

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092519\
 Data File : VU034817.D
 Acq On : 25 Sep 2019 21:07
 Operator : JC/SP
 Sample : K4983-07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDM2

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 1:42:27 PM

Quant Time: Sep 26 13:23:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Sep 26 06:56:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	461727	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	443914	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	219811	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	195700	41.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.80%
7) Chloroethane-d5	1.67	69	169782	46.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.94%
11) 1,1-Dichloroethene-d2	2.26	63	279126m	34.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.74%
21) 2-Butanone-d5	4.15	46	403519	111.38	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	111.38%
24) Chloroform-d	4.62	84	328932	47.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.74%
26) 1,2-Dichloroethane-d4	5.28	65	228978	45.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.66%
32) Benzene-d6	5.32	84	699855	50.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.72%
36) 1,2-Dichloropropane-d6	6.31	67	245057	50.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.92%
41) Toluene-d8	7.54	98	668986	51.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.22%
43) trans-1,3-Dichloropropene-	7.83	79	105528	45.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.64%
47) 2-Hexanone-d5	8.29	63	297310	123.09	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	123.09%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	335866	50.33	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.66%
64) 1,2-Dichlorobenzene-d4	11.84	152	245374	53.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.46%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.31	43	123043	29.198	ug/L	96
15) Methyl Acetate	2.60	43	5503	0.978	ug/L #	90
16) Methylene chloride	2.68	84	80416	21.015	ug/L	91
22) 2-Butanone	4.25	43	30587	6.101	ug/L	91
29) Cyclohexane	4.97	56	15970	2.180	ug/L	95
33) Benzene	5.37	78	396721	25.768	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	24349	2.782	ug/L #	95
42) Toluene	7.61	91	1860248	111.801	ug/L	99
51) Chlorobenzene	9.10	112	15680	1.550	ug/L	95
52) Ethylbenzene	9.23	91	1458001	77.815	ug/L	97
53) m,p-Xylene	9.35	106	1896291	285.738	ug/L	97
54) o-xylene	9.76	106	1003389	152.862	ug/L	97
56) Isopropylbenzene	10.14	105	105573	5.965	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	10211	1.341	ug/L	88
63) 1,4-Dichlorobenzene	11.48	146	20941	2.701	ug/L	96
65) 1,2-Dichlorobenzene	11.85	146	221540	28.803	ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

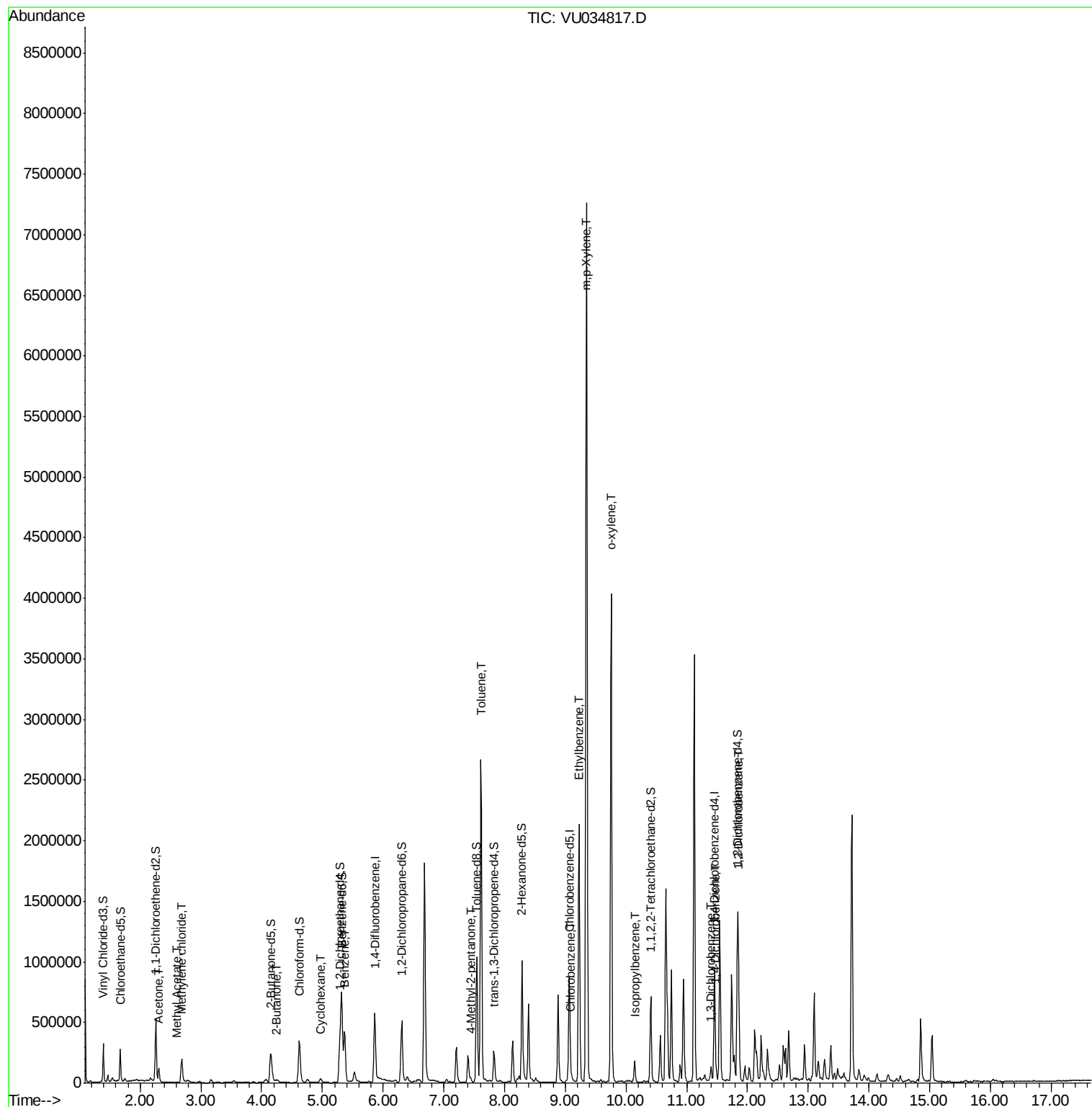
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Data File : VU034817.D
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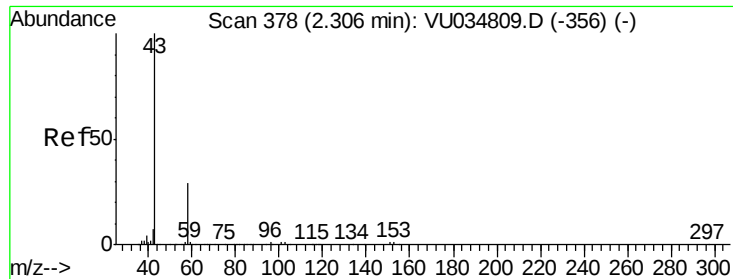
Instrument :
MSVOA_U
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Response via : Initial Calibration





