

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033477.D
 Acq On : 27 Mar 2019 20:47
 Operator : SY/AP
 Sample : K2042-13
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1-M.ELE.RM

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:55 AM

Quant Time: Mar 31 11:19:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	664480	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	1565158	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	1649438	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1319860	10.21	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	26547	0.274	ppbv	100
3) Chlorodifluoromethane	3.01	51	21275m	0.278	ppbv	
4) Chloromethane	3.17	50	23632m	0.584	ppbv	
9) Propene	3.04	41	31663m	0.986	ppbv	
11) Trichlorofluoromethane	4.00	101	31608	0.265	ppbv	99
13) Ethanol	3.64	45	551462	66.335	ppbv	65
15) Acetone	3.90	43	451017	5.645	ppbv	97
19) Isopropyl Alcohol	4.02	45	132968	2.631	ppbv #	93
20) Methylene Chloride	4.40	84	74134	2.186	ppbv	94
26) Hexane	5.77	57	97505	1.479	ppbv #	43
34) 2-Butanone	5.33	43	42571	0.453	ppbv	95
35) Carbon Tetrachloride	7.13	117	7627	0.069	ppbv #	74
36) Benzene	6.99	78	37648m	0.287	ppbv	
52) Tetrachloroethene	11.36	164	6949m	0.140	ppbv	
53) Toluene	9.94	91	512982	3.361	ppbv	100
59) m/p-Xylene	13.12	91	62364m	0.317	ppbv	
60) o-Xylene	13.84	91	20472	0.108	ppbv	95
74) 1,2,4-Trimethylbenzene	16.92	105	25925m	0.118	ppbv	

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

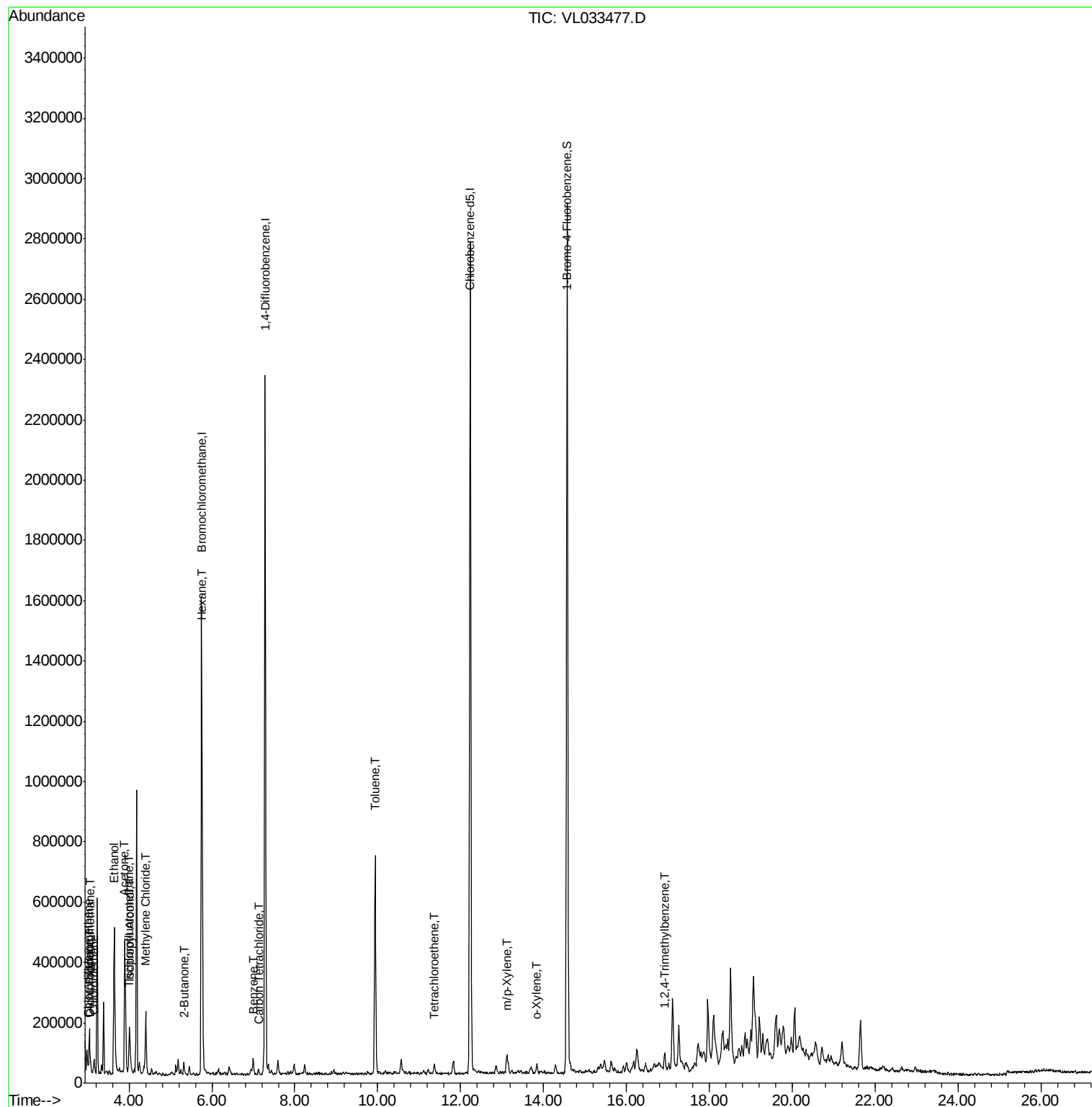
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033477.D
Acq On : 27 Mar 2019 20:47
Operator : SY/AP
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Manual Integrations
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Quant Time: Mar 31 11:19:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033477.D

Acq: 27 Mar 2019 20:47

Instrument :

MSVOA_L

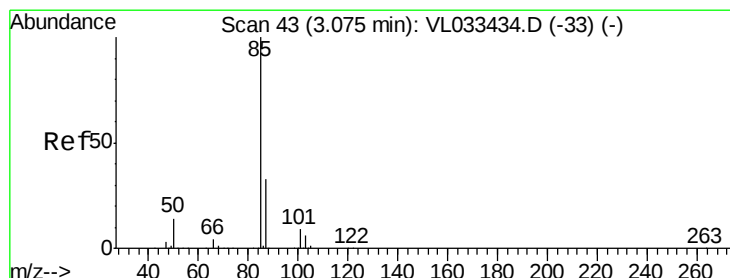
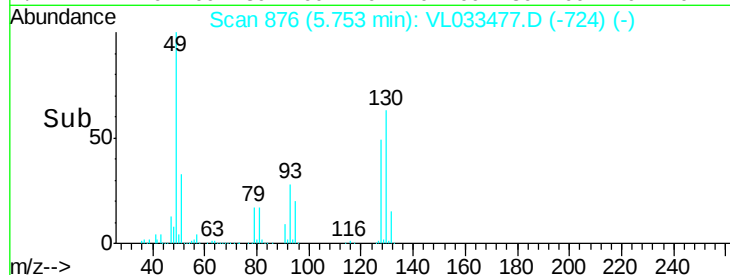
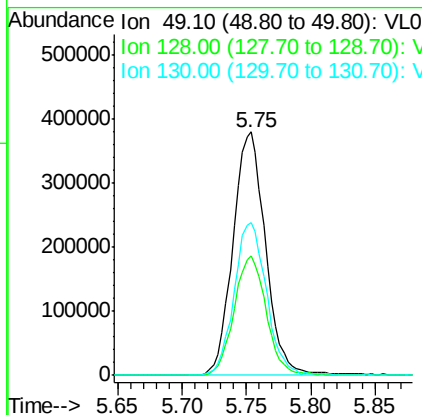
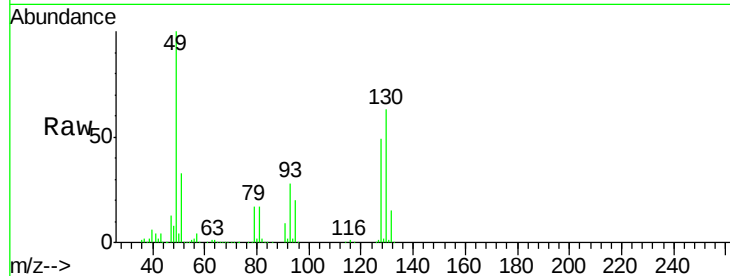
ClientSampleId :

