

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
 Data File : VL032567.D
 Acq On : 28 Sep 2018 2:44
 Operator : SY/AP
 Sample : J5094-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 PIA-1

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:57:49 AM

Quant Time: Sep 28 04:53:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 28 04:53:04 2018
 QLast Update : Tue Sep 25 05:17:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1281071	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2826474	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	2981187	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.61	95	2138102	9.51	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	69001	0.582	ppbv	97
3) Chlorodifluoromethane	3.03	51	1077177	10.111	ppbv	98
4) Chloromethane	3.19	50	29671	0.478	ppbv	94
9) Propene	3.07	41	450312m	9.742	ppbv	
11) Trichlorofluoromethane	4.03	101	39360	0.279	ppbv	97
13) Ethanol	3.68	45	3866416	278.284	ppbv	97
15) Acetone	3.92	43	3553444	31.600	ppbv	99
19) Isopropyl Alcohol	4.06	45	115578	1.476	ppbv #	1
20) Methylene Chloride	4.44	84	111597	2.049	ppbv	97
26) Hexane	5.81	57	384857	3.123	ppbv #	70
29) Chloroform	5.88	83	28014	0.148	ppbv	86
34) 2-Butanone	5.36	43	54075	0.321	ppbv	97
35) Carbon Tetrachloride	7.16	117	14842m	0.076	ppbv	
36) Benzene	7.04	78	54502	0.239	ppbv	98
52) Tetrachloroethene	11.41	164	10033m	0.126	ppbv	
53) Toluene	9.98	91	906744	3.257	ppbv	99
69) p-Isopropyltoluene	17.85	119	50143m	0.115	ppbv	
74) 1,2,4-Trimethylbenzene	16.96	105	71797m	0.202	ppbv	

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

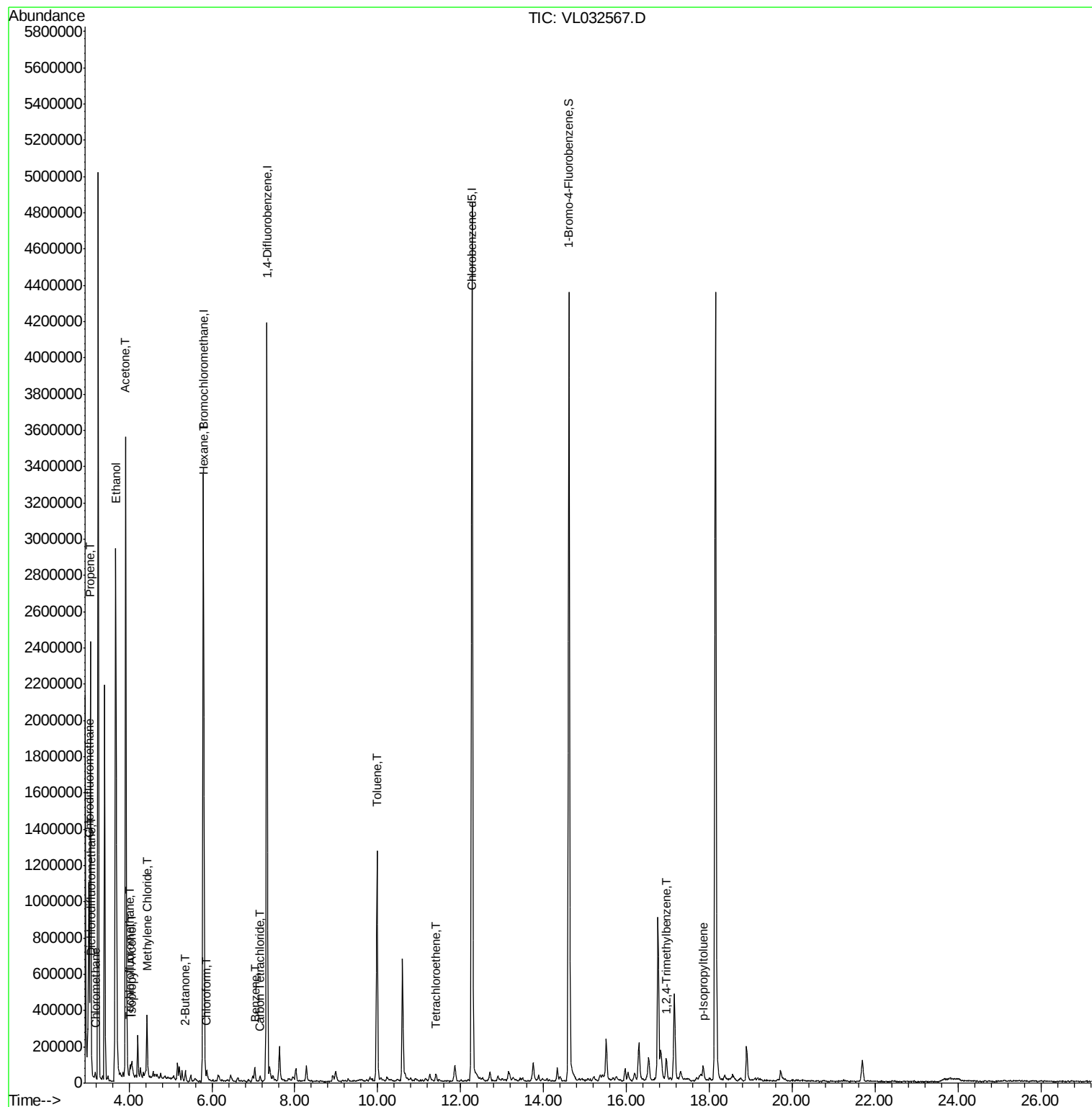
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL092718\
Data File : VL032567.D
Acq On : 28 Sep 2018 2:44
Operator : SY/AP
Sample : J5094-03
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

