

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033960.D
 Acq On : 25 Jun 2019 6:34
 Operator : SY/AP
 Sample : K3474-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

Manual Integrations
 APPROVED

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 6/26/2019 8:15:59 AM

Quant Time: Jun 25 09:12:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	838872	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.27	114	2000688	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.21	117	2112049	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.55	95	1671848	9.64	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.03	41	11270	0.305	ppbv	91
13) Ethanol	3.64	45	228840	19.034	ppbv	97
15) Acetone	3.89	43	292177	2.388	ppbv	97
17) tert-Butyl alcohol	4.36	59	21094m	0.221	ppbv	
19) Isopropyl Alcohol	4.02	45	256371	3.668	ppbv #	97
20) Methylene Chloride	4.39	84	22440	0.470	ppbv #	87
22) trans-1,2-Dichloroethene	4.95	96	9905	0.187	ppbv	88
24) 1,1-Dichloroethane	5.07	63	84839	0.767	ppbv	96
26) Hexane	5.76	57	16388m	0.193	ppbv	
32) 1,1,1-Trichloroethane	6.60	97	465041	3.318	ppbv	99
34) 2-Butanone	5.32	43	44936	0.398	ppbv	100
41) Tetrahydrofuran	6.14	42	33015m	0.576	ppbv	
53) Toluene	9.92	91	33749m	0.200	ppbv	

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

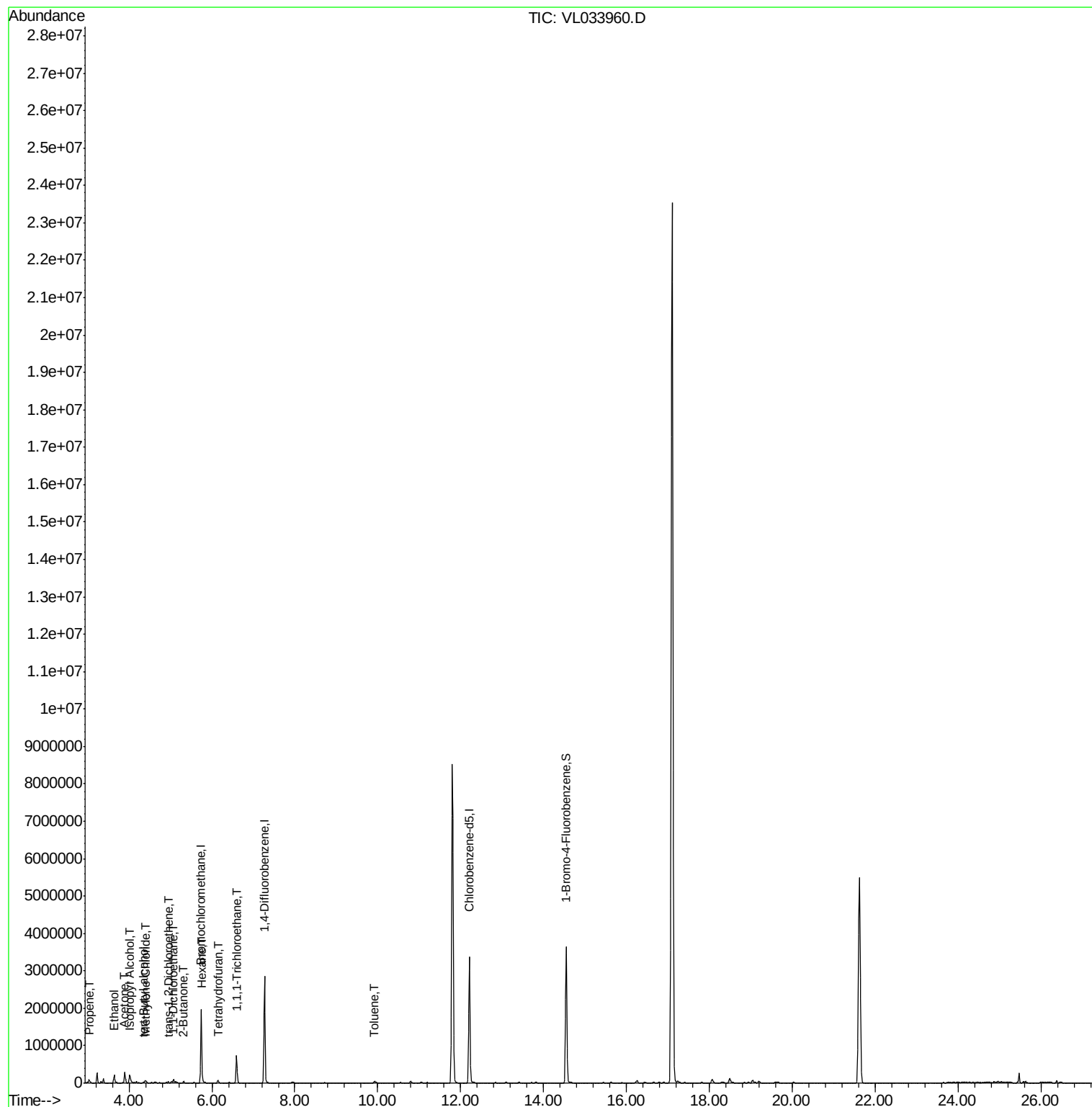
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
Data File : VL033960.D
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Misc : 400ml/MSVOA L
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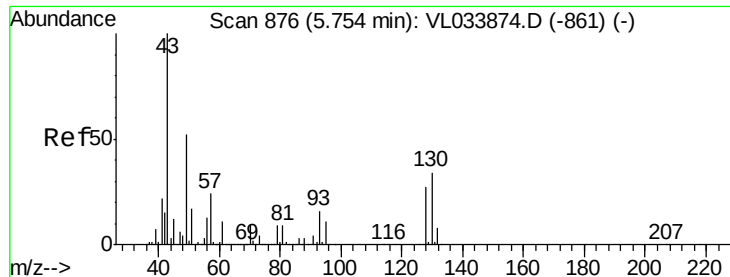
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

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6/26/2019 8:15:59 AM

Quant Time: Jun 25 09:12:52 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.01 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