#13

Acetone

Concen: 29.198 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU034817.D

Acq: 25 Sep 2019 21:07

Instrument :

MSVOA_U

ClientSampleId :

BFDM2

Tot Ion: 43 Resp: 123043

Ion Ratio Lower Upper

43 100

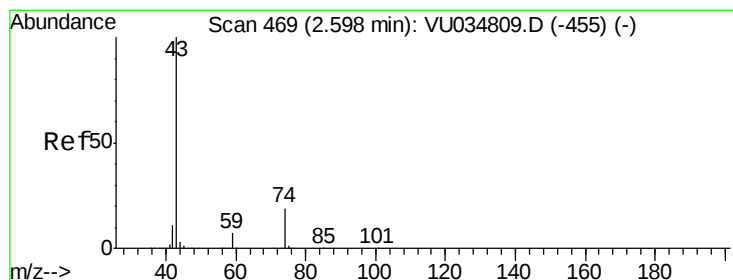
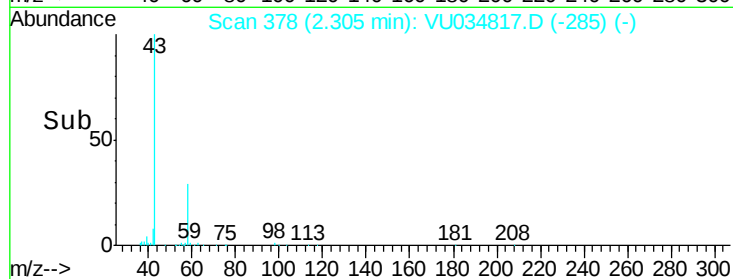
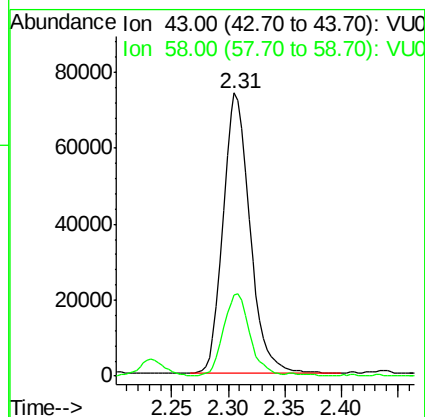
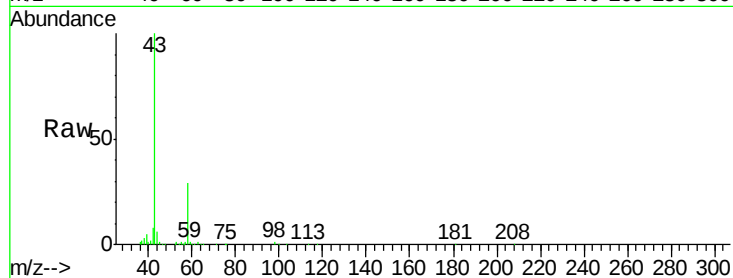
58 28.9 0.0 53.4

Manual Integrations

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#15

Methyl Acetate

Concen: 0.978 ug/L

RT: 2.60 min Scan# 471

Delta R.T. 0.01 min

Lab File: VU034817.D

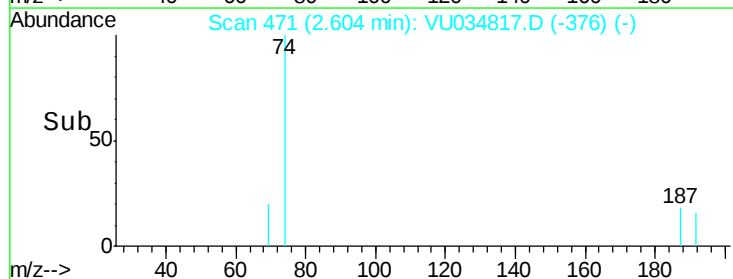
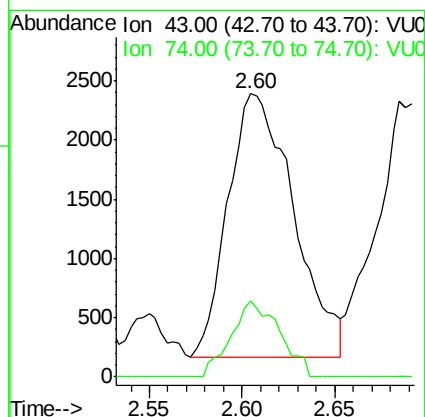
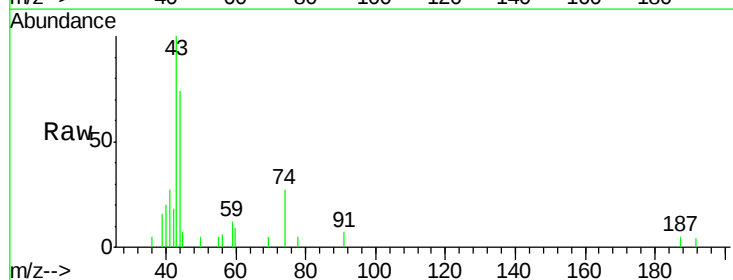
Acq: 25 Sep 2019 21:07