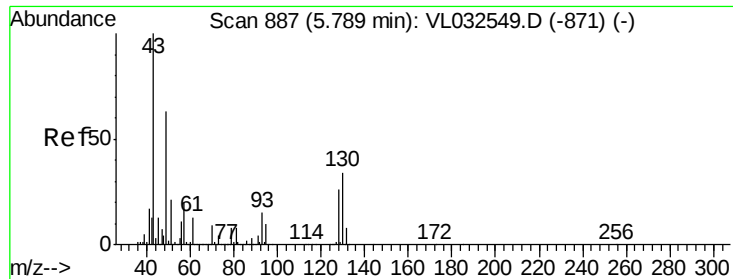
Instrument :
MSVOA_L
ClientSampleId :
PIA-1

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:49 AM

Quant Time: Sep 28 04:53:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 887

Delta R.T. -0.02 min

Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Instrument :

MSVOA_L

ClientSampled :

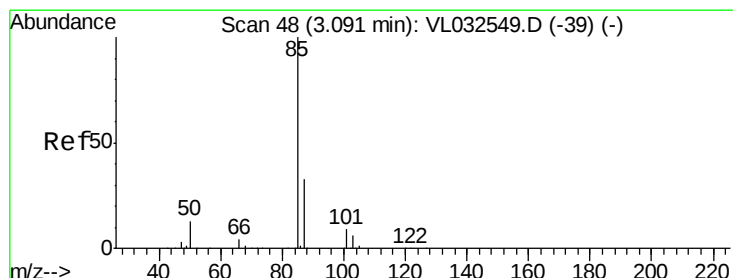
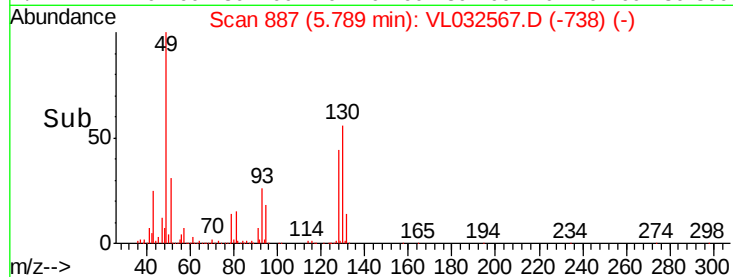
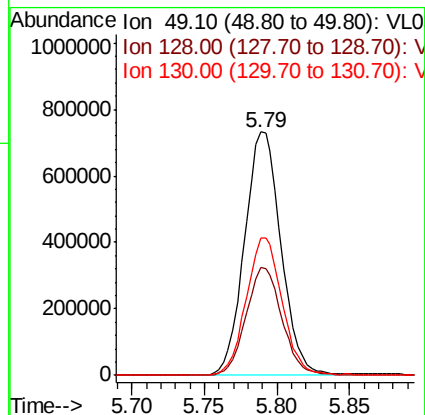
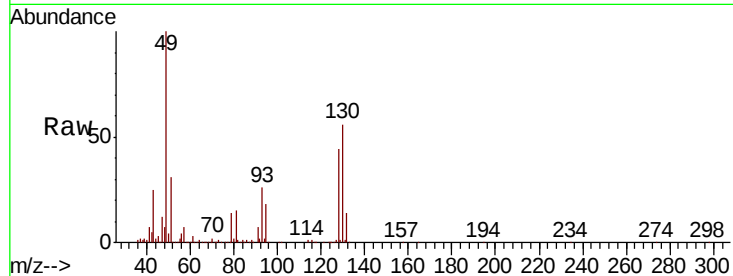
PIA-1

Tgt Ion: 49 Resp: 1281071

Ion	Ratio	Lower	Upper
49	100		
128	44.1	20.7	62.1
130	56.3	26.6	79.7

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:49 AM



#2

Dichlorodifluoromethane

Concen: 0.582 ppbv

RT: 3.09 min Scan# 49

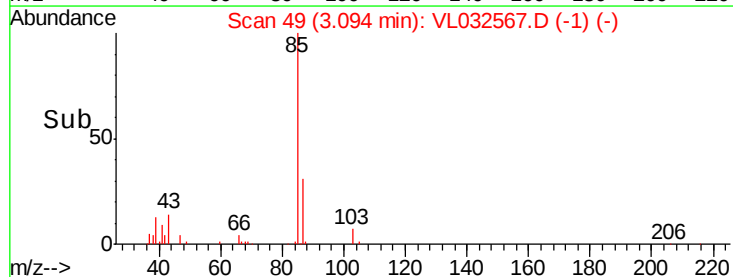
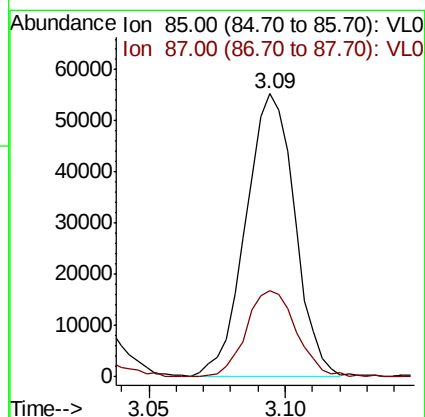
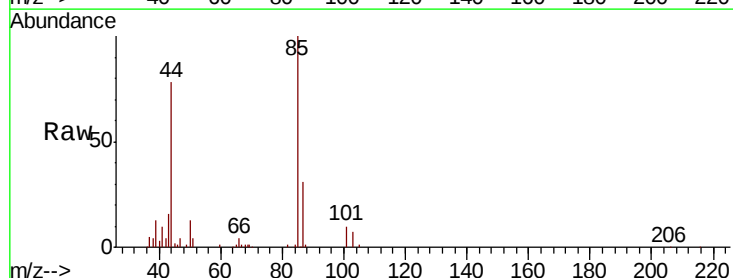
Delta R.T. -0.01 min

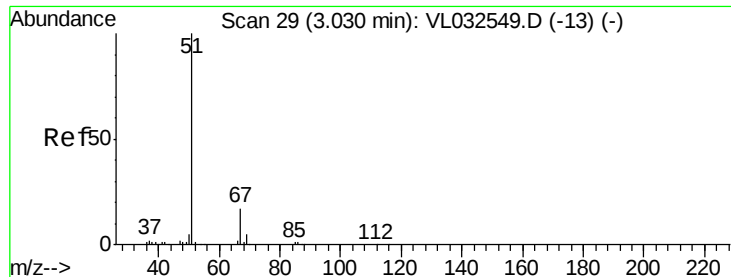
Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Tgt Ion: 85 Resp: 69001