Tot Ion: 49 Resp: 838872

Ion Ratio Lower Upper

49 100

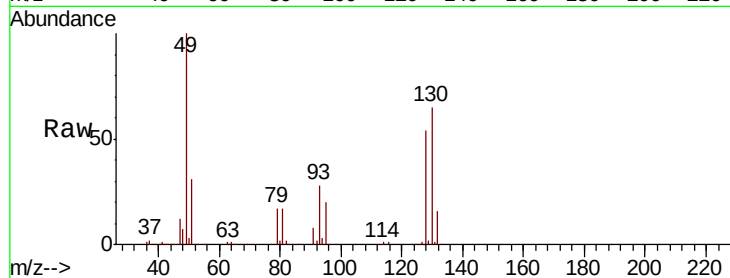
128 52.6 25.5 76.5

130 67.0 32.5 97.4

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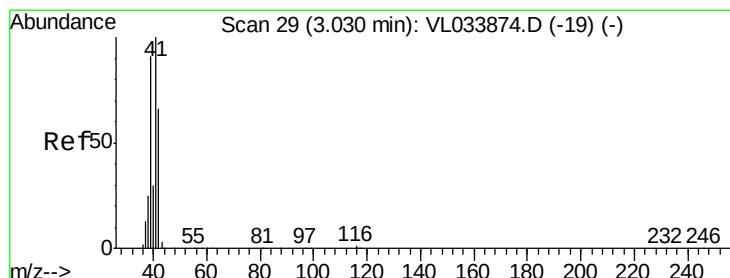
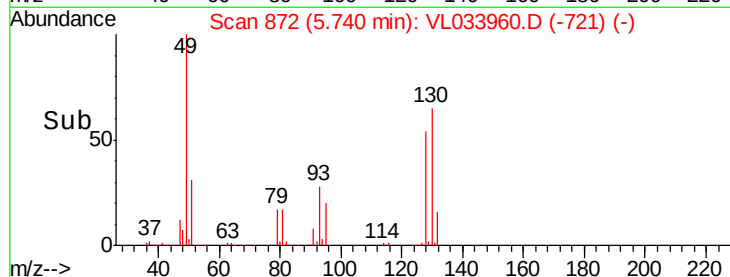
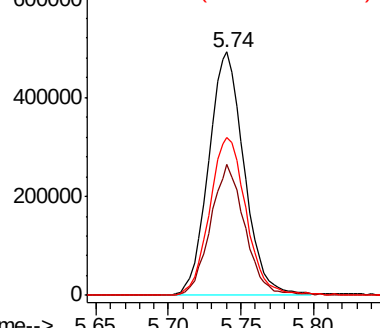
6/26/2019 8:15:59 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 0.305 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033960.D

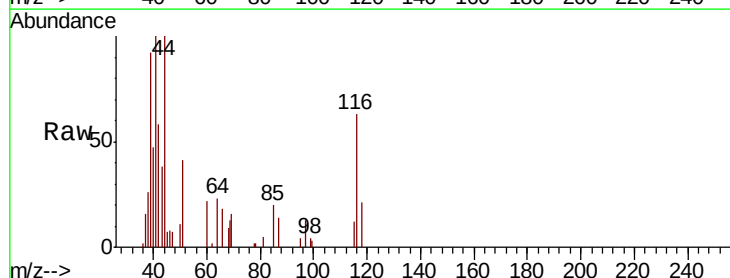
Acq: 25 Jun 2019 6:34

Tgt Ion: 41 Resp: 11270

Ion Ratio Lower Upper

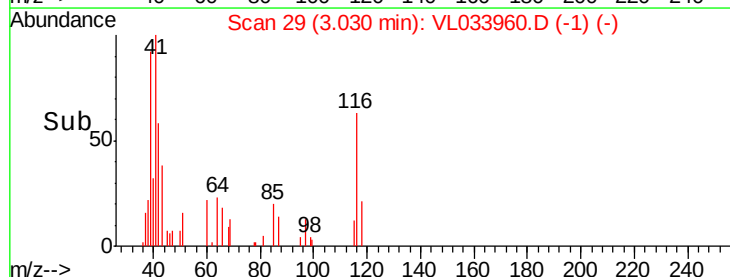
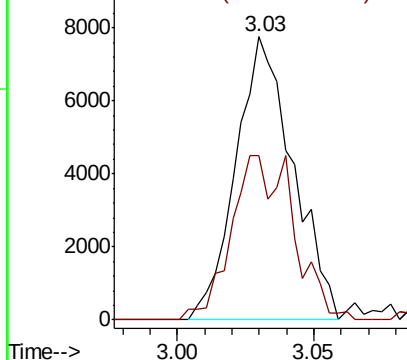
41 100

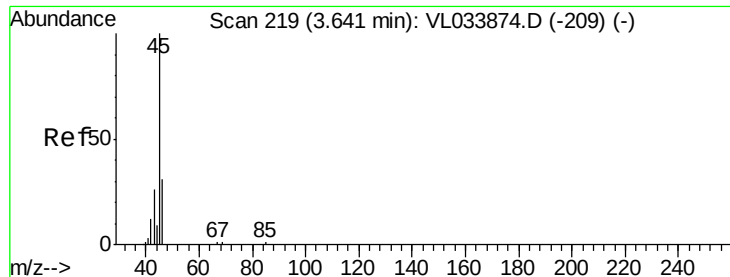
42 63.1 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 19.034 ppbv

RT: 3.64 min Scan# 219

Delta R.T. -0.00 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

Instrument :

MSVOA_L

ClientSampleID :

INFLUENTDL

Tot Ion: 45 Resp: 228840

Ion Ratio Lower Upper

45 100

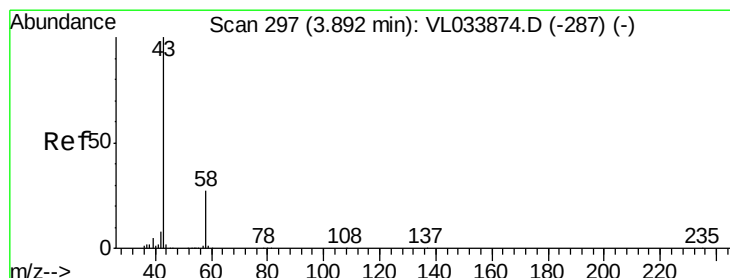
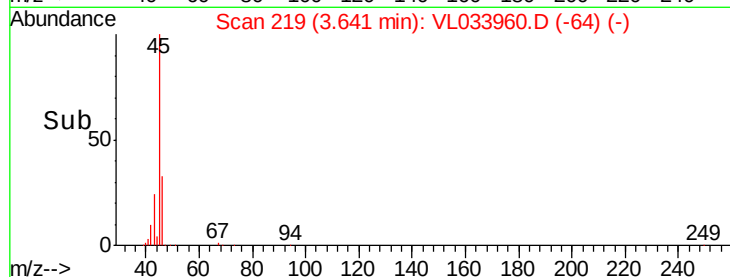
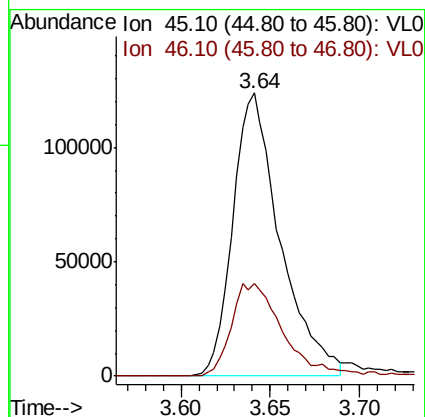
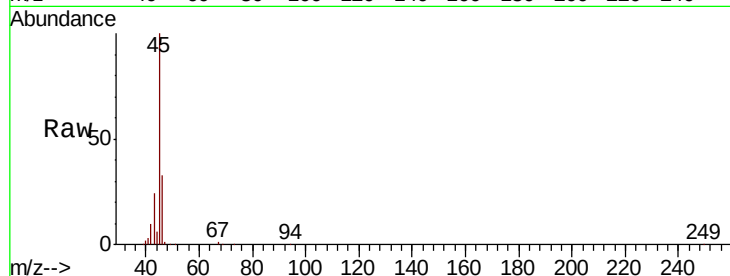
46 36.5 15.3 61.1

