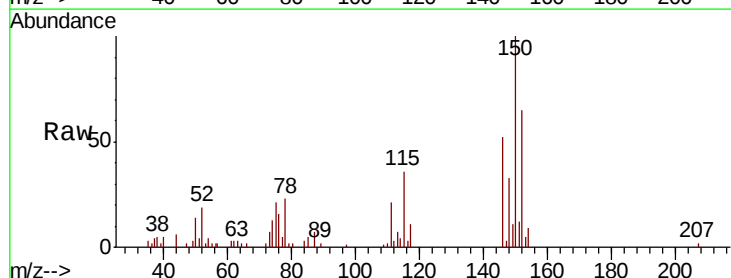
RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Tgt Ion:	146	Resp:	7318
Ion	Ratio	Lower	Upper
146	100		
111	39.7	27.5	51.1
148	63.2	44.8	83.2

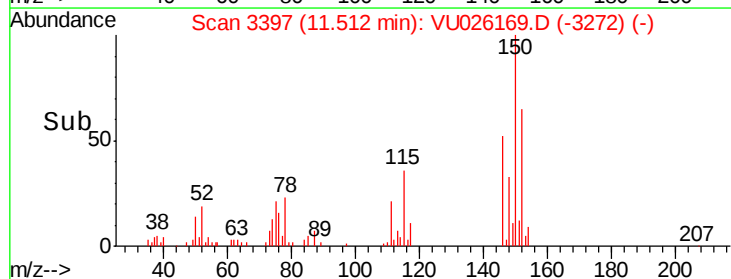
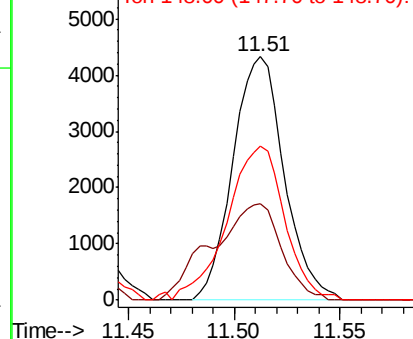


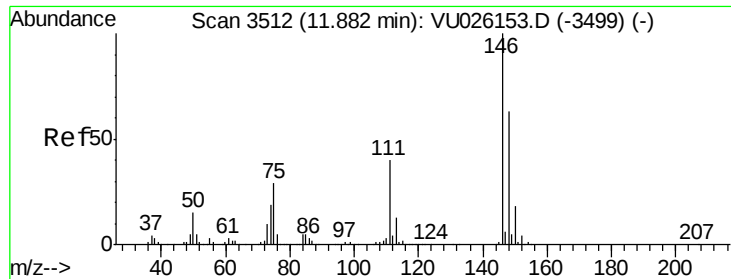
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 2.25 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

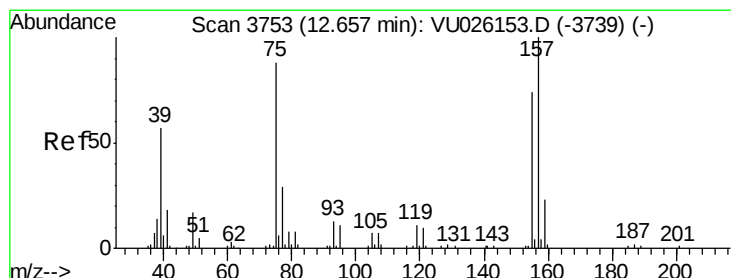
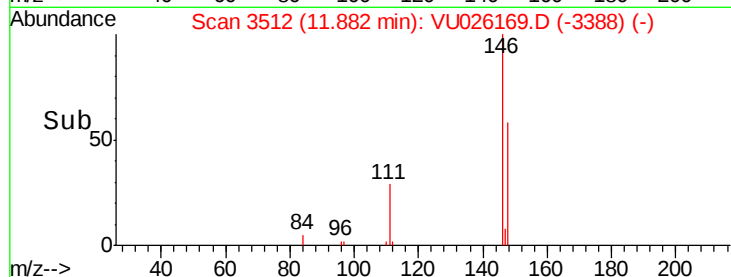
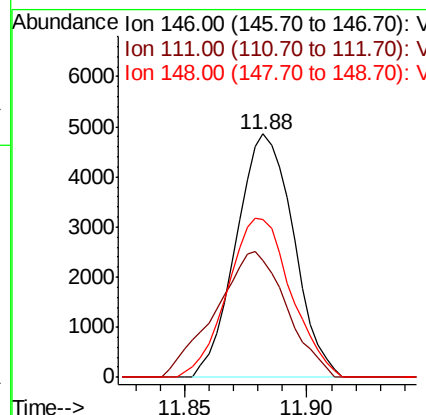
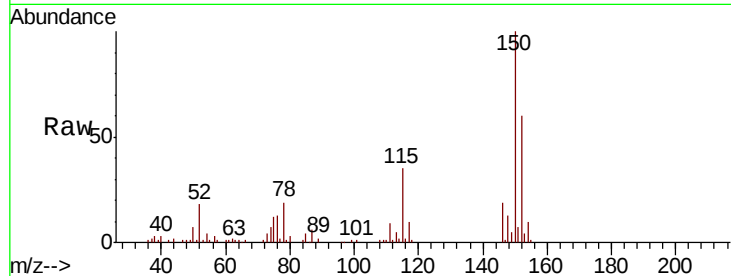
ClientSampled :