Ion	Ratio	Lower	Upper
85	100		
87	31.1	26.2	39.4





#3

Chlorodifluoromethane

Concen: 10.111 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Instrument :

MSVOA_L

ClientSampled :

PIA-1

Tgt Ion: 51 Resp: 1077177

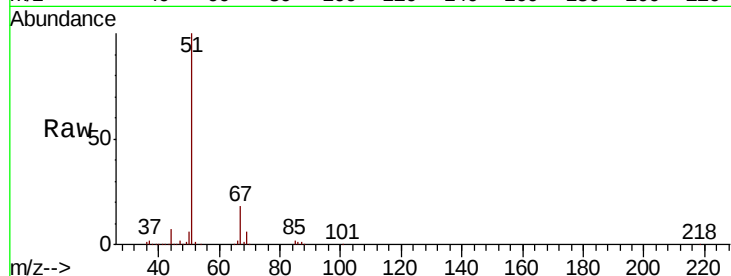
Ion Ratio Lower Upper

51 100

67 16.3 13.8 20.8

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:49 AM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.03

800000

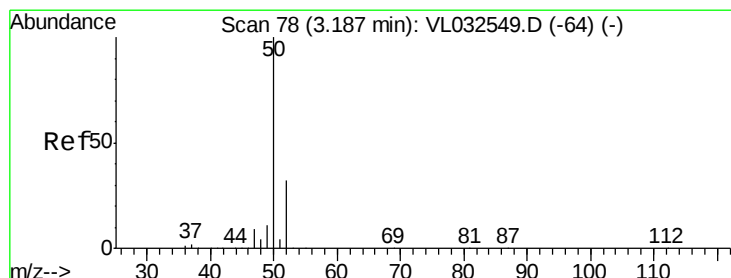
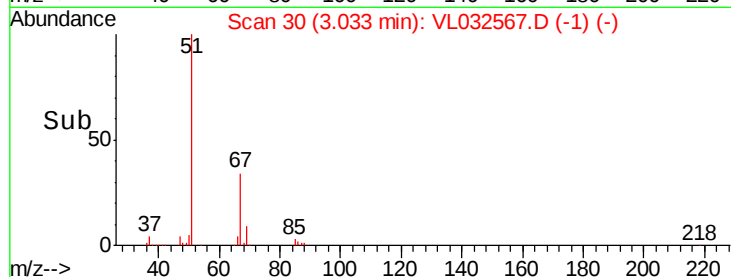
600000

400000

200000

0

Time--> 2.90 3.00 3.10



#4

Chloromethane

Concen: 0.478 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032567.D

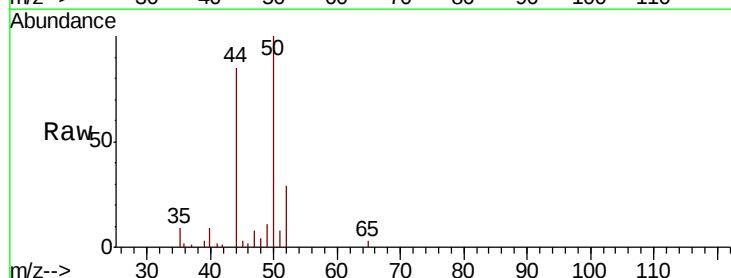
Acq: 28 Sep 2018 2:44

Tgt Ion: 50 Resp: 29671

Ion Ratio Lower Upper

50 100

52 28.9 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

30000

25000

20000

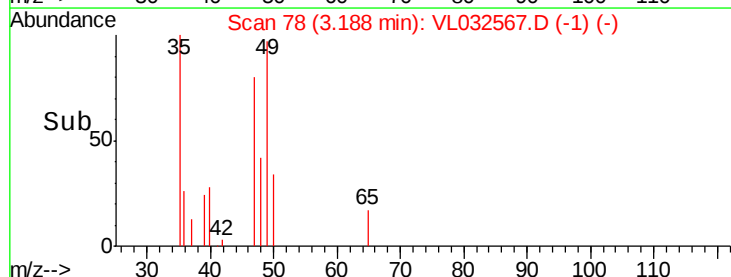
15000

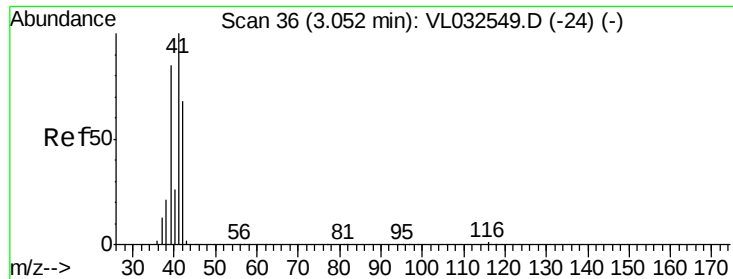
10000

5000

0

Time--> 3.15 3.20 3.25





#9

Propene

Concen: 9.742 ppbv m

RT: 3.07 min Scan# 41

Delta R.T. 0.00 min

Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Instrument :

