

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026156.D
 Acq On : 15 Aug 2018 19:10
 Operator : MD/SY
 Sample : MDL01
 Misc : 5.00u/5mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

apatel
 8/16/2018 5:15:52 PM

Quant Time: Aug 16 10:34:40 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	284112	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	264128	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	112794	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	69017	41.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.74%
7) Chloroethane-d5	1.67	69	59306	43.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.50%
11) 1,1-Dichloroethene-d2	2.27	63	108770	33.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.40%
21) 2-Butanone-d5	4.18	46	130979	102.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.32%
24) Chloroform-d	4.65	84	166094	44.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.90%
26) 1,2-Dichloroethane-d4	5.31	65	114468	46.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.62%
32) Benzene-d6	5.34	84	322900	47.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.84%
36) 1,2-Dichloropropane-d6	6.33	67	105441	47.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.20%
41) Toluene-d8	7.57	98	294512	45.18	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.36%
43) trans-1,3-Dichloropropene-	7.85	79	48666	45.91	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.82%
47) 2-Hexanone-d5	8.31	63	93188	101.60	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	101.60%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	147062	46.67	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.34%
64) 1,2-Dichlorobenzene-d4	11.86	152	114539	48.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4413	1.96 ug/L	94
3) Chloromethane	1.33	50	4891	2.39 ug/L	96
5) Vinyl chloride	1.40	62	4630	2.26 ug/L #	71
6) Bromomethane	1.62	94	2515	2.39 ug/L	93
8) Chloroethane	1.69	64	2659	2.17 ug/L #	79
9) Trichlorofluoromethane	1.88	101	6111	2.02 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	4394	2.69 ug/L #	78
12) 1,1-Dichloroethene	2.28	96	3959	2.64 ug/L #	1
13) Acetone	2.33	43	5262	4.49 ug/L	93
14) Carbon disulfide	2.48	76	11187	2.15 ug/L #	89
15) Methyl Acetate	2.62	43	5238	2.58 ug/L #	83
16) Methylene chloride	2.70	84	5284	2.63 ug/L	90
17) trans-1,2-Dichloroethene	2.98	96	3720	2.09 ug/L	93
18) Methyl tert-butyl Ether	3.00	73	11212	1.98 ug/L	97
19) 1,1-Dichloroethane	3.45	63	7352	2.14 ug/L	98
20) cis-1,2-Dichloroethene	4.23	96	4515	2.26 ug/L	75
22) 2-Butanone	4.27	43	5601	3.84 ug/L	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081518\
 Data File : VU026156.D
 Acq On : 15 Aug 2018 19:10
 Operator : MD/SY
 Sample : MDL01
 Misc : 5.00µ/5mL/100uL/5.00mL/MSVOA_U/MEOH
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

apatel
 8/16/2018 5:15:52 PM

Quant Time: Aug 16 10:34:40 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	2255	2.09	ug/L #	81
25) Chloroform	4.68	83	9465	2.63	ug/L	100
27) 1,2-Dichloroethane	5.41	62	6757	2.32	ug/L	96
29) Cyclohexane	5.00	56	5357	2.03	ug/L	97
30) 1,1,1-Trichloroethane	4.92	97	7102	2.25	ug/L	99
31) Carbon tetrachloride	5.14	117	5881	2.06	ug/L	98
33) Benzene	5.39	78	15884	2.22	ug/L	100
34) Trichloroethene	6.19	95	4092	2.20	ug/L	91
35) Methylcyclohexane	6.42	83	5129	1.83	ug/L	100
37) 1,2-Dichloropropane	6.44	63	4593	2.30	ug/L #	87
38) Bromodichloromethane	6.76	83	5781	2.19	ug/L	92
39) cis-1,3-Dichloropropene	7.27	75	6054	2.04	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	10535	4.25	ug/L	95
42) Toluene	7.64	91	16670	2.19	ug/L	92
44) trans-1,3-Dichloropropene	7.89	75	5839m	2.04	ug/L	
45) 1,1,2-Trichloroethane	8.07	97	4011	2.12	ug/L	97
46) Tetrachloroethene	8.23	164	3443	2.14	ug/L	92
48) 2-Hexanone	8.36	43	9530	4.91	ug/L #	97
49) Dibromochloromethane	8.48	129	4781	2.10	ug/L	94
50) 1,2-Dibromoethane	8.59	107	4247	2.16	ug/L #	93
51) Chlorobenzene	9.12	112	10926	2.10	ug/L	99
52) Ethylbenzene	9.25	91	15375	1.86	ug/L	95
53) m,p-Xylene	9.38	106	5606	1.76	ug/L	96
54) o-xylene	9.78	106	5941	1.87	ug/L	85
55) Styrene	9.80	104	8683	1.64	ug/L	94
56) Isopropylbenzene	10.17	105	14177	1.74	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	7571	2.39	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	5657	2.30	ug/L	98
61) Bromoform	9.96	173	3330	2.26	ug/L #	97
62) 1,3-Dichlorobenzene	11.42	146	6732	1.99	ug/L	94
63) 1,4-Dichlorobenzene	11.51	146	7288	2.09	ug/L	86
65) 1,2-Dichlorobenzene	11.88	146	8336	2.31	ug/L	89
66) 1,2-Dibromo-3-chloropropan	12.66	75	1179	2.06	ug/L #	84
67) 1,3,5-Trichlorobenzene	12.89	180	4475m	1.79	ug/L	
68) 1,2,4-trichlorobenzene	13.51	180	2730m	1.44	ug/L	
69) Naphthalene	13.75	128	6947	1.29	ug/L #	89
70) 1,2,3-Trichlorobenzene	13.99	180	2749	1.36	ug/L #	75

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

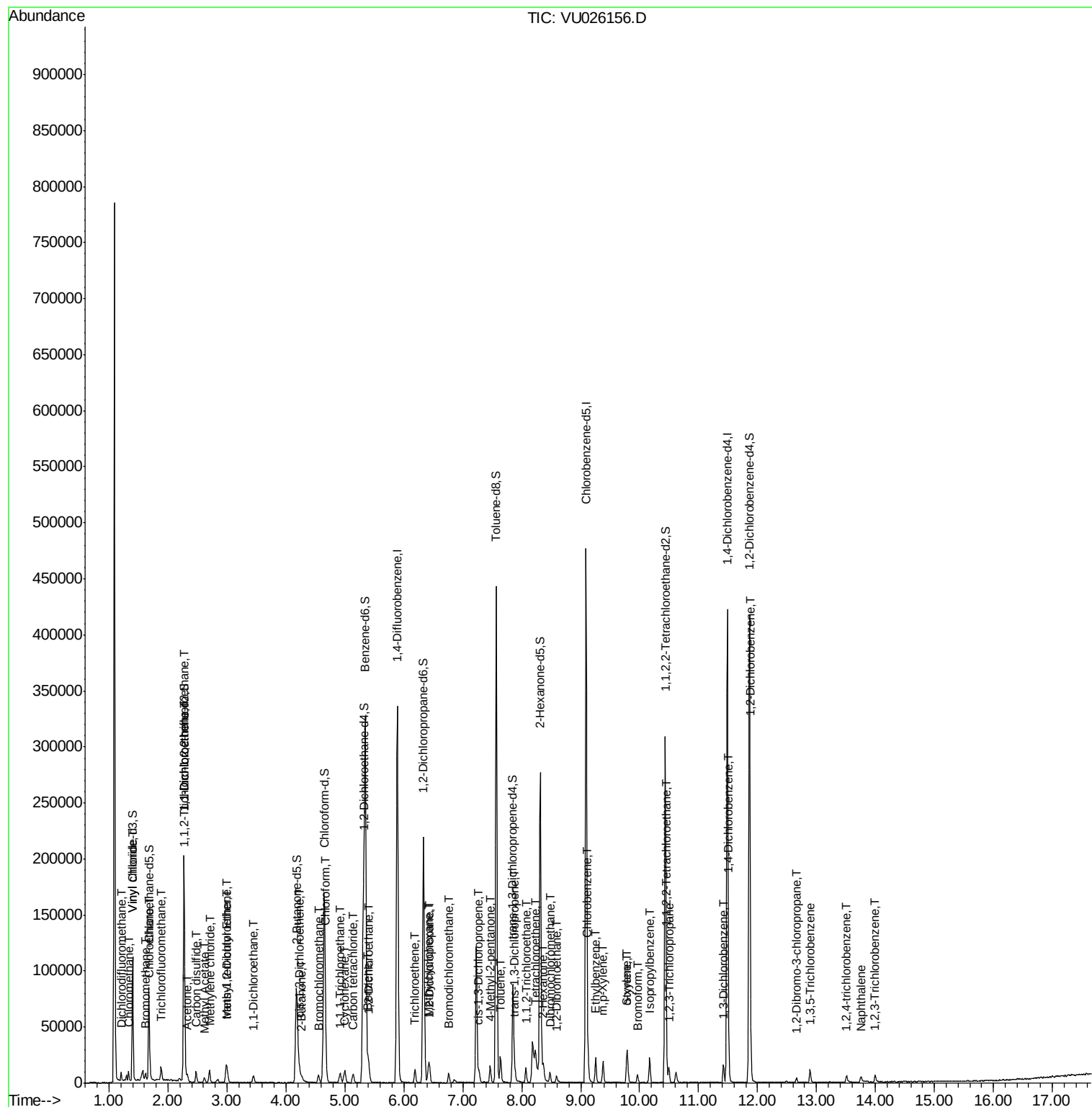
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU081518\
Data File : VU026156.D
Acq On : 15 Aug 2018 19:10
Operator : MD/SY
Sample : MDL01
Misc : 5.00µ/5mL/100uL/5.00mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

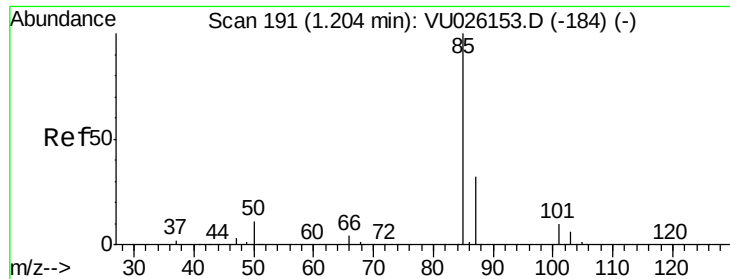
Instrument :
MSVOA_U
ClientSampleId :
MDL01

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM

Quant Time: Aug 16 10:34:40 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: 1.96 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 85 Resp: 4413

Ion Ratio Lower Upper

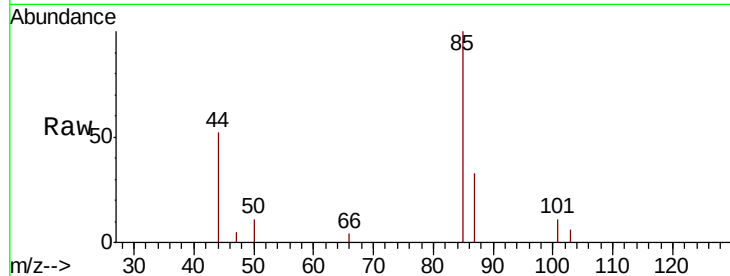
85 100

87 36.1 26.1 39.1

Manual Integrations
APPROVED

apatel

8/16/2018 5:15:52 PM



Abundance Ion 85.00 (84.70 to 85.70): VU026156.D (-98) (-)

Ion 87.00 (86.70 to 87.70): VU026156.D (-98) (-)

1.20

4000

3000

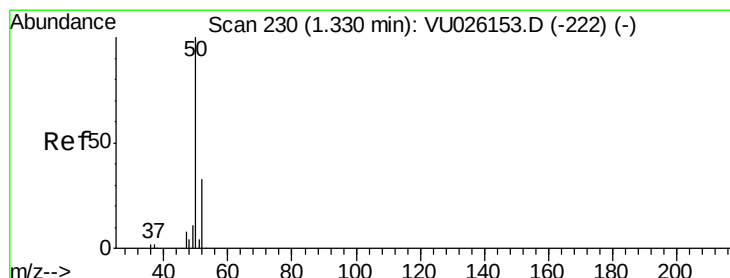
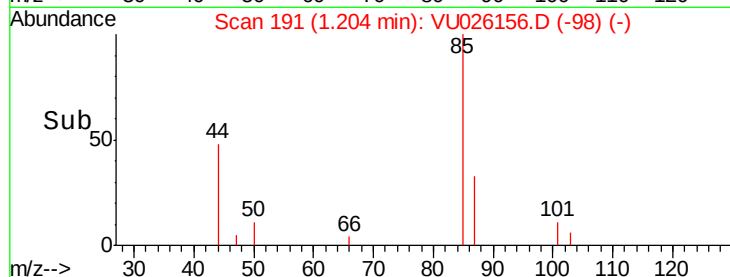
2000

1000

0

1.18 1.20 1.22 1.24

Time-->



#3

Chloromethane

Concen: 2.39 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026156.D

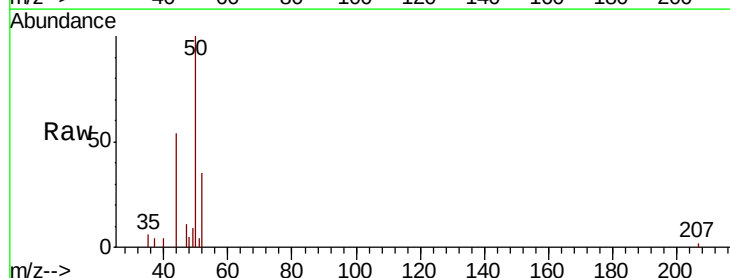
Acq: 15 Aug 2018 19:10

Tgt Ion: 50 Resp: 4891

Ion Ratio Lower Upper

50 100

52 35.1 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU026156.D (-137) (-)

Ion 52.00 (51.70 to 52.70): VU026156.D (-137) (-)

1.33

4000

3000

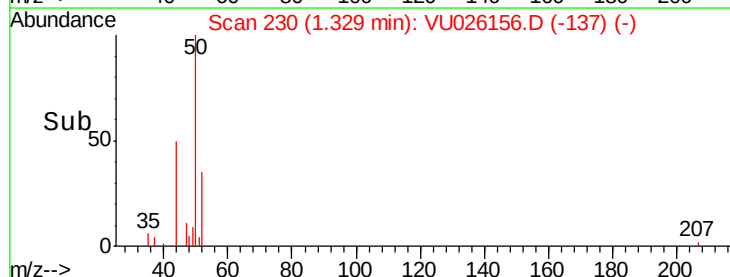
2000

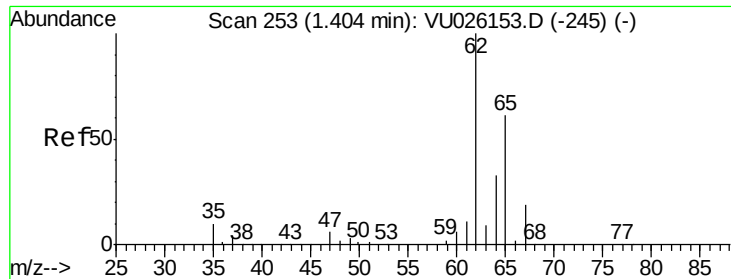
1000

0

1.30 1.32 1.34 1.36

Time-->





#5

Vinyl chloride

Concen: 2.26 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 62 Resp: 4630

Ion Ratio Lower Upper

62 100

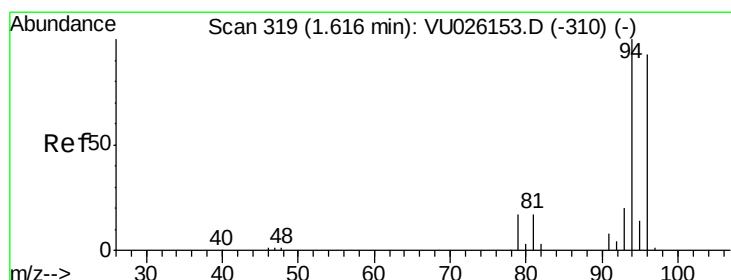
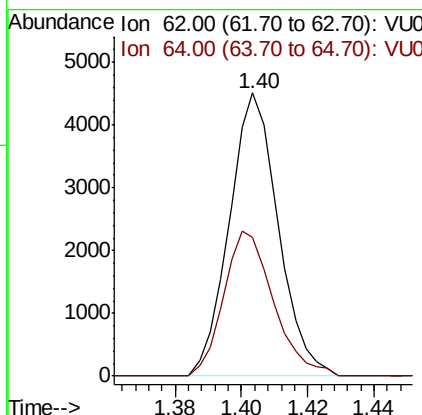
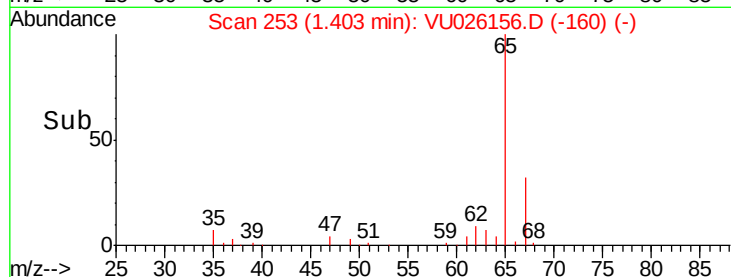
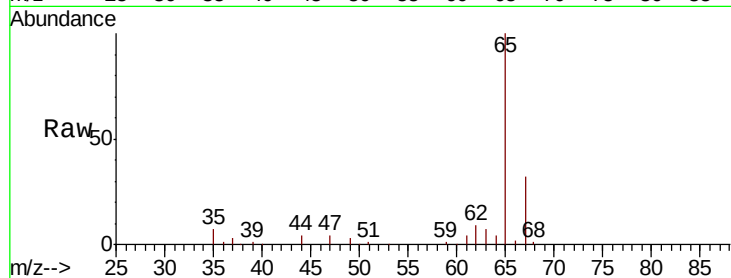
64 49.0 23.0 42.8#

Manual Integrations

APPROVED

apatel

8/16/2018 5:15:52 PM



#6

Bromomethane

Concen: 2.39 ug/L

RT: 1.62 min Scan# 320

Delta R.T. 0.00 min

Lab File: VU026156.D

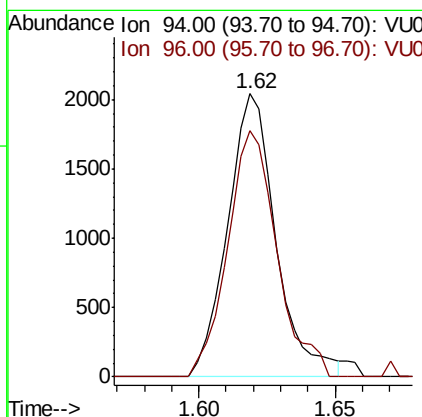
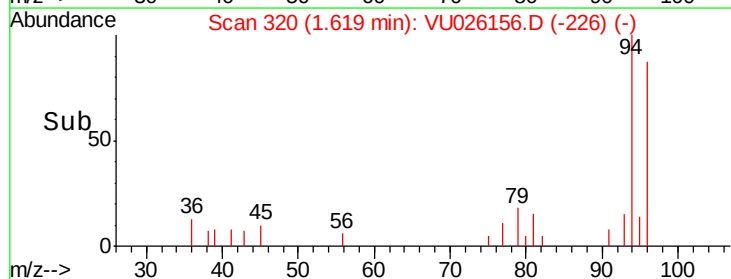
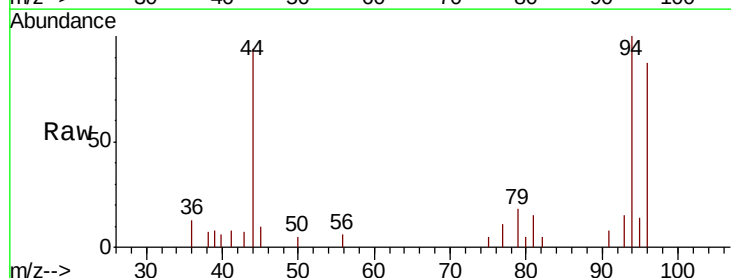
Acq: 15 Aug 2018 19:10