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#15

Acetone

Concen: 2.388 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.00 min

Lab File: VL033960.D

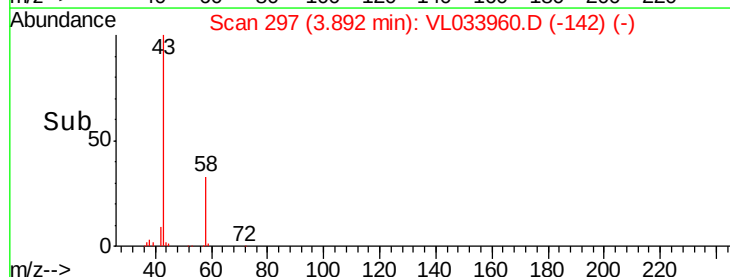
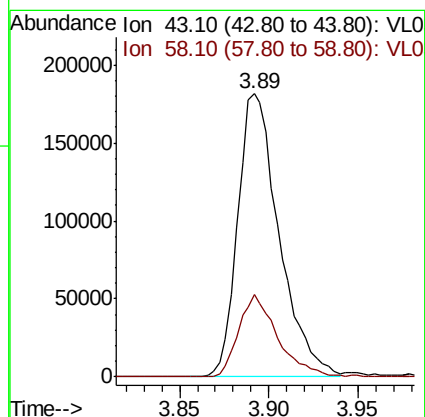
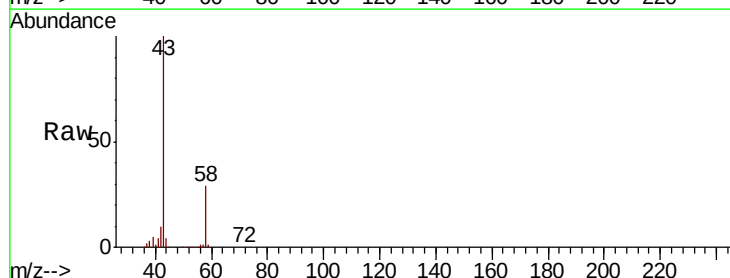
Acq: 25 Jun 2019 6:34

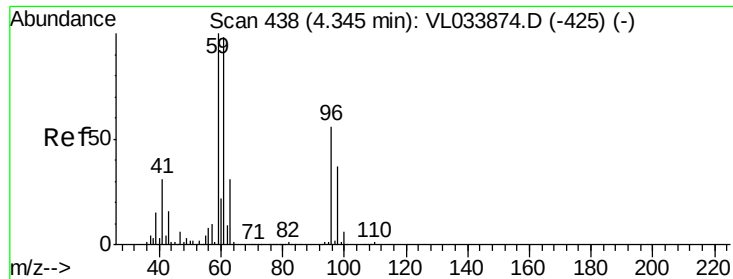
Tgt Ion: 43 Resp: 292177

Ion Ratio Lower Upper

43 100

58 27.9 21.3 31.9





#17

tert-Butyl alcohol

Concen: 0.221 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.01 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

Tot Ion: 59 Resp: 21094

Ion Ratio Lower Upper

59 100

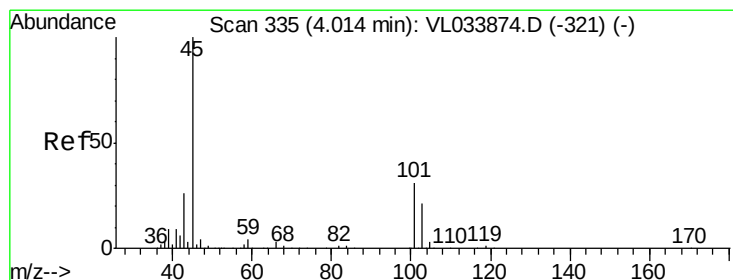
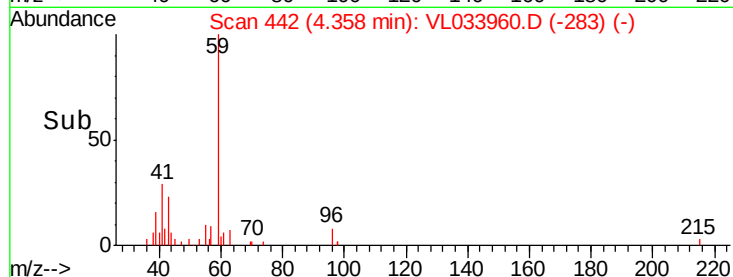
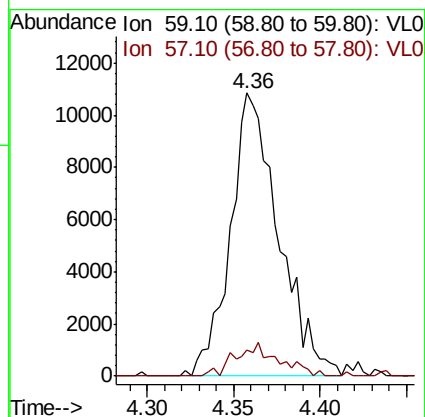
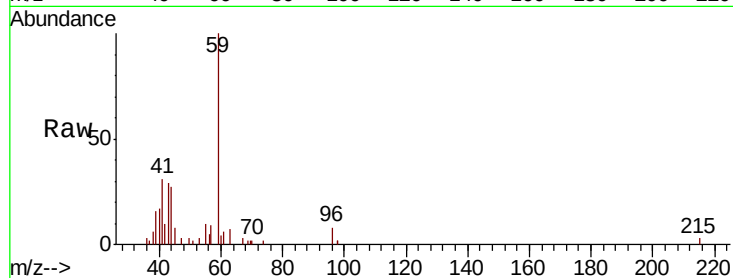
57 10.4 8.4 12.6