MDL07

Tot Ion:	146	Resp:	7930
Ion	Ratio	Lower	Upper
146	100		
111	47.8	32.7	49.1
148	64.8	51.4	77.2

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM



#66

1,2-Dibromo-3-chloropropane

Concen: 2.25 ug/L

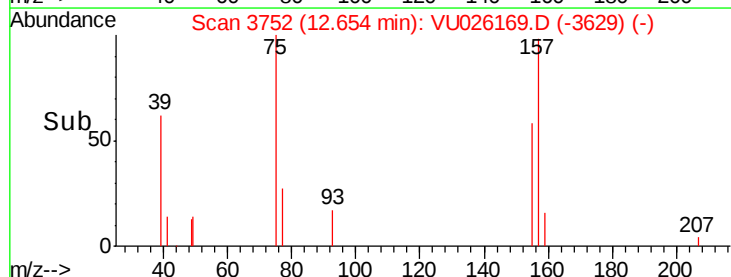
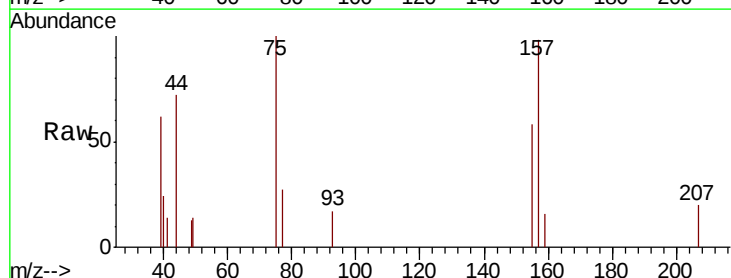
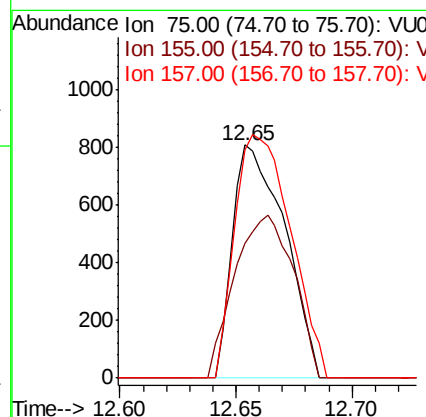
RT: 12.65 min Scan# 3752

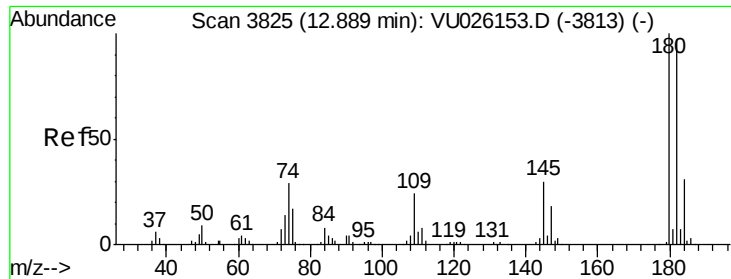
Delta R.T. -0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Tgt Ion:	75	Resp:	1259
Ion	Ratio	Lower	Upper
75	100		
155	58.0	68.2	102.2#
157	98.0	90.5	135.7