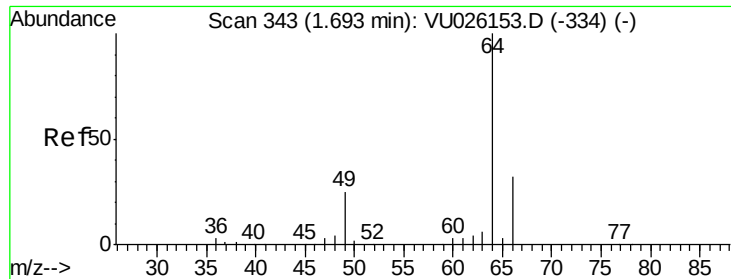
Tgt Ion: 94 Resp: 2515

Ion Ratio Lower Upper

94 100

96 87.0 65.9 122.5





#8

Chloroethane

Concen: 2.17 ug/L

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 64 Resp: 2659

Ion Ratio Lower Upper

64 100

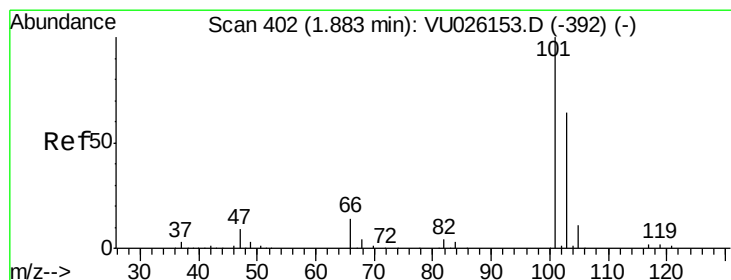
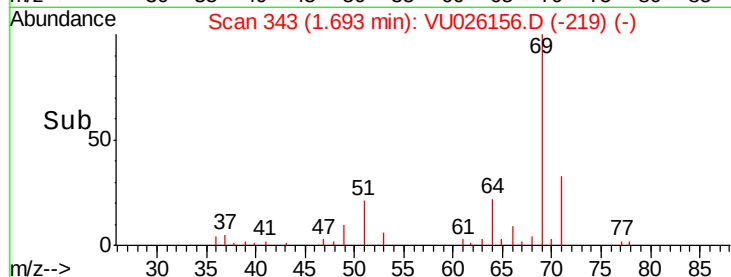
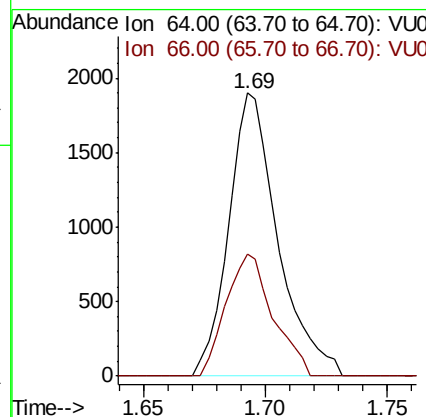
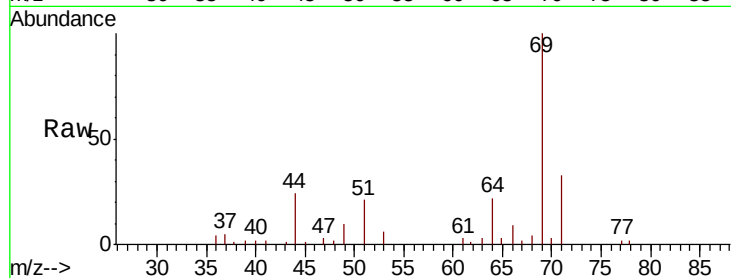
66 43.1 22.2 41.2#

Manual Integrations

APPROVED

apatel

8/16/2018 5:15:52 PM



#9

Trichlorofluoromethane

Concen: 2.02 ug/L

RT: 1.88 min Scan# 402

Delta R.T. -0.00 min

Lab File: VU026156.D

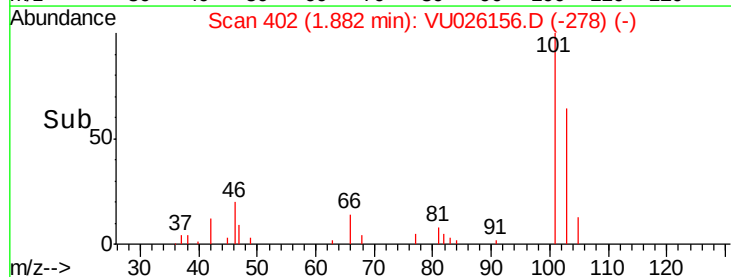
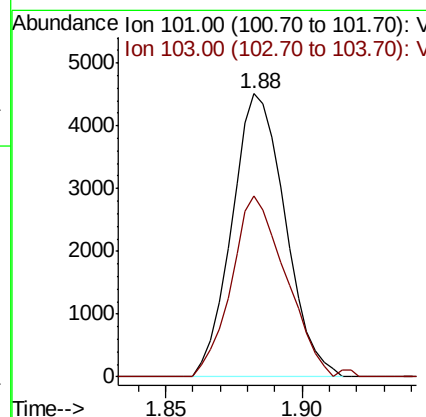
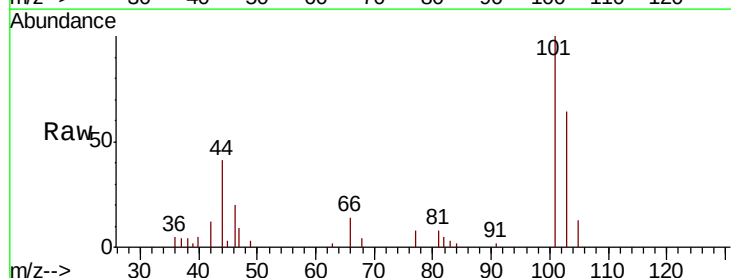
Acq: 15 Aug 2018 19:10

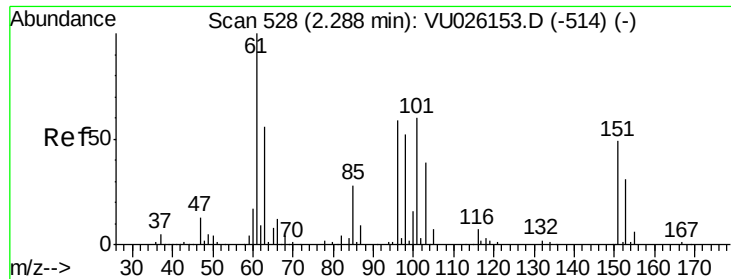
Tgt Ion: 101 Resp: 6111

Ion Ratio Lower Upper

101 100

103 65.1 51.4 77.2





#10

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

Concen: 2.69 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

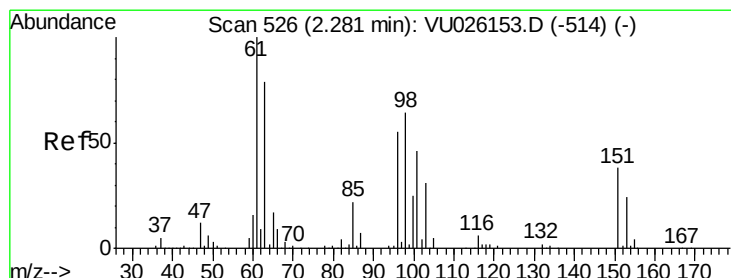
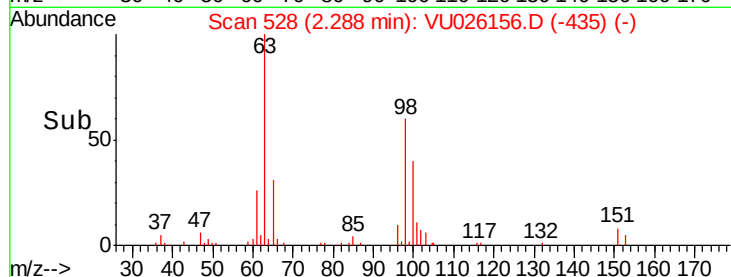
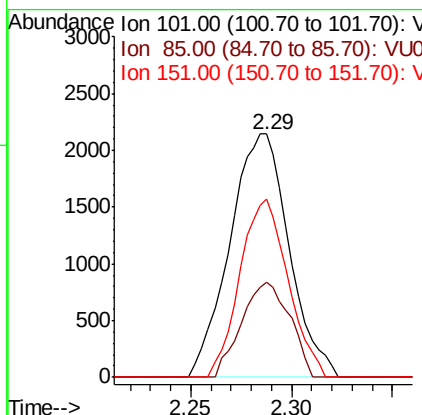
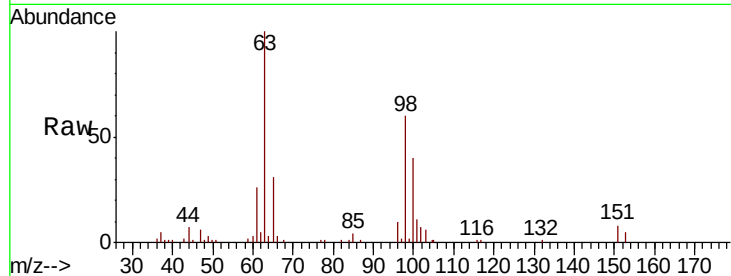
ClientSampled :

MDL01

Tot Ion:	101	Resp:	4394
Ion Ratio	Lower	Upper	
101	100		
85	32.1	36.6	55.0#
151	59.6	63.8	95.8#

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#12

1,1-Dichloroethene

Concen: 2.64 ug/L

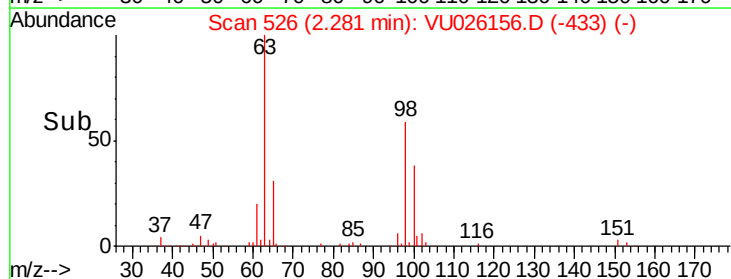
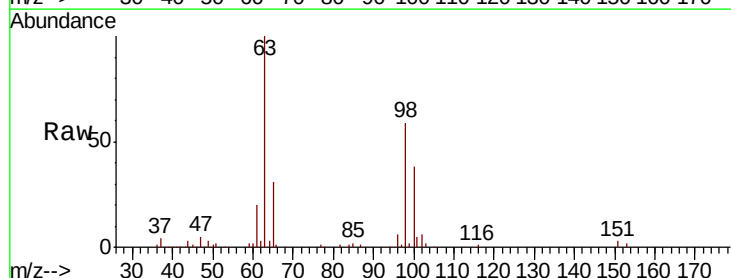
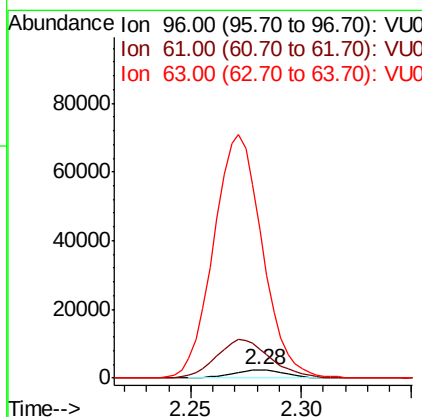
RT: 2.28 min Scan# 526

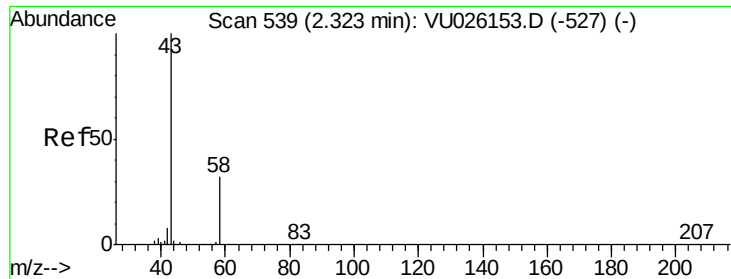
Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion:	96	Resp:	3959
Ion Ratio	Lower	Upper	
96	100		
61	343.7	126.8	235.4#
63	1754.5	97.0	180.2#





#13

Acetone

Concen: 4.49 ug/L

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 5262

Ion Ratio Lower Upper

43 100

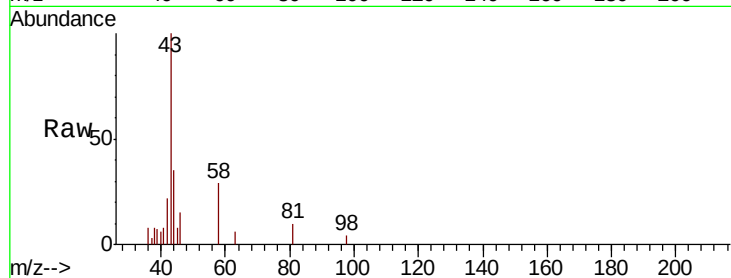
58 27.5 0.0 62.6

Manual Integrations

APPROVED

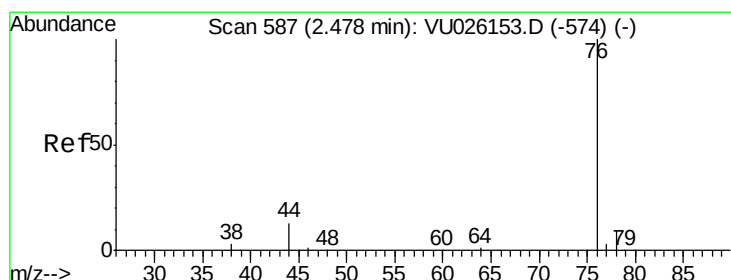
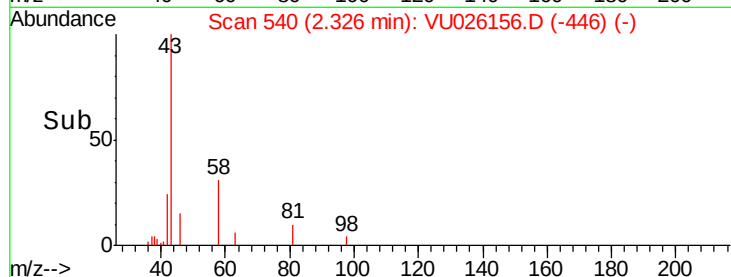
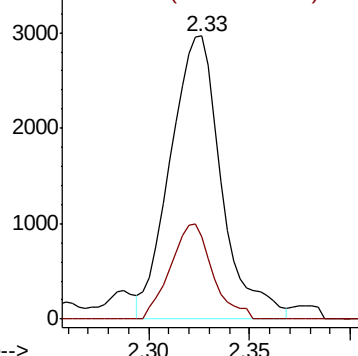
apatel

8/16/2018 5:15:52 PM



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 2.15 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026156.D

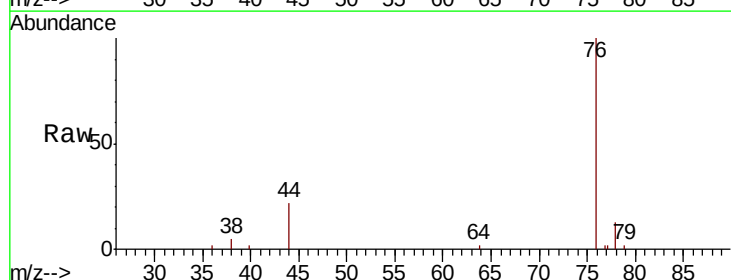
Acq: 15 Aug 2018 19:10

Tgt Ion: 76 Resp: 11187

Ion Ratio Lower Upper

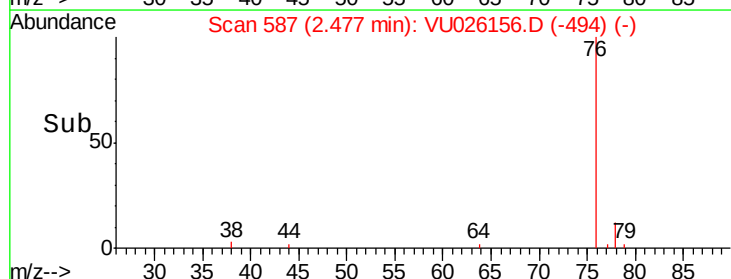
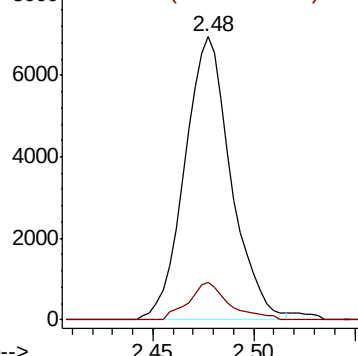
76 100

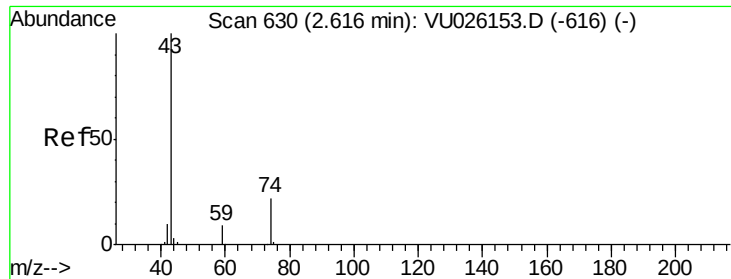
78 13.4 7.4 11.2#



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





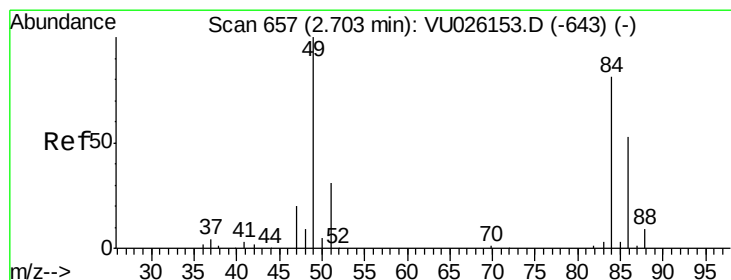
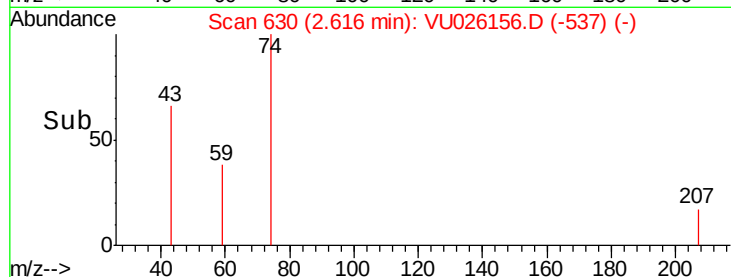
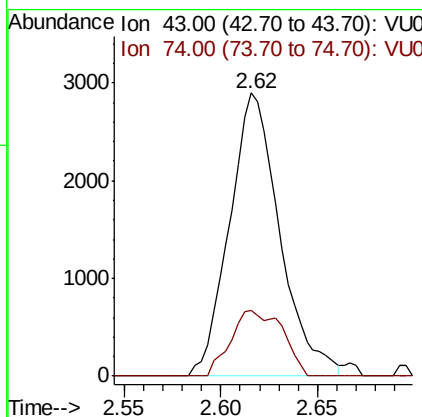
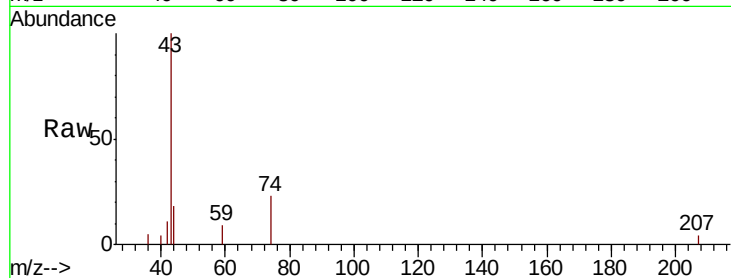
#15
Methvl Acetate
Concen: 2.58 ug/L
RT: 2.62 min Scan# 630
Delta R.T. -0.00 min
Lab File: VU026156.D
Acq: 15 Aug 2018 19:10