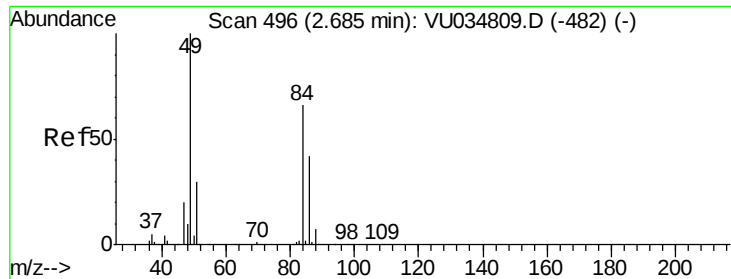
Tgt Ion: 43 Resp: 5503

Ion Ratio Lower Upper

43 100

74 13.6 14.4 21.6#





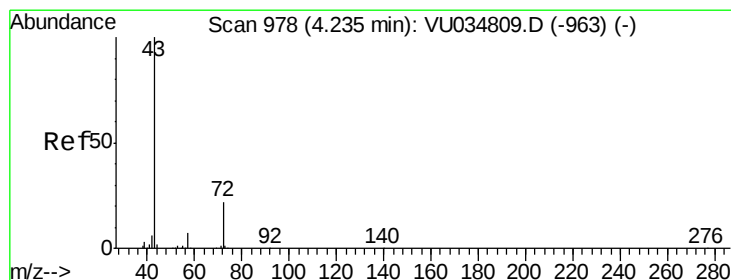
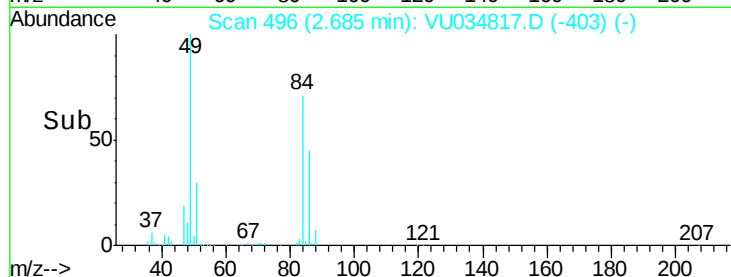
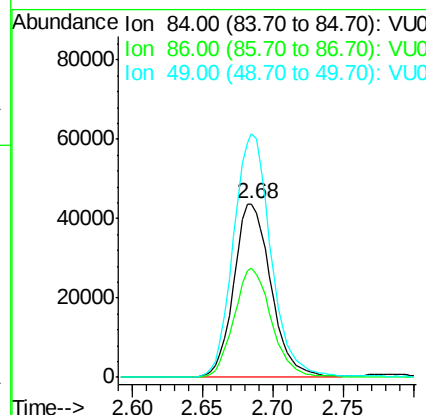
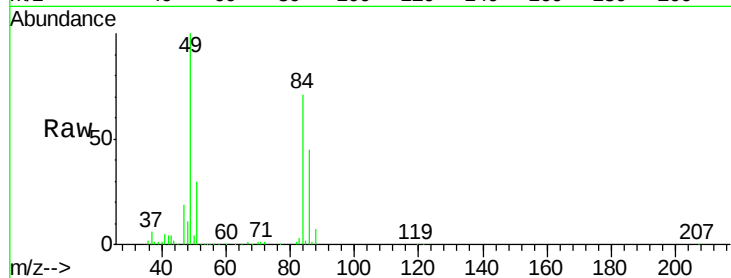
#16
Methvlene chloride
Concen: 21.015 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU034817.D
Acq: 25 Sep 2019 21:07

Instrument :
MSVOA_U
ClientSampleId :
BFDM2

Tot Ion	84	Resp	80416
Ion	Ratio	Lower	Upper
84	100		
86	63.0	43.0	80.0
49	140.5	109.7	203.7

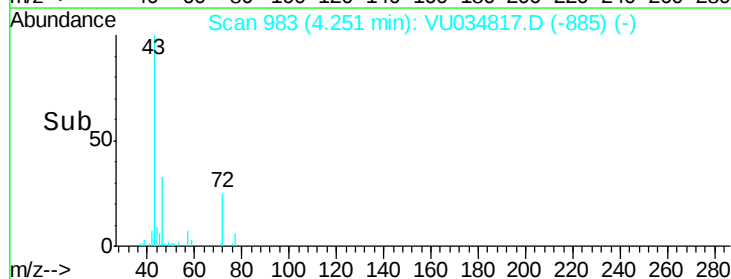
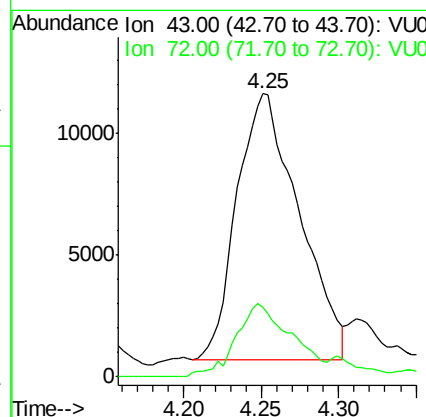
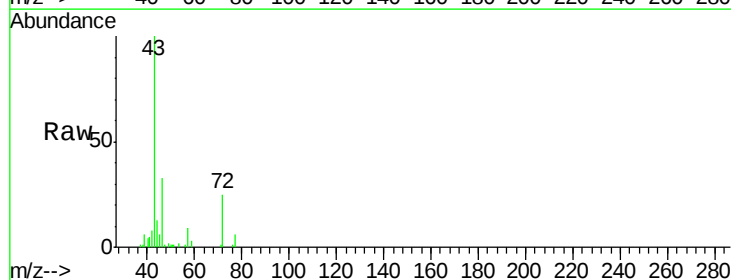
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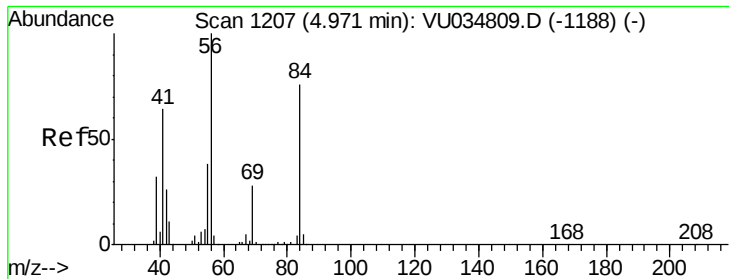
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#22
2-Butanone
Concen: 6.101 ug/L
RT: 4.25 min Scan# 983
Delta R.T. 0.02 min
Lab File: VU034817.D
Acq: 25 Sep 2019 21:07