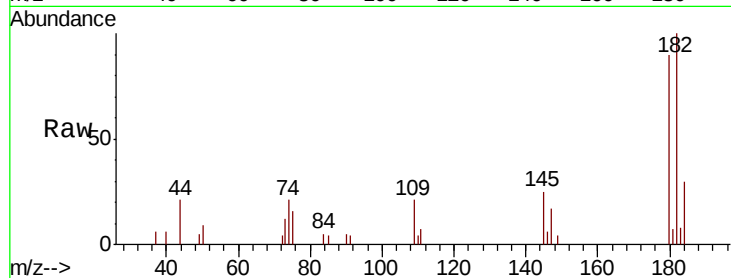
#67
 1,3,5-Trichlorobenzene
 Concen: 1.87 ug/L
 RT: 12.90 min Scan# 3827
 Delta R.T. 0.01 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.7	75.6	113.4
184	32.1	24.3	36.5
145	27.6	23.3	34.9

Manual Integrations
 APPROVED

MMDadoda
 8/16/2018 4:20:32 PM



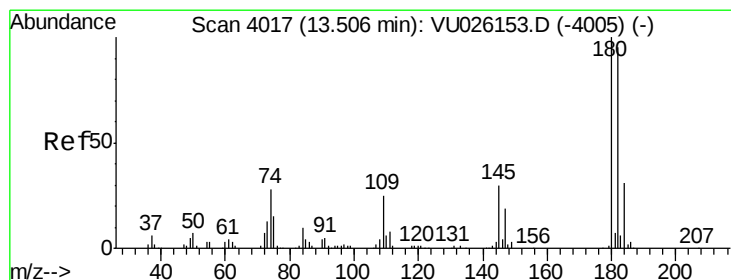
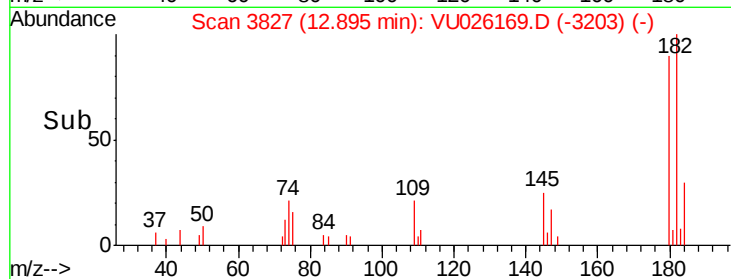
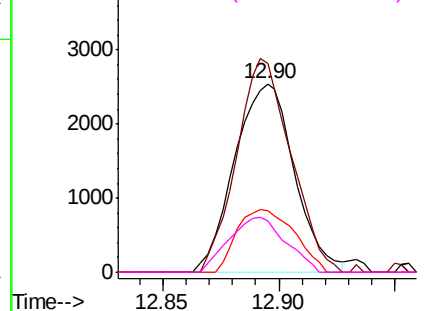
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

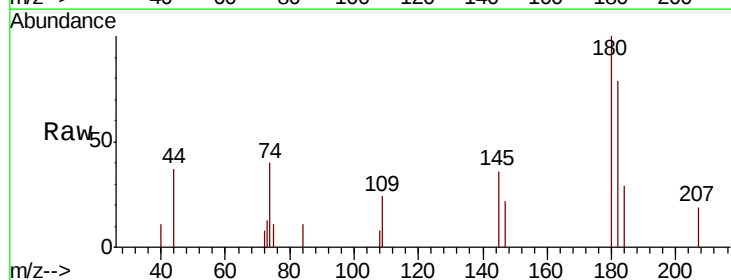
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 1.25 ug/L
 RT: 13.51 min Scan# 4019
 Delta R.T. 0.01 min
 Lab File: VU026169.D
 Acq: 16 Aug 2018 00:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.7	76.8	115.2
145	35.6	23.8	35.6

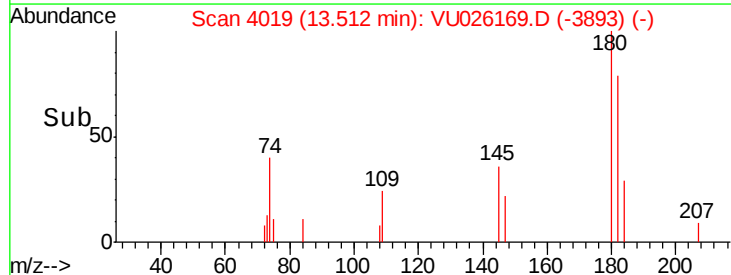
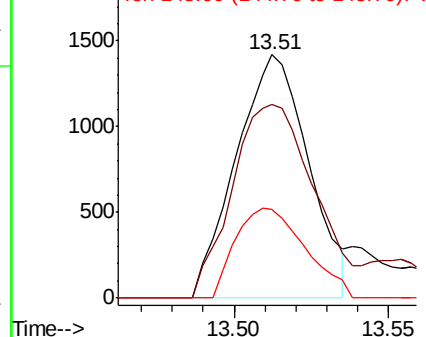