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion: 43 Resp: 5238
Ion Ratio Lower Upper
43 100
74 15.0 18.6 28.0#

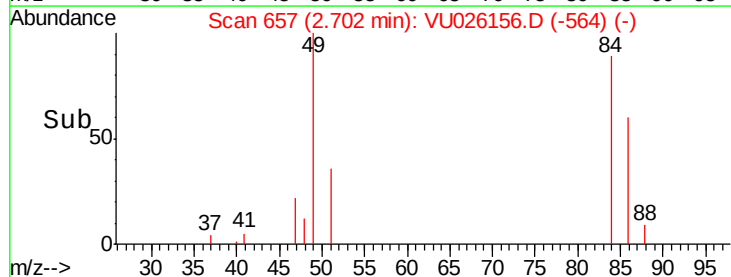
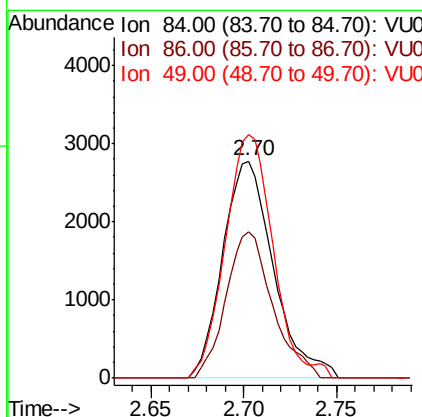
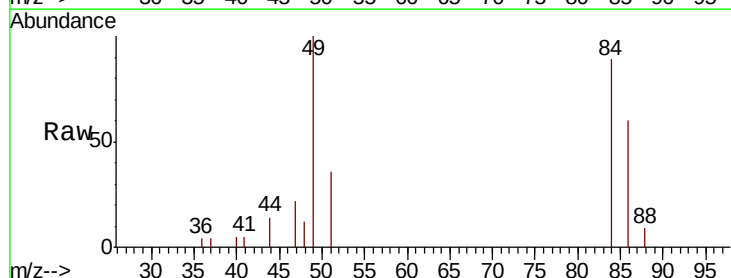
Manual Integrations
APPROVED

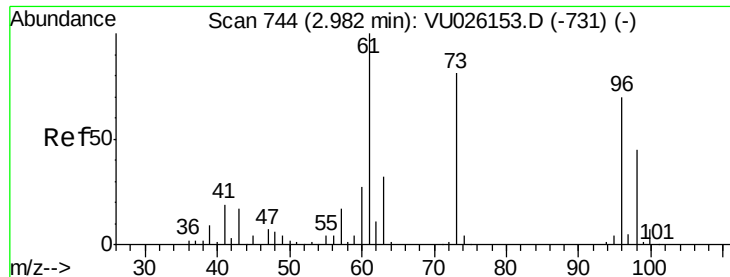
apatel
8/16/2018 5:15:52 PM



#16
Methylene chloride
Concen: 2.63 ug/L
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU026156.D
Acq: 15 Aug 2018 19:10

Tgt Ion: 84 Resp: 5284
Ion Ratio Lower Upper
84 100
86 67.2 44.0 81.6
49 112.1 87.7 162.9





#17

trans-1,2-Dichloroethene

Concen: 2.09 ug/L

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

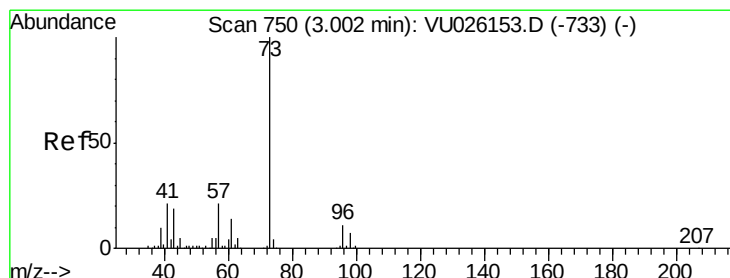
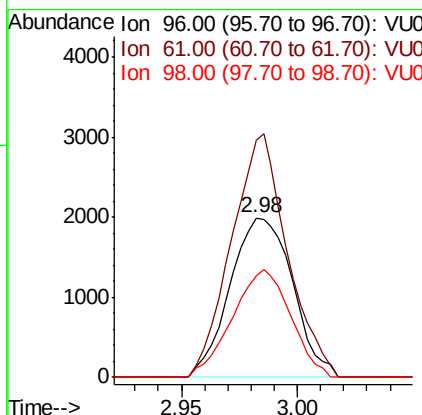
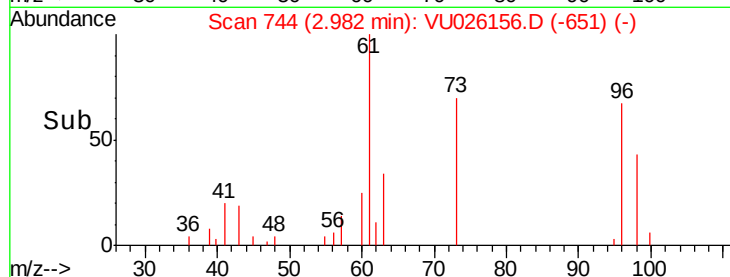
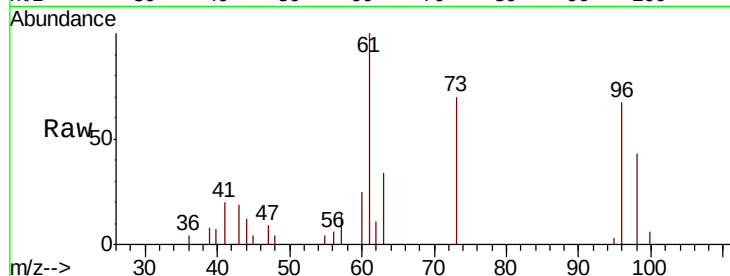
ClientSampled :

MDL01

Tot Ion:	96	Resp:	3720
Ion	Ratio	Lower	Upper
96	100		
61	148.8	96.7	179.5
98	63.8	43.6	81.0

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#18

Methyl tert-butyl Ether

Concen: 1.98 ug/L

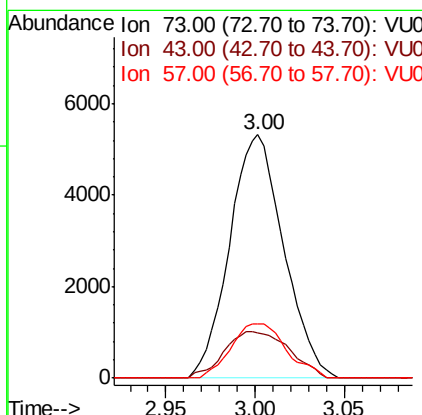
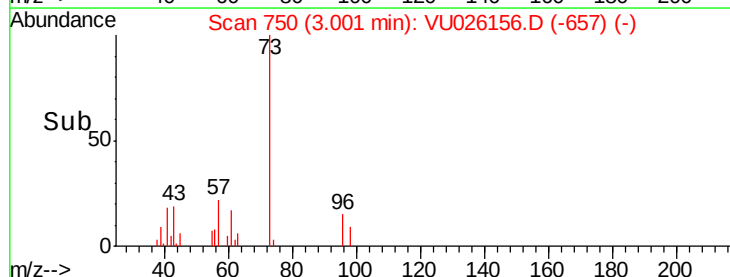
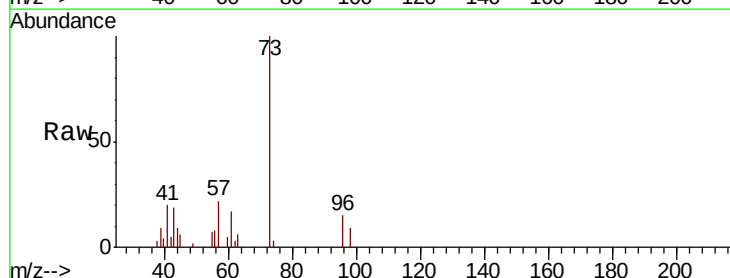
RT: 3.00 min Scan# 750

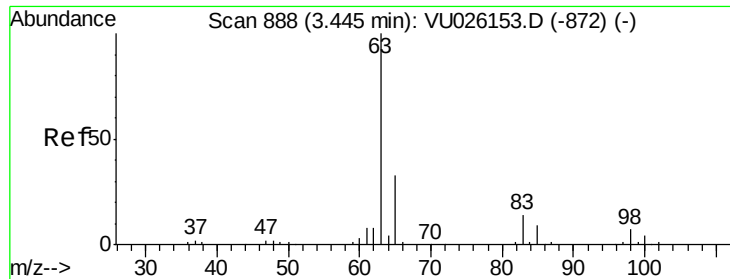
Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion:	73	Resp:	11212
Ion	Ratio	Lower	Upper
73	100		
43	23.0	16.2	24.4
57	22.9	18.2	27.2





#19

1,1-Dichloroethane

Concen: 2.14 ug/L

RT: 3.45 min Scan# 890

Delta R.T. 0.01 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

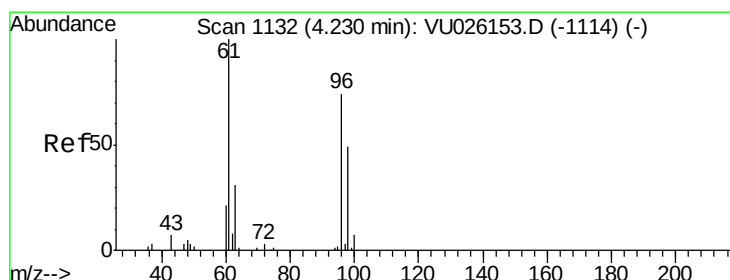
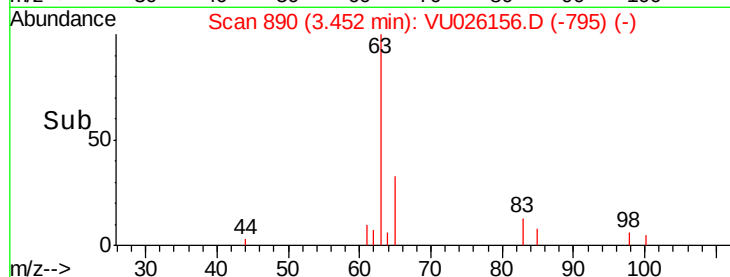
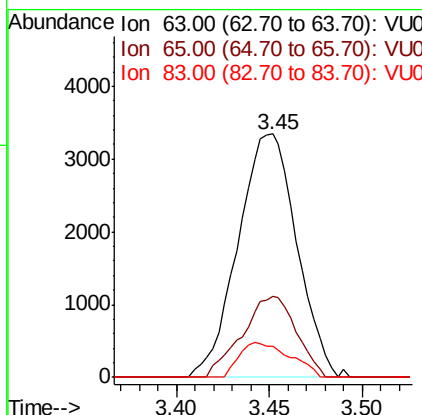
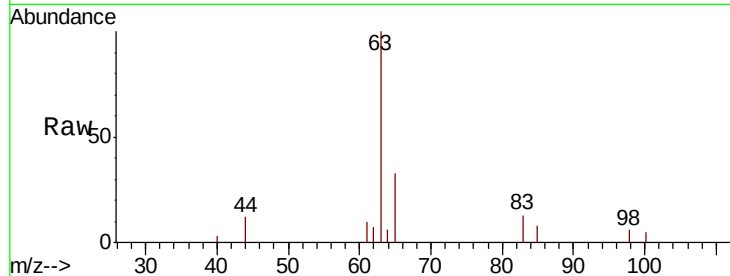
ClientSampled :

MDL01

Tot Ion:	63	Resp:	7352
Ion	Ratio	Lower	Upper
63	100		
65	33.1	22.1	41.1
83	12.6	9.4	17.4

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#20

cis-1,2-Dichloroethene

Concen: 2.26 ug/L

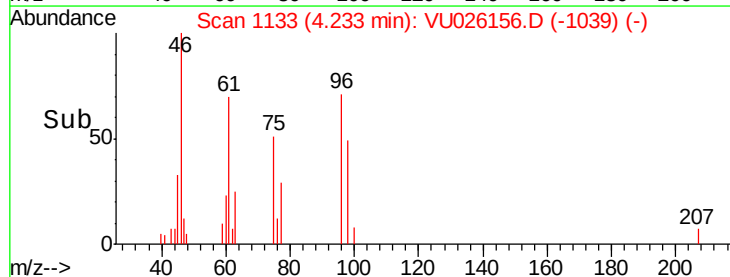
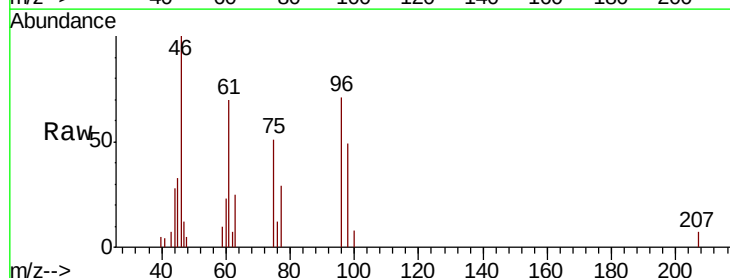
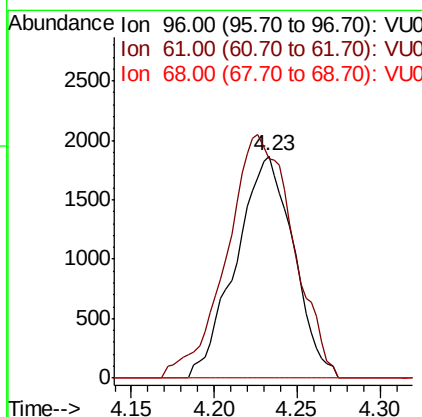
RT: 4.23 min Scan# 1133

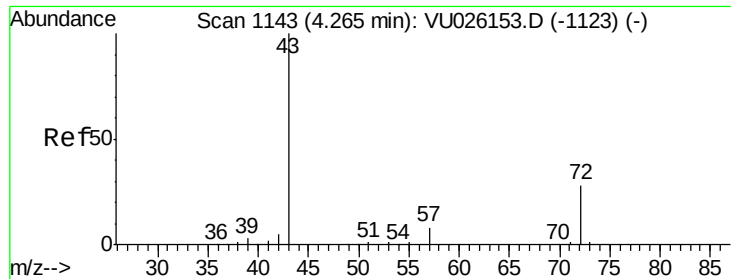
Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion:	96	Resp:	4515
Ion	Ratio	Lower	Upper
96	100		
61	98.4	88.6	164.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.84 ug/L

RT: 4.27 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 43 Resp: 5601

Ion Ratio Lower Upper

43 100

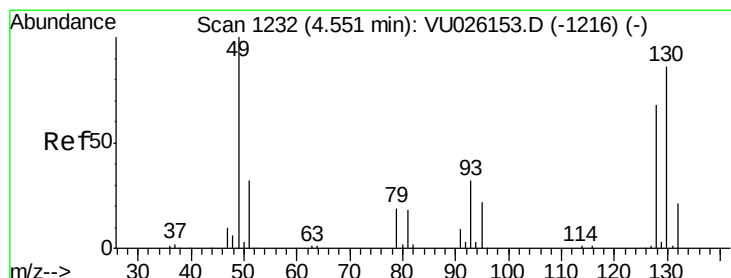
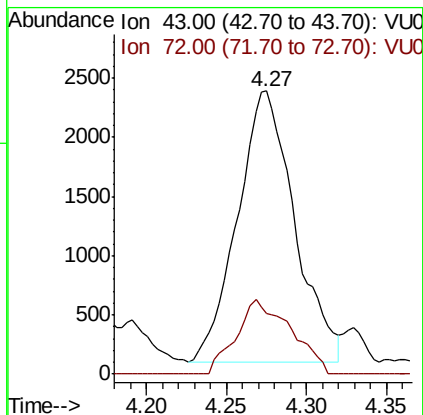
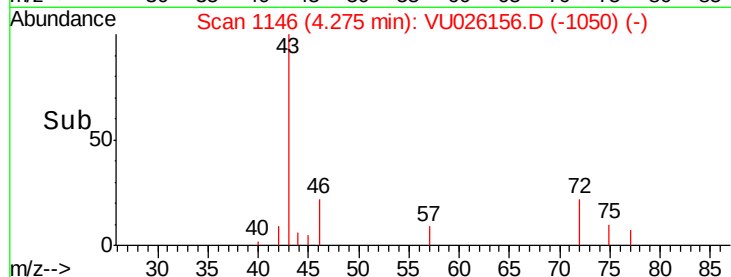
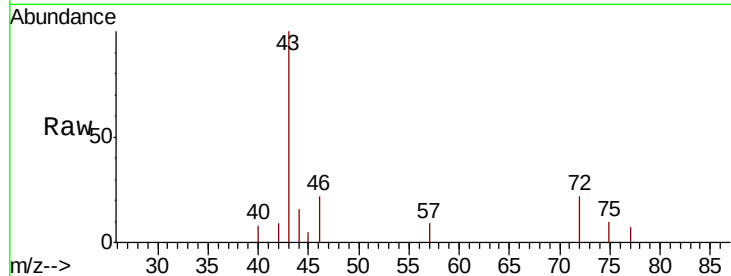
72 26.4 13.4 40.1

Manual Integrations

APPROVED

apatel

8/16/2018 5:15:52 PM



#23

Bromochloromethane

Concen: 2.09 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion: 128 Resp: 2255

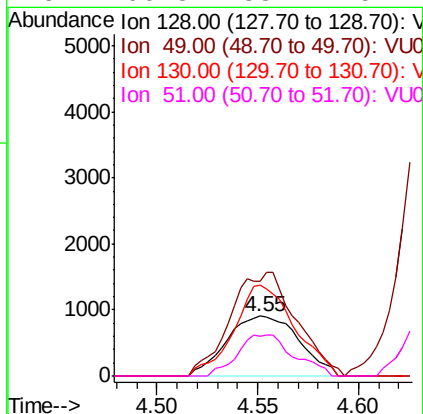
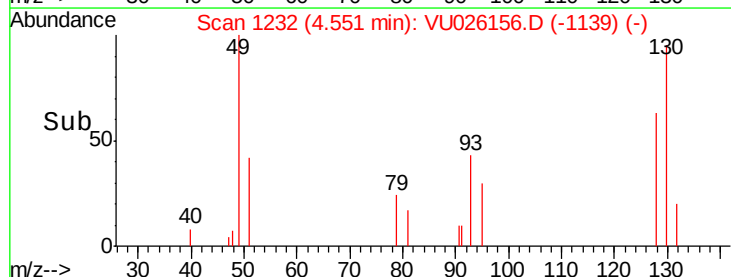
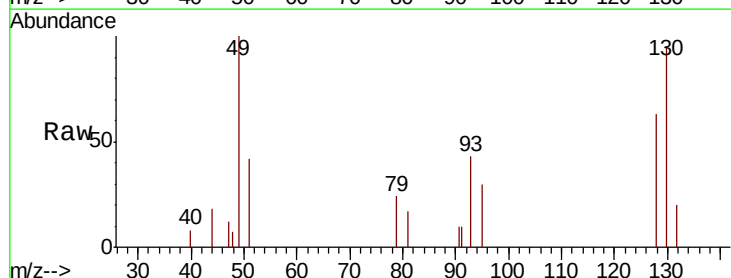
Ion Ratio Lower Upper

