

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121219\
 Data File : VU036185.D
 Acq On : 13 Dec 2019 06:30
 Operator : JC/MD
 Sample : K6240-15
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW6

Manual Integrations
 APPROVED

apatel
 12/13/2019 3:58:55 PM

Quant Time: Dec 13 08:19:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 13 04:38:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	253185	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	275762	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	110208	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	105403	4.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.20%
7) Chloroethane-d5	1.93	69	103444	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.80%
11) 1,1-Dichloroethene-d2	2.59	63	111394	3.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.80%
20) 2-Butanone-d5	4.69	46	218166	52.93	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.86%
24) Chloroform-d	5.11	84	182865	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
26) 1,2-Dichloroethane-d4	5.75	65	91955	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.40%
32) Benzene-d6	5.77	84	329479	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	6.73	67	106738	4.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.00%
41) Toluene-d8	7.93	98	268858	3.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.00%
43) trans-1,3-Dichloropropene-	8.21	79	33087	3.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	69.00%
46) 2-Hexanone-d5	8.67	63	159456	45.23	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.46%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	96133	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	108628	5.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	52315	1.547	ug/L	97
8) Chloroethane	1.95	64	22433	1.078	ug/L	98
13) Acetone	2.68	43	77841	21.707	ug/L	99
15) Methyl Acetate	2.99	43	2518	0.329	ug/L #	56
16) Methylene chloride	3.08	84	5405	0.203	ug/L	89
19) 1,1-Dichloroethane	3.92	63	101279	2.782	ug/L	98
21) 2-Butanone	4.78	43	9135m	1.911	ug/L	
22) cis-1,2-Dichloroethene	4.72	96	72791	3.573	ug/L	91
25) Chloroform	5.14	83	102910	2.674	ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	37161	1.099	ug/L	99
33) Benzene	5.82	78	65245	0.769	ug/L	100
34) Trichloroethene	6.58	95	4950	0.228	ug/L	96
38) Bromodichloromethane	7.14	83	12057	0.432	ug/L	98
42) Toluene	8.00	91	30366	0.338	ug/L	96
51) Chlorobenzene	9.48	112	19051	0.326	ug/L	97
52) Ethylbenzene	9.60	91	6464	0.074	ug/L	90
53) m,p-Xylene	9.72	106	6962	0.203	ug/L	87

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121219\
Data File : VU036185.D
Acq On : 13 Dec 2019 06:30
Operator : JC/MD
Sample : K6240-15
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 42 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFQW6

Manual Integrations
APPROVED

apatel
12/13/2019 3:58:55 PM

Quant Time: Dec 13 08:19:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 13 04:38:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.13	106	5072	0.155	ug/L	73
63) 1,4-Dichlorobenzene	11.86	146	3698	0.104	ug/L #	89
65) 1,2-Dichlorobenzene	12.23	146	4618	0.132	ug/L	95

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

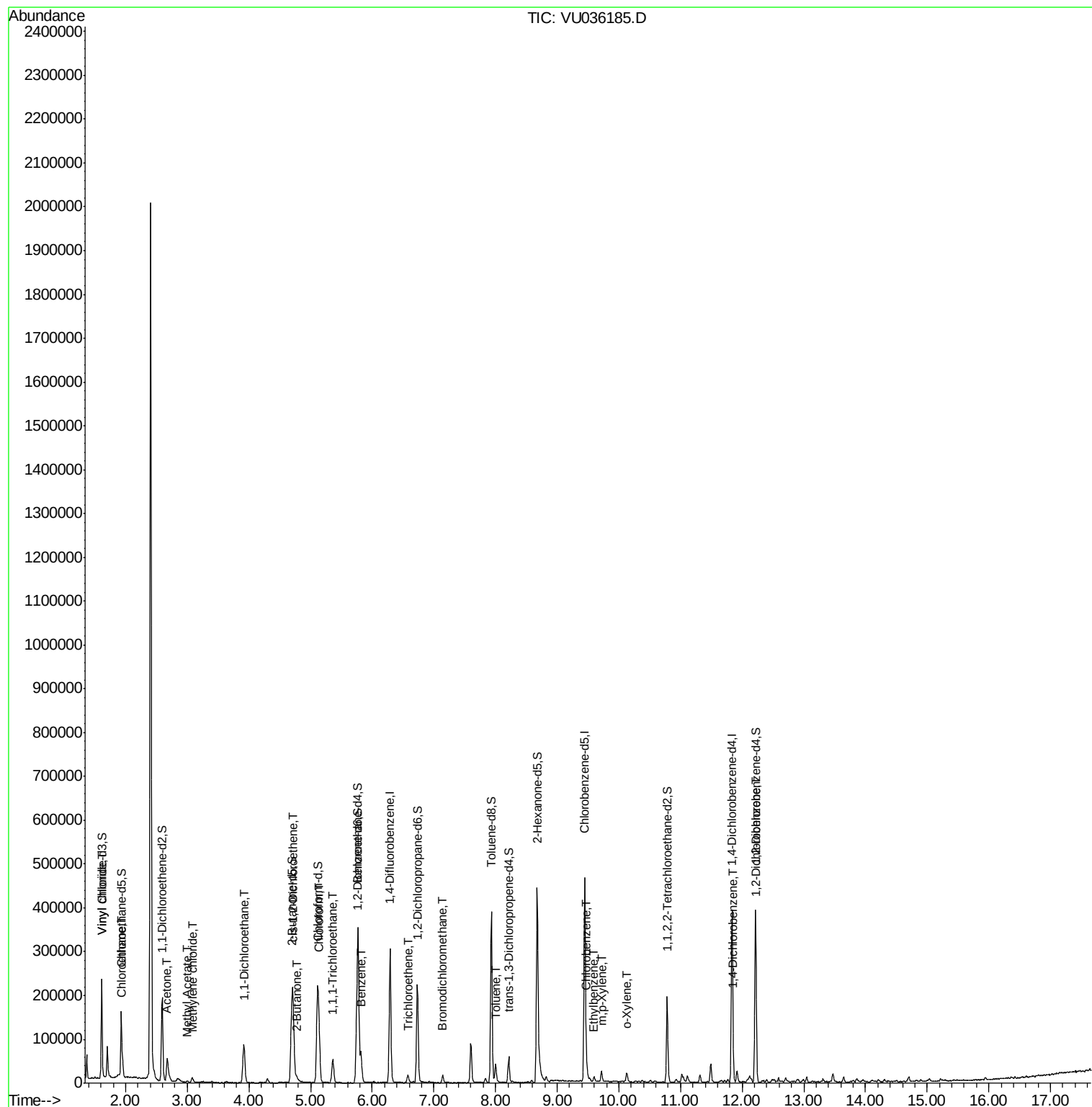
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU121219\
Data File : VU036185.D
Acq On : 13 Dec 2019 06:30
Operator : JC/MD
Sample : K6240-15
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 42 Sample Multiplier: 1

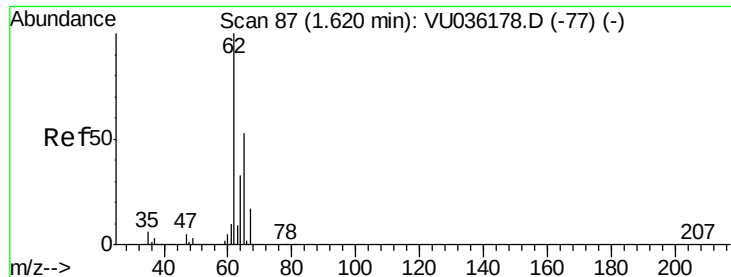
Instrument :
MSVOA_U
ClientSampleId :
BFQW6

Manual Integrations
APPROVED

apatel
12/13/2019 3:58:55 PM

Quant Time: Dec 13 08:19:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 13 04:38:02 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.547 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampled :

BFQW6

Tot Ion: 62 Resp: 52315

Ion Ratio Lower Upper

62 100

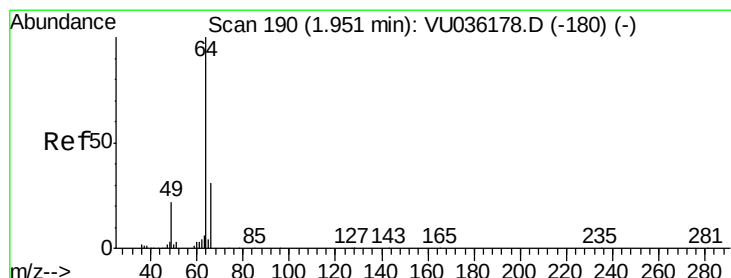
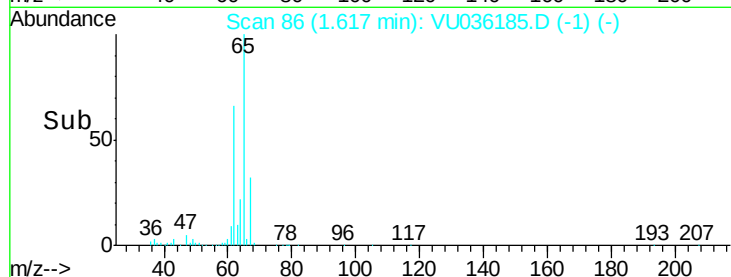
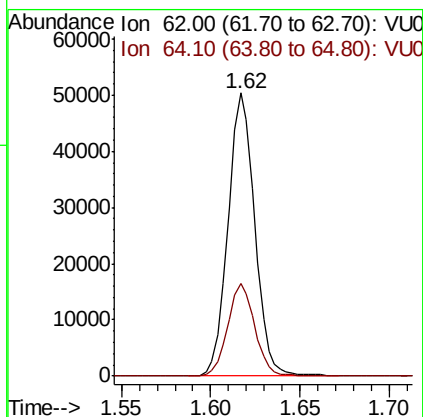
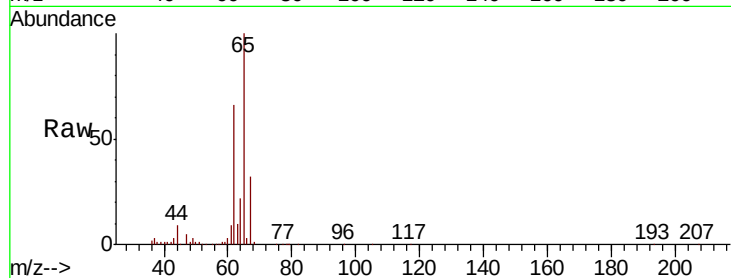
64 32.6 24.0 44.6

Manual Integrations

APPROVED

apatel

12/13/2019 3:58:55 PM



#8

Chloroethane

Concen: 1.078 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036185.D

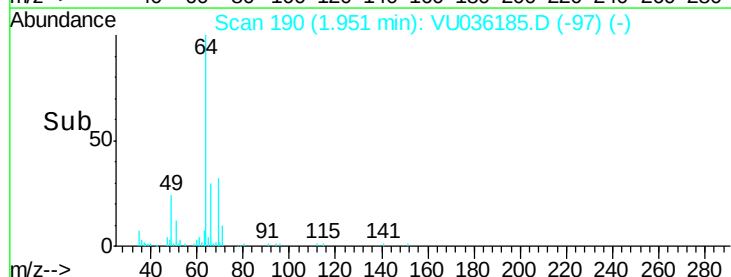
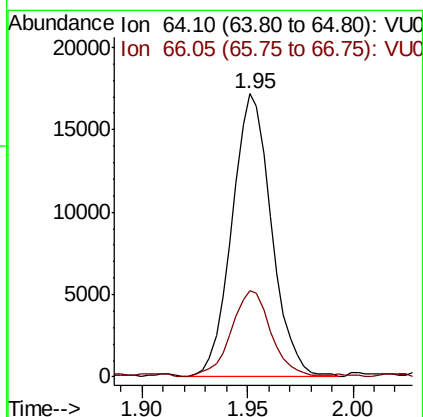
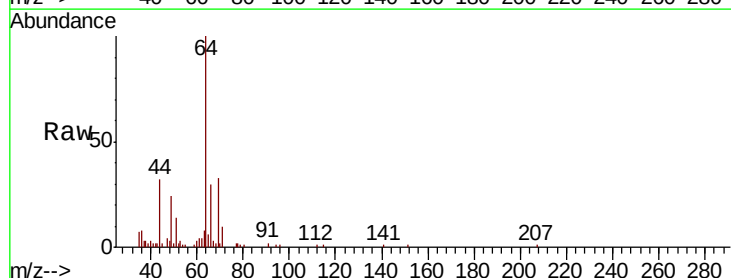
Acq: 13 Dec 2019 06:30

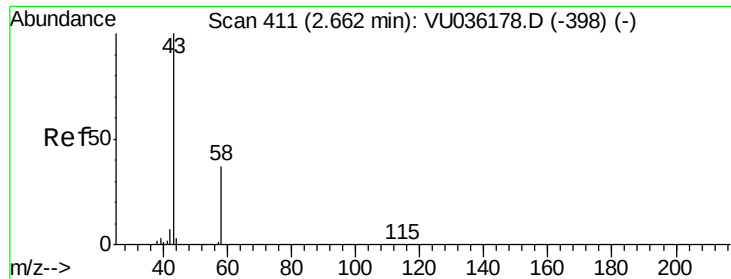
Tgt Ion: 64 Resp: 22433

Ion Ratio Lower Upper

64 100

66 30.5 22.0 41.0





#13

Acetone

Concen: 21.707 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.02 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampleId :

BFQW6

Tot Ion: 43 Resp: 77841

Ion Ratio Lower Upper

43 100

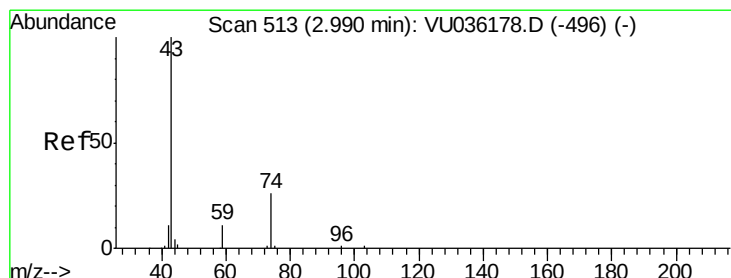
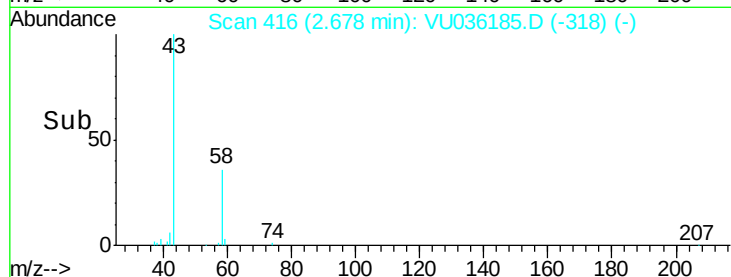
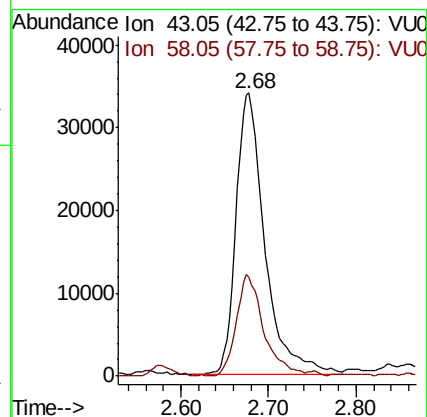
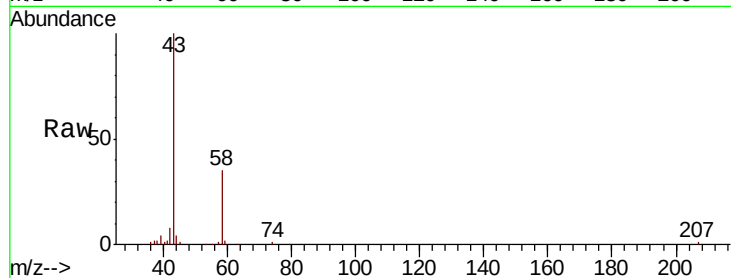
58 34.1 0.0 70.0