MSVOA_L

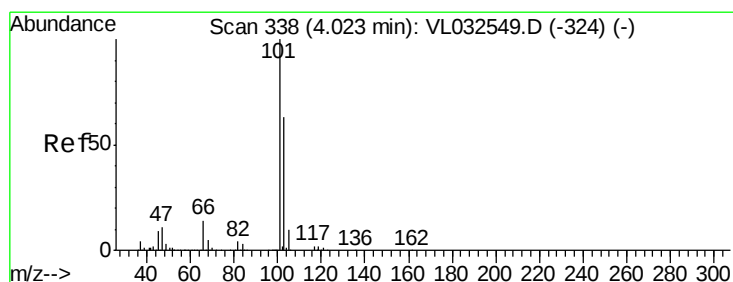
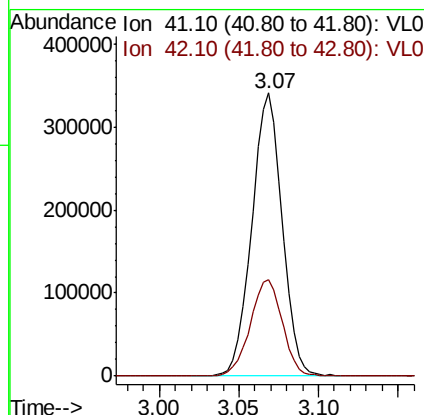
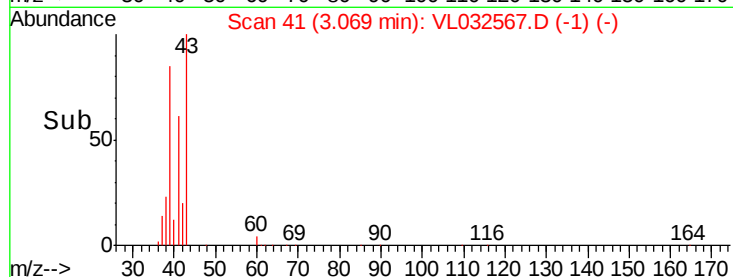
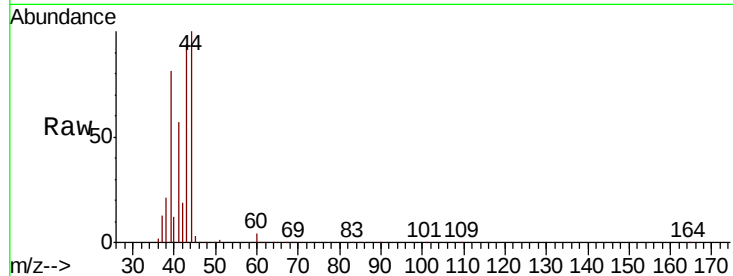
ClientSampleId :

PIA-1

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:49 AM

Tgt Ion: 41 Resp: 450312
Ion Ratio Lower Upper
41 100
42 208.3 56.6 84.8#



#11

Trichlorofluoromethane

Concen: 0.279 ppbv

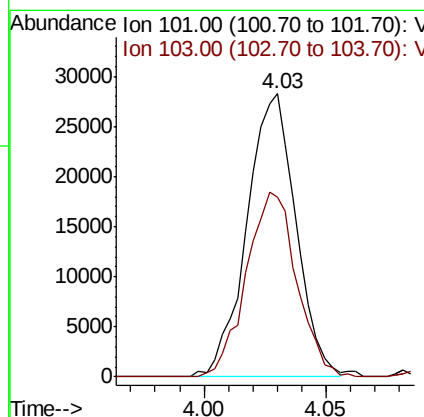
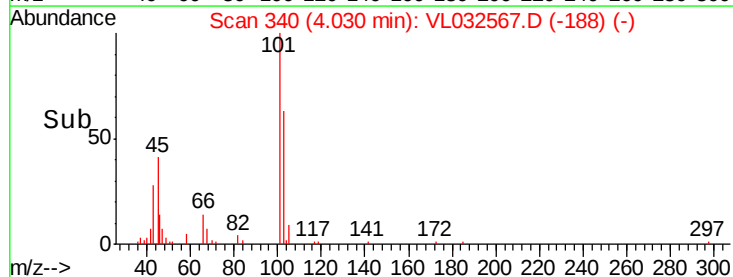
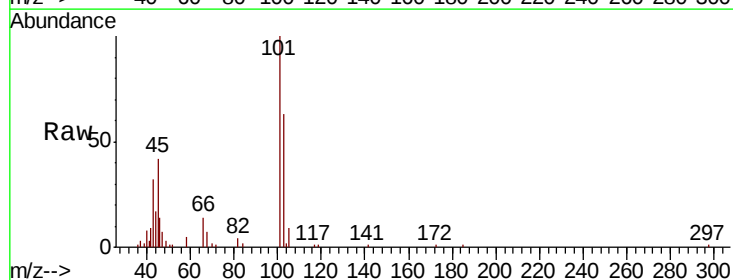
RT: 4.03 min Scan# 340

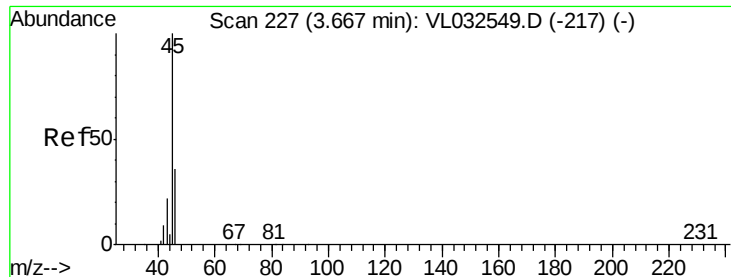
Delta R.T. -0.01 min

Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Tgt Ion: 101 Resp: 39360
Ion Ratio Lower Upper
101 100
103 63.4 52.8 79.2