IAS-1-M.ELE.RM

Tot Ion:	49	Resp:	664480
Ion	Ratio	Lower	Upper
49	100		
128	48.8	24.0	72.0
130	62.5	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.274 ppbv

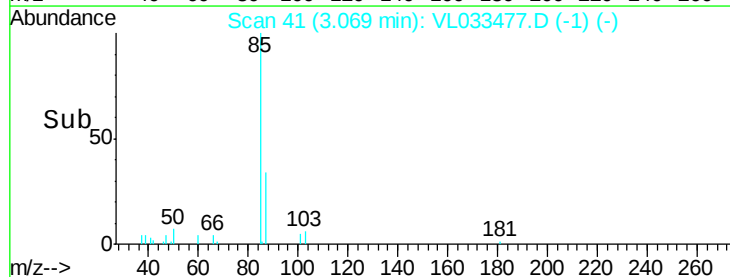
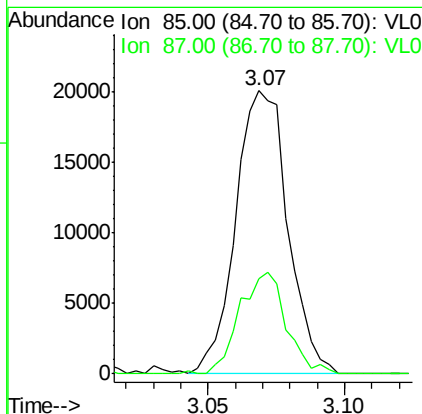
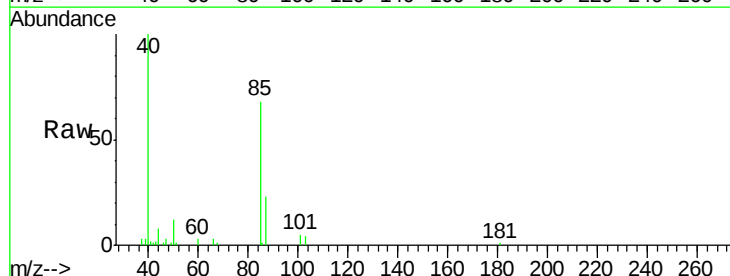
RT: 3.07 min Scan# 41

Delta R.T. -0.01 min

Lab File: VL033477.D

Acq: 27 Mar 2019 20:47

Tgt Ion:	85	Resp:	26547
Ion	Ratio	Lower	Upper
85	100		
87	33.4	26.7	40.1





#3

Chlorodifluoromethane

Concen: 0.278 ppbv m

RT: 3.01 min Scan# 22

Delta R.T. -0.01 min

Lab File: VL033477.D

Acq: 27 Mar 2019 20:47

Instrument :

MSVOA_L

ClientSampleId :

IAS-1-M.ELE.RM

Tot Ion: 51 Resp: 21275

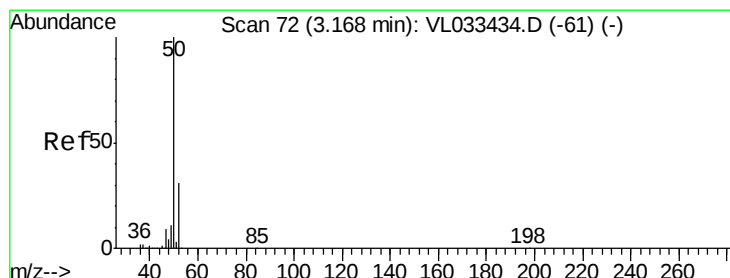
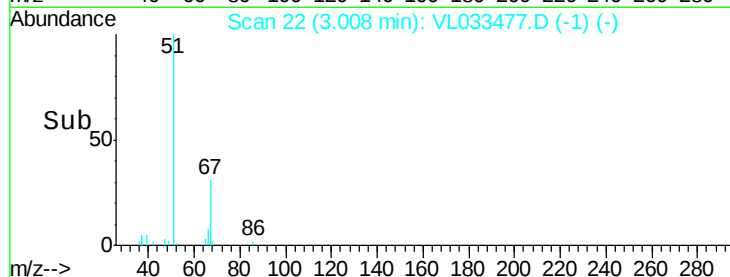
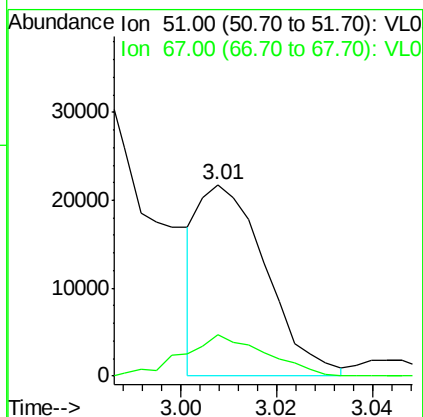
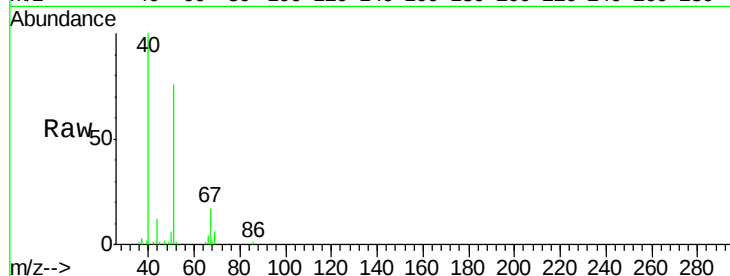
Ion Ratio Lower Upper

51 100

67 26.8 15.7 23.5#

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#4

Chloromethane

Concen: 0.584 ppbv m

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033477.D

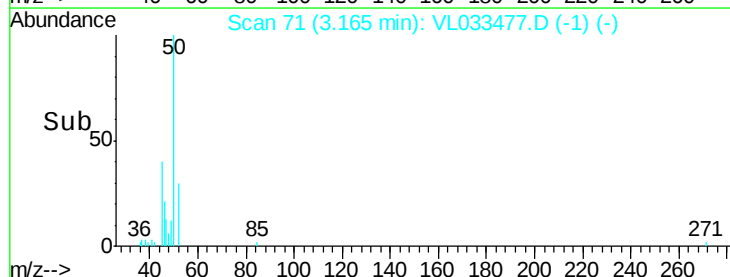
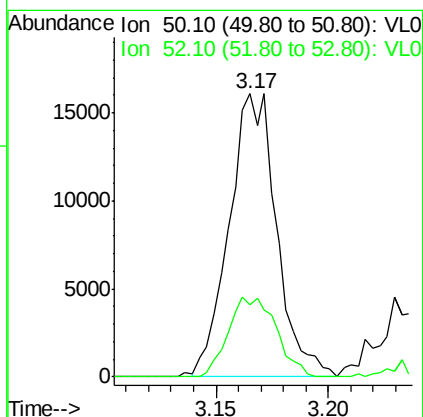
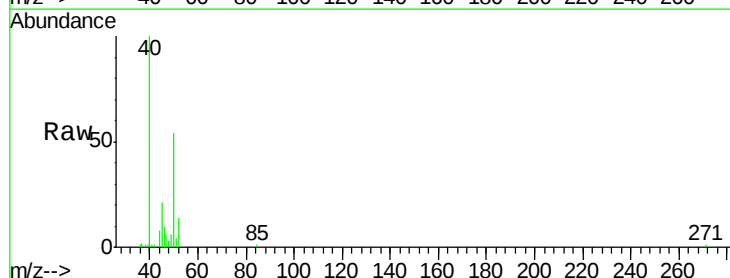
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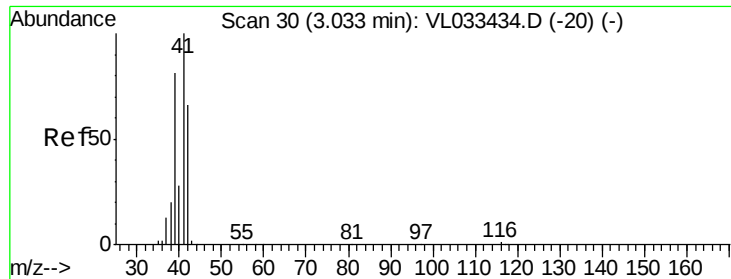
Tgt Ion: 50 Resp: 23632