Manual Integrations

APPROVED

apatel

12/13/2019 3:58:55 PM



#15

Methyl Acetate

Concen: 0.329 ug/L

RT: 2.99 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU036185.D

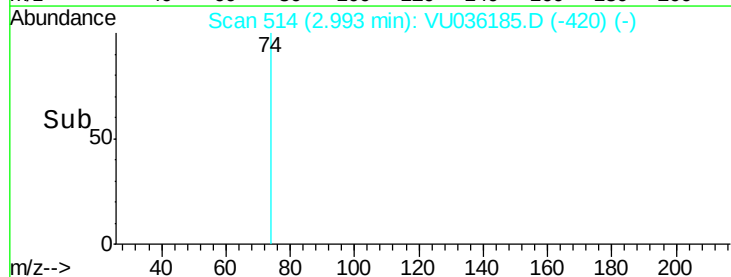
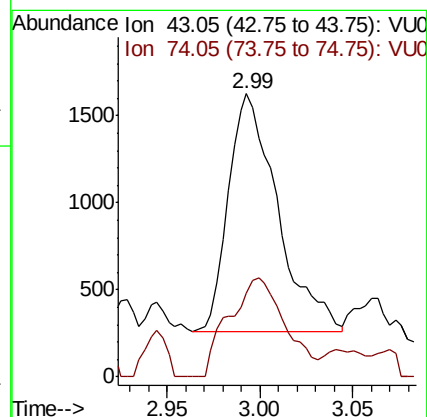
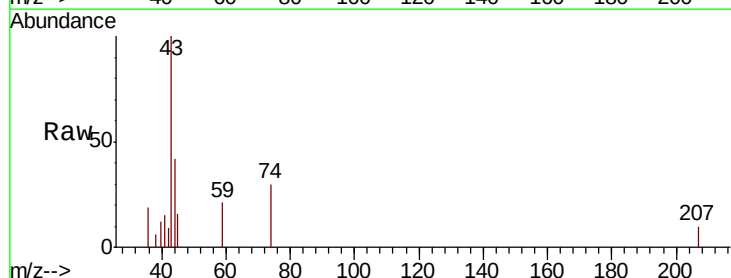
Acq: 13 Dec 2019 06:30

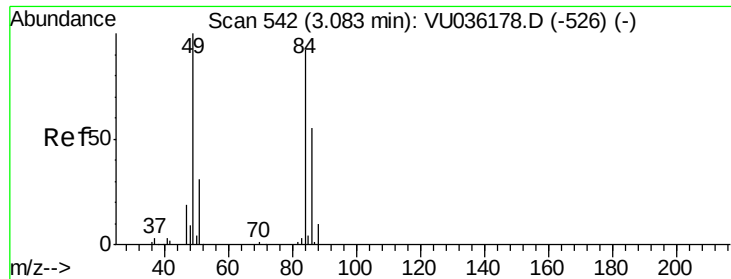
Tgt Ion: 43 Resp: 2518

Ion Ratio Lower Upper

43 100

74 47.9 20.6 30.8#





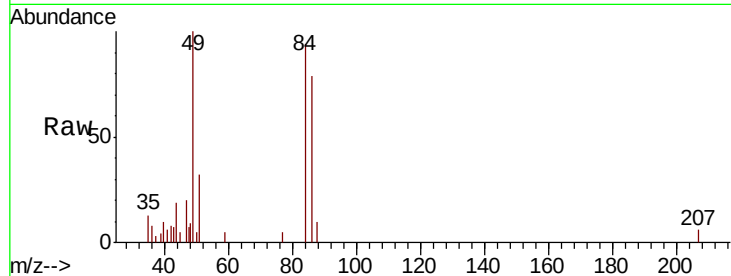
#16
Methvlene chloride
Concen: 0.203 ug/L
RT: 3.08 min Scan# 541
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Instrument :
MSVOA_U
ClientSampleId :
BFQW6

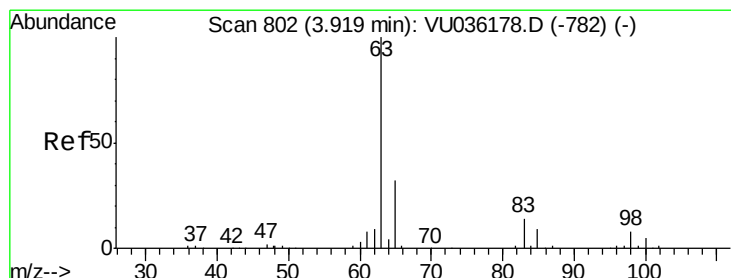
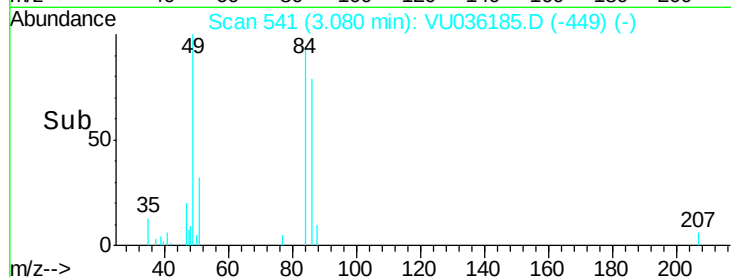
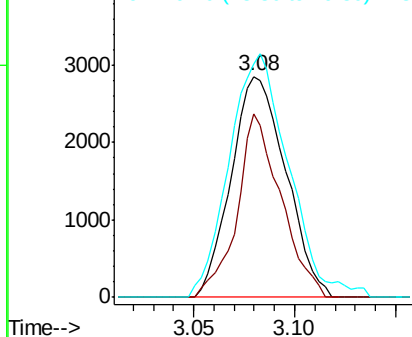
Tot Ion	84	Resp	5405
Ion	Ratio	Lower	Upper
84	100		
86	83.3	46.1	85.5
49	106.0	77.7	144.3

Manual Integrations
APPROVED

apatel
12/13/2019 3:58:55 PM

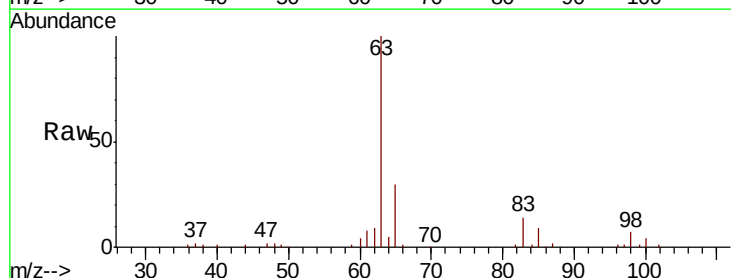


Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

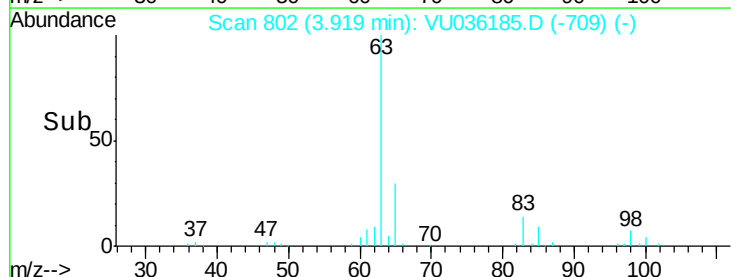
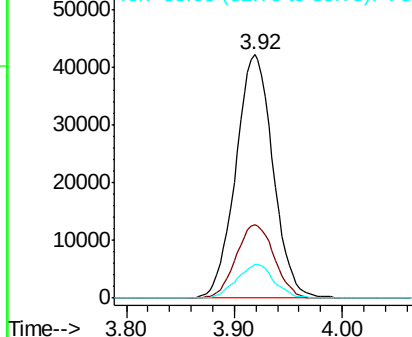