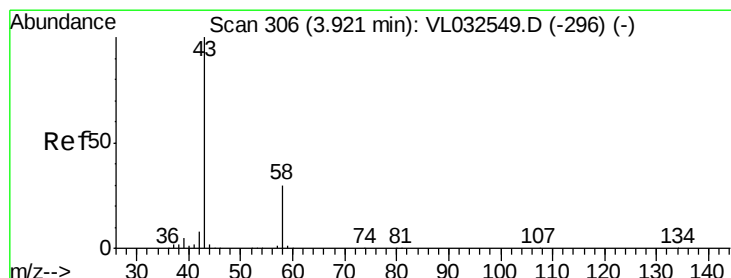
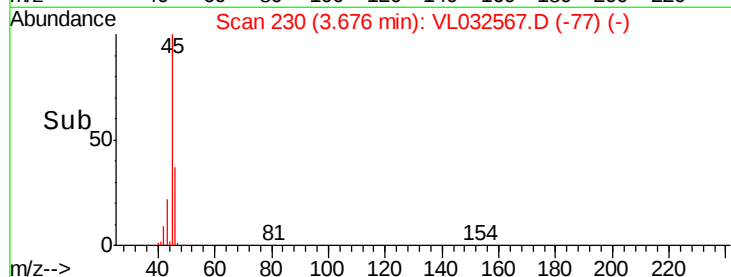
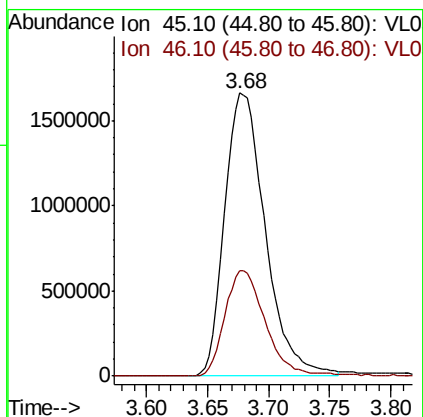
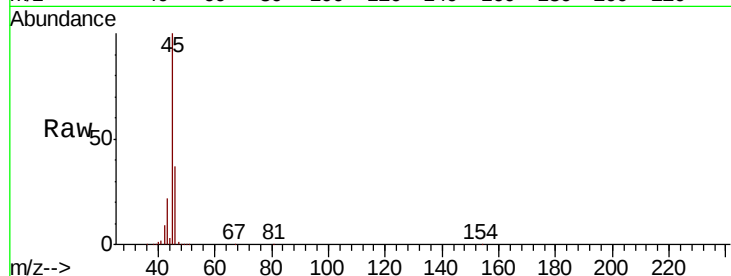
#13
Ethanol
Concen: 278.284 ppbv
RT: 3.68 min Scan# 230
Delta R.T. -0.01 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Instrument :
MSVOA_L
ClientSampleId :
PIA-1

Tgt Ion: 45 Resp: 3866416
Ion Ratio Lower Upper
45 100
46 37.5 14.2 56.8

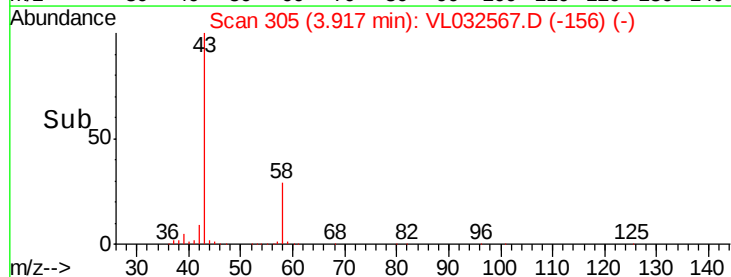
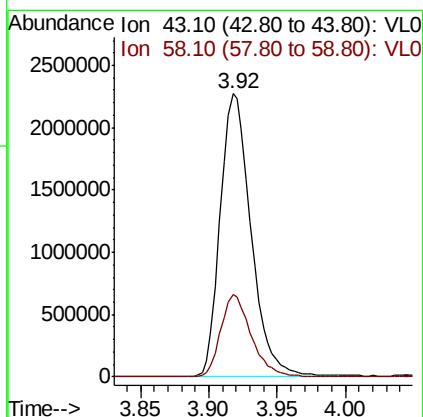
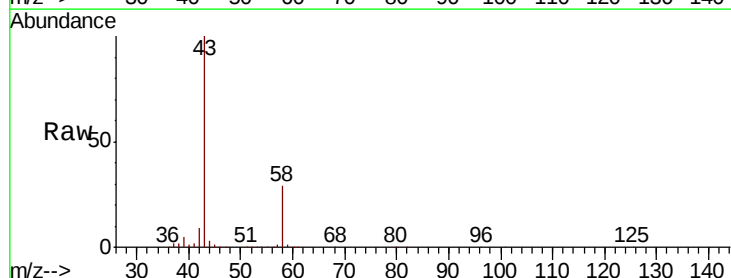
Manual Integrations
APPROVED

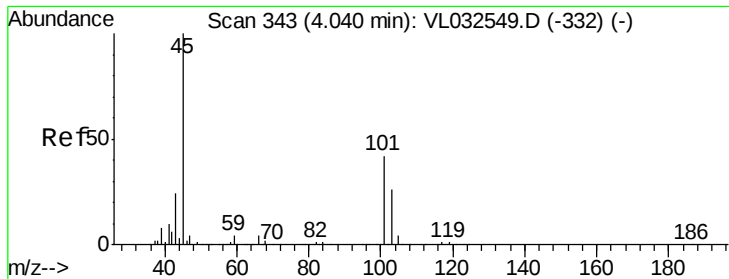
MMDadoda
10/1/2018 11:57:49 AM



#15
Acetone
Concen: 31.600 ppbv
RT: 3.92 min Scan# 305
Delta R.T. -0.02 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Tgt Ion: 43 Resp: 3553444
Ion Ratio Lower Upper
43 100
58 29.0 22.6 33.8