Tgt Ion	43	Resp	30587
Ion	Ratio	Lower	Upper
43	100		
72	24.7	10.2	30.6





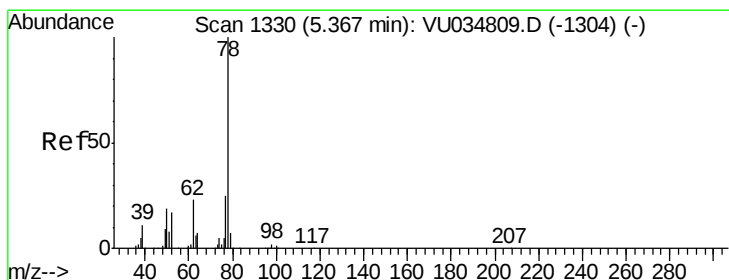
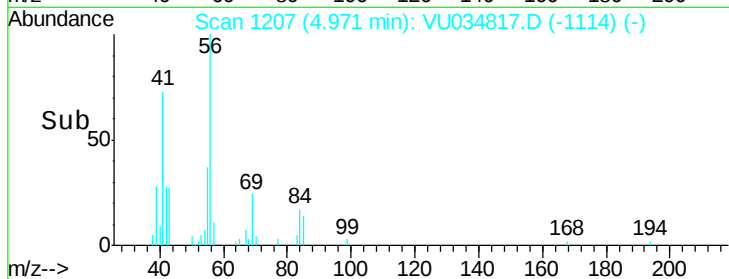
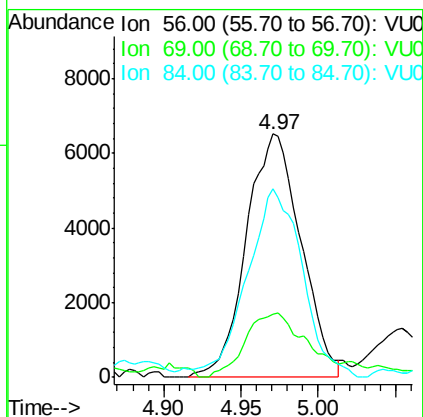
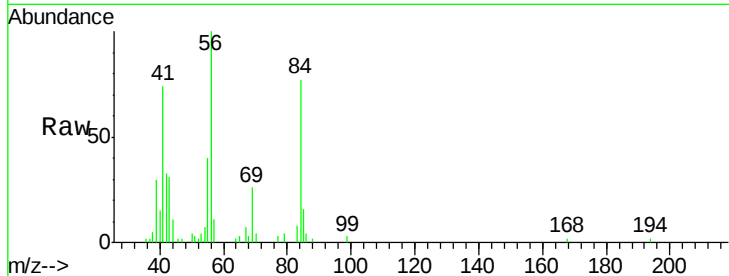
#29
Cyclohexane
Concen: 2.180 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU034817.D
Acq: 25 Sep 2019 21:07

Instrument :
MSVOA_U
ClientSampleId :
BFD2M2

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.2	21.7	32.5
84	78.5	58.8	88.2

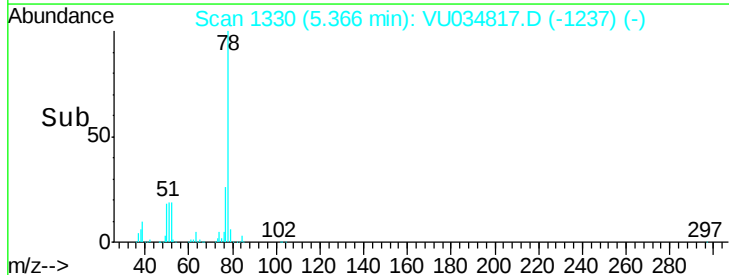
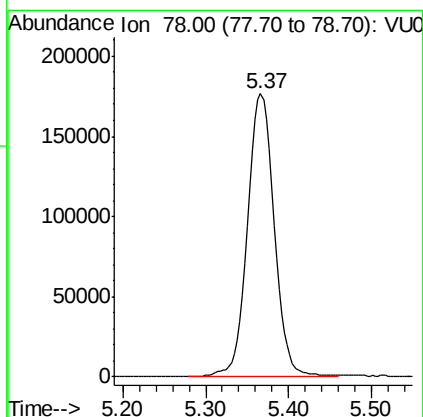
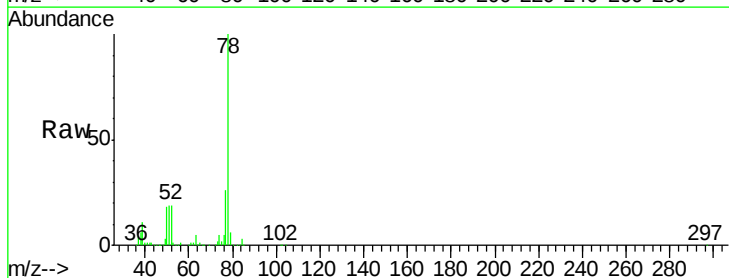
Manual Integrations
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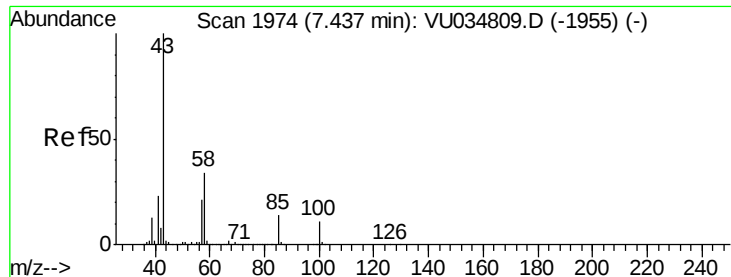
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#33
Benzene
Concen: 25.768 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VU034817.D
Acq: 25 Sep 2019 21:07

Tgt Ion: 78 Resp: 396721





#40

4-Methyl-2-pentanone

Concen: 2.782 ug/L

RT: 7.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VU034817.D

Acq: 25 Sep 2019 21:07

Instrument :