Ion Ratio Lower Upper

50 100

52 25.7 25.0 37.6





#9

Propene

Concen: 0.986 ppbv m

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033477.D

Acq: 27 Mar 2019 20:47

Instrument :

MSVOA_L

ClientSampleId :

IAS-1-M.ELE.RM

Tot Ion: 41 Resp: 31663

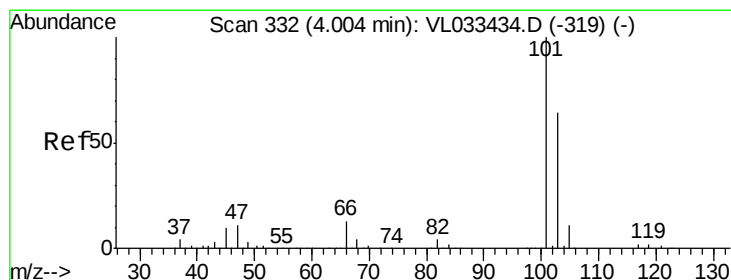
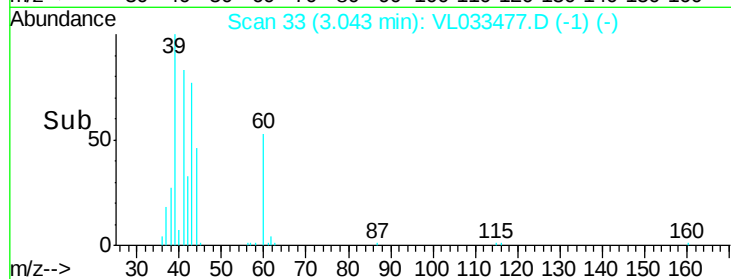
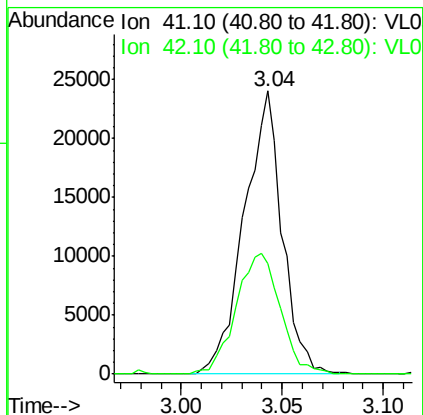
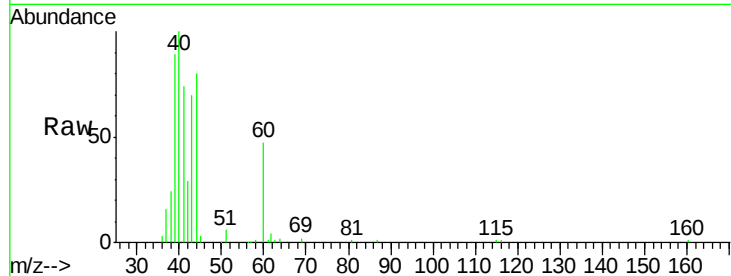
Ion Ratio Lower Upper

41 100

42 319.2 53.9 80.9#

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#11

Trichlorofluoromethane

Concen: 0.265 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033477.D

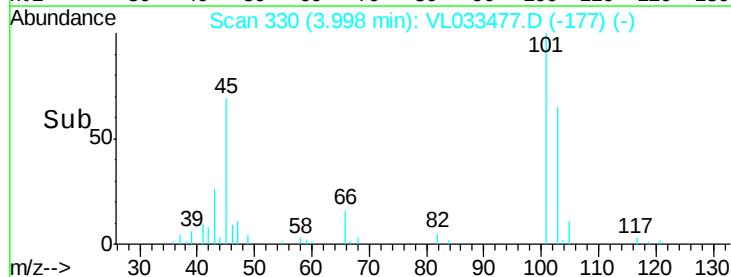
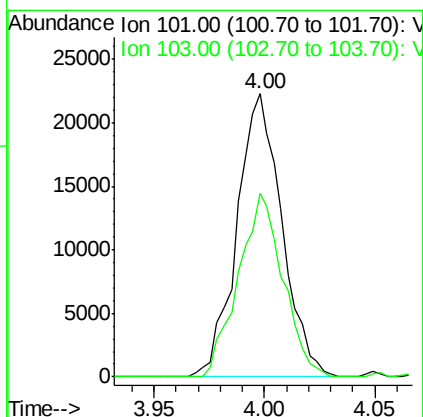
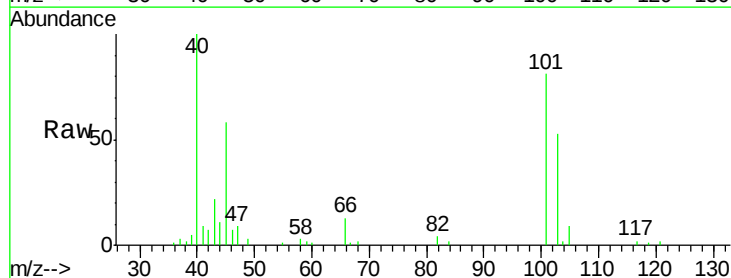
Acq: 27 Mar 2019 20:47

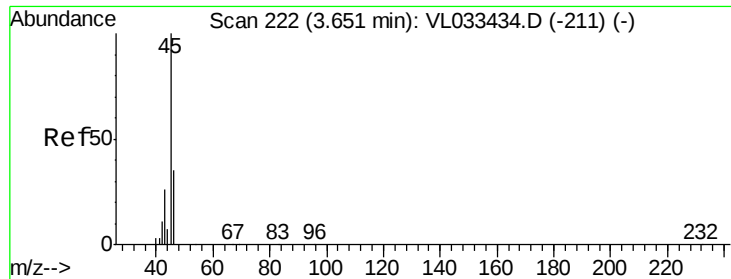
Tgt Ion: 101 Resp: 31608

Ion Ratio Lower Upper

101 100

103 64.7 51.3 76.9





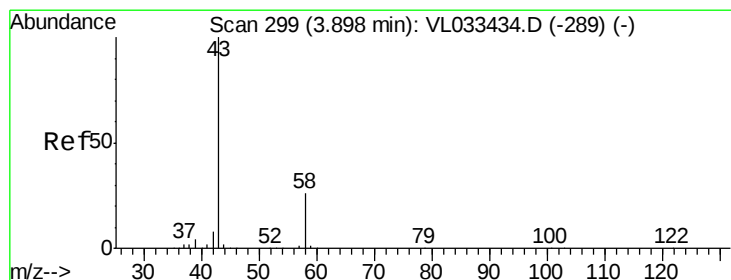
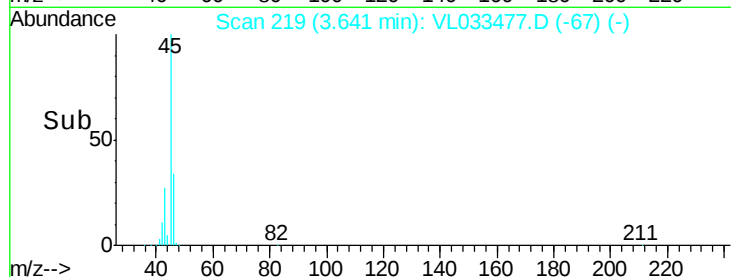
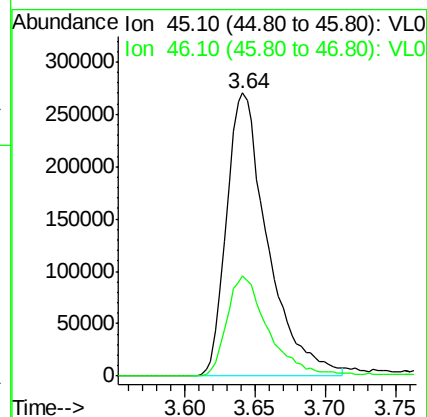
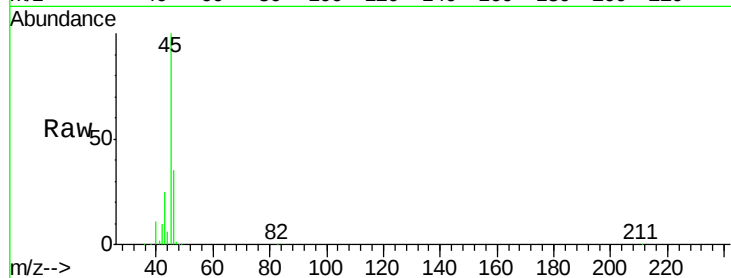
#13
Ethanol
Concen: 66.335 ppbv
RT: 3.64 min Scan# 219
Delta R.T. -0.01 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M.ELE.RM