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#19

Isopropyl Alcohol

Concen: 3.668 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL033960.D

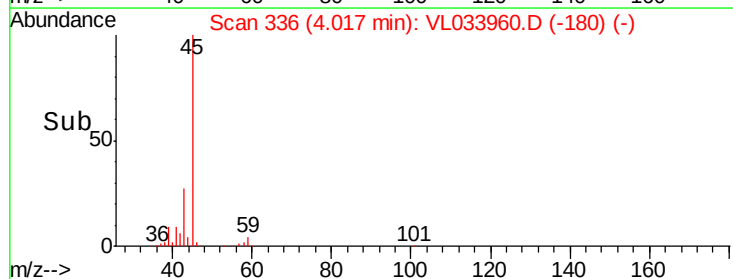
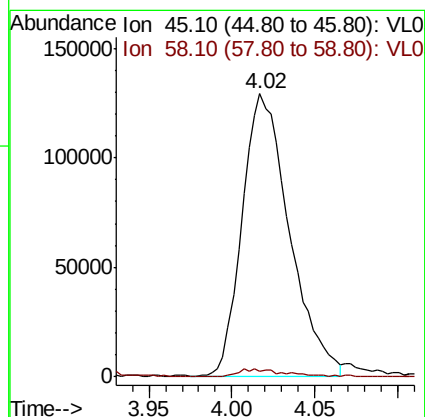
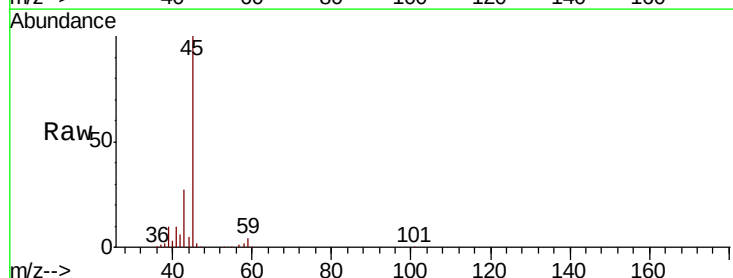
Acq: 25 Jun 2019 6:34

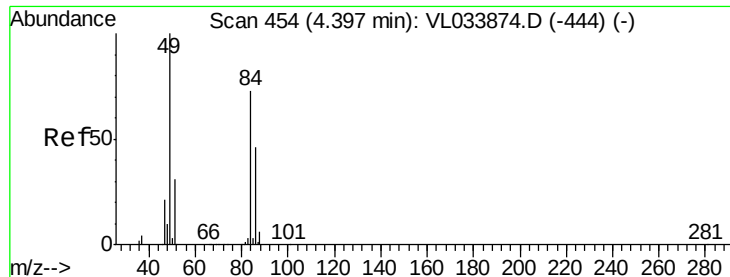
Tgt Ion: 45 Resp: 256371

Ion Ratio Lower Upper

45 100

58 3.2 1.8 2.6#





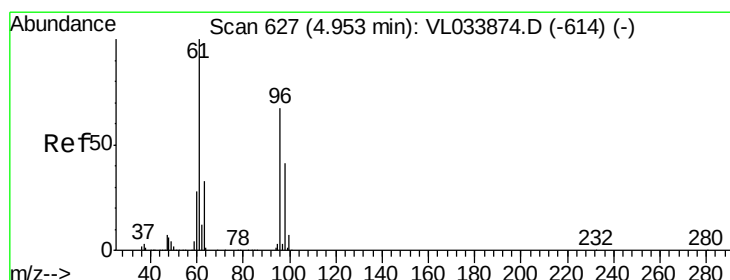
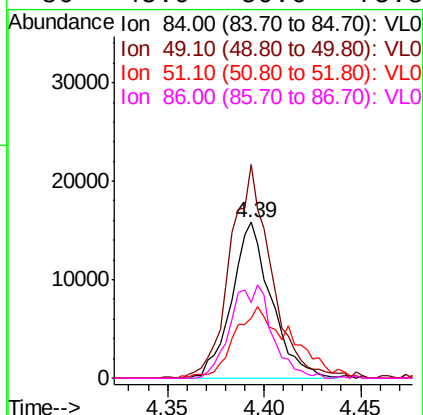
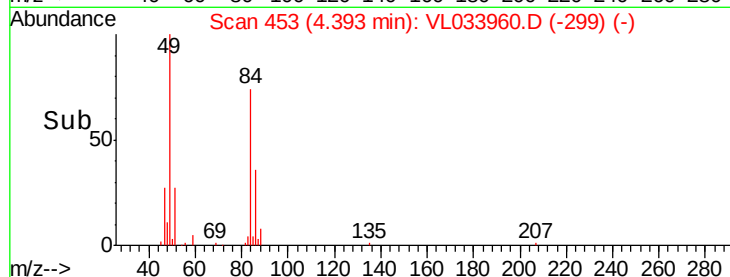
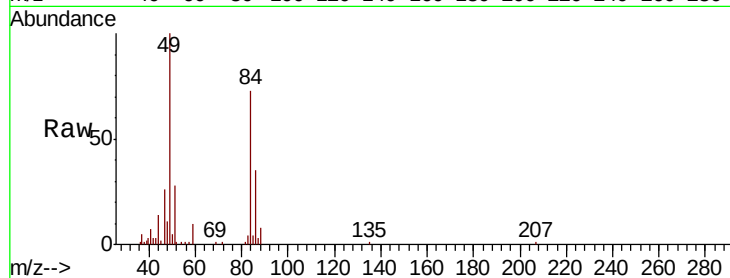
#20
Methylene Chloride
Concen: 0.470 ppbv
RT: 4.39 min Scan# 453
Delta R.T. -0.00 min
Lab File: VL033960.D
Acq: 25 Jun 2019 6:34

Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

Tot Ion	Ratio	Lower	Upper
84	100		
49	127.3	110.0	165.0
51	35.5	34.6	51.8
86	45.9	50.6	75.8