MSVOA_U

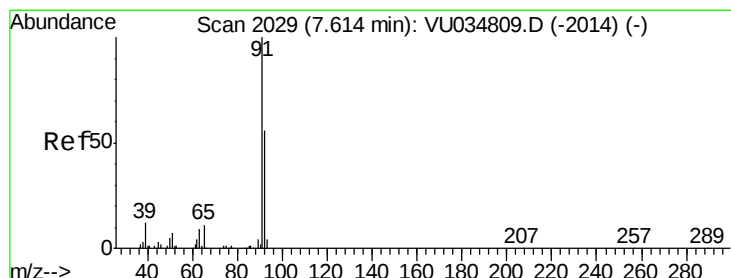
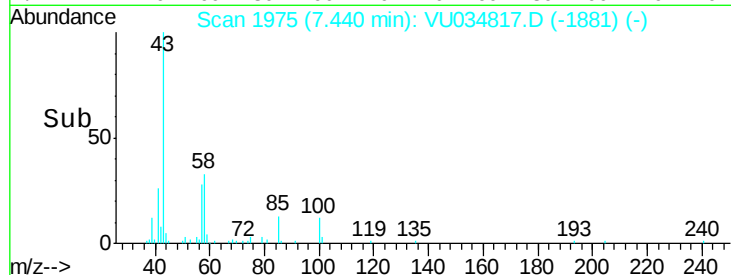
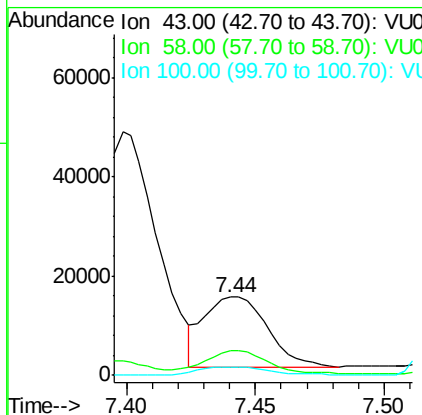
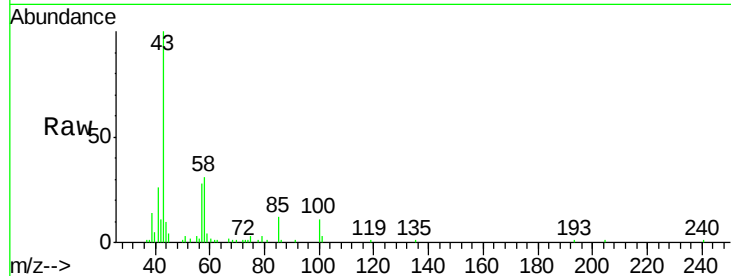
ClientSampleId :

BFDM2

Tot Ion:	43	Resp:	24349
Ion Ratio	Lower	Upper	
43	100		
58	33.5	25.2	37.8
100	12.8	7.7	11.5#

Manual Integrations
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#42

Toluene

Concen: 111.801 ug/L

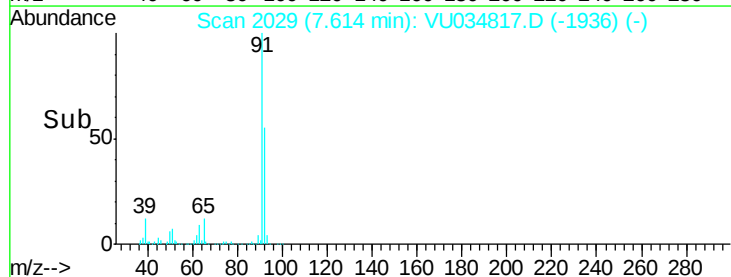
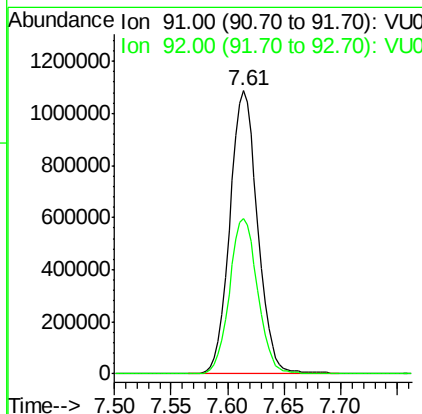
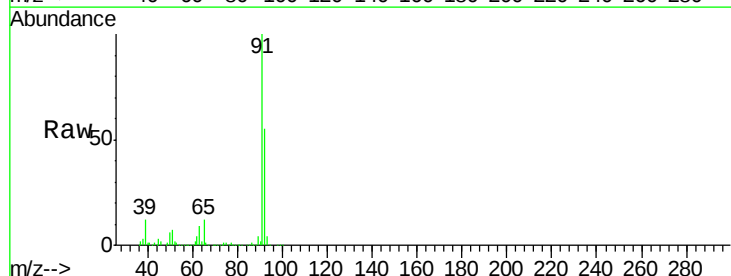
RT: 7.61 min Scan# 2029

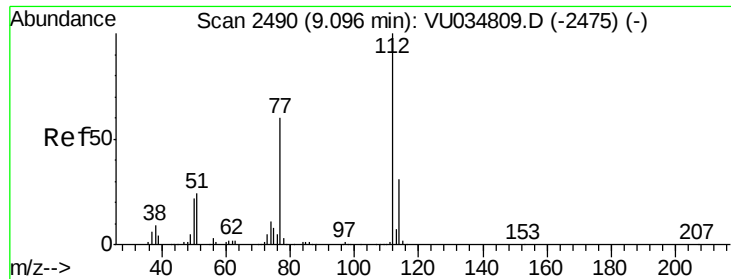
Delta R.T. -0.00 min

Lab File: VU034817.D

Acq: 25 Sep 2019 21:07

Tgt Ion:	91	Resp:	1860248
Ion Ratio	Lower	Upper	
91	100		
92	55.1	38.2	71.0





#51

Chlorobenzene

Concen: 1.550 ug/L

RT: 9.10 min Scan# 2490

Delta R.T. -0.00 min

Lab File: VU034817.D

Acq: 25 Sep 2019 21:07

Instrument :

MSVOA_U

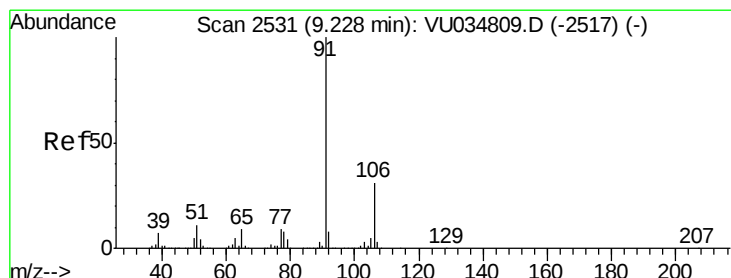
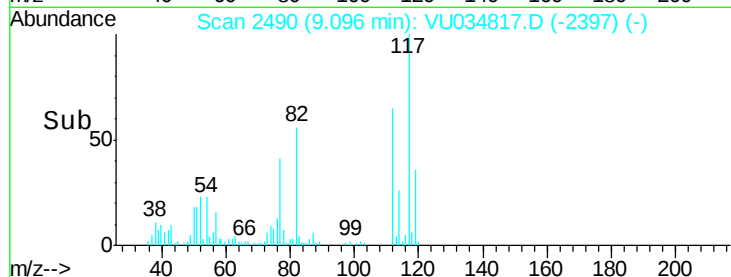
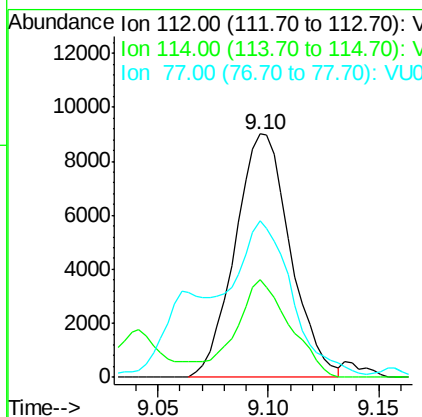
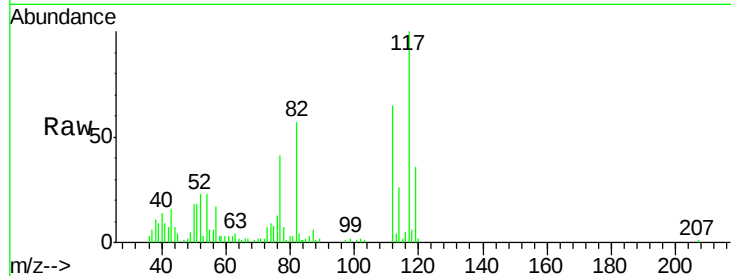
ClientSampleId :