Tot Ion: 45 Resp: 551462
Ion Ratio Lower Upper
45 100
46 36.0 25.4 101.8

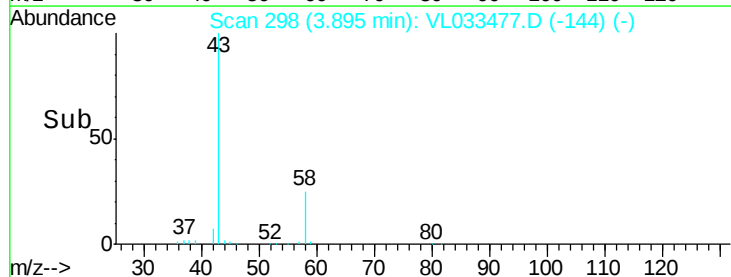
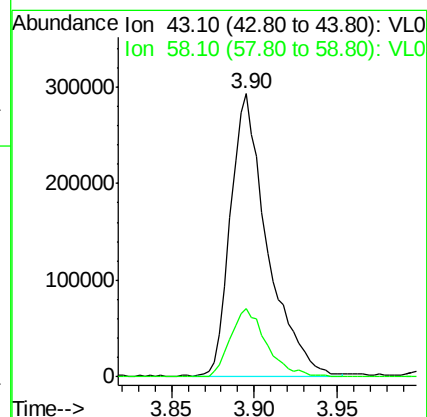
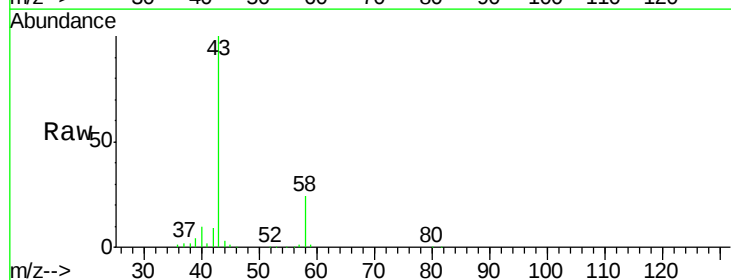
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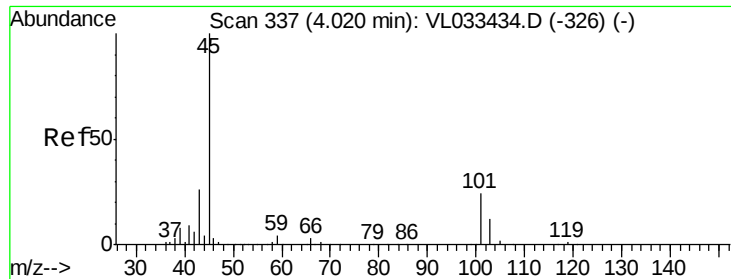
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#15
Acetone
Concen: 5.645 ppbv
RT: 3.90 min Scan# 298
Delta R.T. -0.00 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Tgt Ion: 43 Resp: 451017
Ion Ratio Lower Upper
43 100
58 24.1 20.5 30.7





#19

Isopropyl Alcohol

Concen: 2.631 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033477.D

Acq: 27 Mar 2019 20:47

Instrument :

MSVOA_L

ClientSampleId :

IAS-1-M.ELE.RM

Tot Ion: 45 Resp: 132968

Ion Ratio Lower Upper

45 100

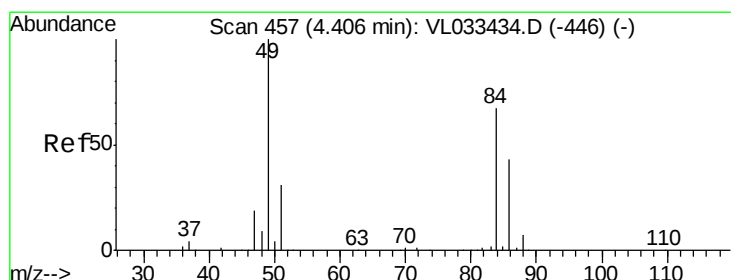
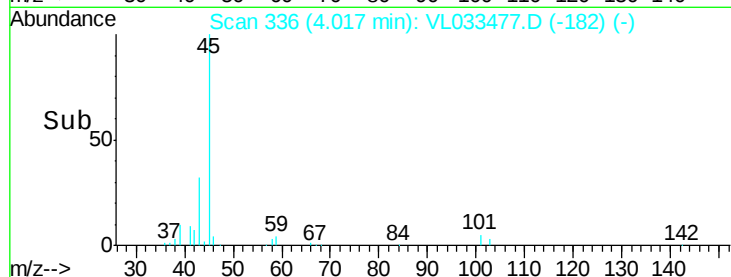
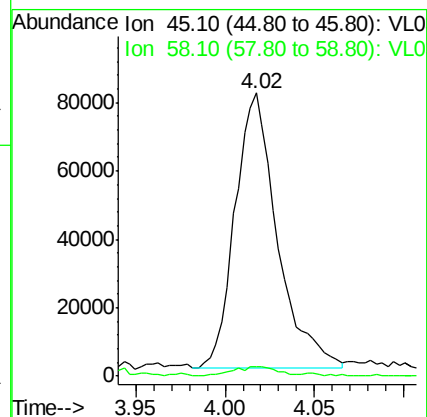
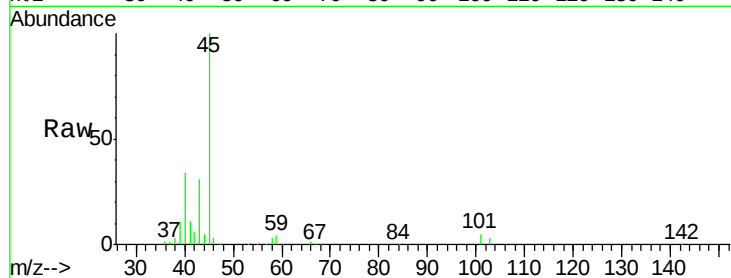
58 4.2 1.4 2.2#

Manual Integrations

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#20

Methylene Chloride

Concen: 2.186 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033477.D

Acq: 27 Mar 2019 20:47

Tgt Ion: 84 Resp: 74134

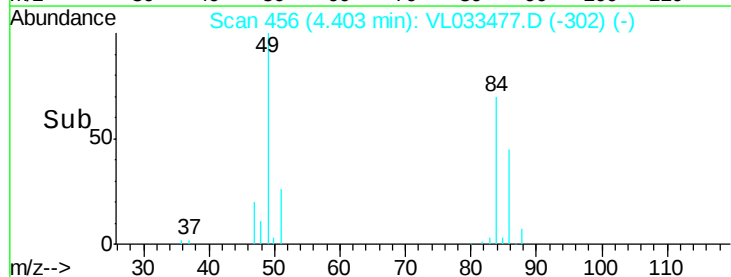
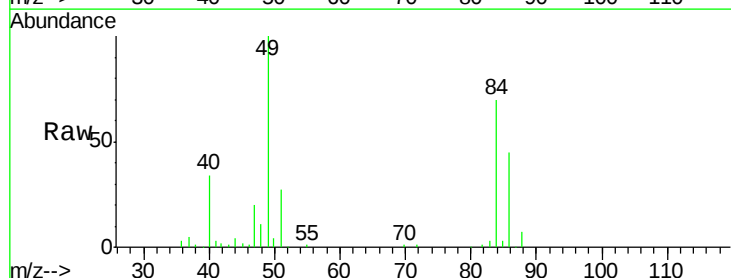
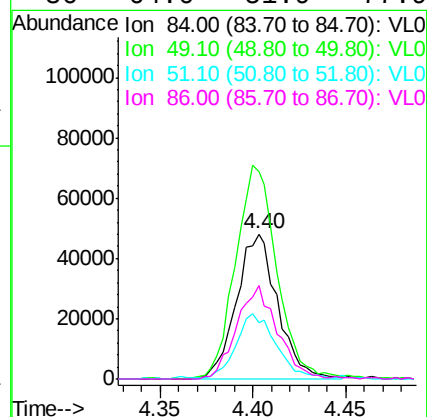
Ion Ratio Lower Upper