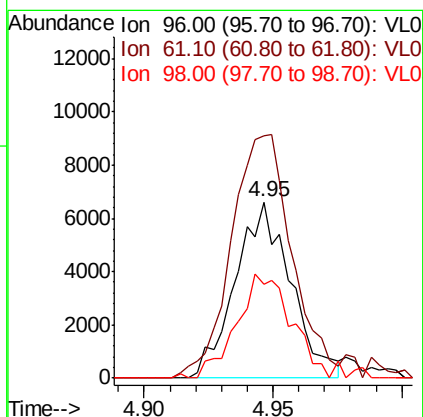
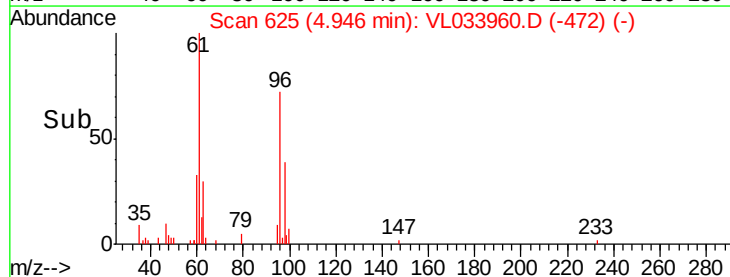
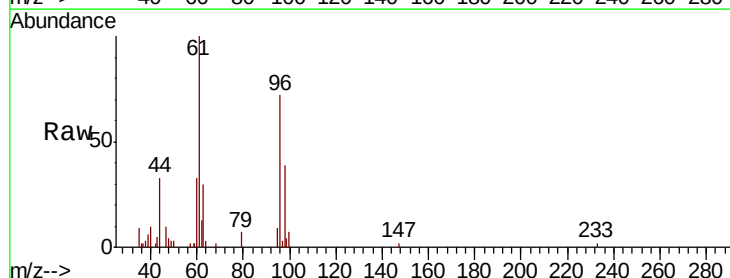
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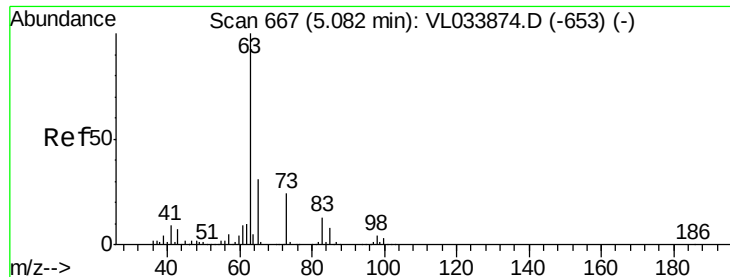
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#22
trans-1,2-Dichloroethene
Concen: 0.187 ppbv
RT: 4.95 min Scan# 625
Delta R.T. -0.01 min
Lab File: VL033960.D
Acq: 25 Jun 2019 6:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	131.5	119.0	178.6
98	53.7	48.3	72.5





#24

1,1-Dichloroethane

Concen: 0.767 ppbv

RT: 5.07 min Scan# 664

Delta R.T. -0.01 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

Instrument :

MSVOA_L

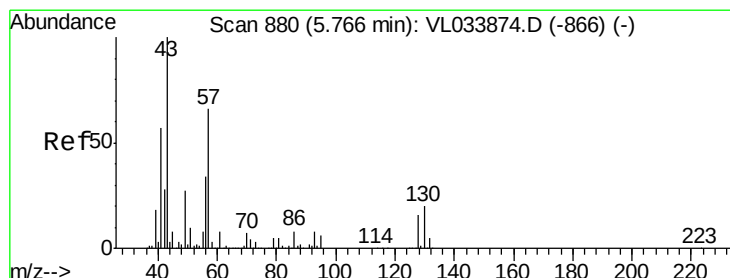
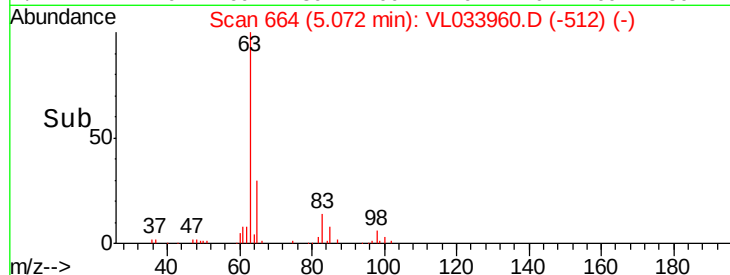
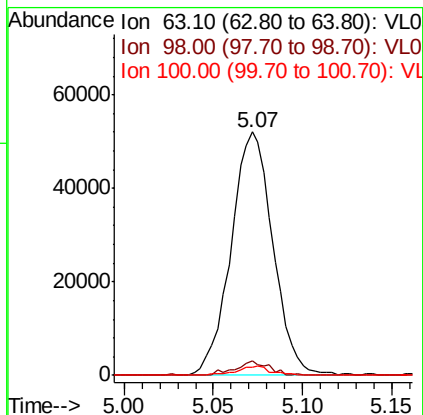
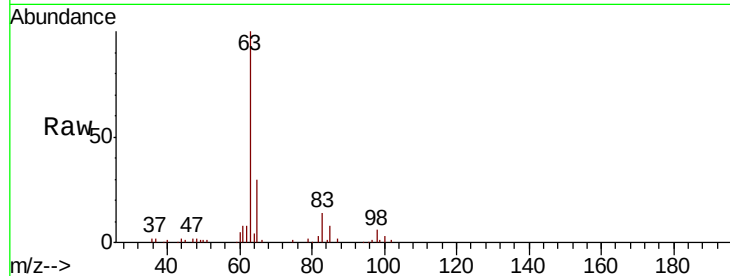
ClientSampleId :

INFLUENTDL

Tot Ion:	63	Resp:	84839
Ion Ratio	Lower	Upper	
63	100		
98	6.1	2.2	6.6
100	3.1	1.3	3.8