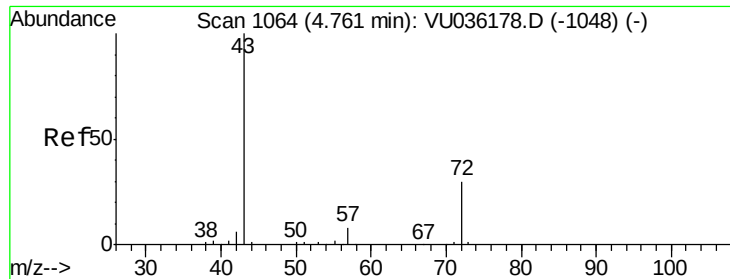
#19
1,1-Dichloroethane
Concen: 2.782 ug/L
RT: 3.92 min Scan# 802
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Tgt Ion	63	Resp	101279
Ion	Ratio	Lower	Upper
63	100		
65	30.1	22.2	41.2
83	13.9	9.8	18.2



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





#21

2-Butanone

Concen: 1.911 ug/L m

RT: 4.78 min Scan# 1071

Delta R.T. 0.02 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampleId :

BFQW6

Tot Ion: 43 Resp: 9135

Ion Ratio Lower Upper

43 100

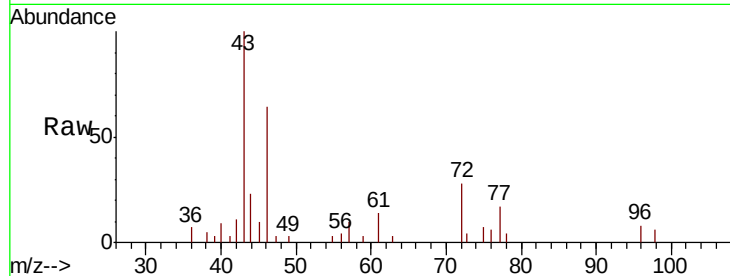
72 2.4 14.4 43.2#

Manual Integrations

APPROVED

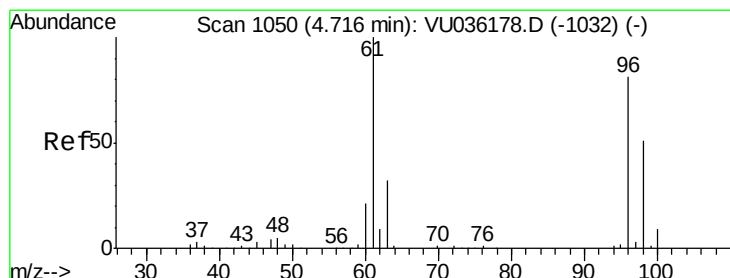
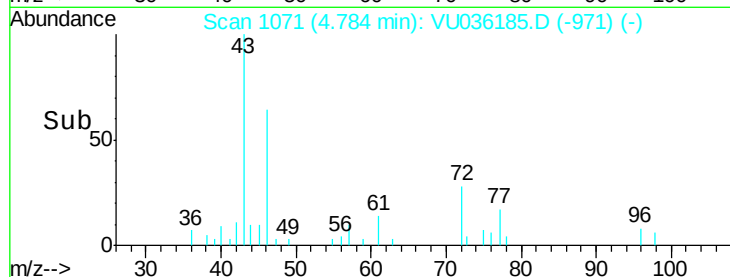
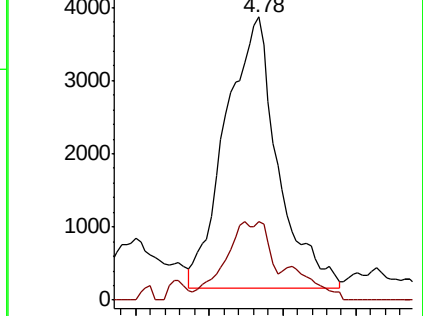
apatel

12/13/2019 3:58:55 PM



Abundance Ion 43.05 (42.75 to 43.75): VU036185.D (-971) (-)

Ion 72.10 (71.80 to 72.80): VU036185.D (-971) (-)



#22

cis-1,2-Dichloroethene

Concen: 3.573 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

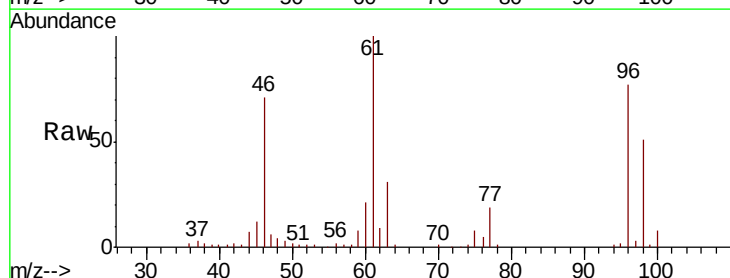
Tgt Ion: 96 Resp: 72791

Ion Ratio Lower Upper

96 100

61 129.6 83.8 155.6

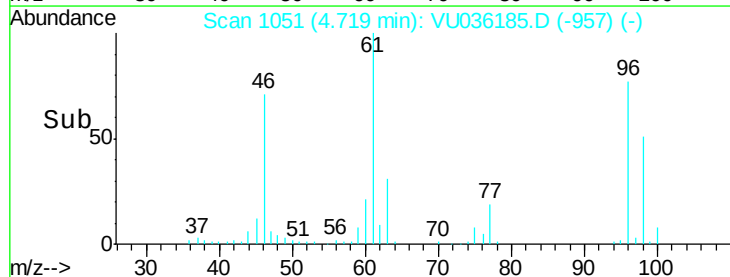
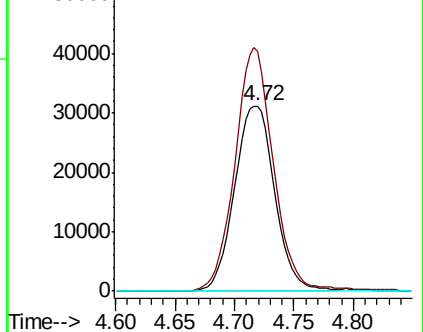
68 0.0 0.0 0.0

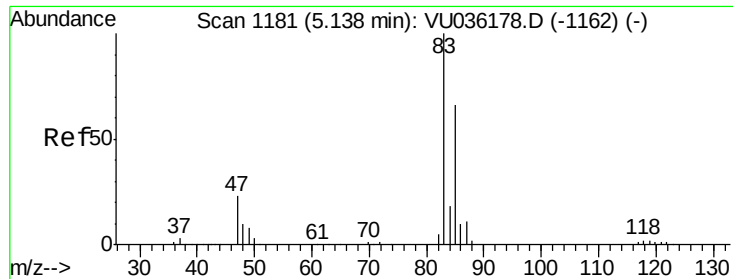


Abundance Ion 96.00 (95.70 to 96.70): VU036185.D (-957) (-)

Ion 61.05 (60.75 to 61.75): VU036185.D (-957) (-)

Ion 68.15 (67.85 to 68.85): VU036185.D (-957) (-)