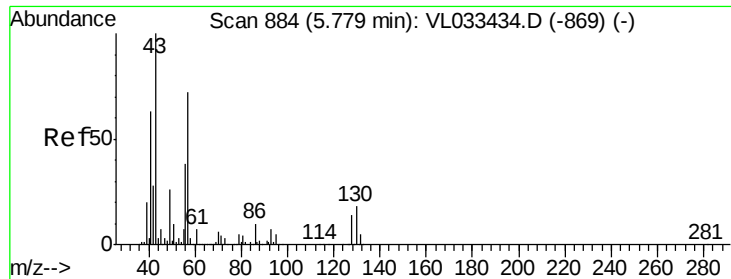
84 100

49 142.5 120.0 180.0

51 37.8 36.7 55.1

86 64.0 51.9 77.9





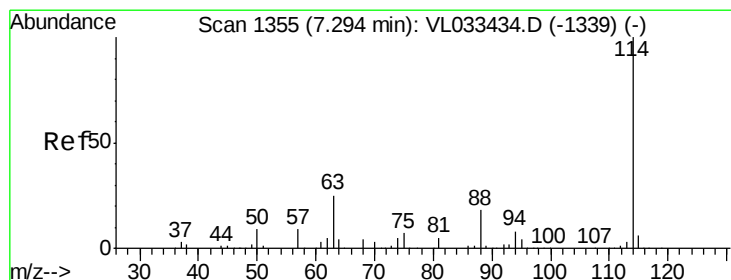
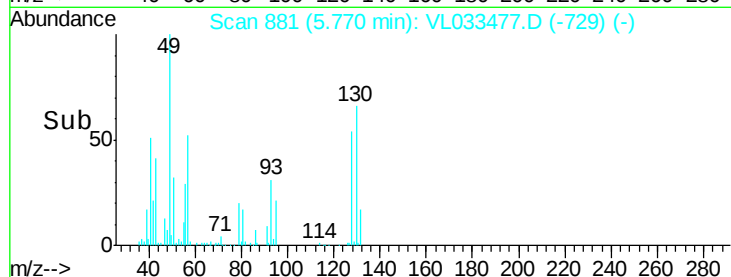
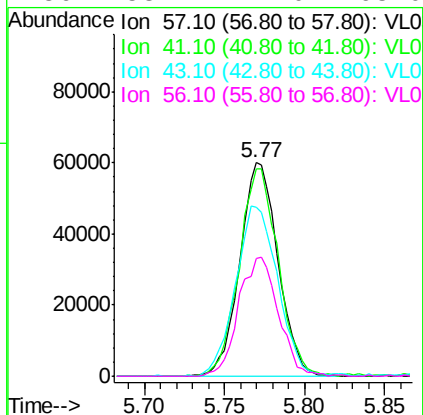
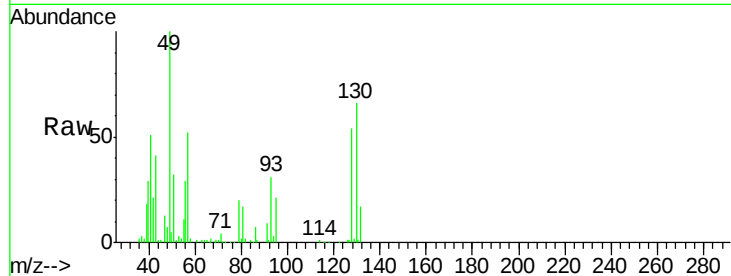
#26
Hexane
Concen: 1.479 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M.ELE.RM

Tot Ion	57	Resp	97505
Ion	Ratio	Lower	Upper
57	100		
41	100.4	70.7	106.1
43	88.4	182.6	274.0#
56	58.2	42.0	63.0

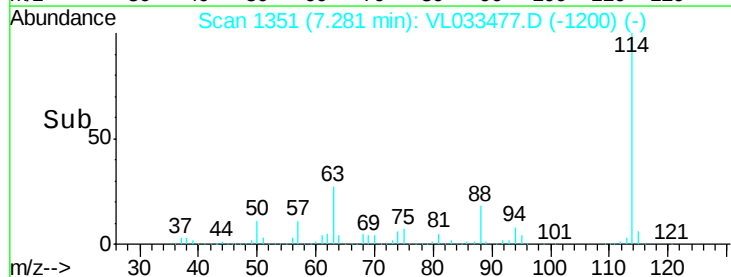
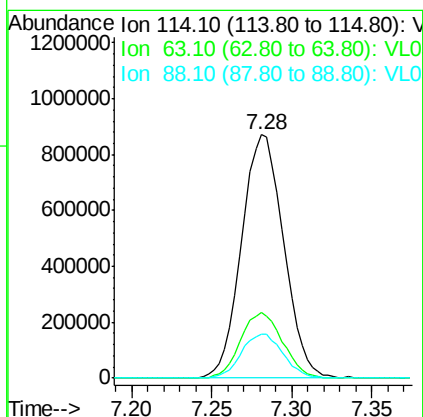
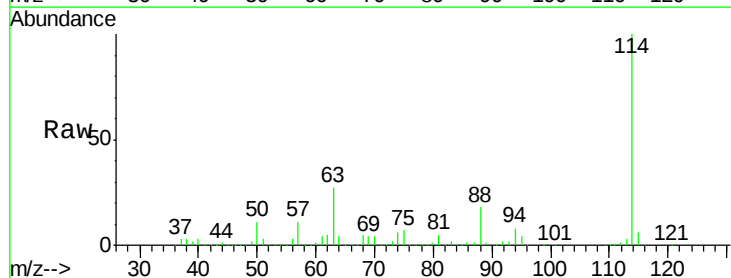
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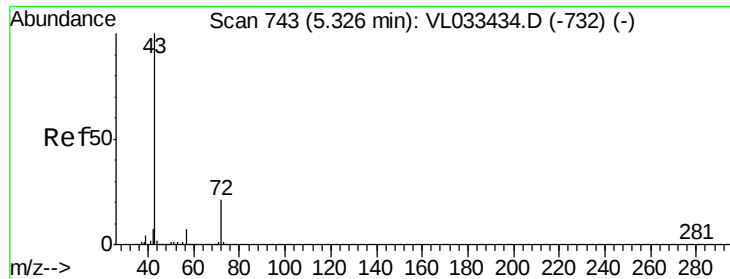
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Tgt Ion	114	Resp	1565158
Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.5	32.3
88	18.1	14.5	21.7





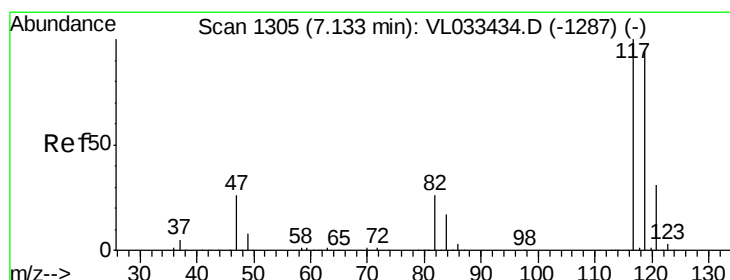
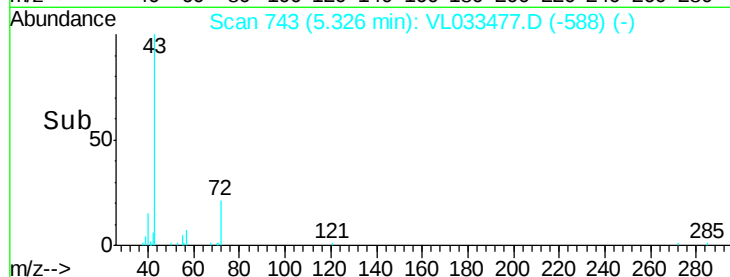
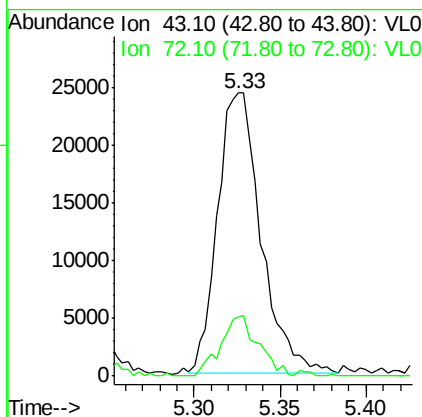
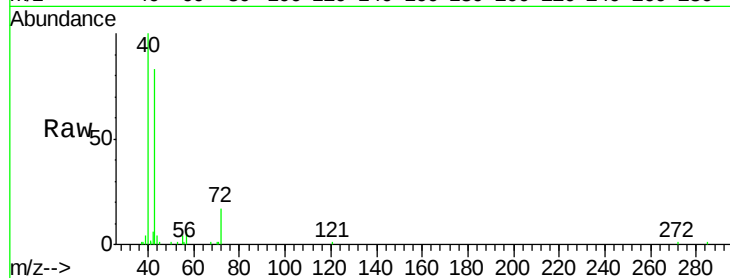
#34
2-Butanone
Concen: 0.453 ppbv
RT: 5.33 min Scan# 743
Delta R.T. -0.00 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M.ELE.RM