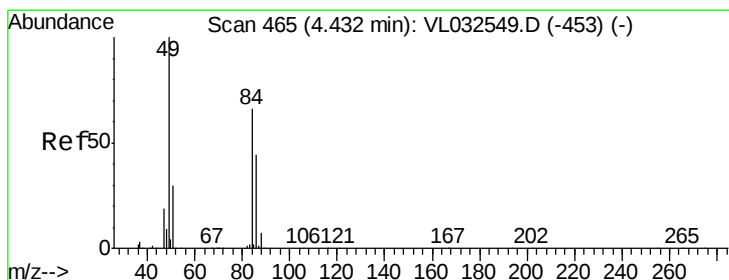
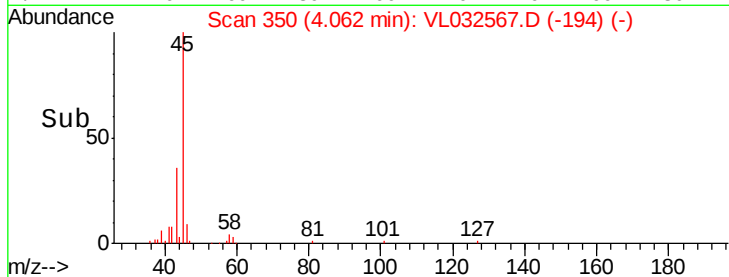
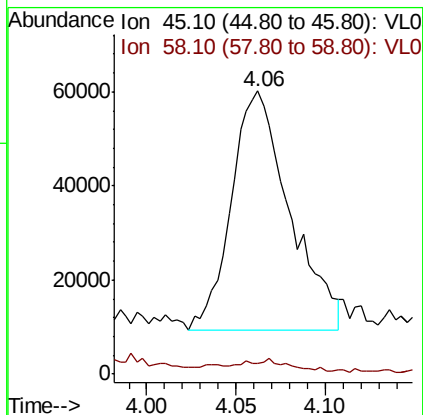
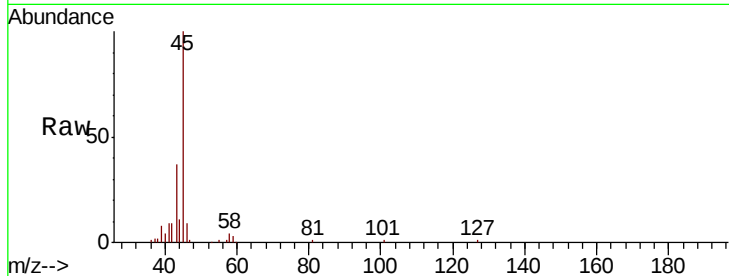
#19
Isopropyl Alcohol
Concen: 1.476 ppbv
RT: 4.06 min Scan# 350
Delta R.T. 0.00 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Instrument :
MSVOA_L
ClientSampled :
PIA-1

Tgt Ion: 45 Resp: 115578
Ion Ratio Lower Upper
45 100
58 890.7 2.0 3.0#

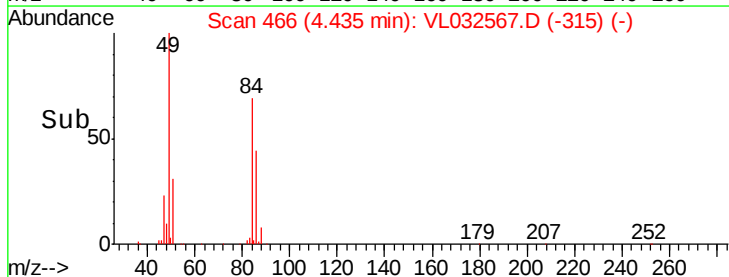
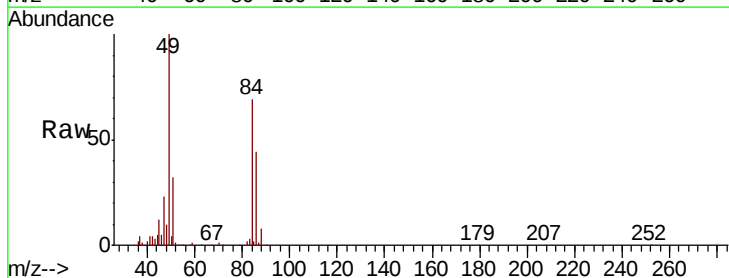
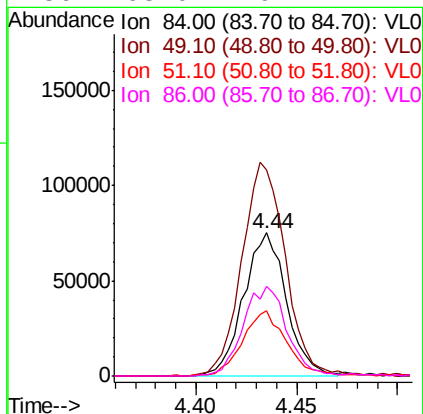
Manual Integrations
APPROVED

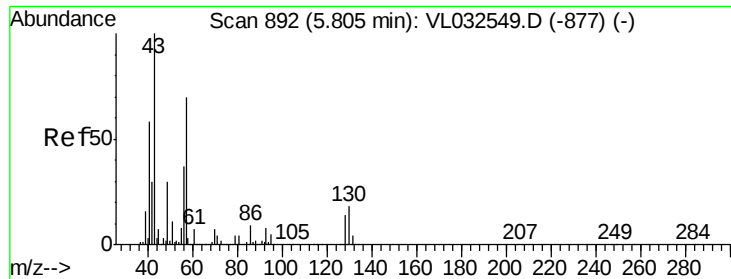
MMDadoda
10/1/2018 11:57:49 AM



#20
Methylene Chloride
Concen: 2.049 ppbv
RT: 4.44 min Scan# 466
Delta R.T. -0.01 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Tgt Ion: 84 Resp: 111597
Ion Ratio Lower Upper
84 100
49 144.2 119.1 178.7
51 45.7 35.2 52.8
86 63.0 49.4 74.2