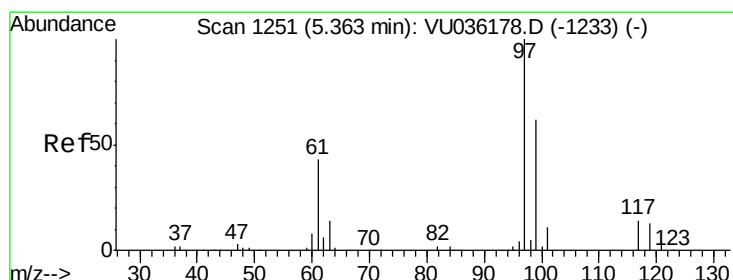
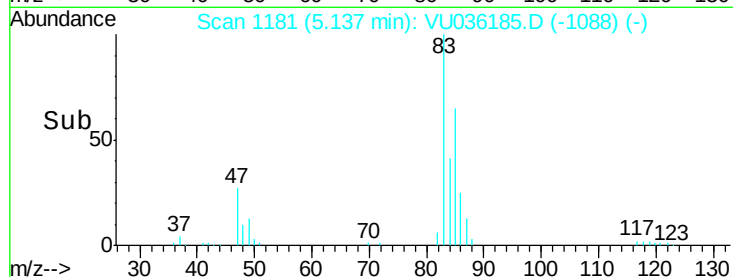
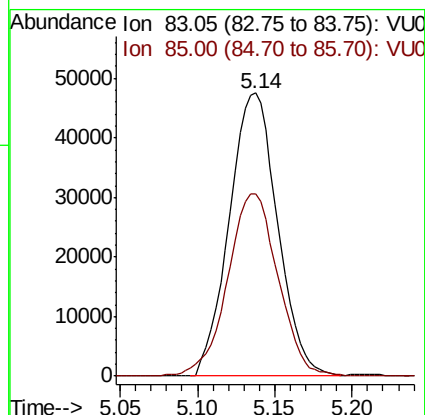
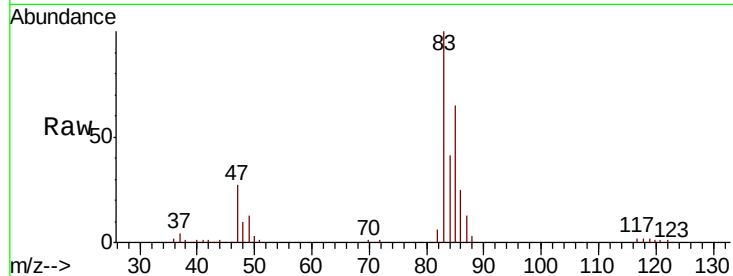
#25
Chloroform
Concen: 2.674 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Instrument :
MSVOA_U
ClientSampled :
BFQW6

Tot Ion: 83 Resp: 102910
Ion Ratio Lower Upper
83 100
85 64.5 44.2 82.0

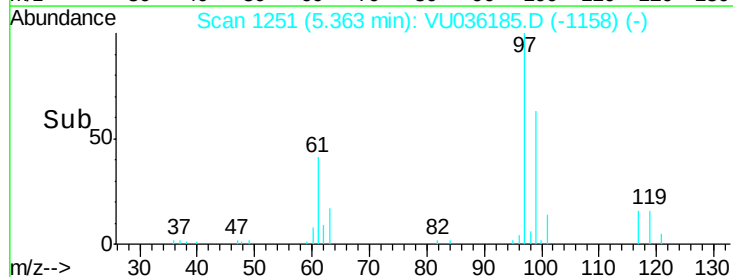
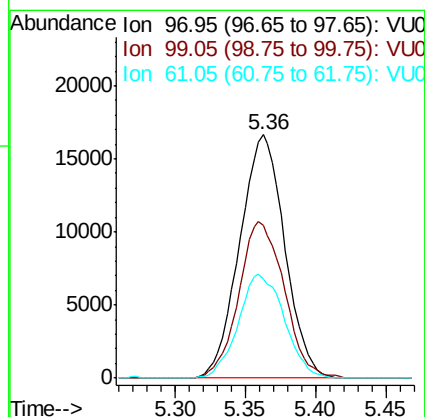
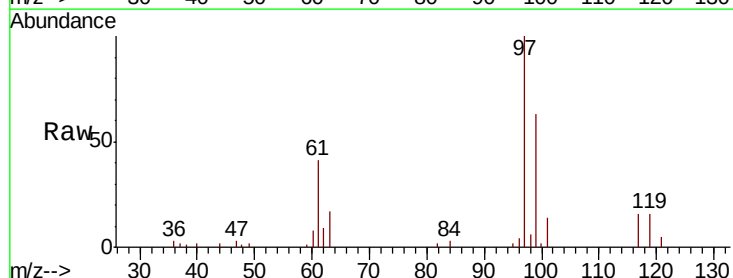
Manual Integrations
APPROVED

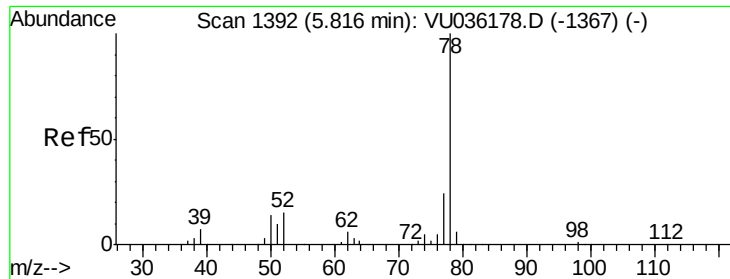
apatel
12/13/2019 3:58:55 PM



#29
1,1,1-Trichloroethane
Concen: 1.099 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Tgt Ion: 97 Resp: 37161
Ion Ratio Lower Upper
97 100
99 64.9 52.6 79.0
61 43.6 35.4 53.2





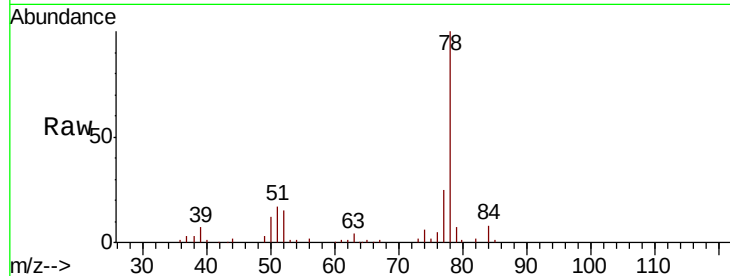
#33
Benzene
Concen: 0.769 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Instrument :
MSVOA_U
ClientSampleId :
BFQW6

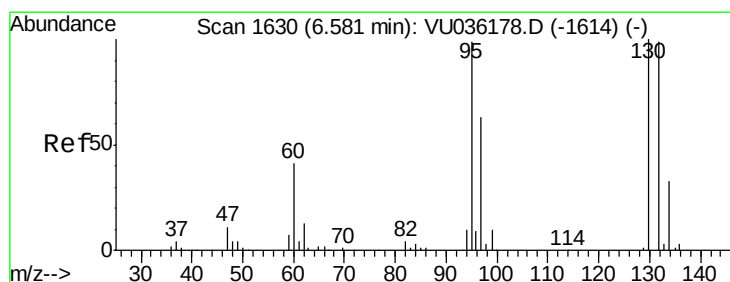
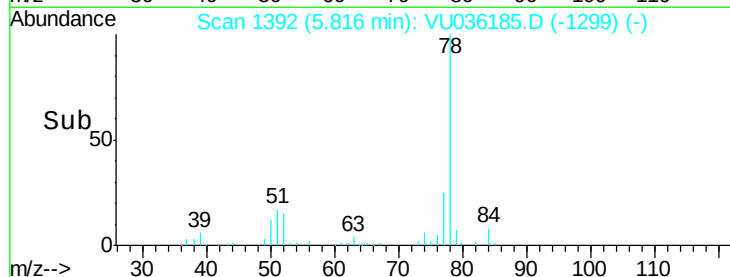
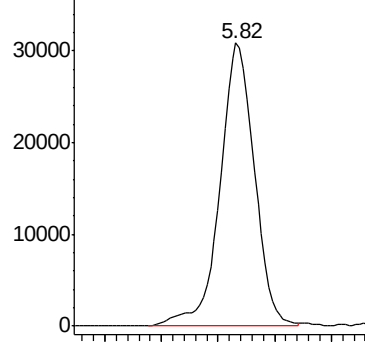
Tgt Ion: 78 Resp: 65245