Tot Ion: 43 Resp: 42571
Ion Ratio Lower Upper
43 100
72 19.3 17.4 26.2

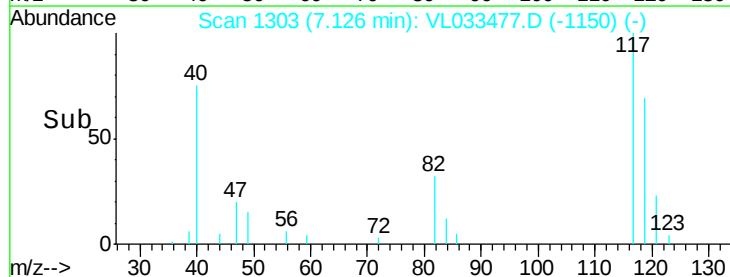
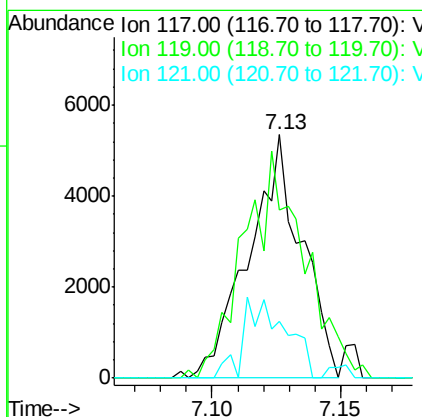
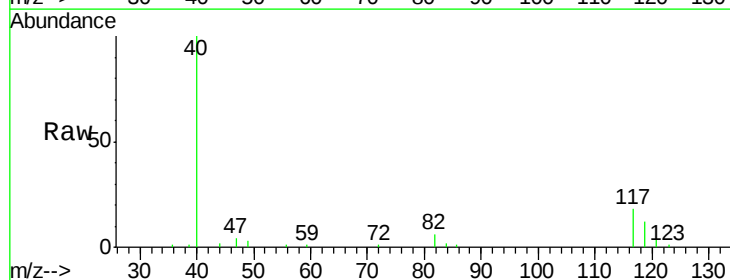
Manual Integrations
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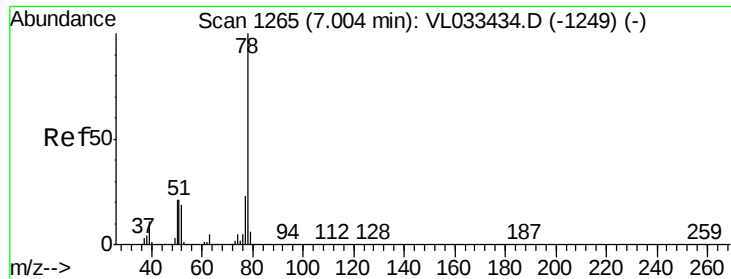
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4/1/2019 1:25:55 AM



#35
Carbon Tetrachloride
Concen: 0.069 ppbv
RT: 7.13 min Scan# 1303
Delta R.T. -0.01 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Tgt Ion: 117 Resp: 7627
Ion Ratio Lower Upper
117 100
119 65.4 75.8 113.8#
121 23.4 24.7 37.1#





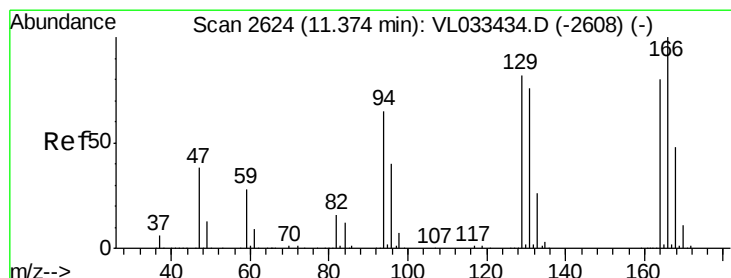
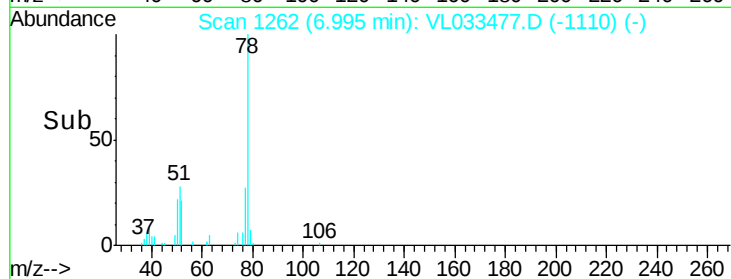
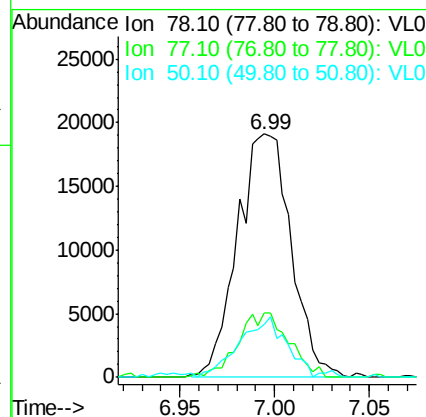
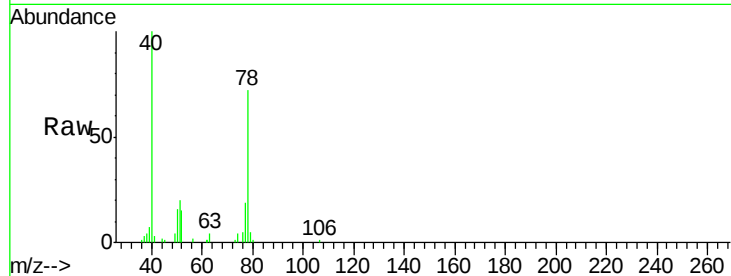
#36
Benzene
Concen: 0.287 ppbv m
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M.ELE.RM