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#26

Hexane

Concen: 0.193 ppbv m

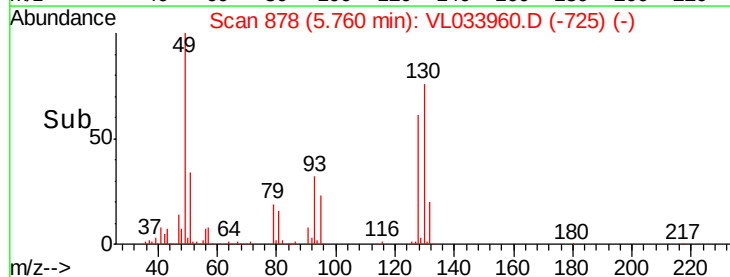
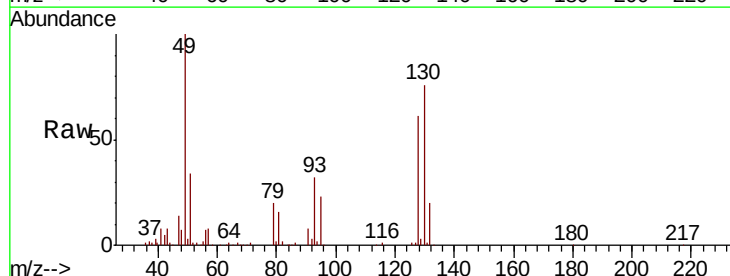
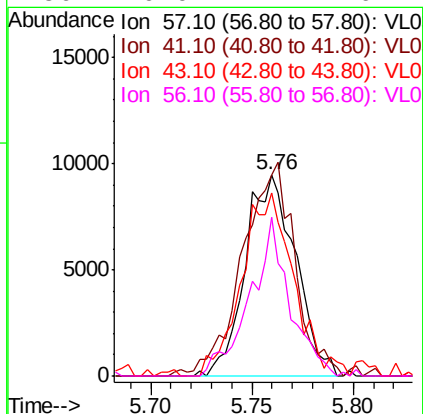
RT: 5.76 min Scan# 878

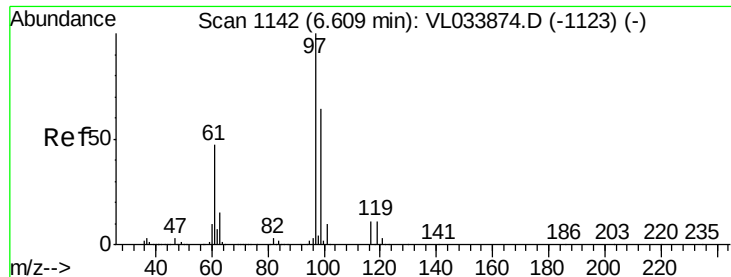
Delta R.T. -0.01 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

Tgt Ion:	57	Resp:	16388
Ion Ratio	Lower	Upper	
57	100		
41	0.0	71.4	107.2#
43	0.0	183.7	275.5#
56	0.0	42.7	64.1#





#32

1,1,1-Trichloroethane

Concen: 3.318 ppbv

RT: 6.60 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

Instrument :

MSVOA_L

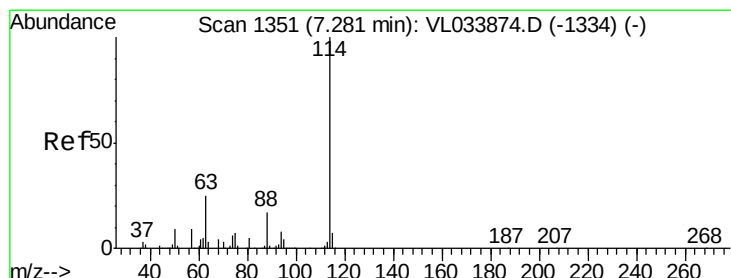
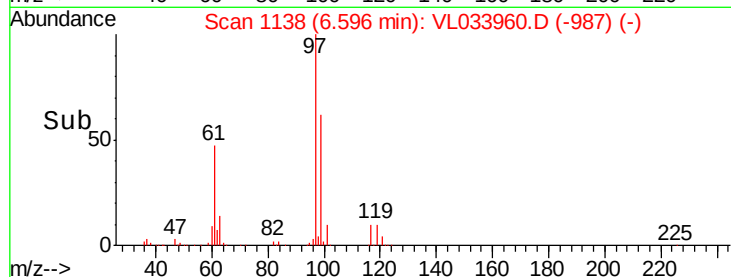
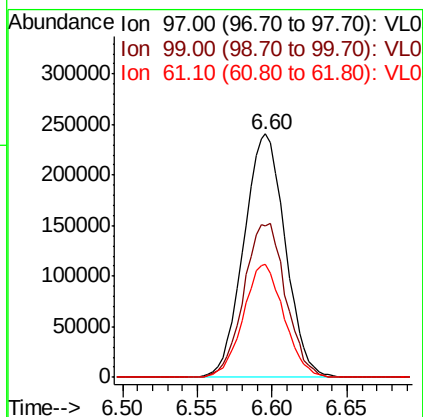
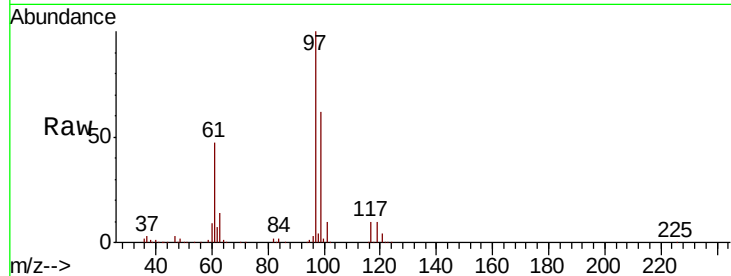
ClientSampleId :

INFLUENTDL

Tot Ion:	97	Resp:	465041
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.7	77.5
61	45.7	37.7	56.5

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

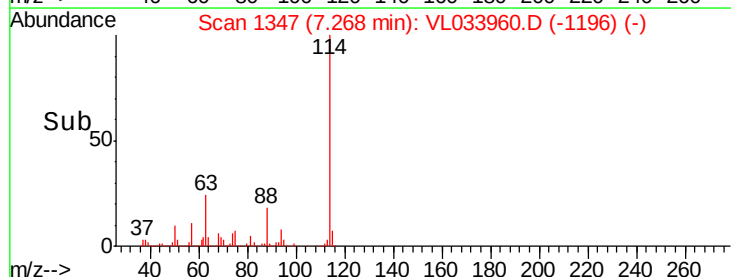
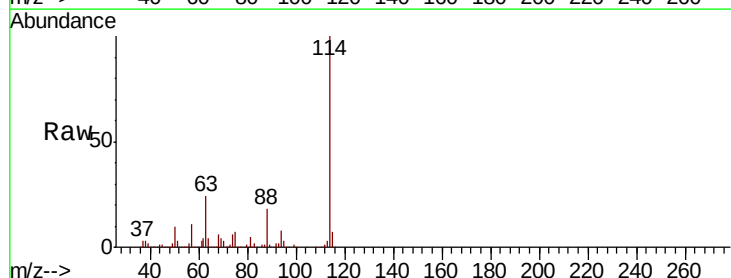
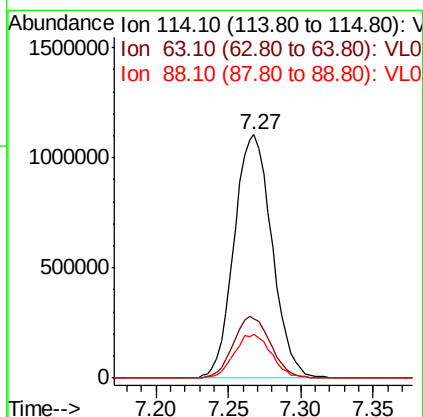
RT: 7.27 min Scan# 1347