Manual Integrations
APPROVED

apatel
12/13/2019 3:58:55 PM

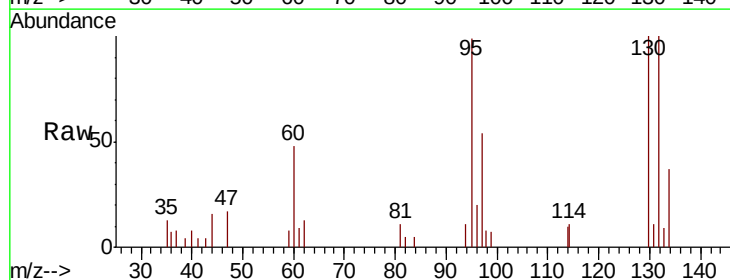


Abundance Ion 78.10 (77.80 to 78.80): VU0



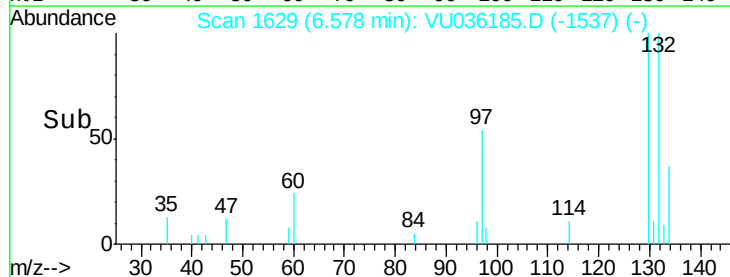
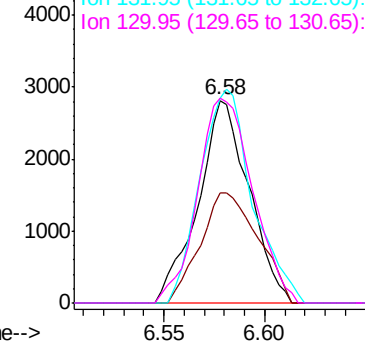
#34
Trichloroethene
Concen: 0.228 ug/L
RT: 6.58 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

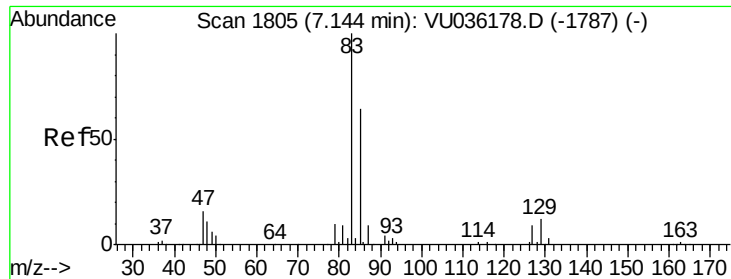
Tgt Ion: 95 Resp: 4950
Ion Ratio Lower Upper
95 100
97 54.6 43.7 81.1
132 101.2 71.7 133.3
130 101.4 73.1 135.7



Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0
Ion 131.95 (131.65 to 132.65): V
Ion 129.95 (129.65 to 130.65): V





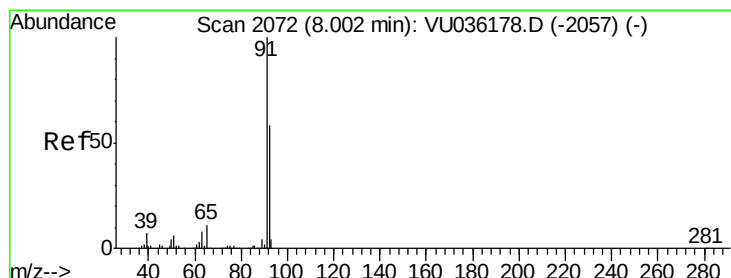
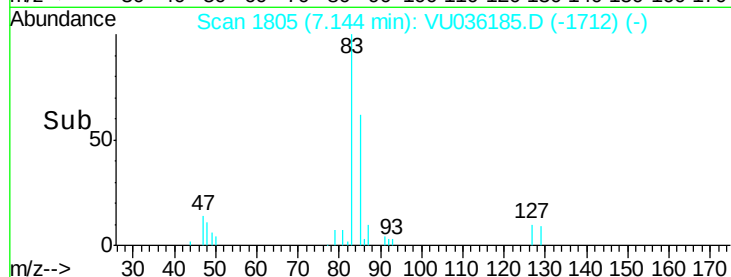
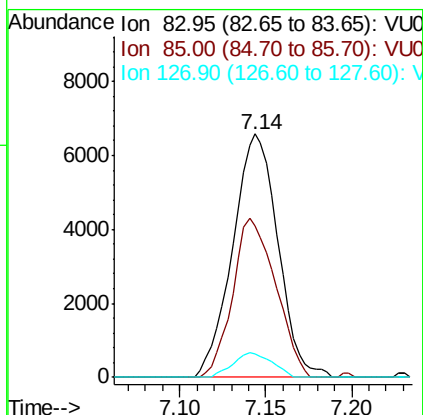
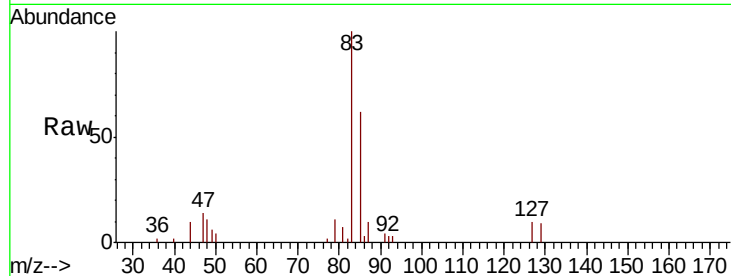
#38
Bromodichloromethane
Concen: 0.432 ug/L
RT: 7.14 min Scan# 1805
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Instrument :
MSVOA_U
ClientSampleId :
BFQW6

Tot Ion	83	Resp	12057
Ion Ratio	100	Lower	Upper
83	100		
85	62.1	44.7	83.1
127	9.9	7.4	11.0

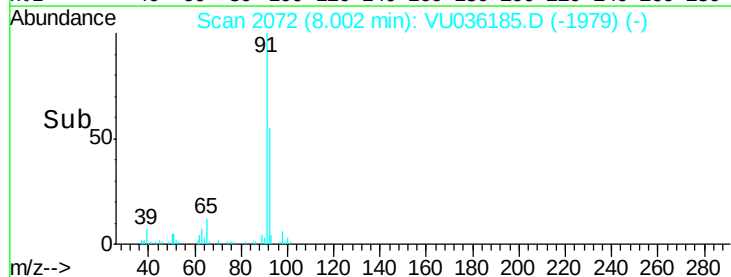
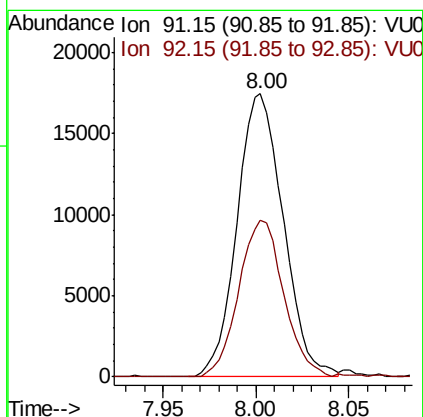
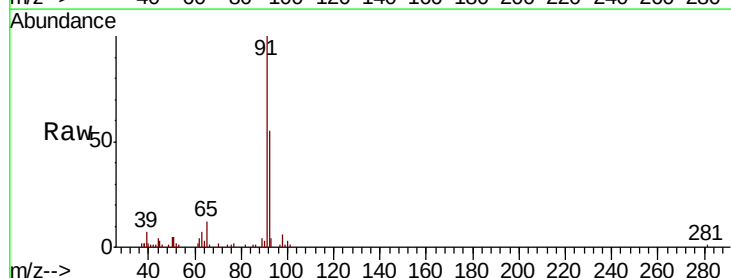
Manual Integrations
APPROVED