Tot Ion	Ratio	Lower	Upper
78	100		
77	26.5	18.1	27.1
50	22.0	16.7	25.1

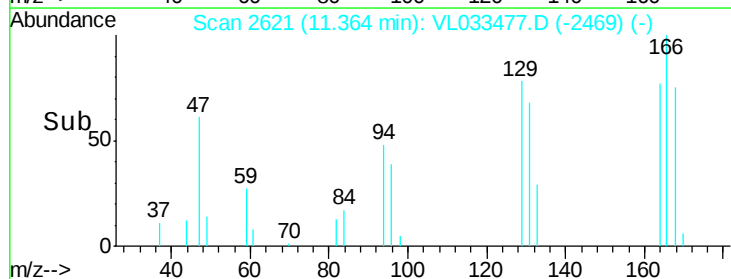
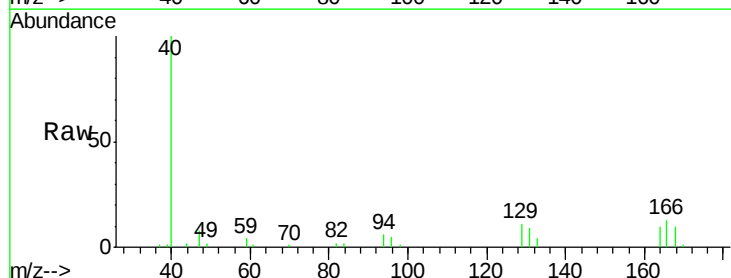
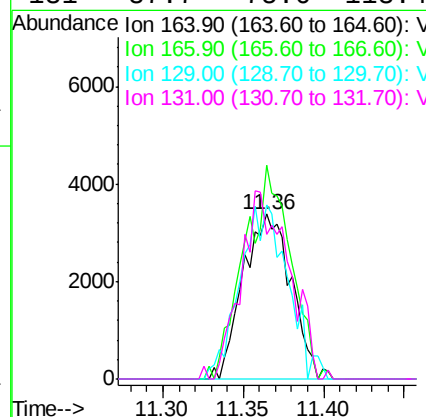
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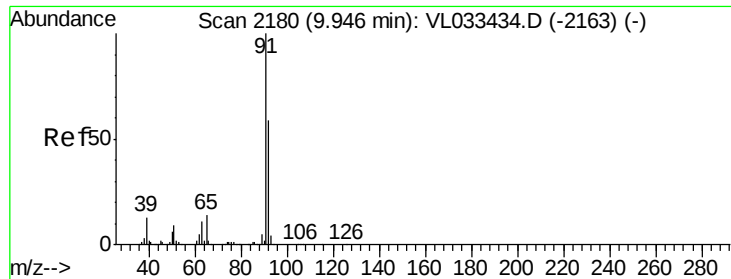
MMDadoda
4/1/2019 1:25:55 AM



#52
Tetrachloroethene
Concen: 0.140 ppbv m
RT: 11.36 min Scan# 2621
Delta R.T. -0.01 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.4	99.5	149.3
129	105.7	81.4	122.2
131	87.7	75.6	113.4





#53

Toluene

Concen: 3.361 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033477.D

Acq: 27 Mar 2019 20:47

Instrument :

MSVOA_L

ClientSampleId :

IAS-1-M.ELE.RM

Tot Ion: 91 Resp: 512982

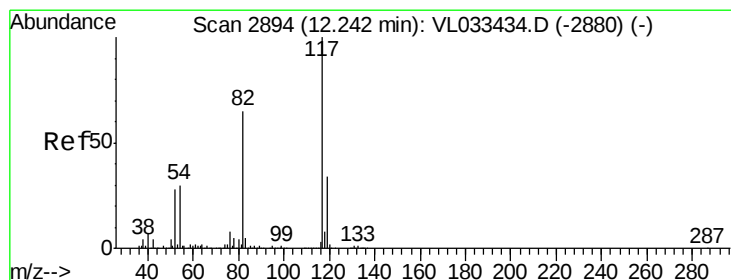
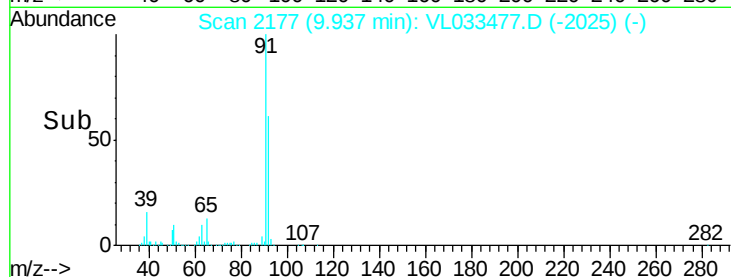
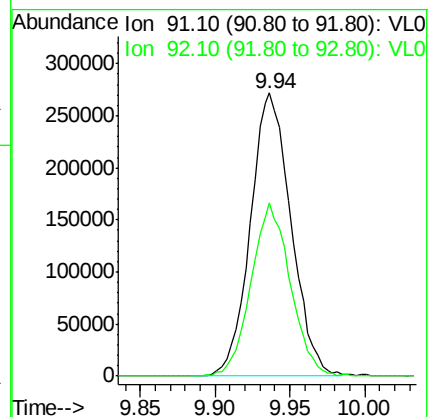
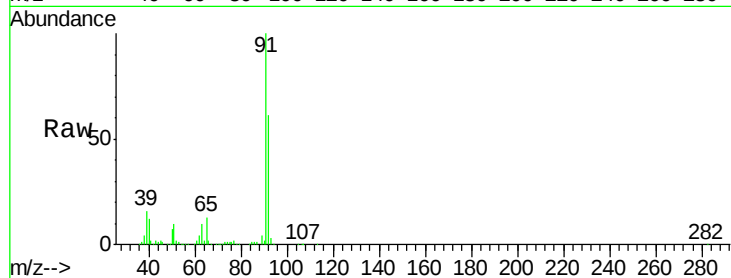
Ion Ratio Lower Upper

91 100

92 59.3 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL033477.D

Acq: 27 Mar 2019 20:47

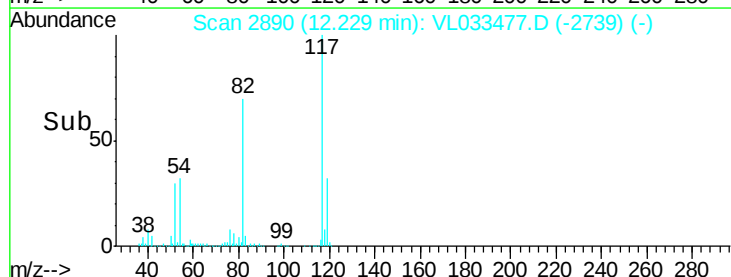
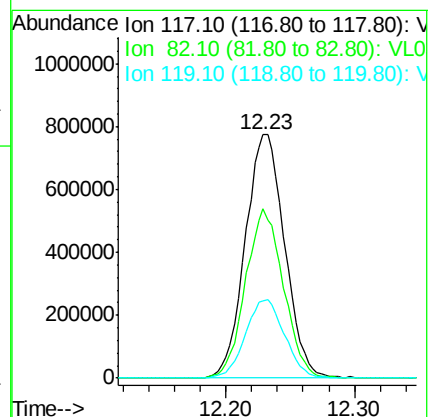
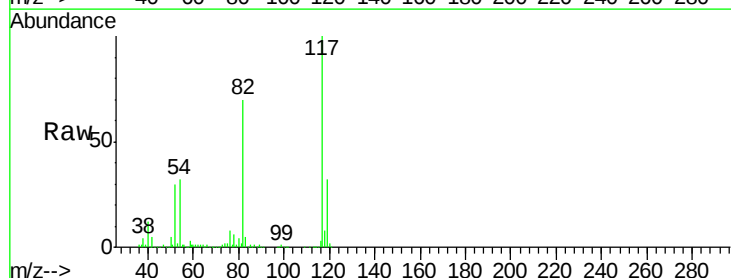
Tgt Ion: 117 Resp: 1649438