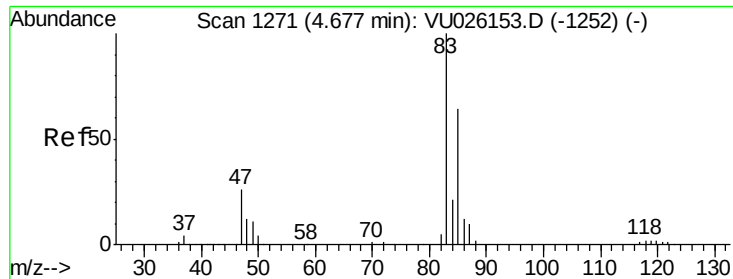
128 100

49 158.7 101.3 188.1

130 150.8 86.4 160.4

51 66.8 38.1 57.1#





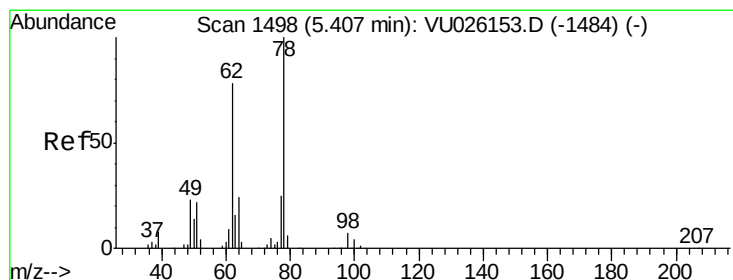
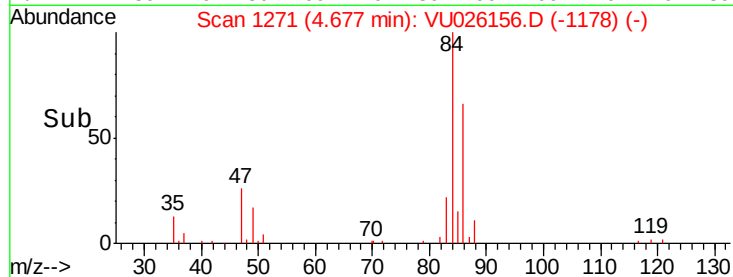
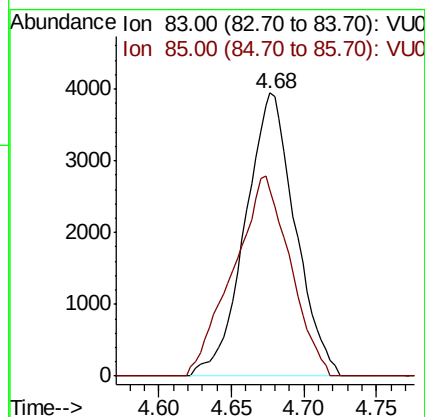
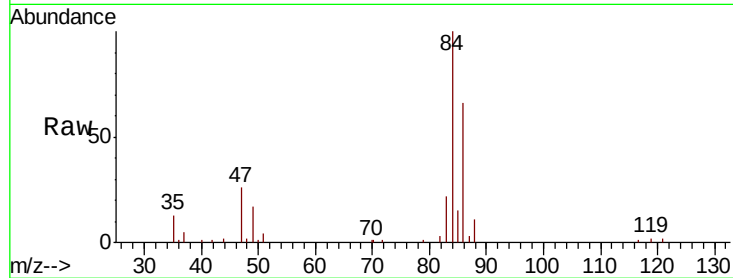
#25
Chloroform
Concen: 2.63 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU026156.D
Acq: 15 Aug 2018 19:10

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	83	Resp	9465
Ion Ratio	100	Lower	Upper
85	65.9	46.3	86.1

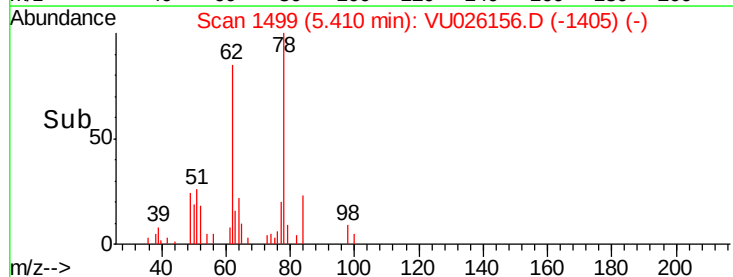
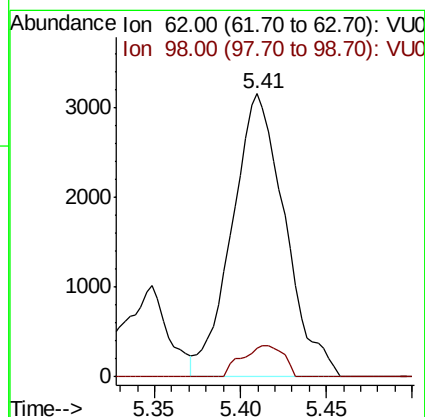
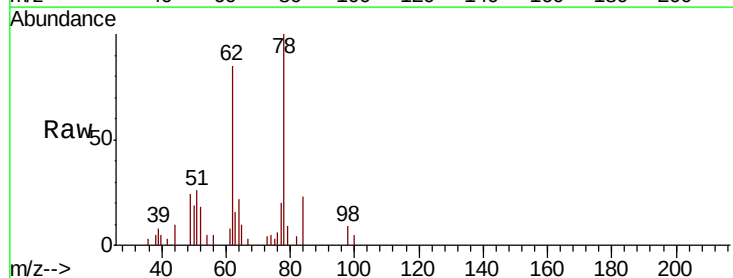
Manual Integrations
APPROVED

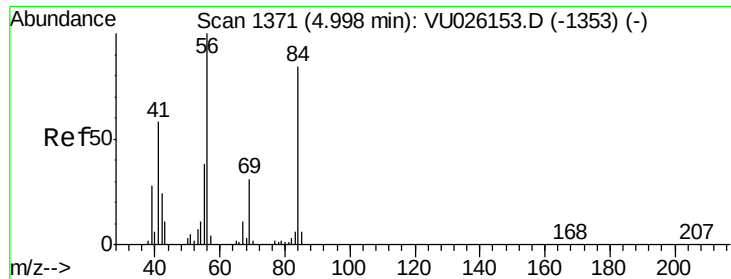
apatel
8/16/2018 5:15:52 PM



#27
1,2-Dichloroethane
Concen: 2.32 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU026156.D
Acq: 15 Aug 2018 19:10

Tgt Ion	62	Resp	6757
Ion Ratio	100	Lower	Upper
98	10.1	7.0	10.4





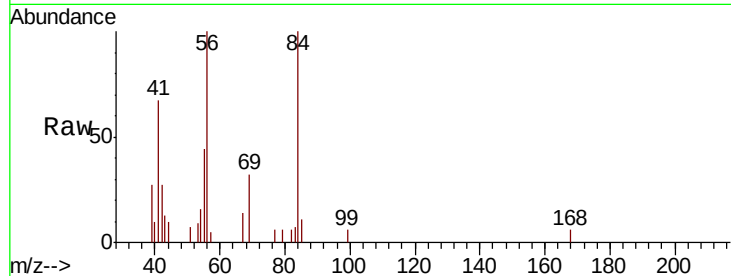
#29
Cyclohexane
Concen: 2.03 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU026156.D
Acq: 15 Aug 2018 19:10

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.0	24.1	36.1
84	88.5	68.6	102.8

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM

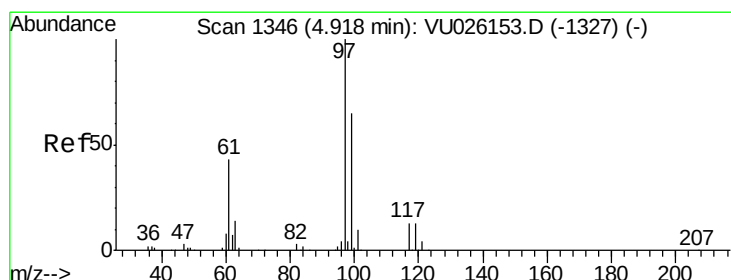
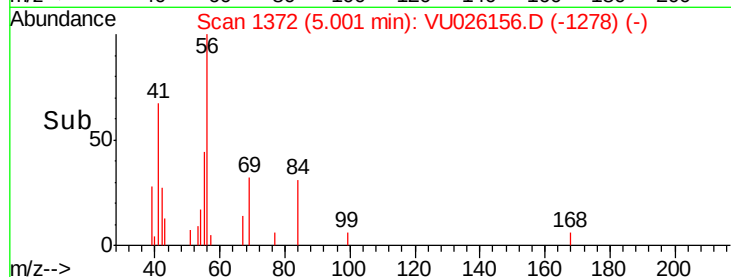
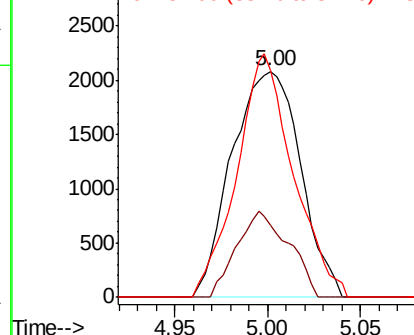


Abundance

Ion 56.00 (55.70 to 56.70): VU0

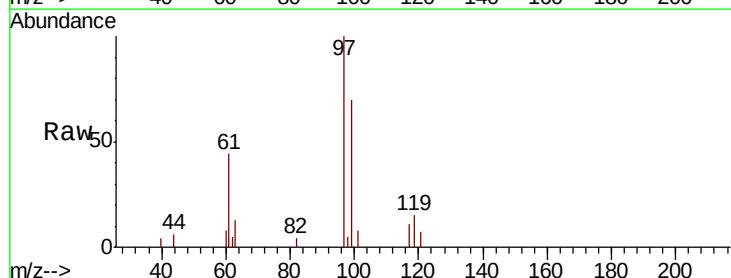
Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#30
1,1,1-Trichloroethane
Concen: 2.25 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU026156.D
Acq: 15 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	52.2	78.2
61	44.1	35.4	53.0

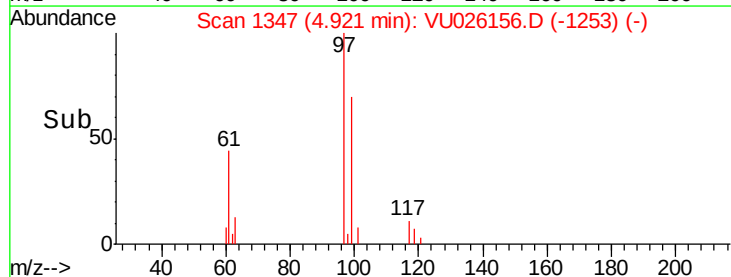
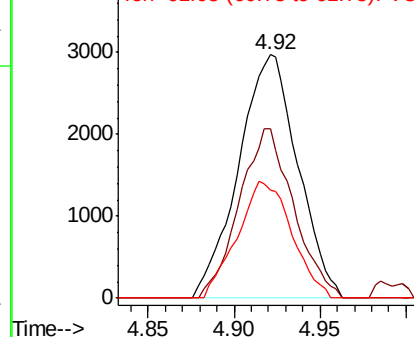


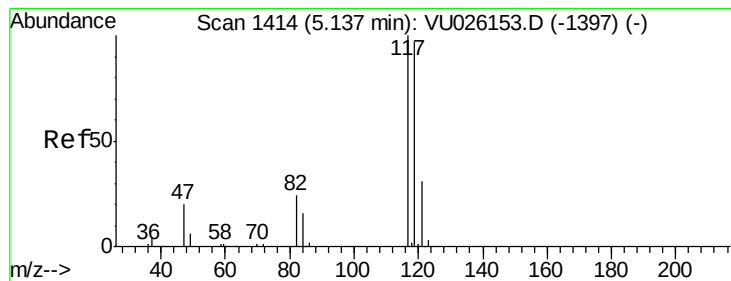
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 2.06 ug/L

RT: 5.14 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion:117 Resp: 5881

Ion Ratio Lower Upper

117 100

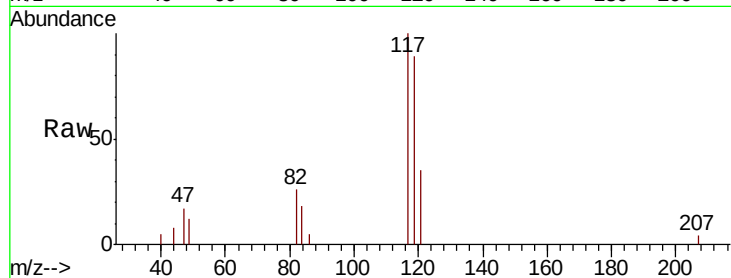
119 98.7 77.4 116.2

Manual Integrations

APPROVED

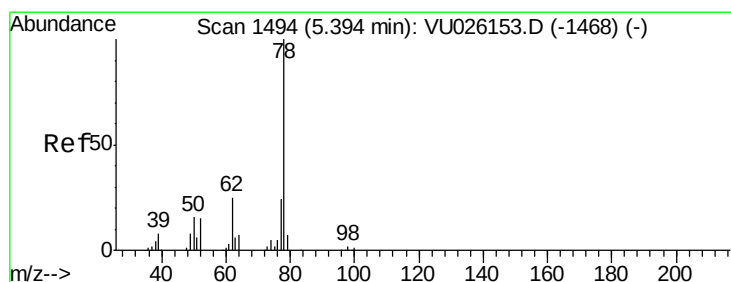
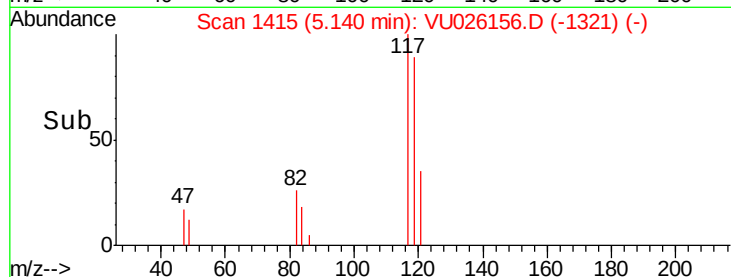
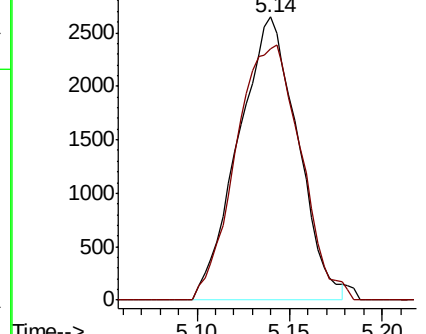
apatel

8/16/2018 5:15:52 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.22 ug/L

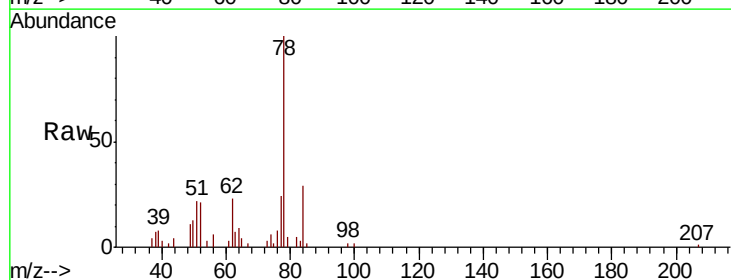
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion: 78 Resp: 15884



Abundance Ion 78.00 (77.70 to 78.70): VU0

8000

6000

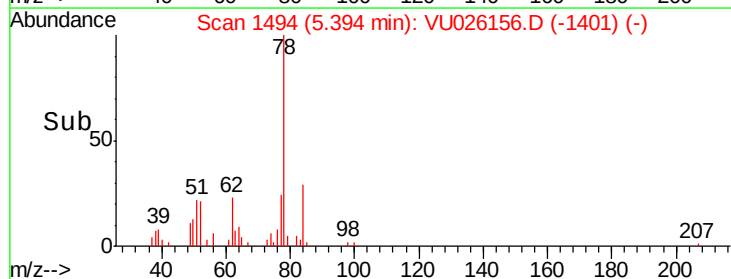
4000

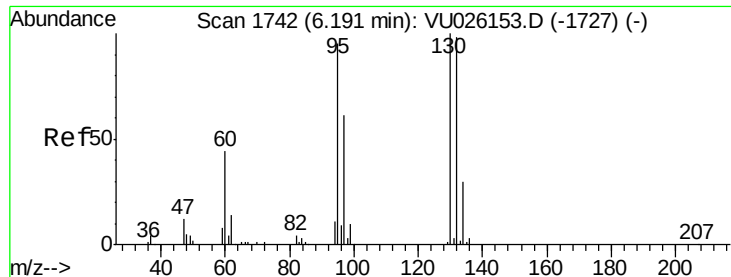
2000

0

5.35 5.40 5.45

Time-->





#34

Trichloroethene

Concen: 2.20 ug/L

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

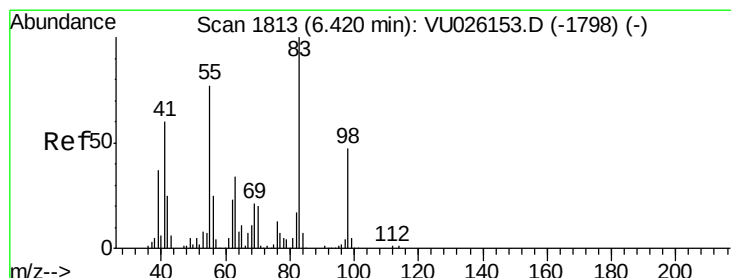
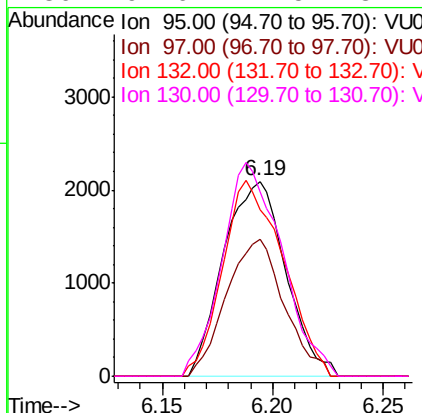
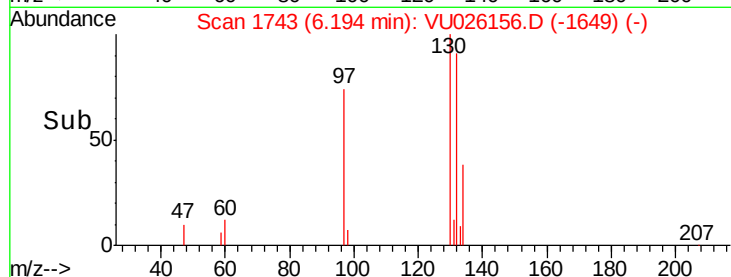
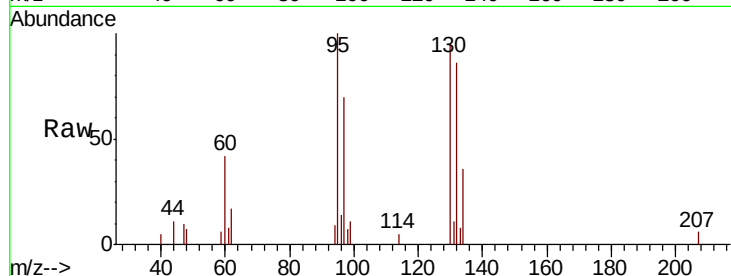
ClientSampled :

MDL01

Tot Ion:	95	Resp:	4092
Ion	Ratio	Lower	Upper
95	100		
97	70.4	45.7	84.9
132	85.6	68.8	127.8
130	94.6	71.5	132.7