BFDM2

Tot Ion:	112	Resp:	15680
Ion Ratio	Lower	Upper	
112	100		
114	39.9	22.8	42.4
77	64.1	51.5	77.3

Manual Integrations
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#52

Ethylbenzene

Concen: 77.815 ug/L

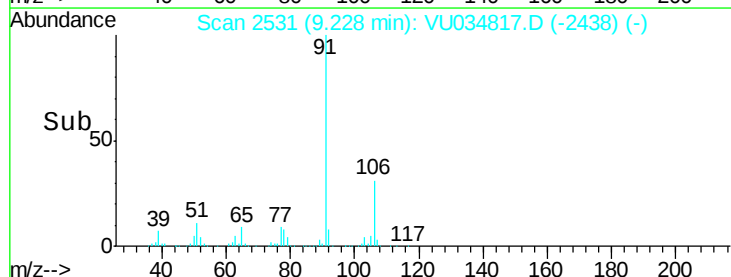
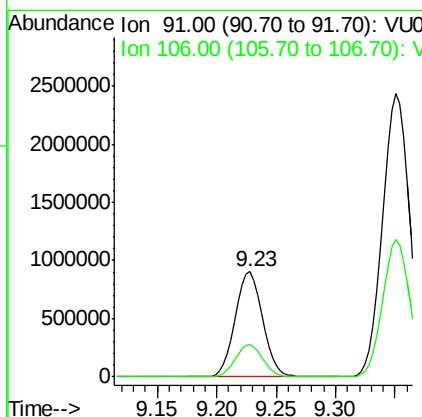
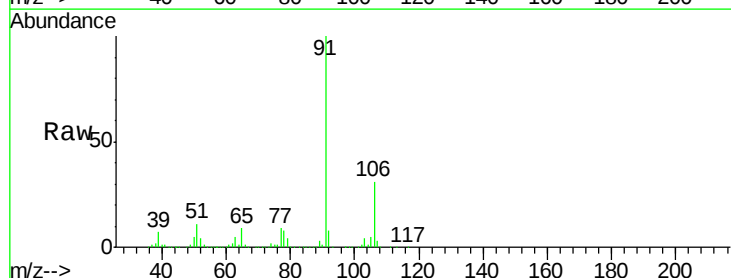
RT: 9.23 min Scan# 2531

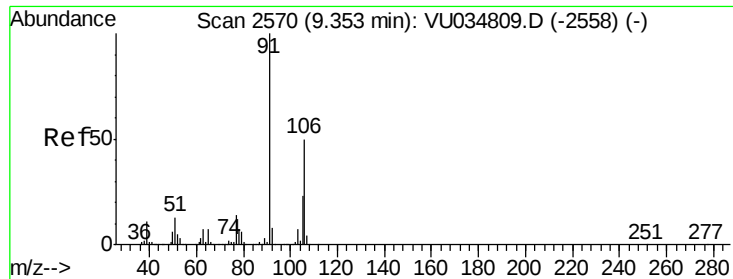
Delta R.T. -0.00 min

Lab File: VU034817.D

Acq: 25 Sep 2019 21:07

Tgt Ion:	91	Resp:	1458001
Ion Ratio	Lower	Upper	
91	100		
106	31.2	20.6	38.4





#53

m,p-Xylene

Concen: 285.738 ug/L

RT: 9.35 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU034817.D

Acq: 25 Sep 2019 21:07

Instrument :

MSVOA_U

ClientSampled :

BFDM2

Tot Ion:106 Resp: 1896291

Ion Ratio Lower Upper

106 100

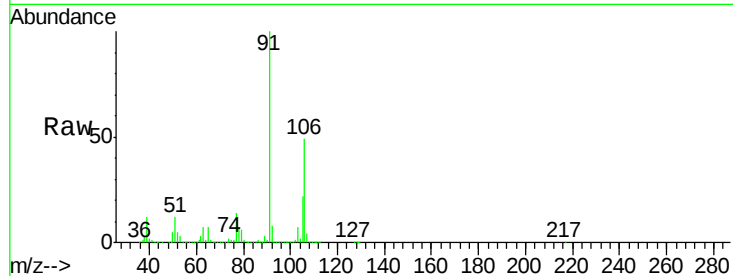
91 205.5 146.9 272.7

Manual Integrations

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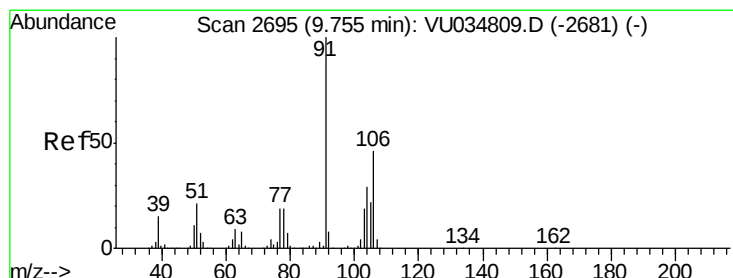
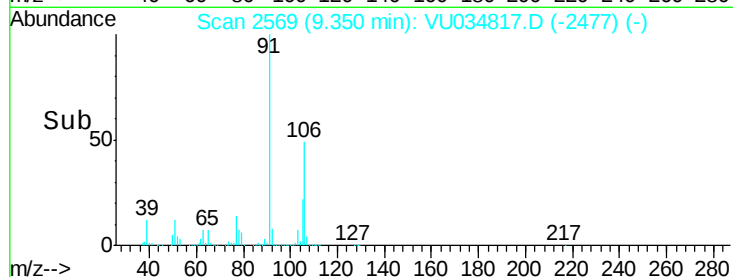
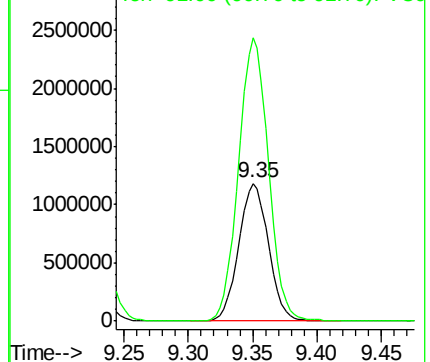
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 152.862 ug/L