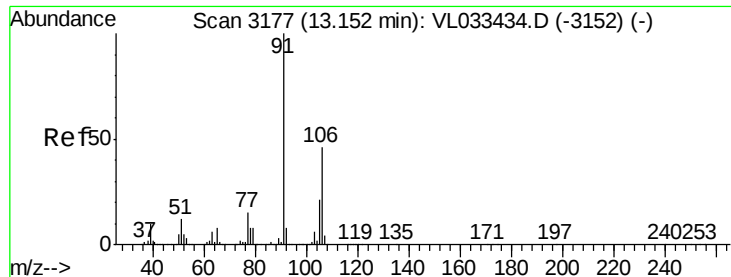
Ion Ratio Lower Upper

117 100

82 67.2 51.5 77.3

119 32.2 25.5 38.3





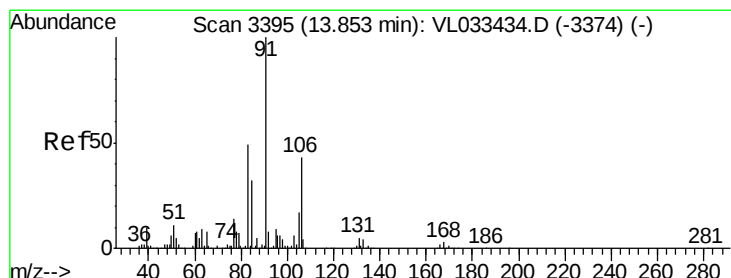
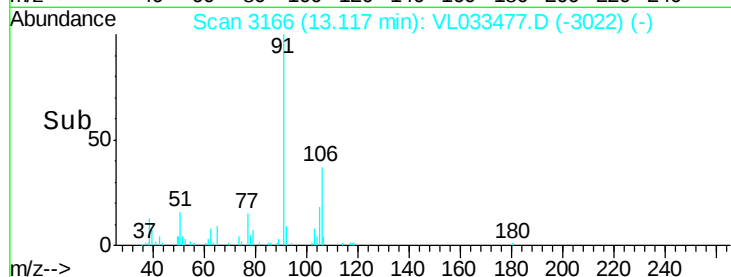
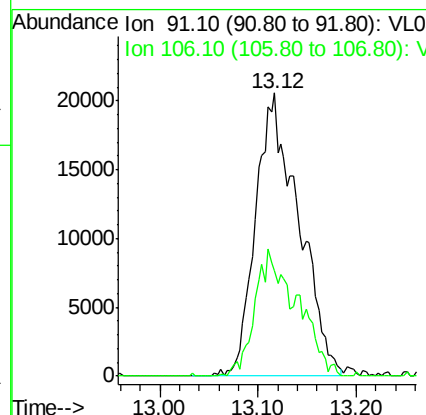
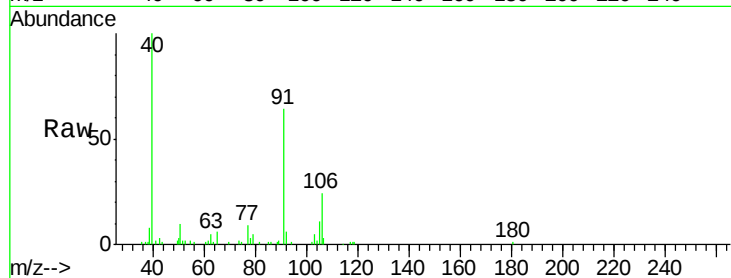
#59
m/p-Xylene
Concen: 0.317 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M.ELE.RM

Tot Ion: 91 Resp: 62364
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

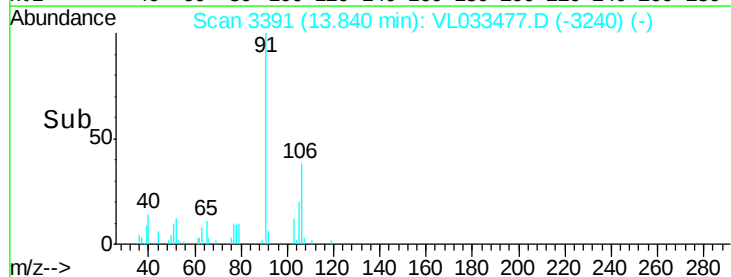
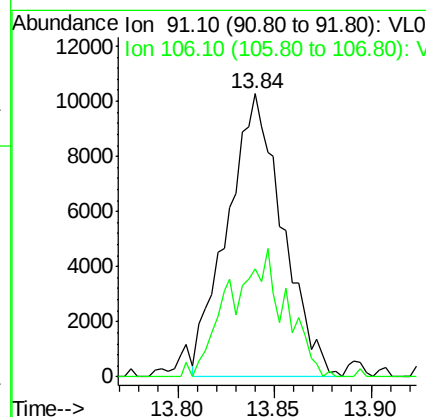
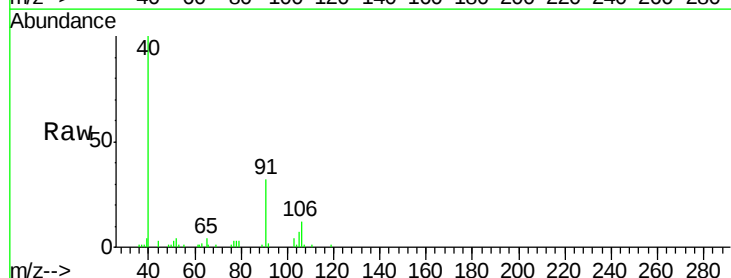
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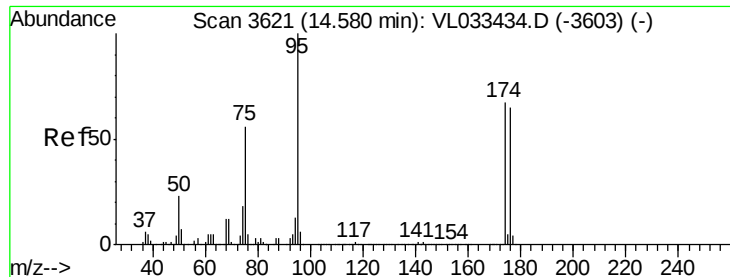
MMDadoda
4/1/2019 1:25:55 AM



#60
o-Xylene
Concen: 0.108 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033477.D
Acq: 27 Mar 2019 20:47

Tgt Ion: 91 Resp: 20472
Ion Ratio Lower Upper
91 100
106 46.1 21.4 64.3





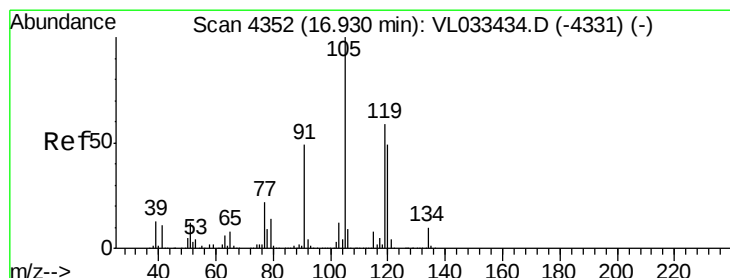
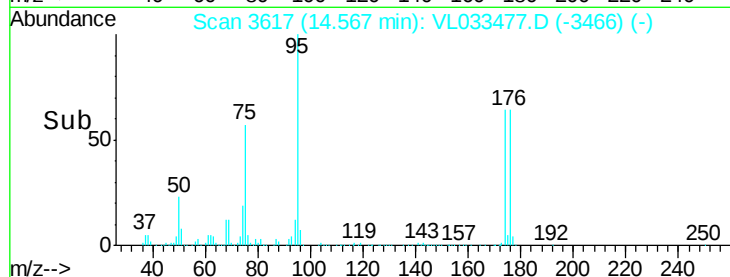
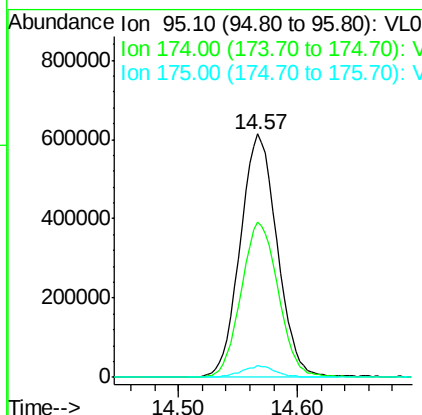
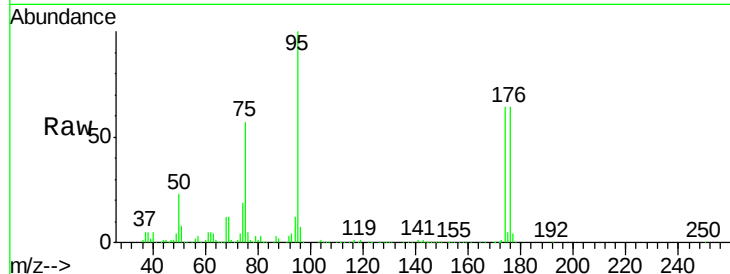
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.207 ppbv
 RT: 14.57 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL033477.D
 Acq: 27 Mar 2019 20:47

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1-M.ELE.RM

Tot Ion: 95 Resp: 1319860
 Ion Ratio Lower Upper
 95 100
 174 64.6 52.9 79.3
 175 4.5 3.8 5.6

Manual Integrations
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 4/1/2019 1:25:55 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.118 ppbv m
 RT: 16.92 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL033477.D
 Acq: 27 Mar 2019 20:47

Tgt Ion: 105 Resp: 25925
 Ion Ratio Lower Upper
 105 100
 120 33.5 39.0 58.6#
 91 15.4 40.0 60.0#
 77 14.9 17.5 26.3#