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#35

Methylcyclohexane

Concen: 1.83 ug/L

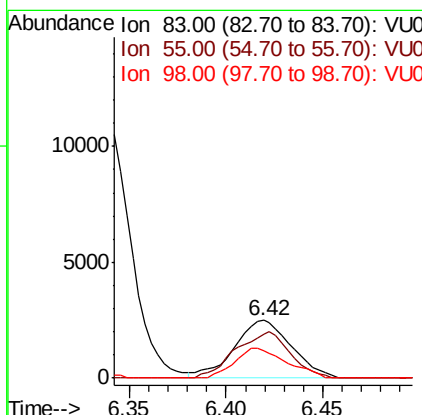
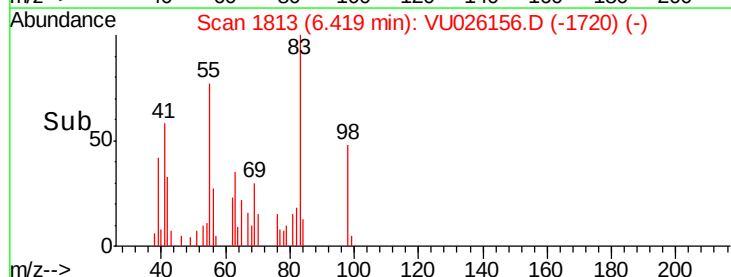
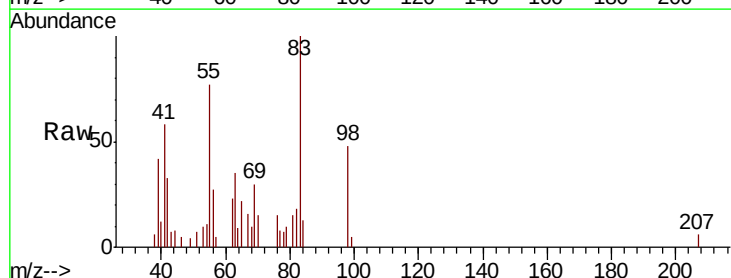
RT: 6.42 min Scan# 1813

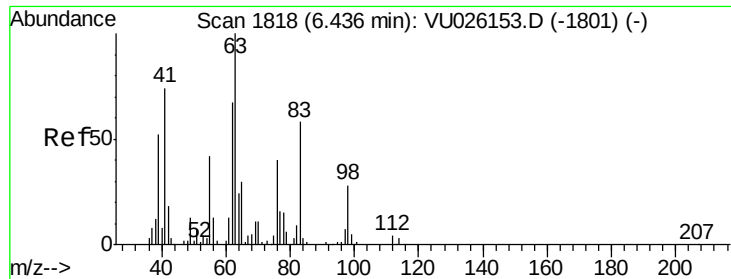
Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion:	83	Resp:	5129
Ion	Ratio	Lower	Upper
83	100		
55	76.0	61.0	91.6
98	46.8	37.6	56.4





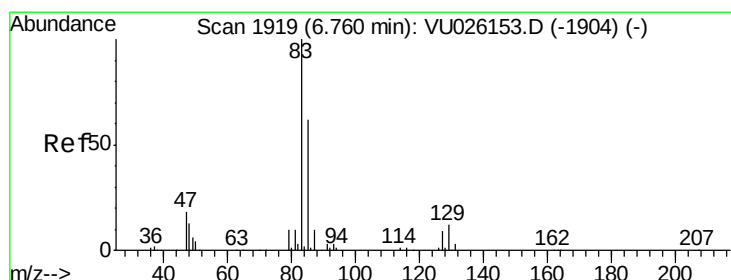
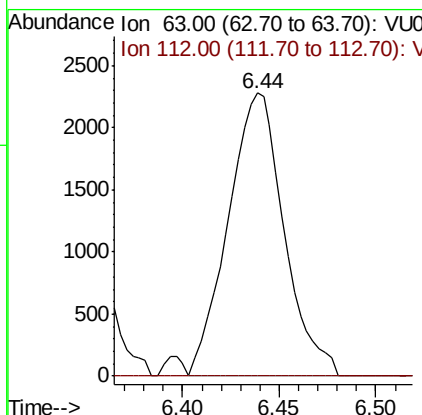
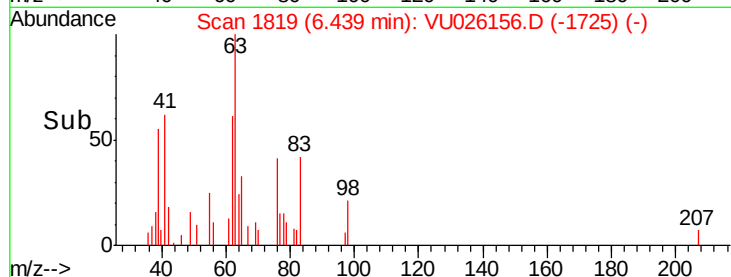
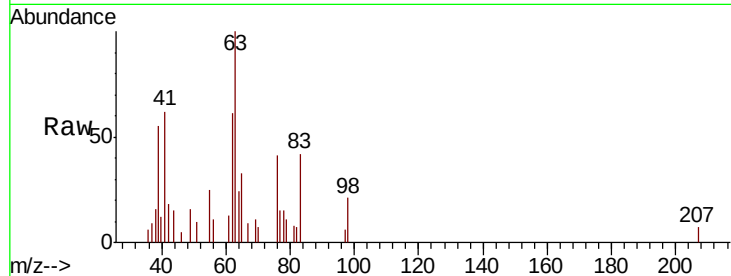
#37
 1,2-Dichloropropane
 Concen: 2.30 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU026156.D
 Acq: 15 Aug 2018 19:10

Instrument :
 MSVOA_U
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 4593
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#

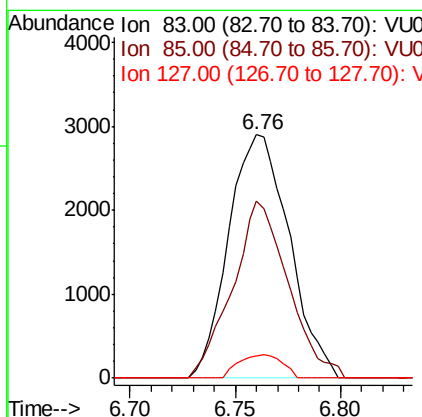
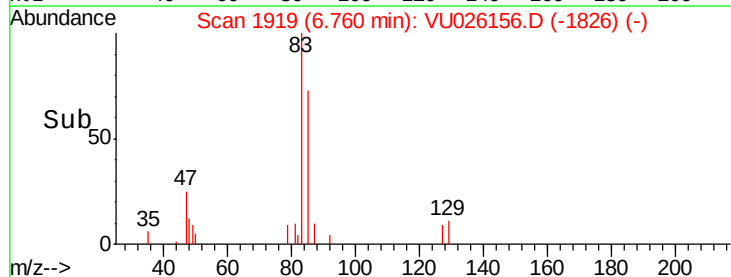
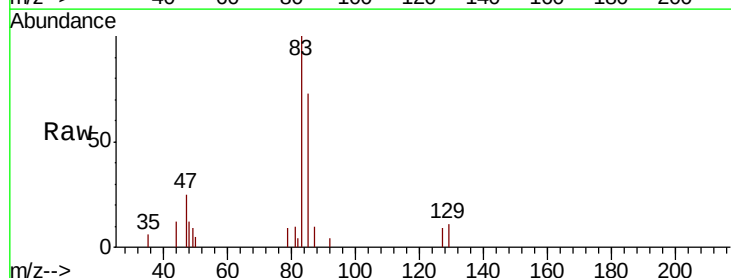
Manual Integrations
 APPROVED

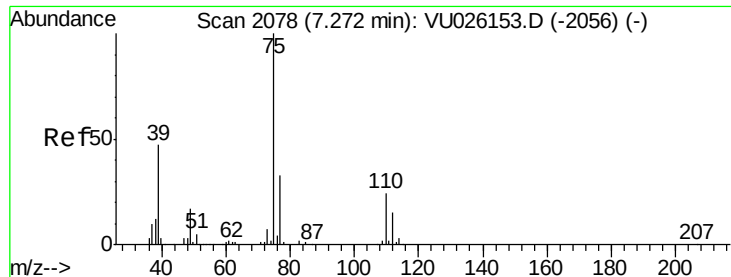
apatel
 8/16/2018 5:15:52 PM



#38
 Bromodichloromethane
 Concen: 2.19 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. -0.00 min
 Lab File: VU026156.D
 Acq: 15 Aug 2018 19:10

Tgt Ion: 83 Resp: 5781
 Ion Ratio Lower Upper
 83 100
 85 72.8 46.0 85.4
 127 9.4 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 2.04 ug/L

RT: 7.27 min Scan# 2079

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 75 Resp: 6054

Ion Ratio Lower Upper

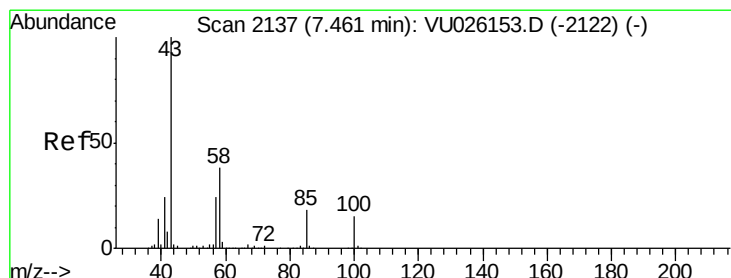
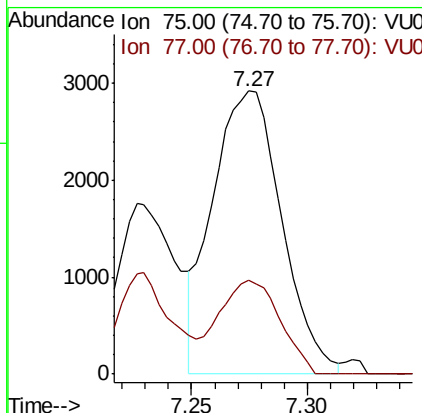
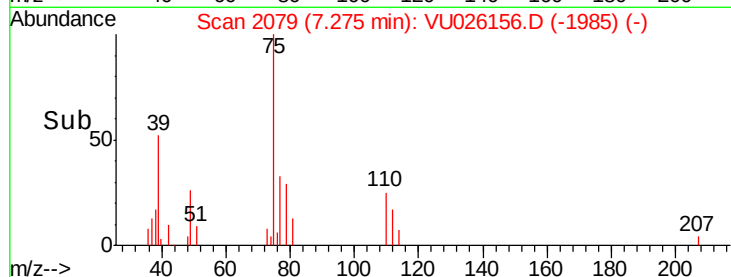
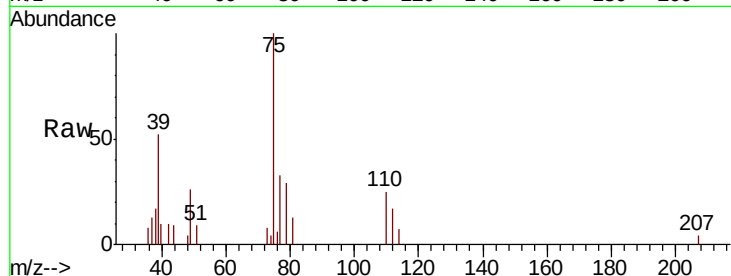
75 100

77 33.0 22.2 41.2

Manual Integrations
APPROVED

apatel

8/16/2018 5:15:52 PM



#40

4-Methyl-2-pentanone

Concen: 4.25 ug/L

RT: 7.46 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

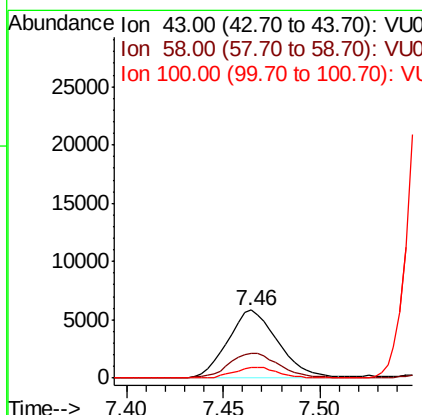
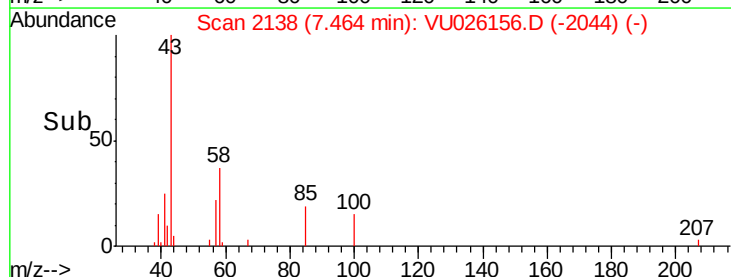
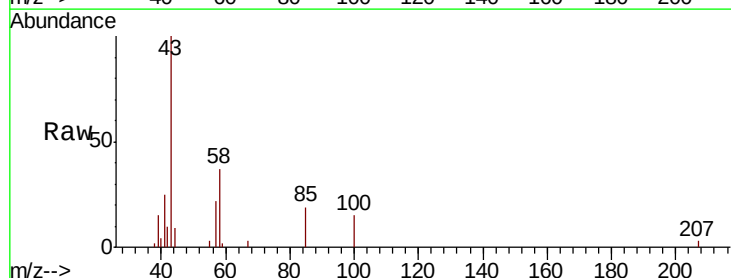
Tgt Ion: 43 Resp: 10535

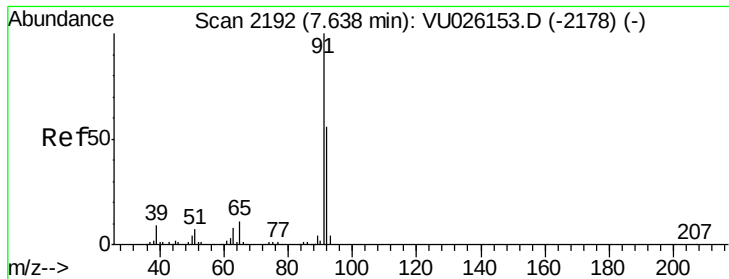
Ion Ratio Lower Upper

43 100

58 36.6 31.8 47.8

100 13.8 12.2 18.2





#42

Toluene

Concen: 2.19 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 91 Resp: 16670

Ion Ratio Lower Upper

91 100

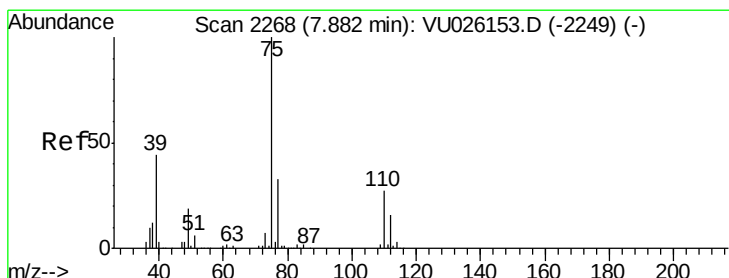
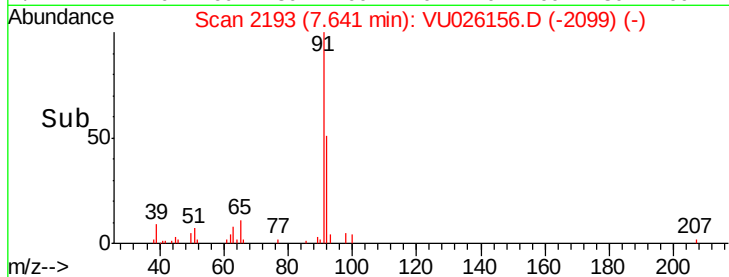
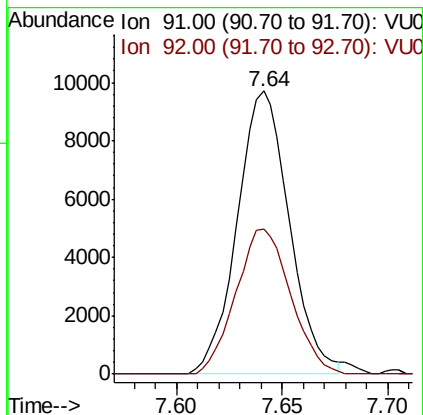
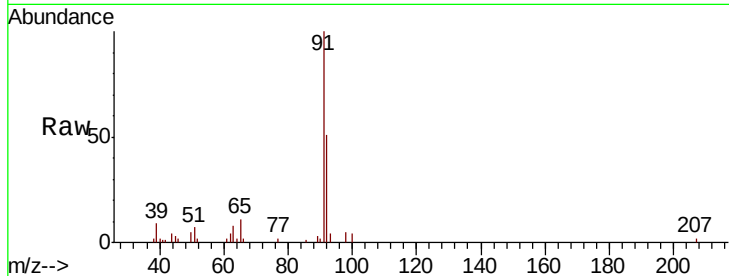
92 51.1 40.0 74.4

Manual Integrations

APPROVED

apatel

8/16/2018 5:15:52 PM



#44

trans-1,3-Dichloropropene

Concen: 2.04 ug/L m

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU026156.D

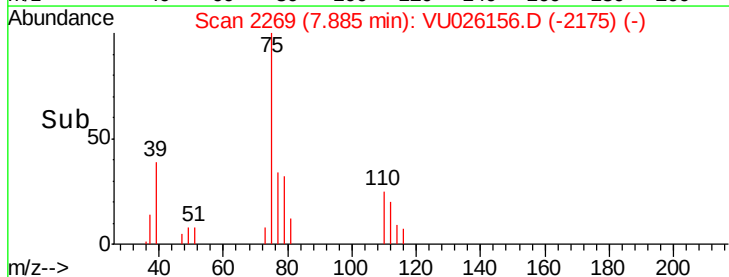
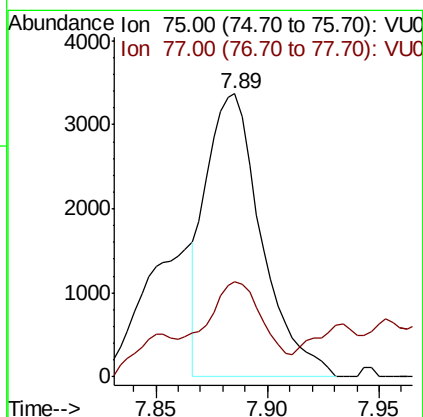
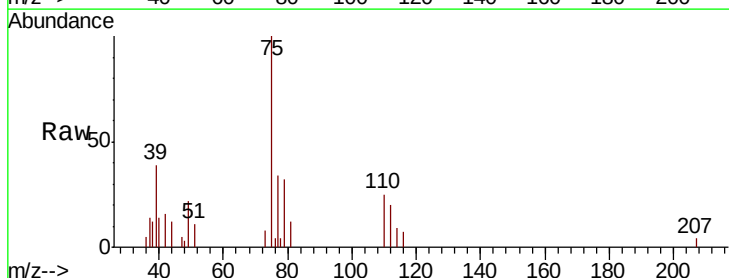
Acq: 15 Aug 2018 19:10