RT: 9.76 min Scan# 2695

Delta R.T. -0.00 min

Lab File: VU034817.D

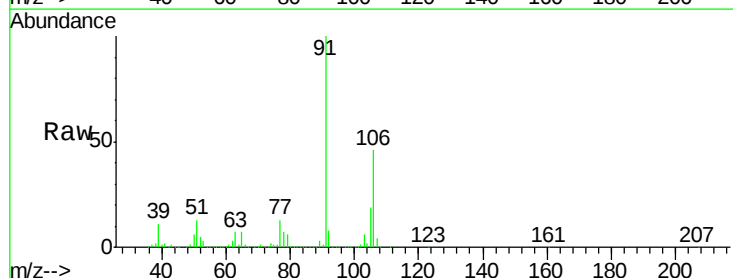
Acq: 25 Sep 2019 21:07

Tgt Ion:106 Resp: 1003389

Ion Ratio Lower Upper

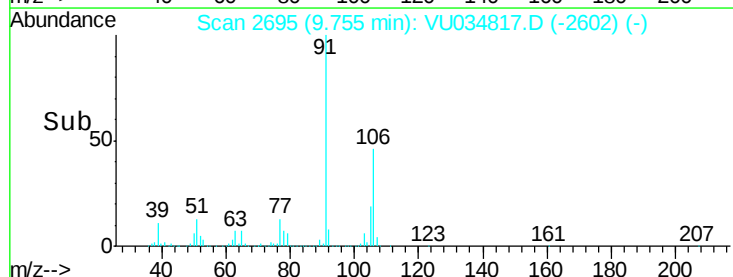
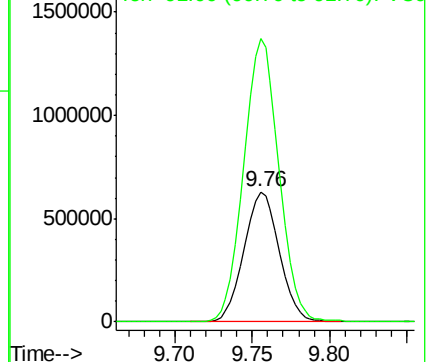
106 100

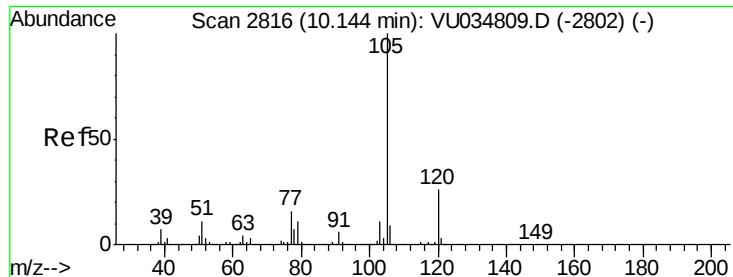
91 218.1 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 5.965 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034817.D

Acq: 25 Sep 2019 21:07

Instrument :

MSVOA_U

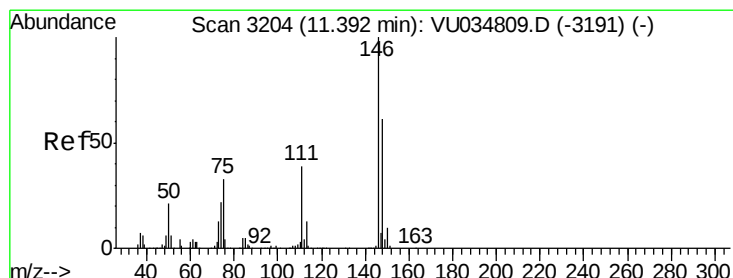
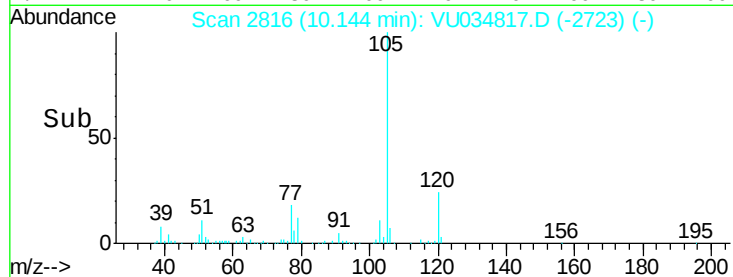
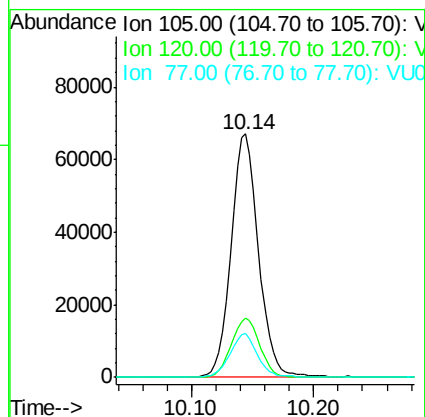
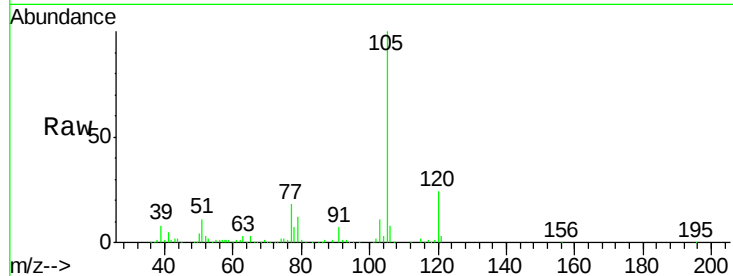
ClientSampleId :

BFD2

Tot Ion:	105	Resp:	105573
Ion Ratio	Lower	Upper	
105	100		
120	25.0	20.4	30.6
77	17.8	14.2	21.4