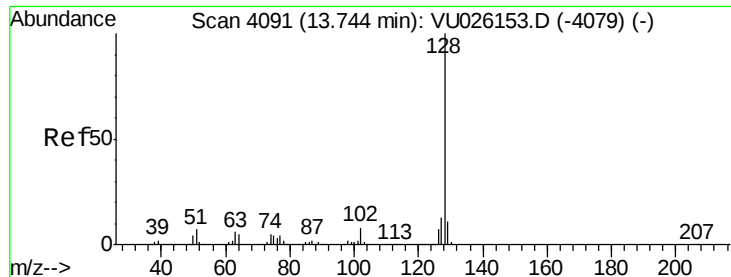
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.37 ug/L m

RT: 13.75 min Scan# 4093

Delta R.T. 0.01 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Instrument :

MSVOA_U

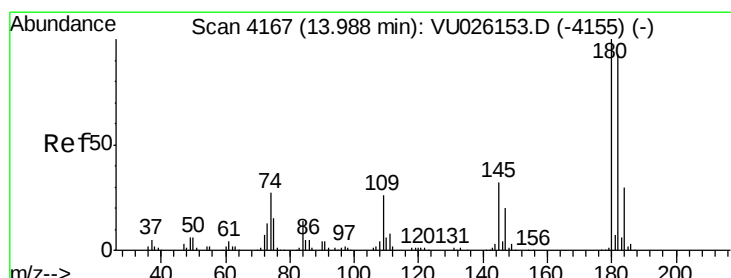
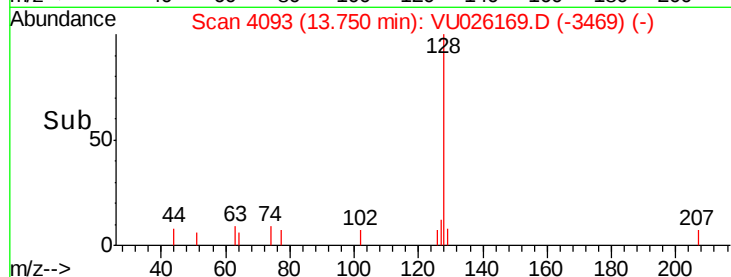
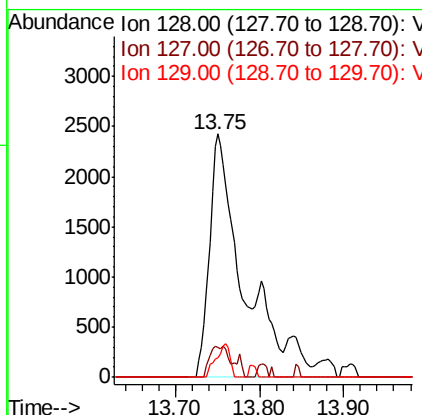
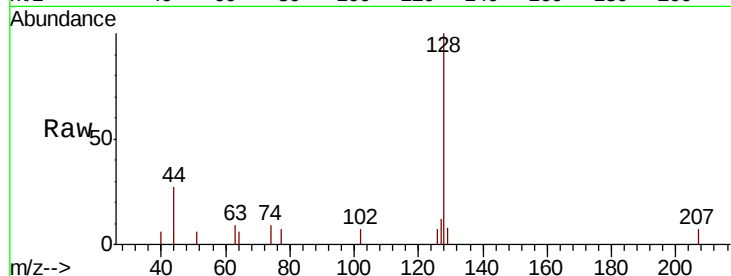
ClientSampleId :

MDL07

Tot Ion:	128	Resp:	7172
Ion Ratio	Lower	Upper	
128	100		
127	4.1	10.3	15.5#
129	5.4	8.6	13.0#

Manual Integrations
APPROVED

MMDadoda
8/16/2018 4:20:32 PM



#70

1,2,3-Trichlorobenzene

Concen: 1.31 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU026169.D

Acq: 16 Aug 2018 00:51

Tgt Ion:	180	Resp:	2587
Ion Ratio	Lower	Upper	
180	100		
182	92.6	77.1	115.7
145	32.0	25.1	37.7