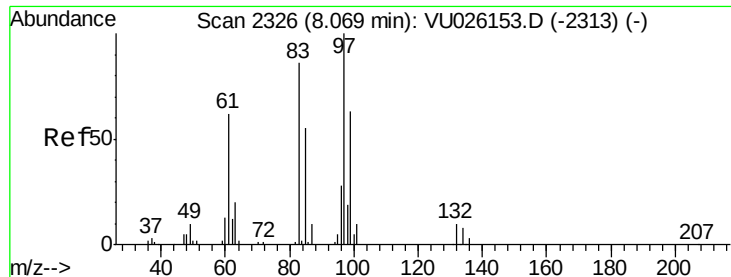
Tgt Ion: 75 Resp: 5839

Ion Ratio Lower Upper

75 100

77 33.8 22.0 41.0





#45

1,1,2-Trichloroethane

Concen: 2.12 ug/L

RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

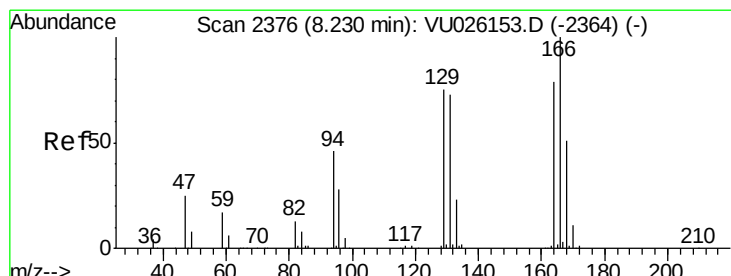
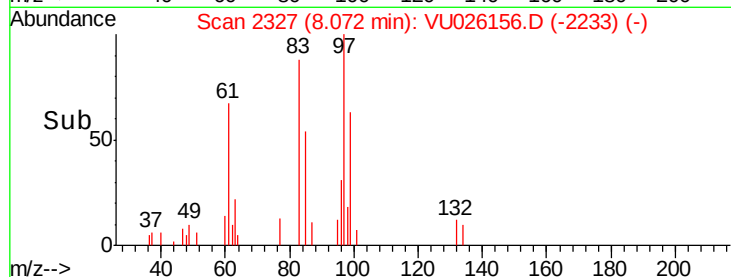
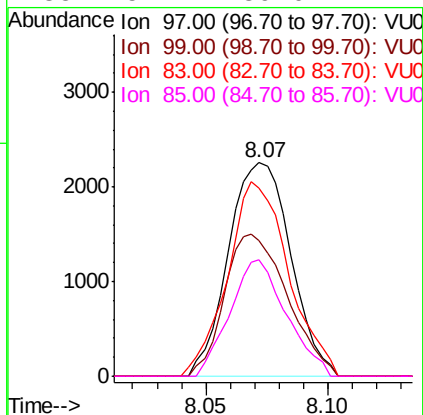
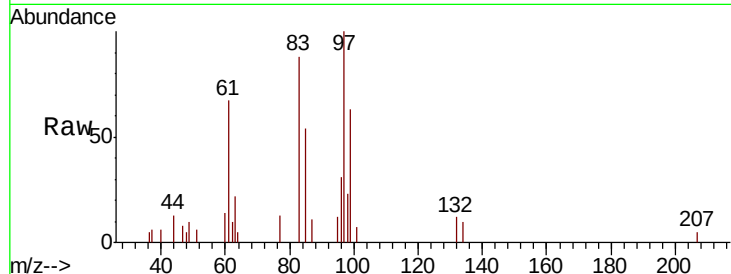
ClientSampled :

MDL01

Tot Ion:	97	Resp:	4011
Ion	Ratio	Lower	Upper
97	100		
99	63.4	43.3	80.5
83	88.3	58.4	108.6
85	54.4	39.0	72.4

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#46

Tetrachloroethene

Concen: 2.14 ug/L

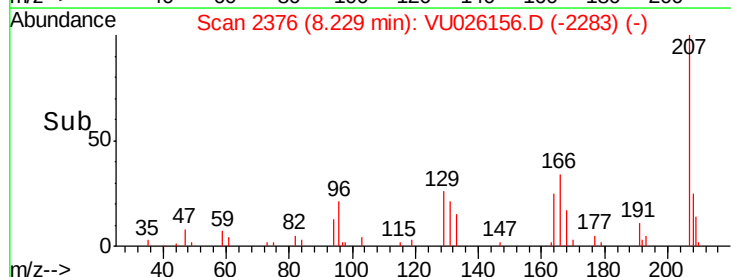
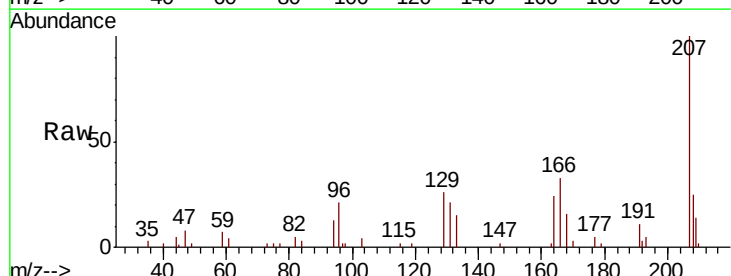
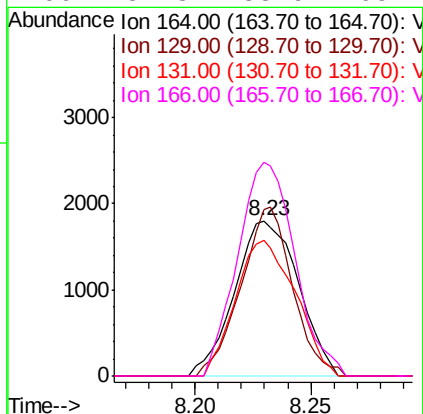
RT: 8.23 min Scan# 2376

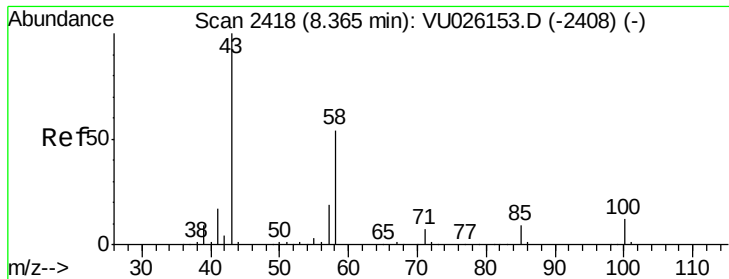
Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion:	164	Resp:	3443
Ion	Ratio	Lower	Upper
164	100		
129	107.0	65.7	121.9
131	87.3	62.0	115.2
166	137.3	88.9	165.1





#48

2-Hexanone

Concen: 4.91 ug/L

RT: 8.36 min Scan# 2418

Delta R.T. -0.00 min

Lab File: VU026156.D

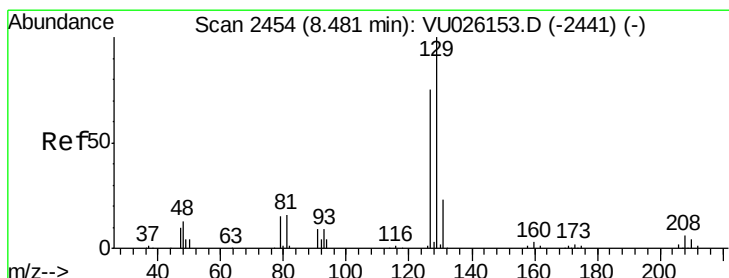
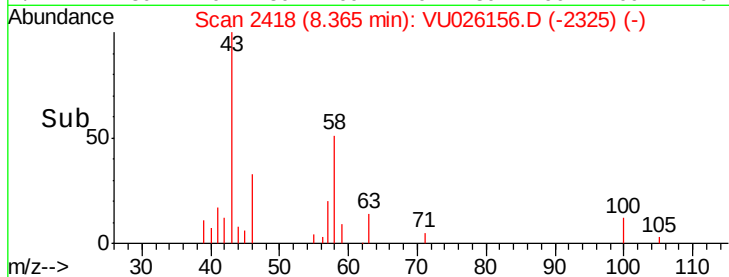
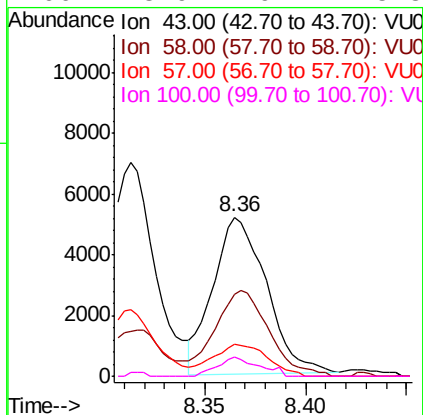
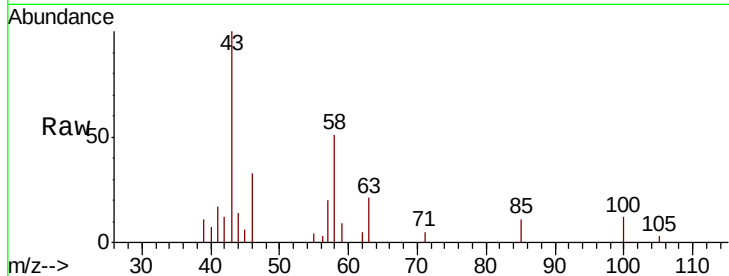
Acq: 15 Aug 2018 19:10

Instrument :
MSVOA_U
ClientSampled :
MDL01

Tot Ion:	43	Resp:	9530
Ion	Ratio	Lower	Upper
43	100		
58	54.7	42.9	64.3
57	21.0	15.1	22.7
100	8.9	9.2	13.8

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#49

Dibromochloromethane

Concen: 2.10 ug/L

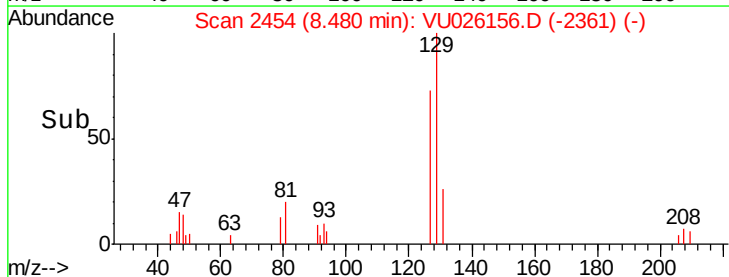
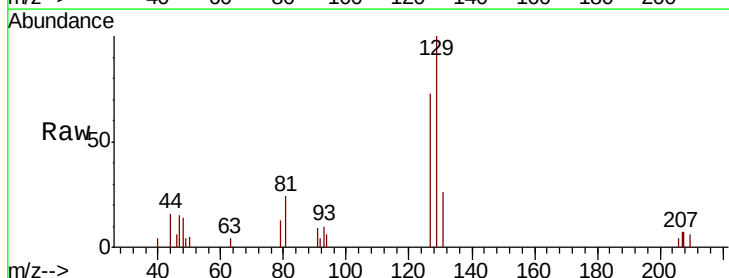
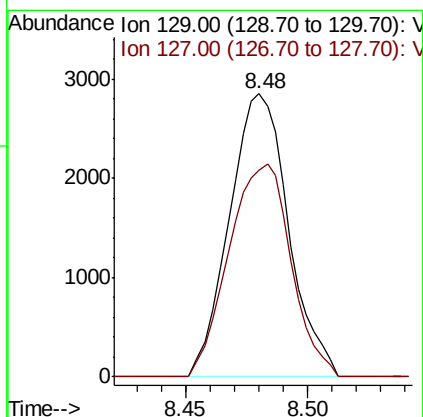
RT: 8.48 min Scan# 2454

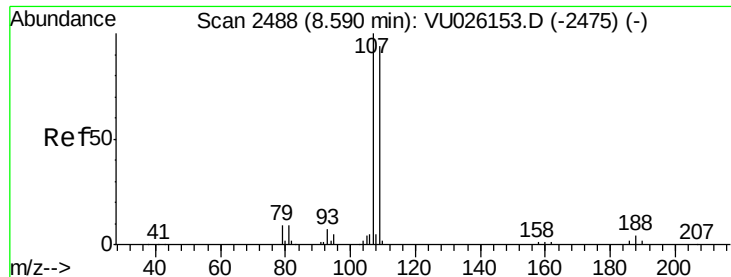
Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion:	129	Resp:	4781
Ion	Ratio	Lower	Upper
129	100		
127	73.2	54.6	101.4





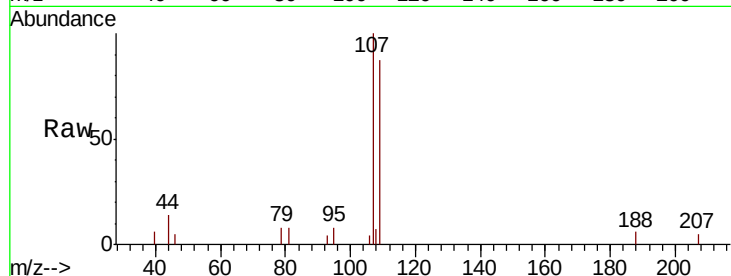
#50
 1,2-Dibromoethane
 Concen: 2.16 ug/L
 RT: 8.59 min Scan# 2489
 Delta R.T. 0.00 min
 Lab File: VU026156.D
 Acq: 15 Aug 2018 19:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
107	100		
109	87.2	66.1	122.7
188	5.6	3.2	4.8#

Manual Integrations
 APPROVED

apatel
 8/16/2018 5:15:52 PM

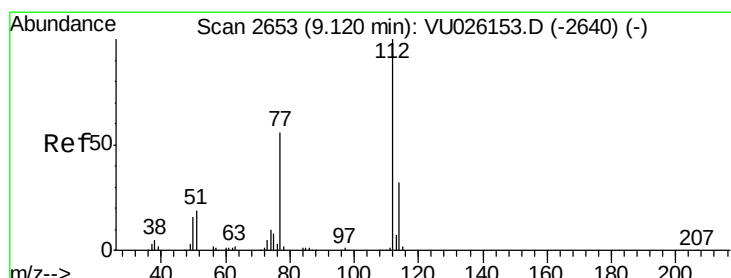
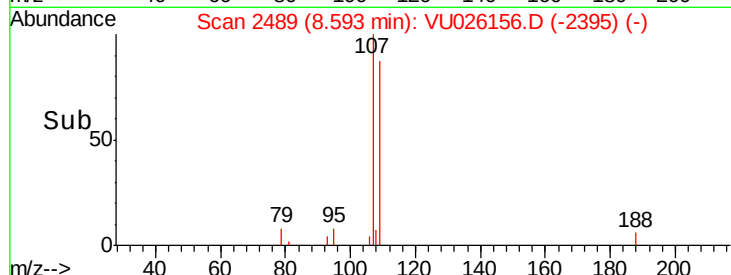
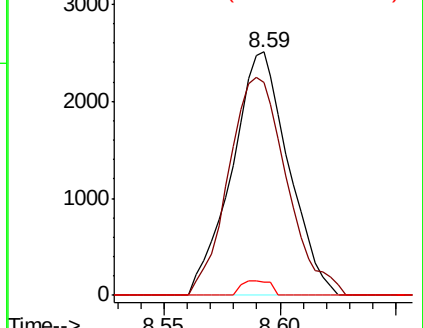


Abundance

Ion 107.00 (106.70 to 107.70): V

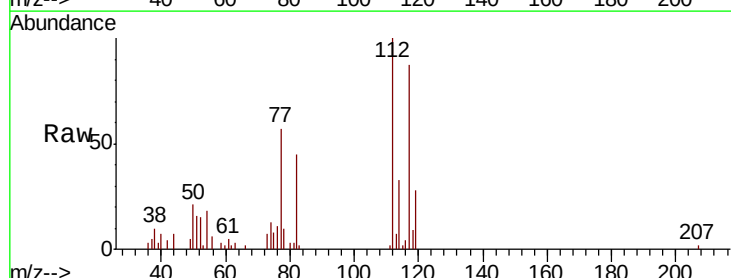
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
 Chlorobenzene
 Concen: 2.10 ug/L
 RT: 9.12 min Scan# 2654
 Delta R.T. 0.00 min
 Lab File: VU026156.D
 Acq: 15 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.2	22.5	41.9
77	57.1	45.0	67.4

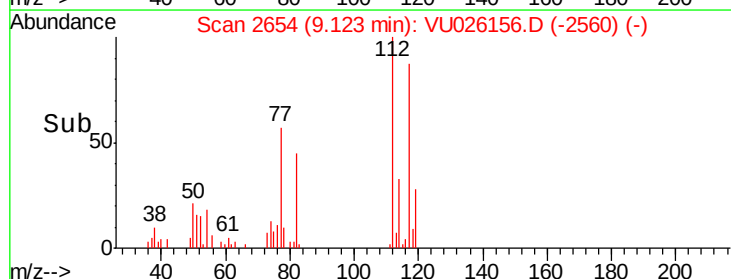
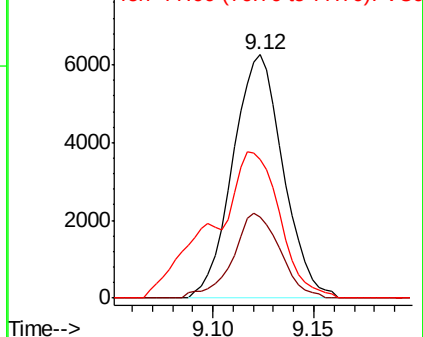


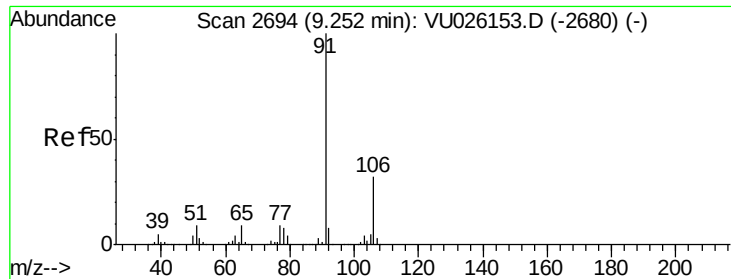
Abundance

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: 1.86 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion: 91 Resp: 15375

Ion Ratio Lower Upper

91 100

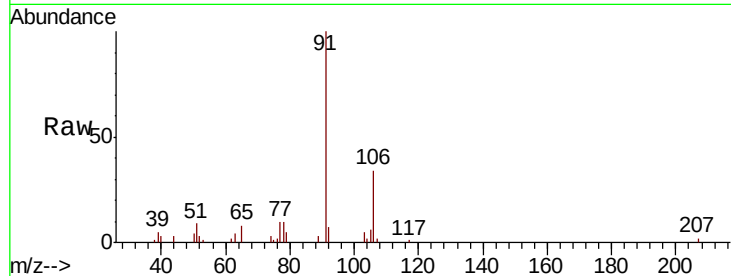
106 34.4 22.3 41.5

Manual Integrations

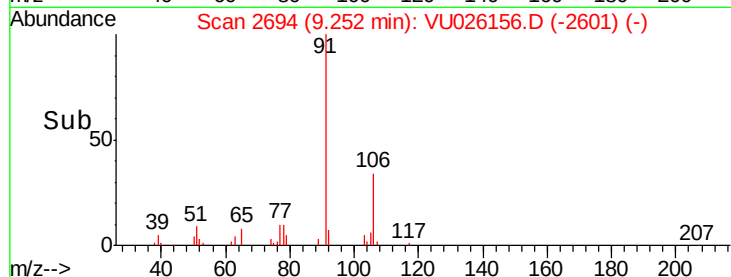
APPROVED

apatel

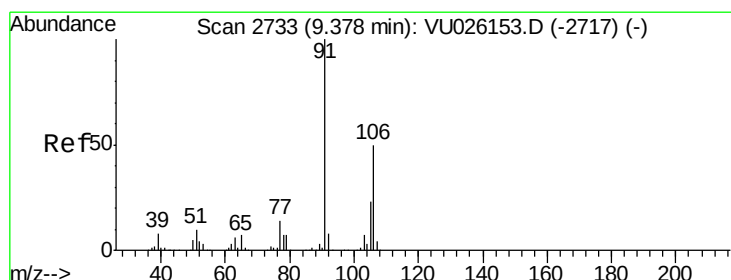
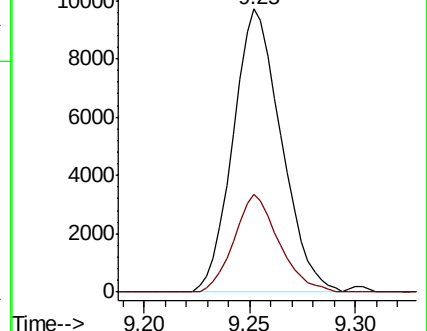
8/16/2018 5:15:52 PM



Abundance Ion 91.00 (90.70 to 91.70): VU026156.D (-2601) (-)



Ion 106.00 (105.70 to 106.70): VU026156.D (-2601) (-)