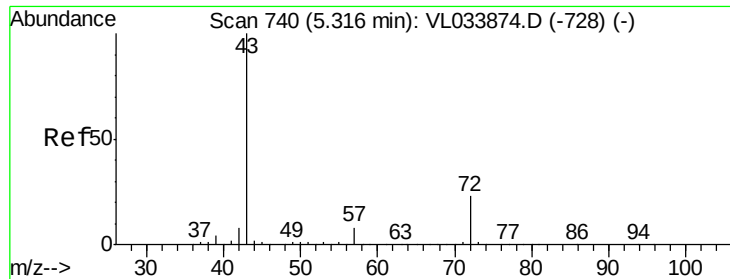
Delta R.T. -0.01 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

Tgt Ion:	114	Resp:	2000688
Ion	Ratio	Lower	Upper
114	100		
63	25.0	21.1	31.7
88	17.7	14.2	21.4





#34

2-Butanone

Concen: 0.398 ppbv

RT: 5.32 min Scan# 740

Delta R.T. -0.00 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

Tot Ion: 43 Resp: 44936

Ion Ratio Lower Upper

43 100

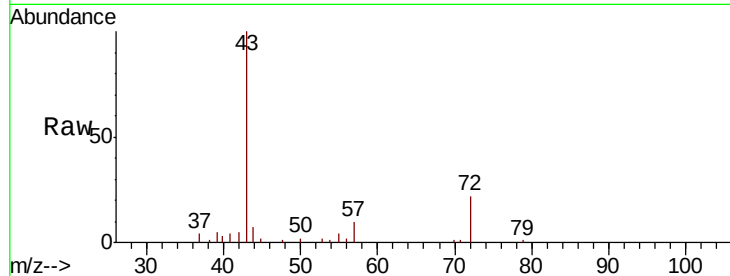
72 22.5 17.9 26.9

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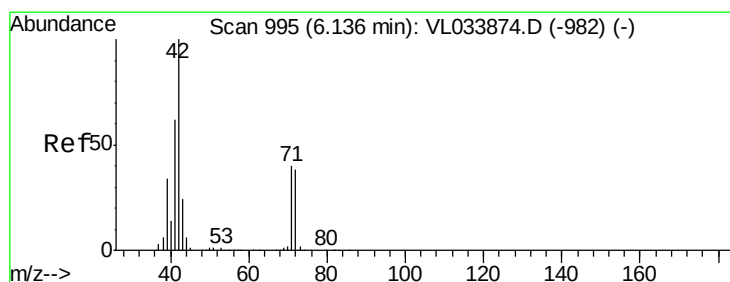
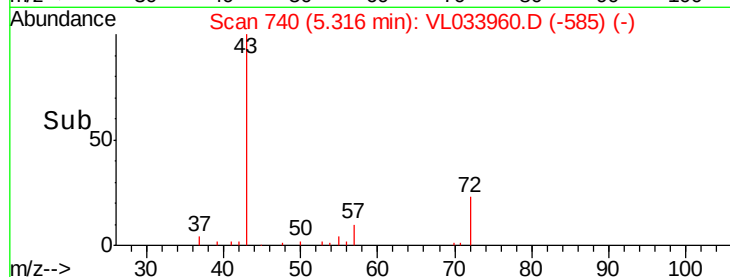
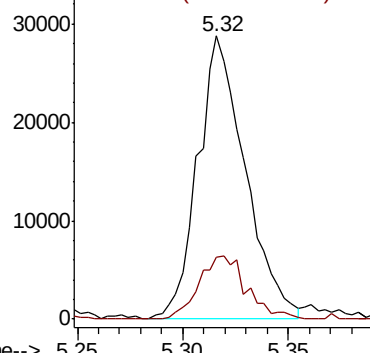
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#41

Tetrahydrofuran

Concen: 0.576 ppbv m

RT: 6.14 min Scan# 997

Delta R.T. 0.01 min

Lab File: VL033960.D

Acq: 25 Jun 2019 6:34

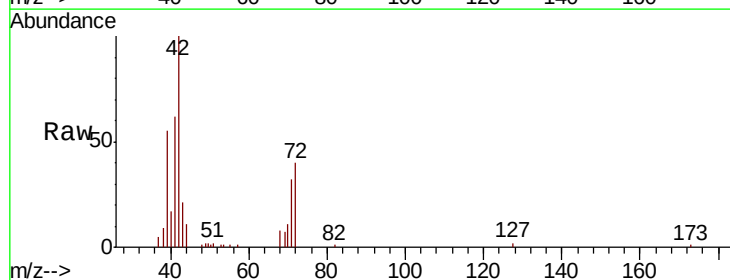
Tgt Ion: 42 Resp: 33015

Ion Ratio Lower Upper

42 100

72 0.0 32.2 48.4#

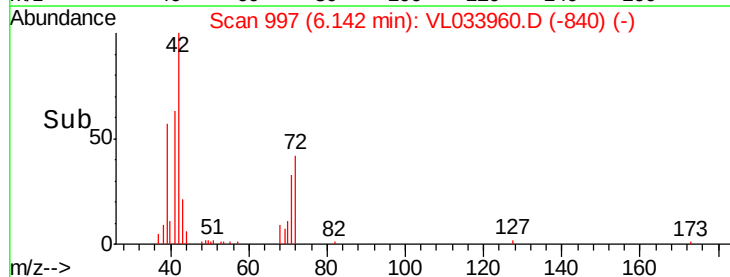
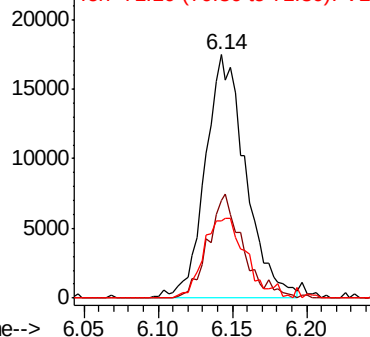
71 0.0 31.7 47.5#