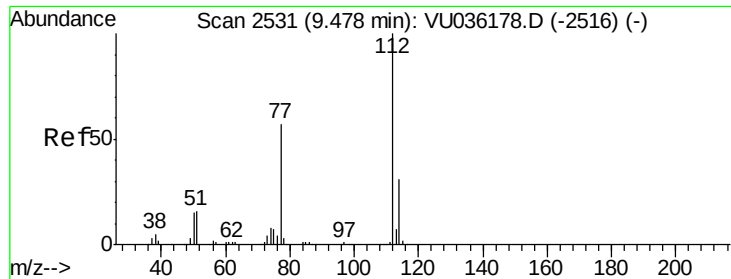
apatel
12/13/2019 3:58:55 PM



#42
Toluene
Concen: 0.338 ug/L
RT: 8.00 min Scan# 2072
Delta R.T. -0.00 min
Lab File: VU036185.D
Acq: 13 Dec 2019 06:30

Tgt Ion	91	Resp	30366
Ion Ratio	100	Lower	Upper
91	100		
92	55.2	40.7	75.7





#51

Chlorobenzene

Concen: 0.326 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

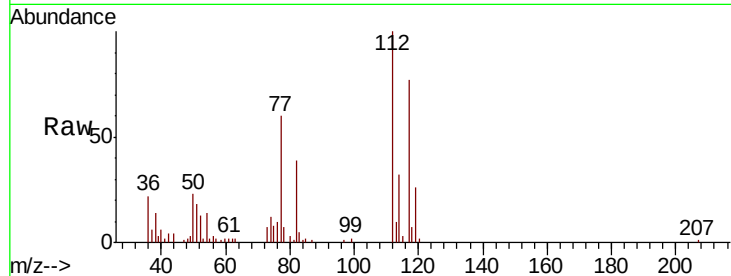
ClientSampleId :

BFQW6

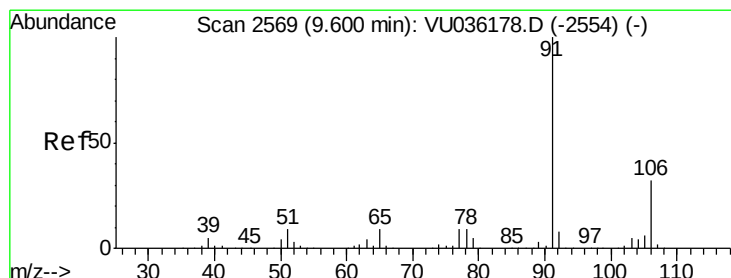
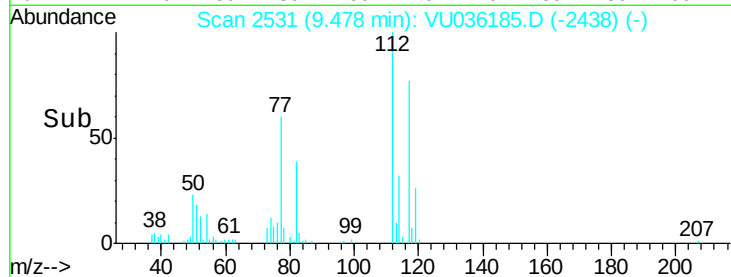
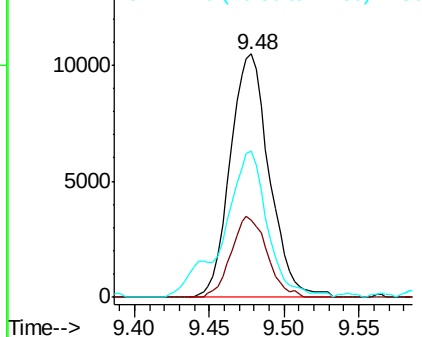
Tot Ion:	112	Resp:	19051
Ion Ratio	Lower	Upper	
112	100		
114	31.5	22.2	41.2
77	60.3	45.7	68.5

Manual Integrations
APPROVED

apatel
12/13/2019 3:58:55 PM



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V



#52

Ethylbenzene

Concen: 0.074 ug/L

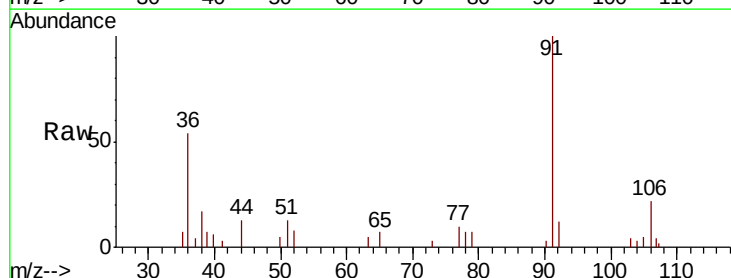
RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

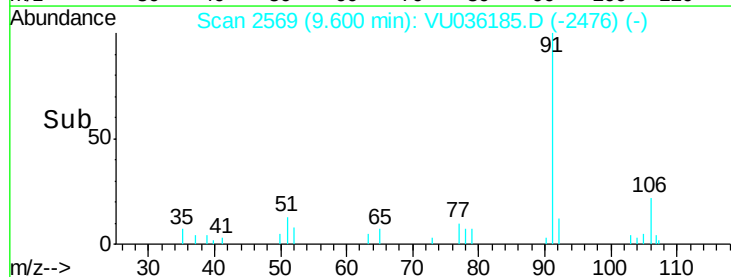
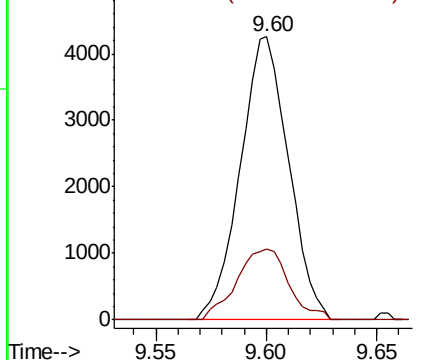
Lab File: VU036185.D

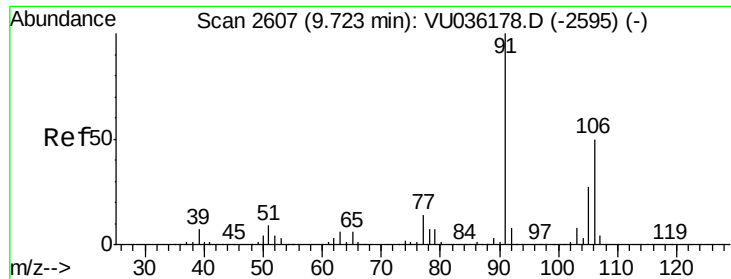
Acq: 13 Dec 2019 06:30

Tgt Ion:	91	Resp:	6464
Ion Ratio	Lower	Upper	
91	100		
106	25.3	21.6	40.2



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





#53

m,p-Xylene

Concen: 0.203 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VU036185.D

Acq: 13 Dec 2019 06:30

Instrument :

MSVOA_U

ClientSampleId :