#53

m,p-Xylene

Concen: 1.76 ug/L

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU026156.D

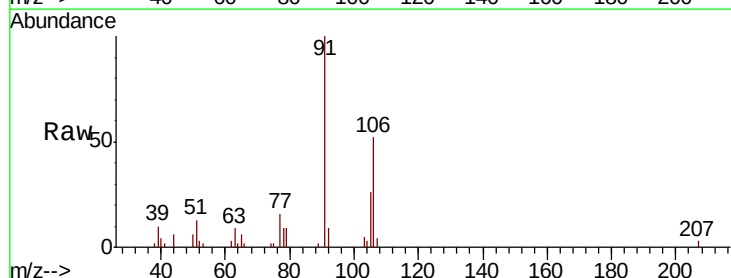
Acq: 15 Aug 2018 19:10

Tgt Ion: 106 Resp: 5606

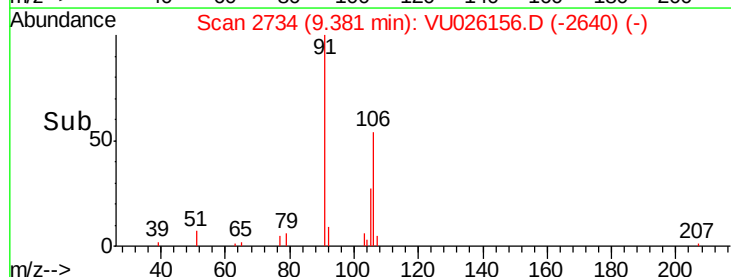
Ion Ratio Lower Upper

106 100

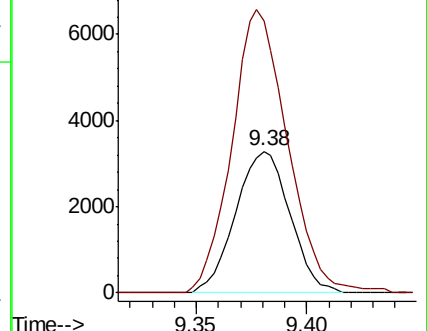
91 192.2 139.2 258.4

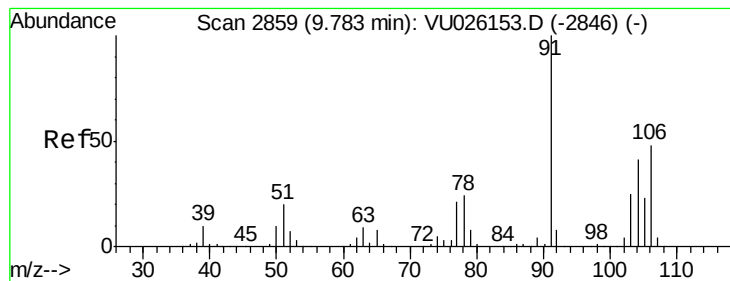


Abundance Ion 106.00 (105.70 to 106.70): VU026156.D (-2640) (-)



Ion 91.00 (90.70 to 91.70): VU026156.D (-2640) (-)





#54

o-xylene

Concen: 1.87 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

ClientSampled :

MDL01

Tot Ion:106 Resp: 5941

Ion Ratio Lower Upper

106 100

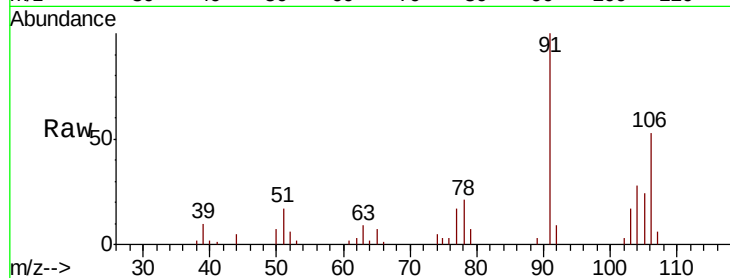
91 188.4 148.0 274.8

Manual Integrations

APPROVED

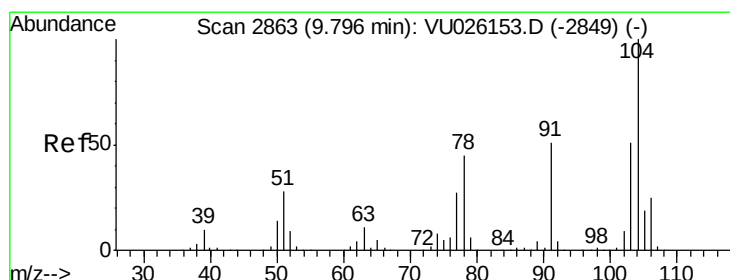
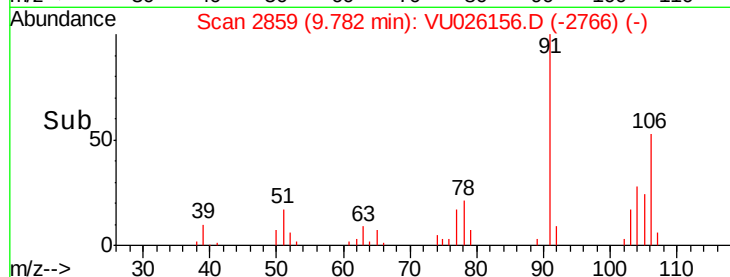
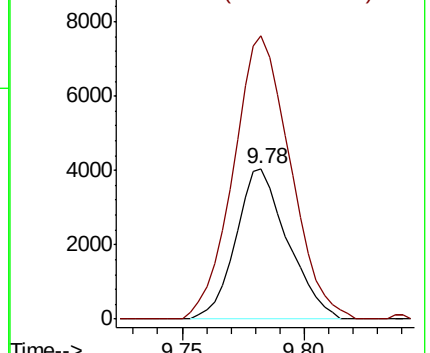
apatel

8/16/2018 5:15:52 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 1.64 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026156.D

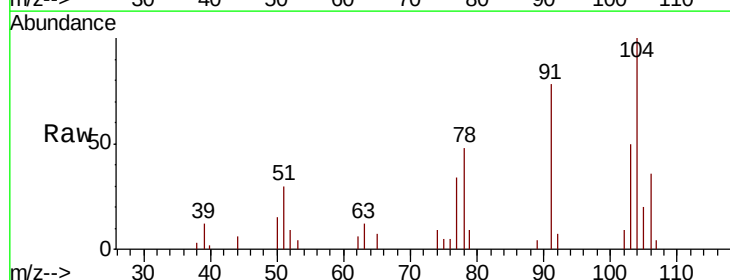
Acq: 15 Aug 2018 19:10

Tgt Ion:104 Resp: 8683

Ion Ratio Lower Upper

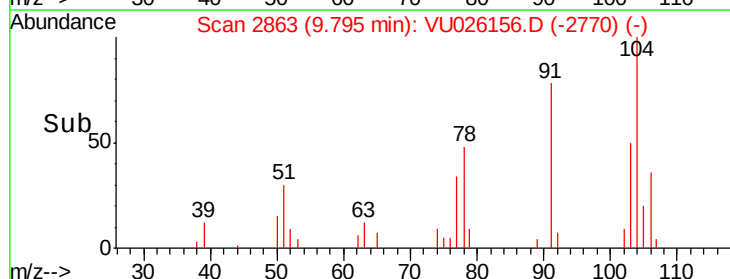
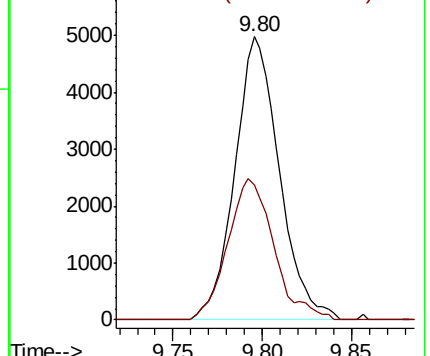
104 100

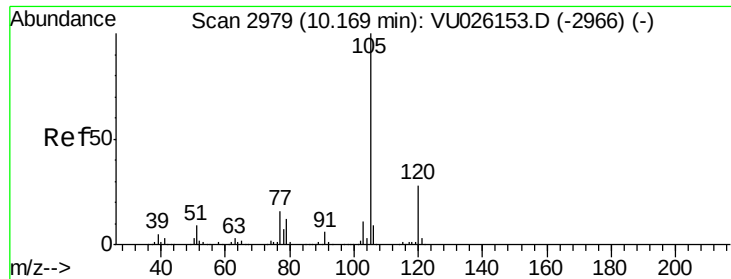
78 47.9 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 1.74 ug/L

RT: 10.17 min Scan# 2980

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

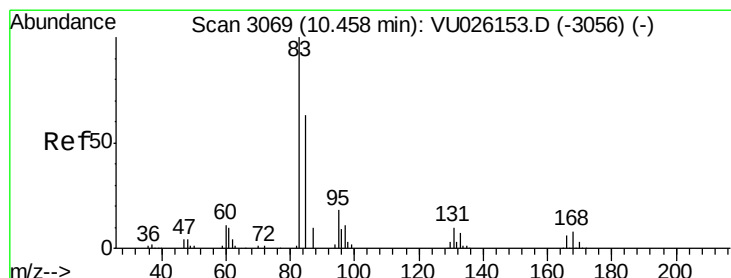
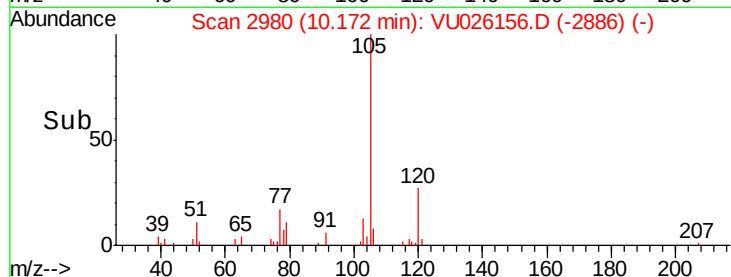
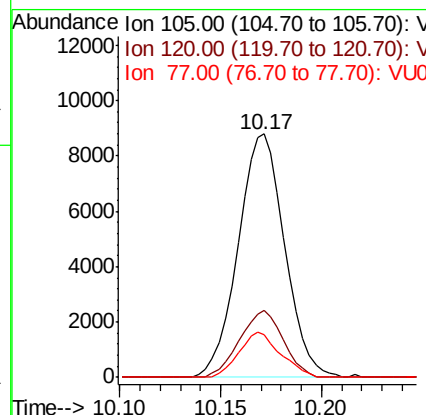
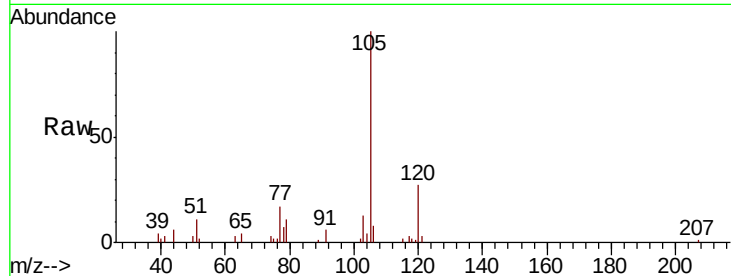
ClientSampleId :

MDL01

Tot Ion:	105	Resp:	14177
Ion Ratio	Lower	Upper	
105	100		
120	25.7	21.5	32.3
77	16.5	12.3	18.5

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 2.39 ug/L

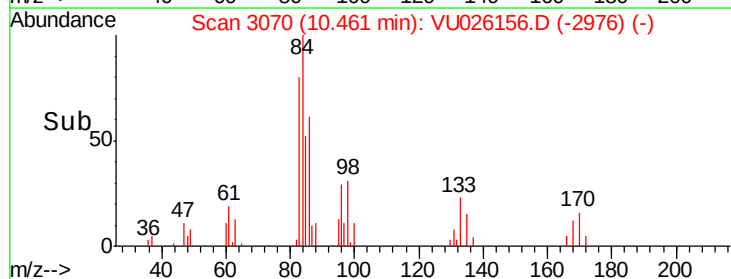
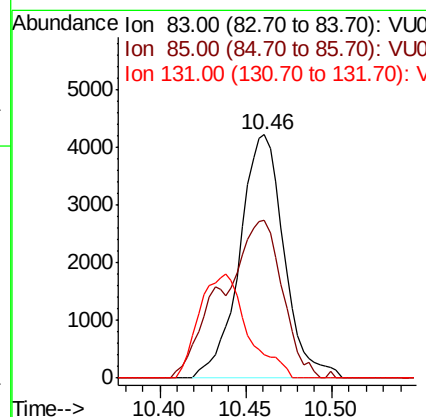
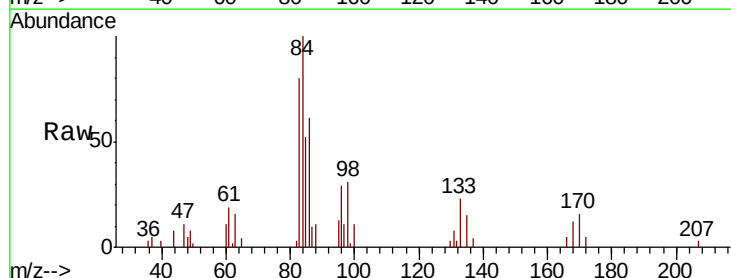
RT: 10.46 min Scan# 3070

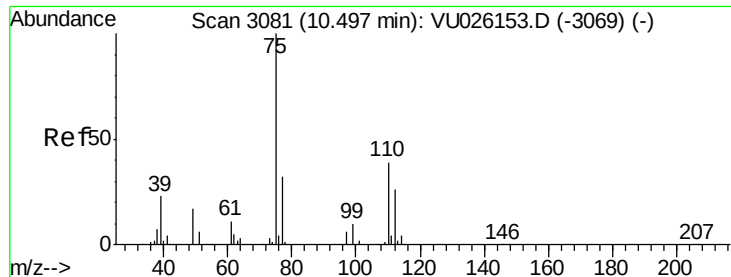
Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion:	83	Resp:	7571
Ion Ratio	Lower	Upper	
83	100		
85	64.7	45.0	83.6
131	9.5	8.4	12.6





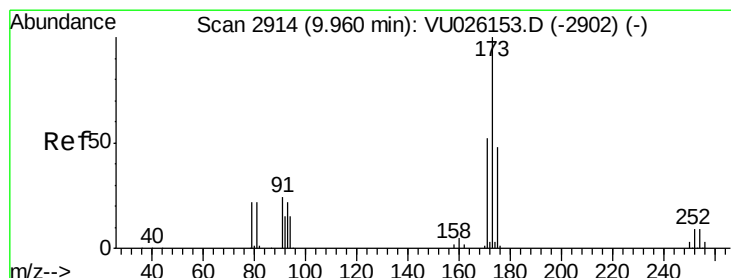
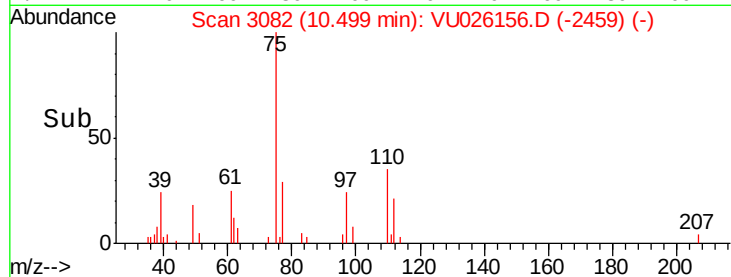
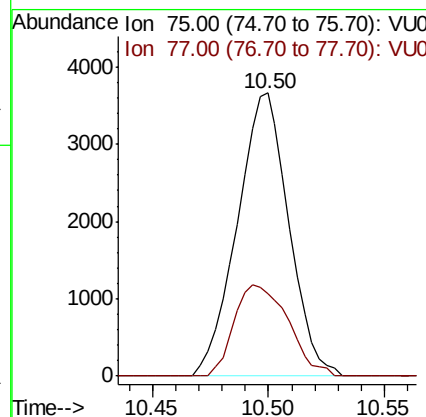
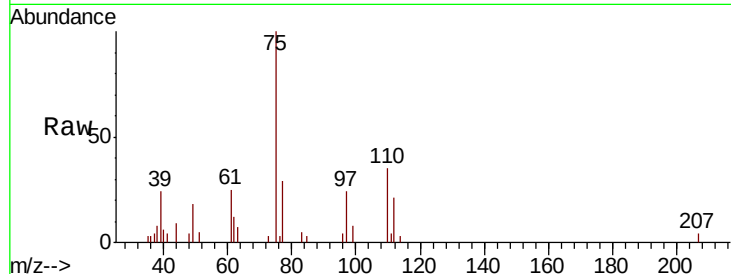
#59
 1,2,3-Trichloropropane
 Concen: 2.30 ug/L
 RT: 10.50 min Scan# 3082
 Delta R.T. 0.00 min
 Lab File: VU026156.D
 Acq: 15 Aug 2018 19:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion: 75 Resp: 5657
 Ion Ratio Lower Upper
 75 100
 77 33.7 26.1 39.1

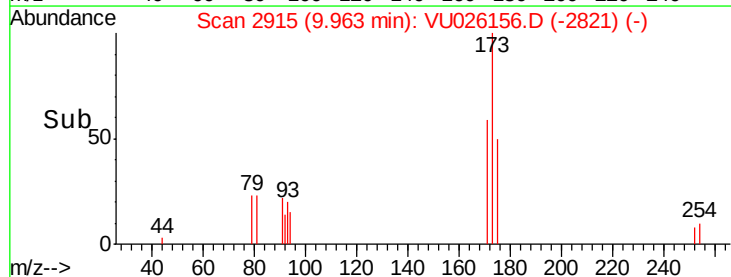
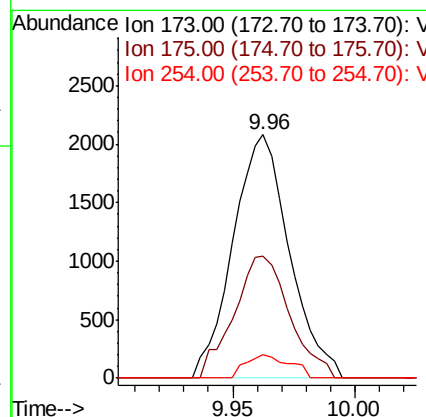
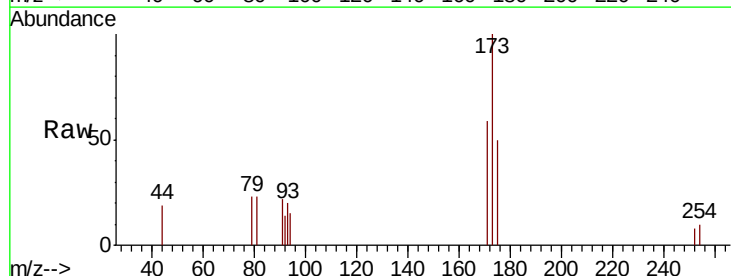
Manual Integrations
 APPROVED

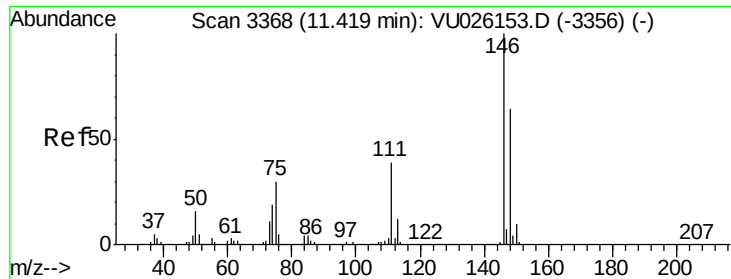
apatel
 8/16/2018 5:15:52 PM



#61
 Bromoform
 Concen: 2.26 ug/L
 RT: 9.96 min Scan# 2915
 Delta R.T. 0.00 min
 Lab File: VU026156.D
 Acq: 15 Aug 2018 19:10

Tgt Ion: 173 Resp: 3330
 Ion Ratio Lower Upper
 173 100
 175 49.7 38.8 58.2
 254 6.1 7.3 10.9#





#62

1,3-Dichlorobenzene

Concen: 1.99 ug/L

RT: 11.42 min Scan# 3369

Delta R.T. 0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

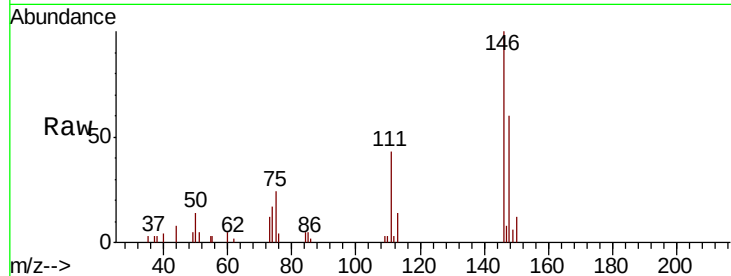
ClientSampled :