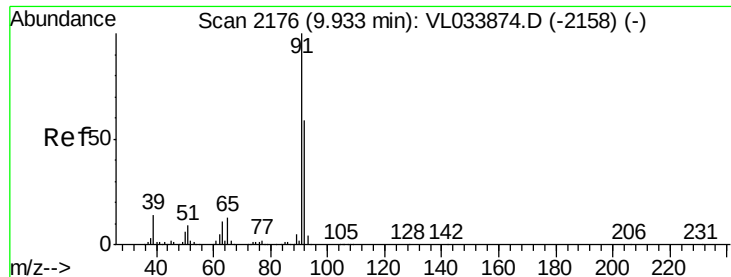


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





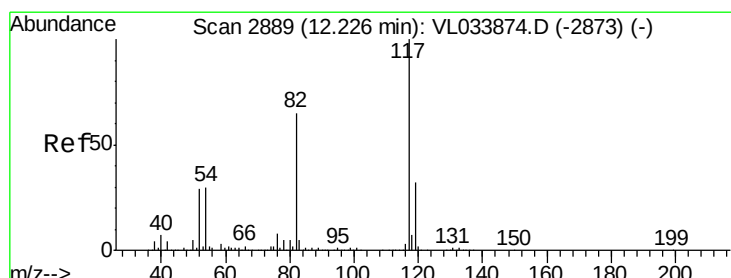
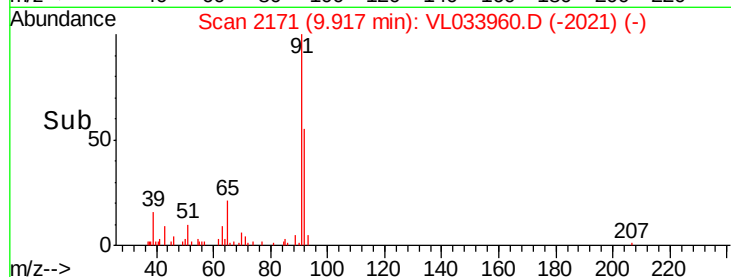
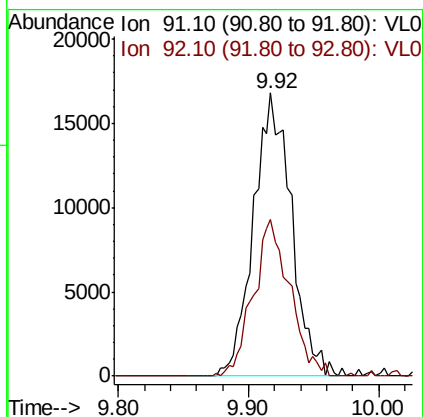
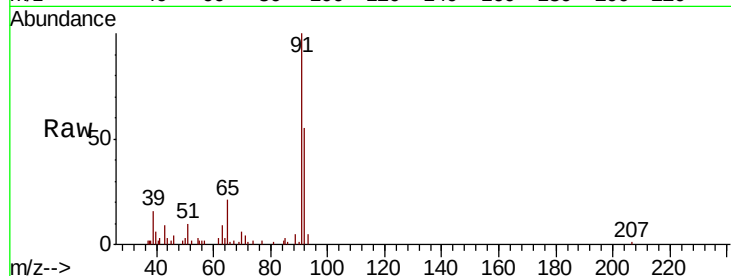
#53
Toluene
Concen: 0.200 ppbv m
RT: 9.92 min Scan# 2171
Delta R.T. -0.02 min
Lab File: VL033960.D
Acq: 25 Jun 2019 6:34

Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.5	47.0	70.6

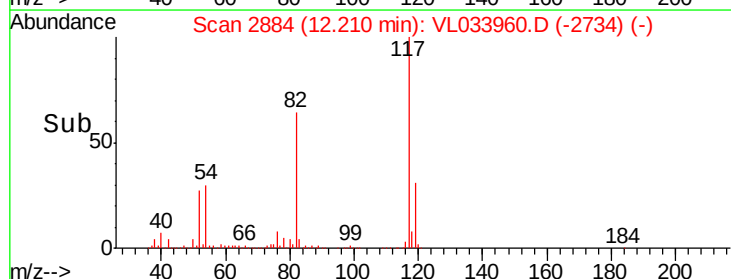
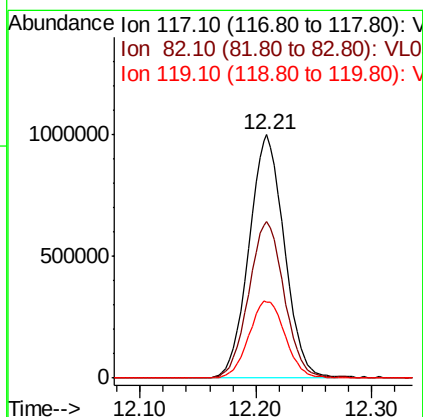
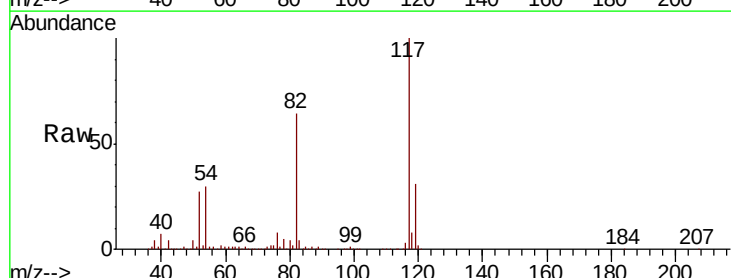
Manual Integrations
APPROVED

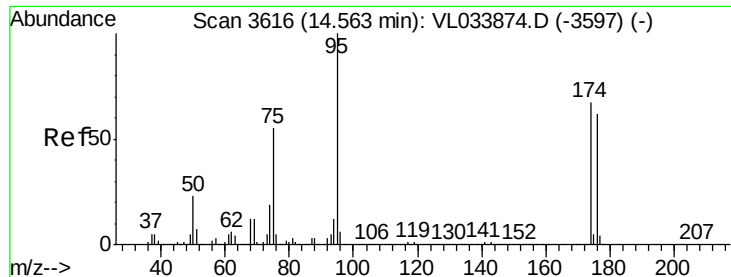
MMDadoda
6/26/2019 8:15:59 AM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2884
Delta R.T. -0.02 min
Lab File: VL033960.D
Acq: 25 Jun 2019 6:34

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.1	50.2	75.2
119	32.8	24.8	37.2





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.637 ppbv
 RT: 14.55 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL033960.D
 Acq: 25 Jun 2019 6:34

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	67.1	54.0	81.0	
175	4.9	3.8	5.8	

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 8:15:59 AM