BFQW6

Tot Ion:106 Resp: 6962

Ion Ratio Lower Upper

106 100

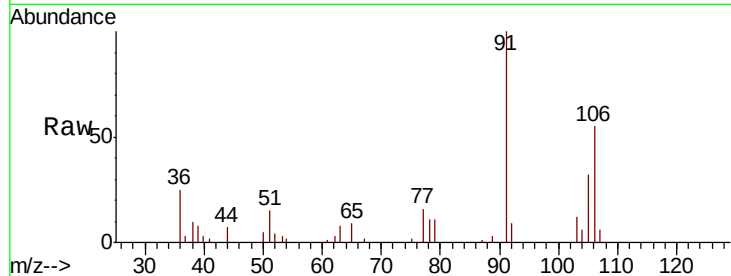
91 180.3 140.4 260.8

Manual Integrations

APPROVED

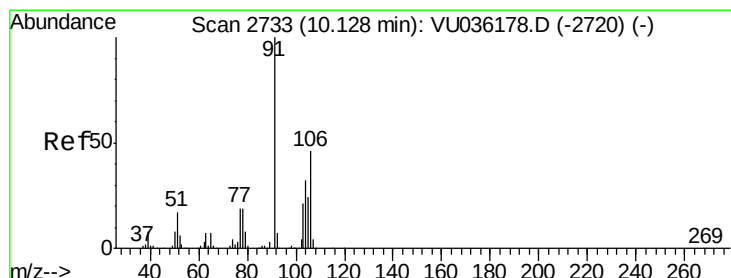
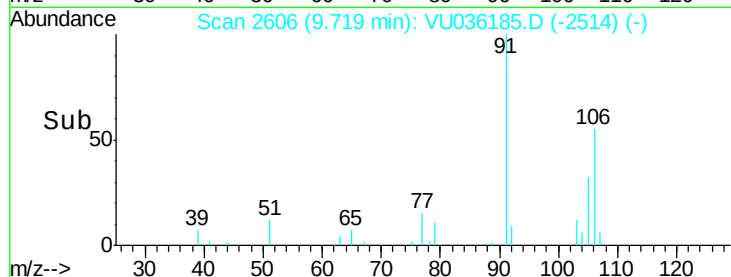
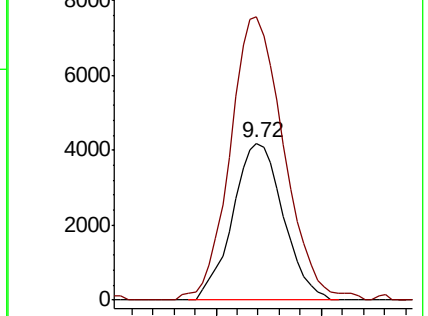
apatel

12/13/2019 3:58:55 PM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.155 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU036185.D

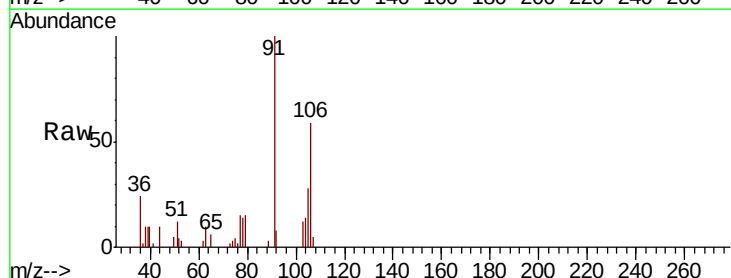
Acq: 13 Dec 2019 06:30

Tgt Ion:106 Resp: 5072

Ion Ratio Lower Upper

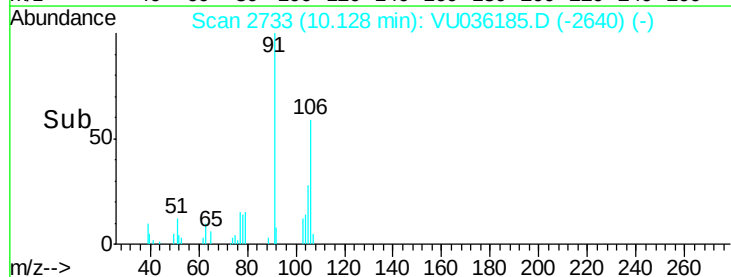
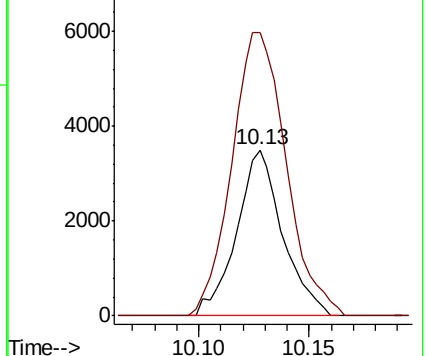
106 100

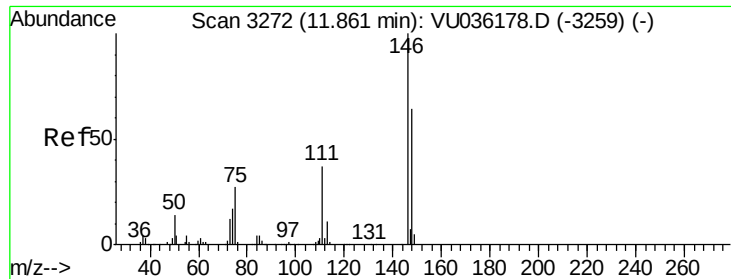
91 170.3 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





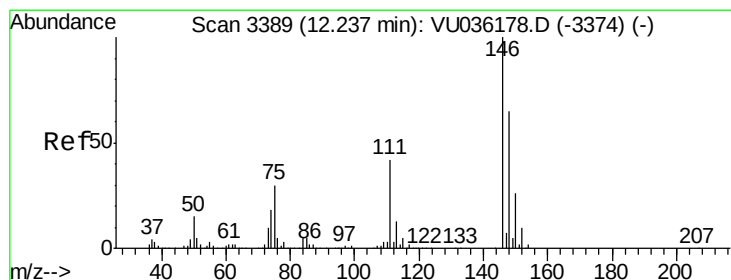
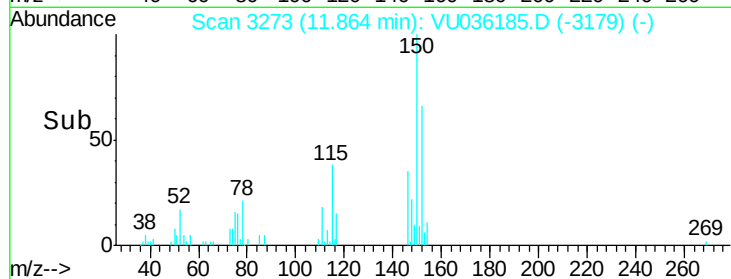
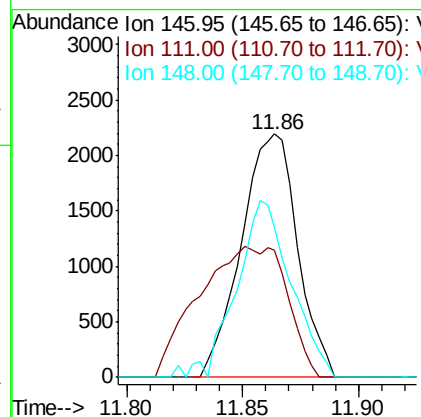
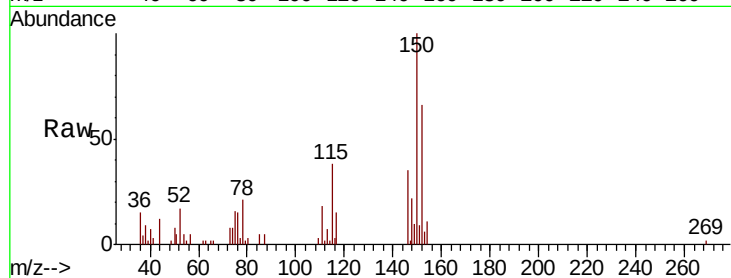
#63
 1,4-Dichlorobenzene
 Concen: 0.104 ug/L
 RT: 11.86 min Scan# 3273
 Delta R.T. 0.00 min
 Lab File: VU036185.D
 Acq: 13 Dec 2019 06:30

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW6

Tot Ion	Ratio	Lower	Upper
146	100		
111	52.3	27.5	51.1#
148	61.5	45.4	84.2

Manual Integrations
 APPROVED

apatel
 12/13/2019 3:58:55 PM



#65
 1,2-Dichlorobenzene
 Concen: 0.132 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. -0.00 min
 Lab File: VU036185.D
 Acq: 13 Dec 2019 06:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.1	33.3	49.9
148	64.2	52.2	78.2