MDL01

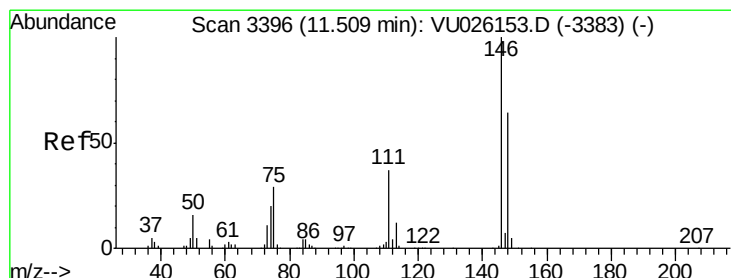
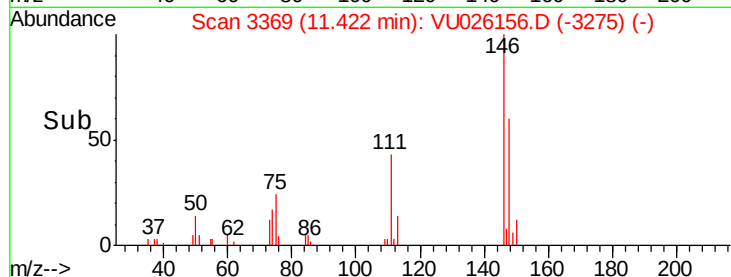
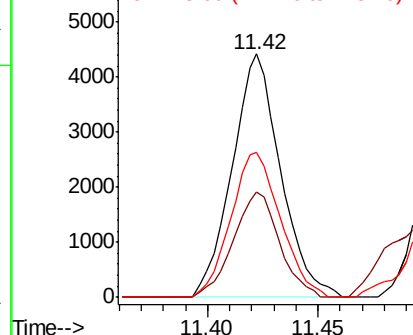
Tot Ion:	146	Resp:	6732
Ion Ratio	Lower	Upper	
146	100		
111	43.3	26.7	49.7
148	59.6	44.1	81.9

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 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: 2.09 ug/L

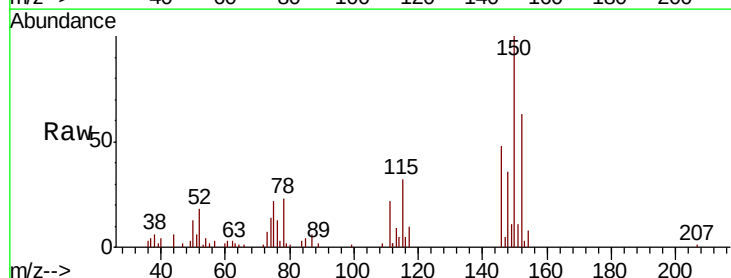
RT: 11.51 min Scan# 3397

Delta R.T. 0.00 min

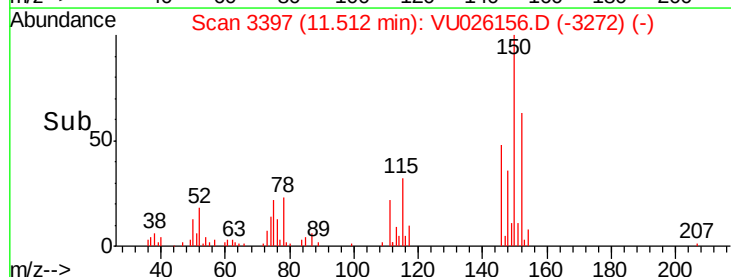
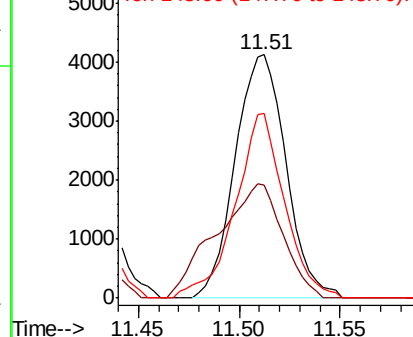
Lab File: VU026156.D

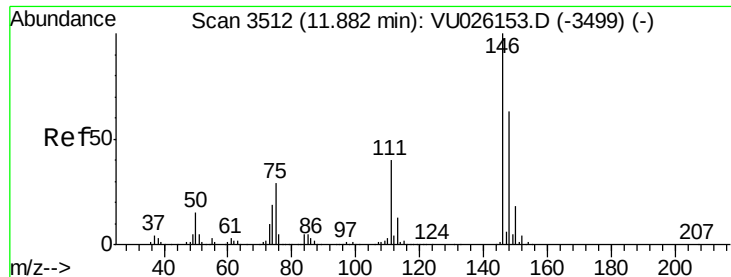
Acq: 15 Aug 2018 19:10

Tgt Ion:	146	Resp:	7288
Ion Ratio	Lower	Upper	
146	100		
111	46.2	27.5	51.1
148	76.1	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: 2.31 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Instrument :

MSVOA_U

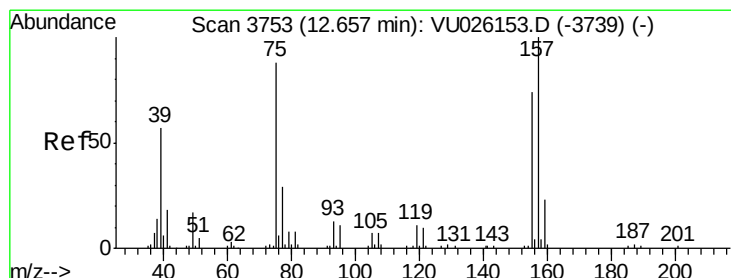
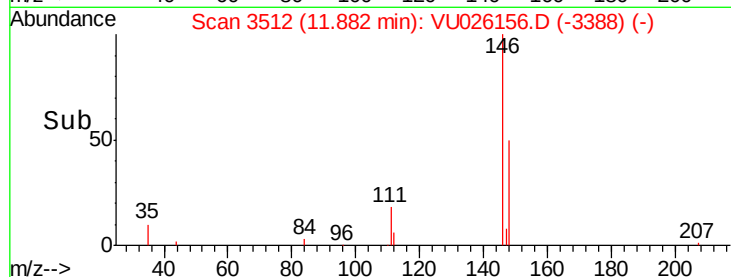
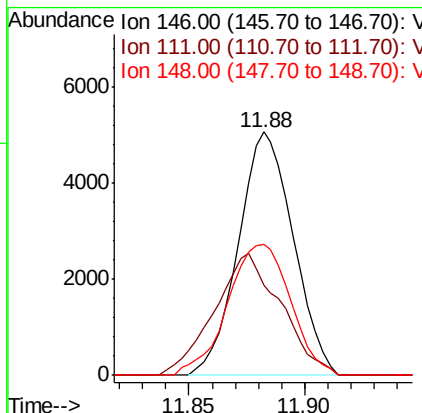
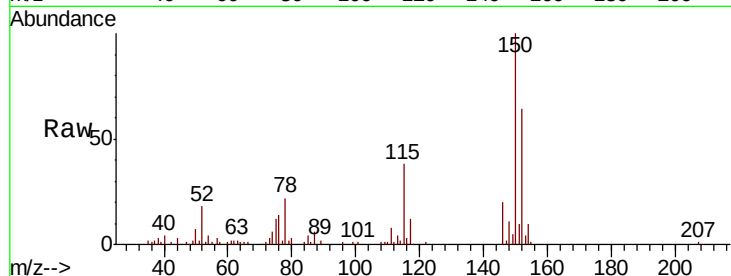
ClientSampled :

MDL01

Tot Ion:	146	Resp:	8336
Ion Ratio	Lower	Upper	
146	100		
111	36.9	32.7	49.1
148	53.7	51.4	77.2

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#66

1,2-Dibromo-3-chloropropane

Concen: 2.06 ug/L

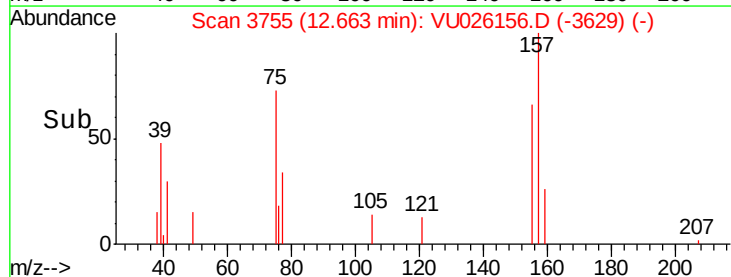
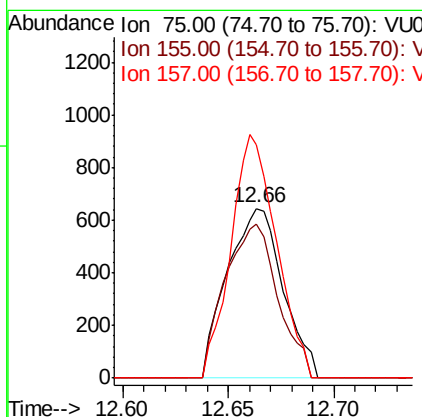
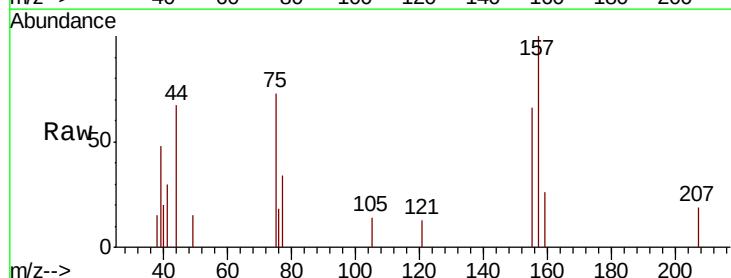
RT: 12.66 min Scan# 3755

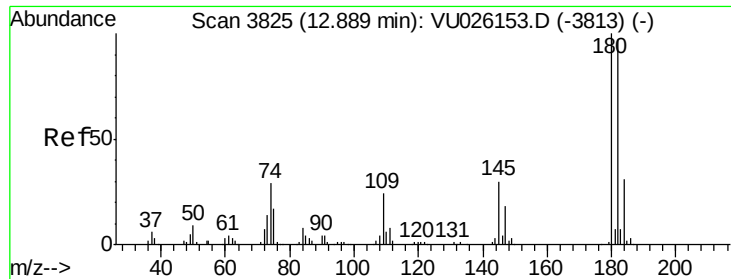
Delta R.T. 0.01 min

Lab File: VU026156.D

Acq: 15 Aug 2018 19:10

Tgt Ion:	75	Resp:	1179
Ion Ratio	Lower	Upper	
75	100		
155	90.9	68.2	102.2
157	137.8	90.5	135.7#





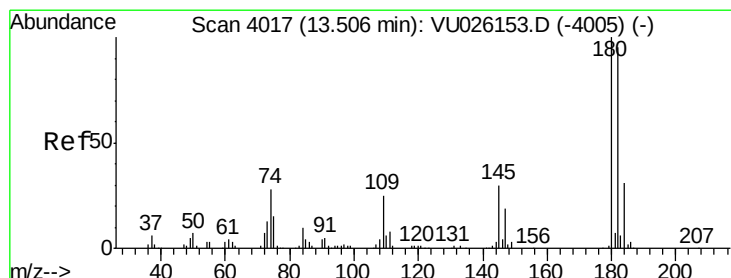
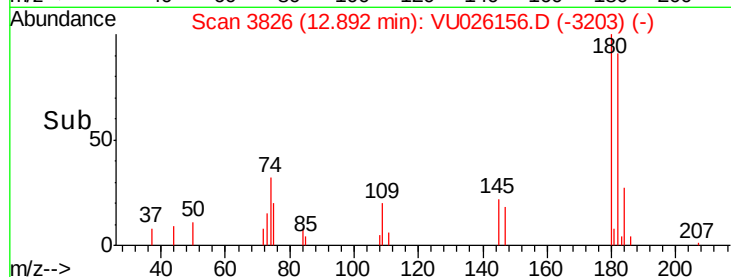
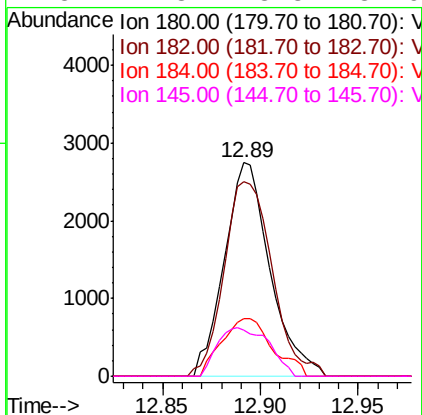
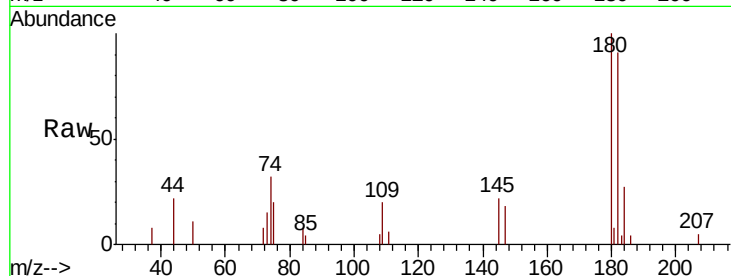
#67
 1,3,5-Trichlorobenzene
 Concen: 1.79 ug/L m
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU026156.D
 Acq: 15 Aug 2018 19:10

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	53.0	75.6	113.4#
184	16.1	24.3	36.5#
145	14.8	23.3	34.9#

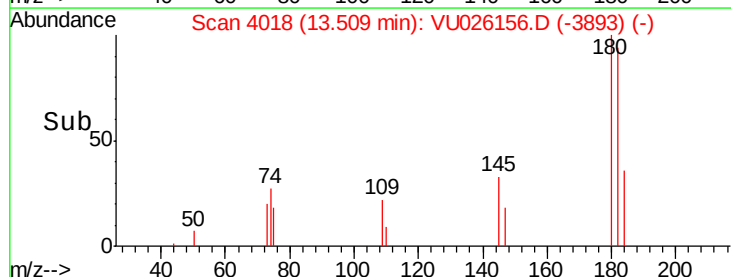
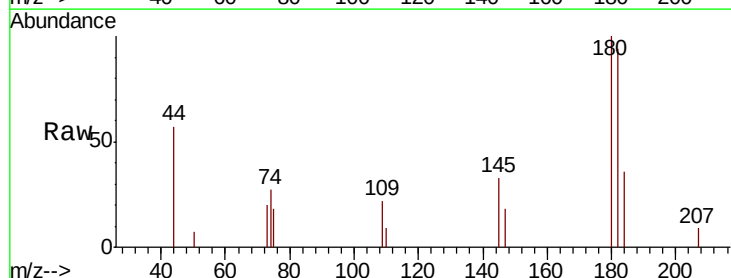
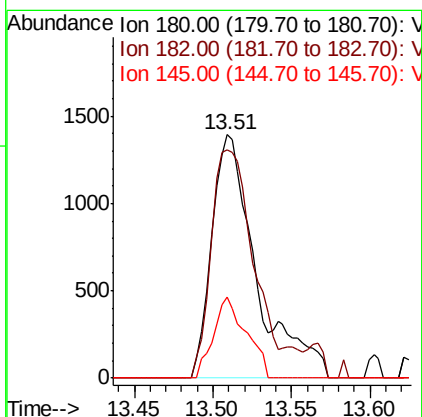
Manual Integrations
 APPROVED

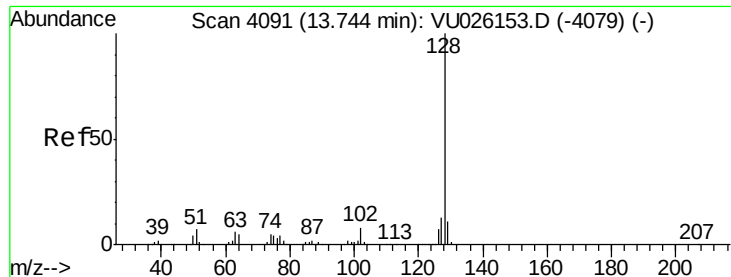
apatel
 8/16/2018 5:15:52 PM



#68
 1,2,4-trichlorobenzene
 Concen: 1.44 ug/L m
 RT: 13.51 min Scan# 4018
 Delta R.T. 0.00 min
 Lab File: VU026156.D
 Acq: 15 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	86.8	76.8	115.2
145	24.3	23.8	35.6





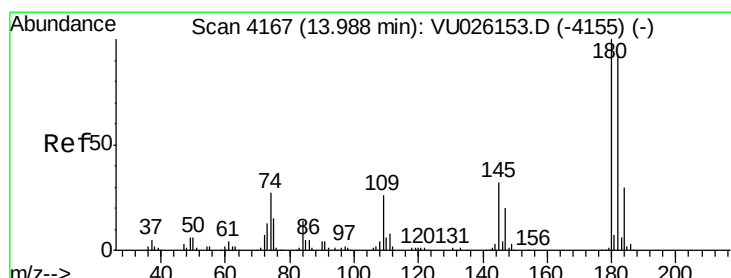
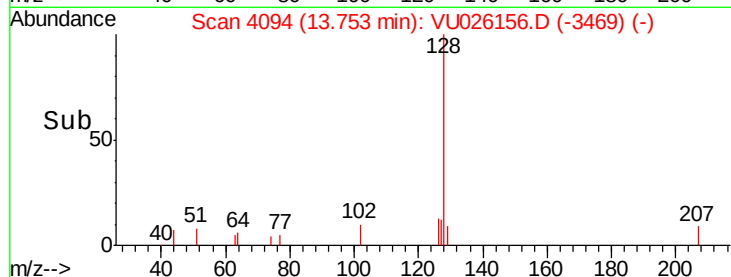
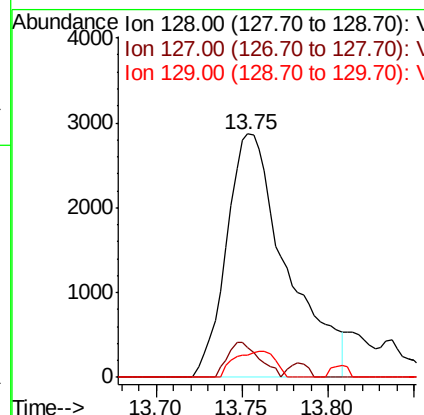
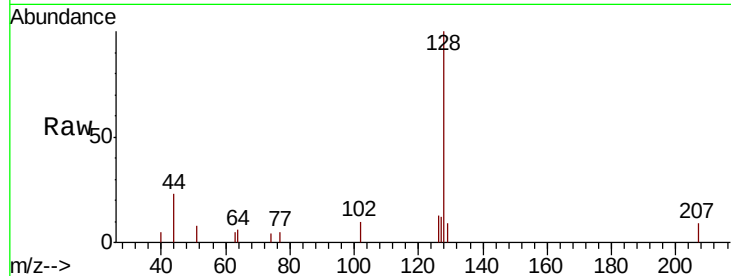
#69
Naphthalene
Concen: 1.29 ug/L
RT: 13.75 min Scan# 4094
Delta R.T. 0.01 min
Lab File: VU026156.D
Acq: 15 Aug 2018 19:10

Instrument :
MSVOA_U
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	7.6	10.3	15.5#
129	7.3	8.6	13.0#

Manual Integrations
APPROVED

apatel
8/16/2018 5:15:52 PM



#70
1,2,3-Trichlorobenzene
Concen: 1.36 ug/L
RT: 13.99 min Scan# 4169
Delta R.T. 0.01 min
Lab File: VU026156.D
Acq: 15 Aug 2018 19:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	128.5	77.1	115.7#
145	30.2	25.1	37.7