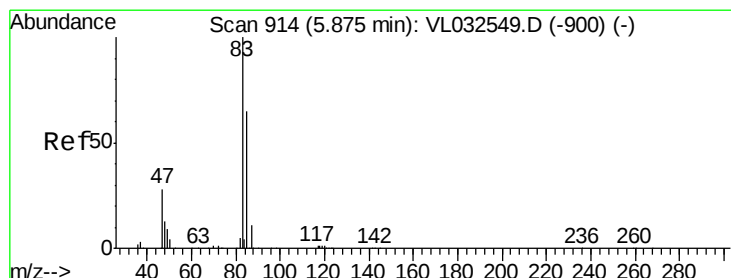
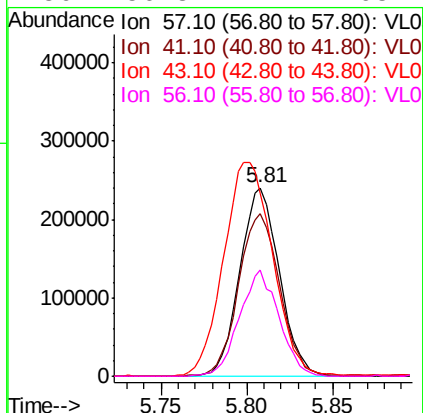
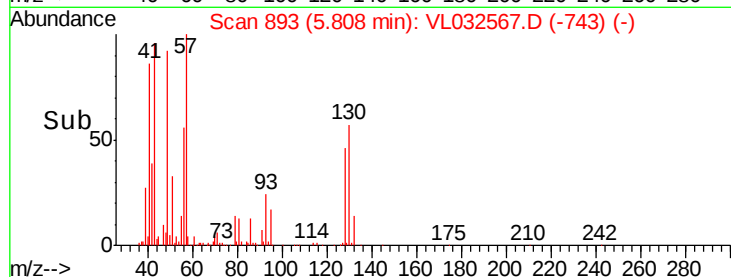
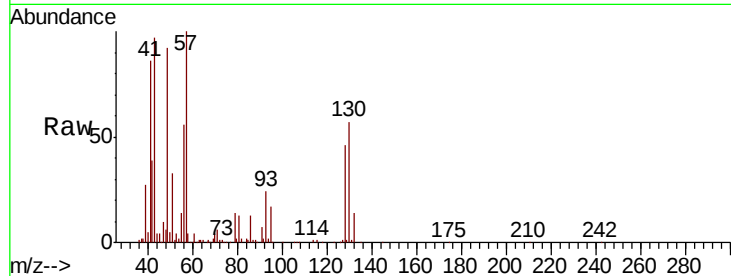
#26
Hexane
Concen: 3.123 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Instrument :
MSVOA_L
ClientSampled :
PIA-1

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.3	69.0	103.4
43	141.3	172.1	258.1#
56	56.3	42.2	63.2

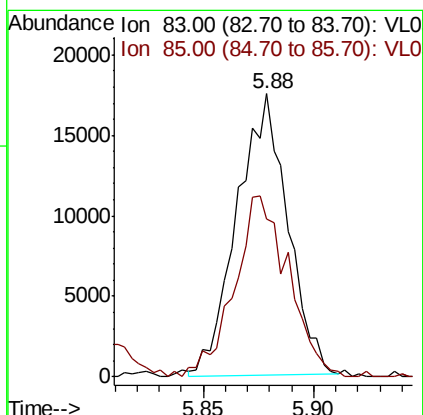
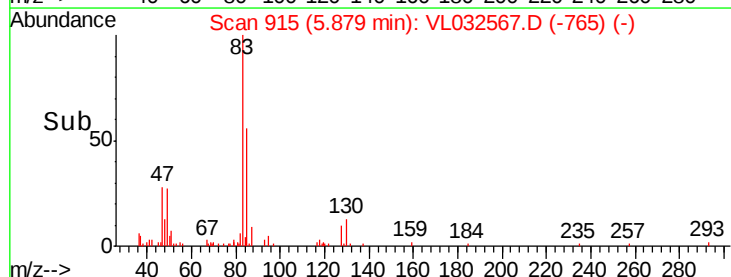
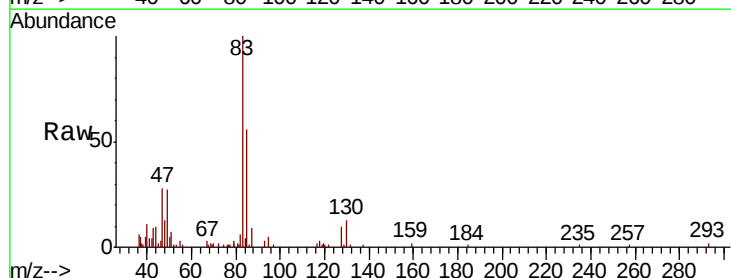
Manual Integrations
APPROVED

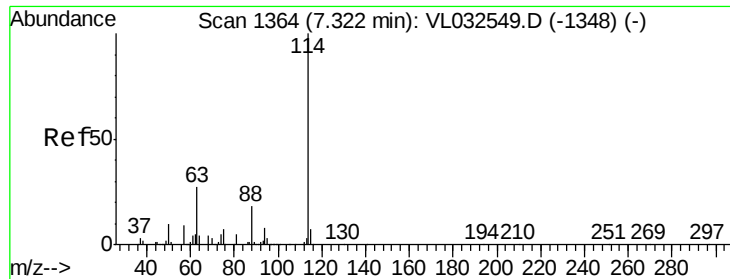
MMDadoda
10/1/2018 11:57:49 AM



#29
Chloroform
Concen: 0.148 ppbv
RT: 5.88 min Scan# 915
Delta R.T. -0.02 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.4	52.5	78.7





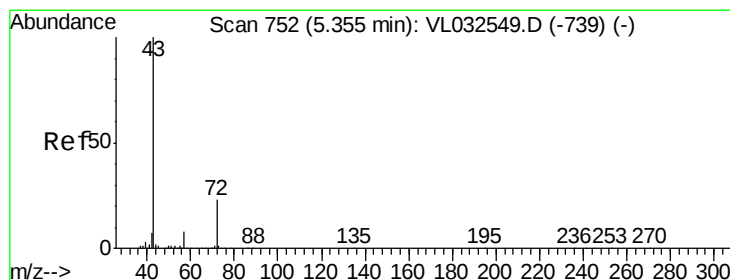
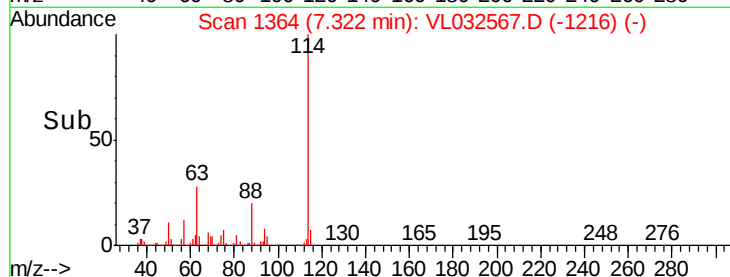
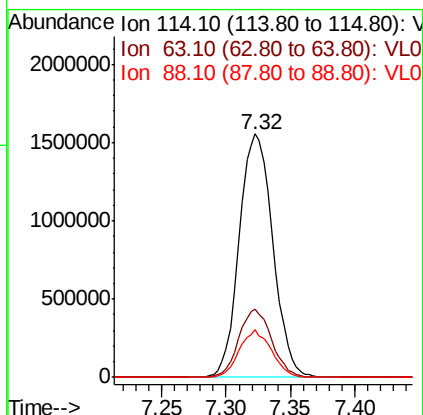
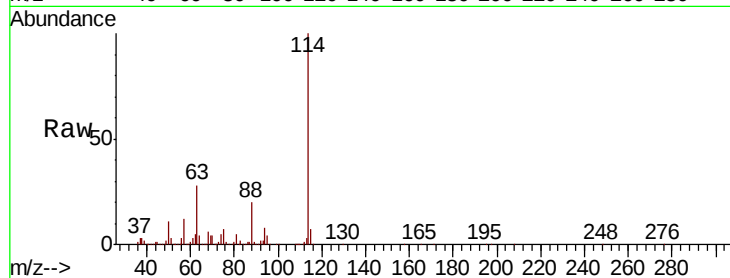
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1364
 Delta R.T. -0.02 min
 Lab File: VL032567.D
 Acq: 28 Sep 2018 2:44