Manual Integrations
APPROVED

MMDadoda
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#62

1,3-Dichlorobenzene

Concen: 1.341 ug/L

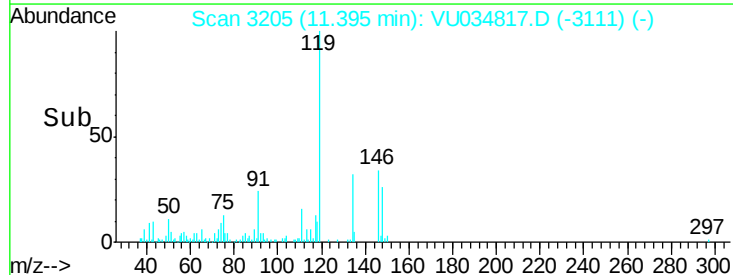
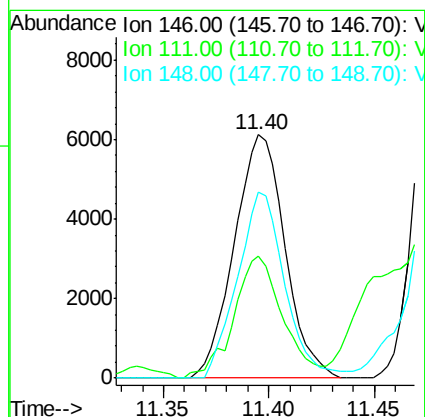
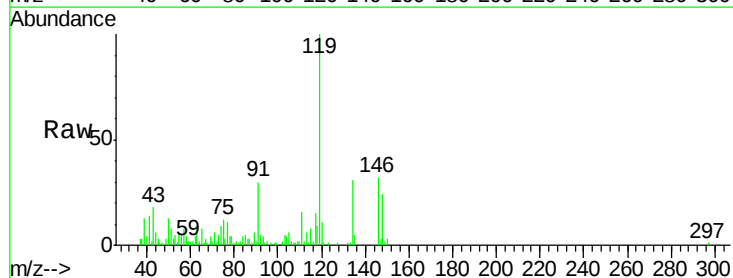
RT: 11.40 min Scan# 3205

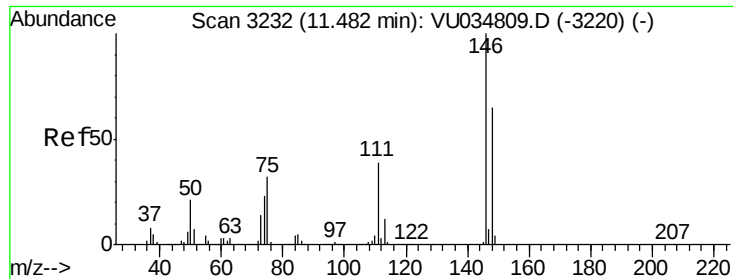
Delta R.T. 0.00 min

Lab File: VU034817.D

Acq: 25 Sep 2019 21:07

Tgt Ion:	146	Resp:	10211
Ion Ratio	Lower	Upper	
146	100		
111	50.1	30.4	56.5
148	76.4	46.1	85.7





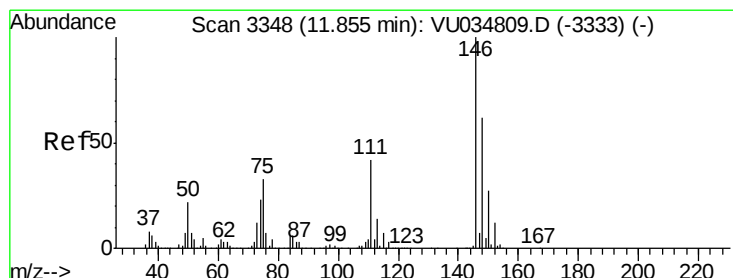
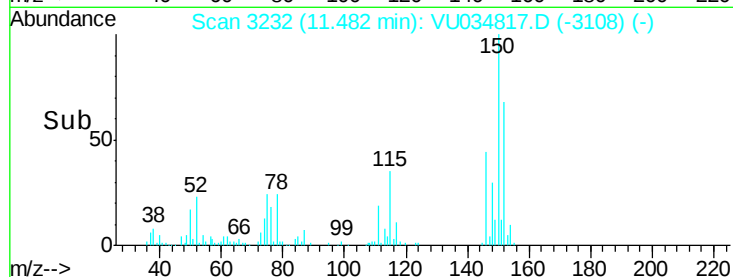
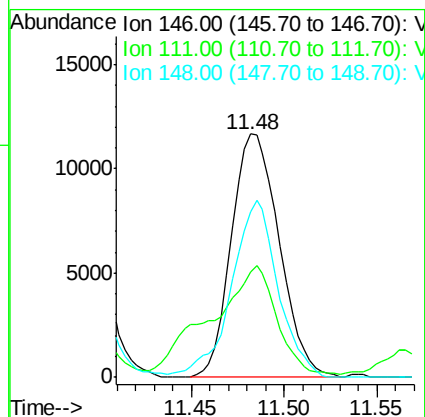
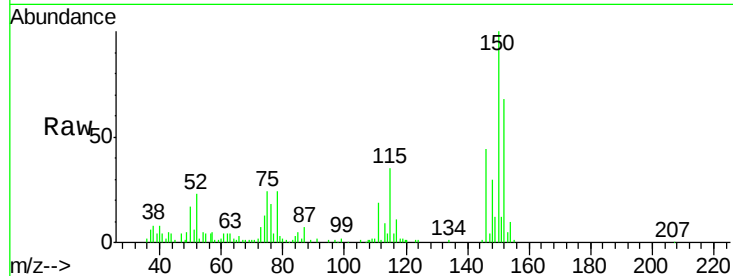
#63
 1,4-Dichlorobenzene
 Concen: 2.701 ug/L
 RT: 11.48 min Scan# 3232
 Delta R.T. -0.00 min
 Lab File: VU034817.D
 Acq: 25 Sep 2019 21:07

Instrument :
 MSVOA_U
 ClientSampleId :
 BFDM2

Tot Ion:	146	Resp:	20941
Ion Ratio	Lower	Upper	
146	100		
111	43.3	29.5	54.9
148	68.2	44.4	82.4

Manual Integrations
 APPROVED

MMDadoda
 9/26/2019 1:42:27 PM



#65
 1,2-Dichlorobenzene
 Concen: 28.803 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034817.D
 Acq: 25 Sep 2019 21:07

Tgt Ion:	146	Resp:	221540
Ion Ratio	Lower	Upper	
146	100		
111	41.5	35.2	52.8
148	64.3	53.0	79.6