Instrument :
 MSVOA_L
 ClientSampled :
 PIA-1

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.3	22.2	33.4
88	18.7	15.0	22.4

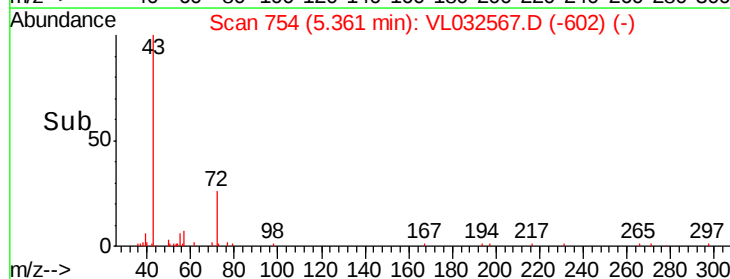
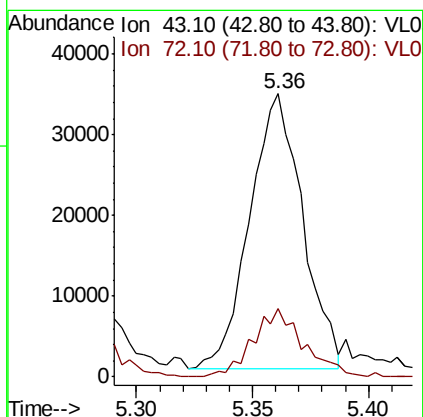
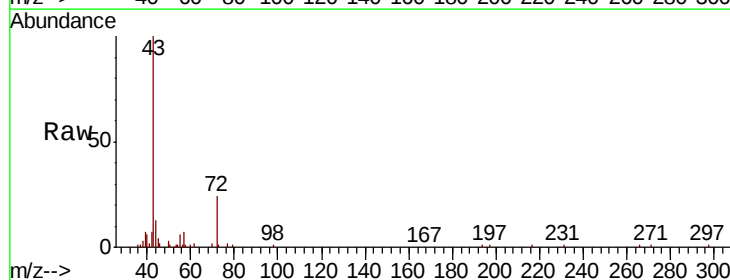
Manual Integrations
 APPROVED

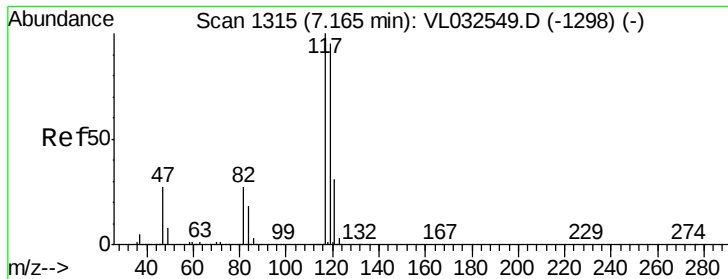
MMDadoda
 10/1/2018 11:57:49 AM



#34
 2-Butanone
 Concen: 0.321 ppbv
 RT: 5.36 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VL032567.D
 Acq: 28 Sep 2018 2:44

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.9	17.8	26.6





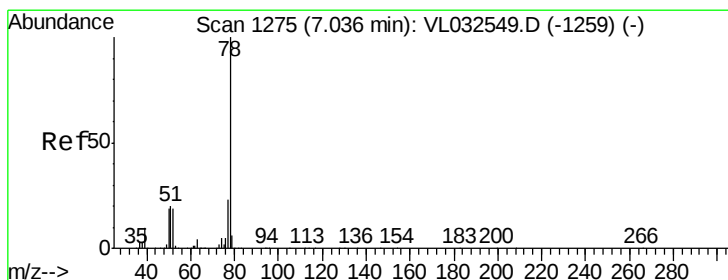
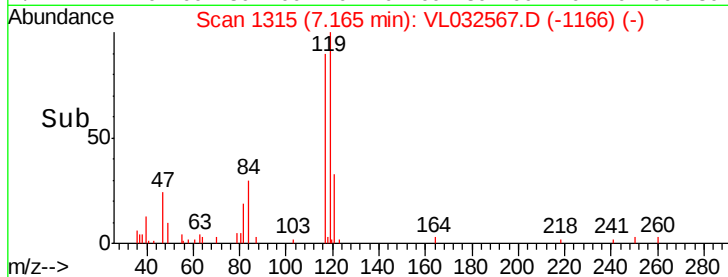
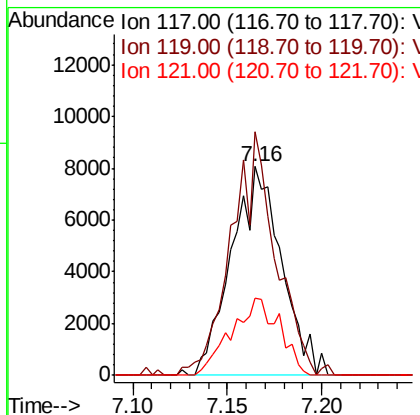
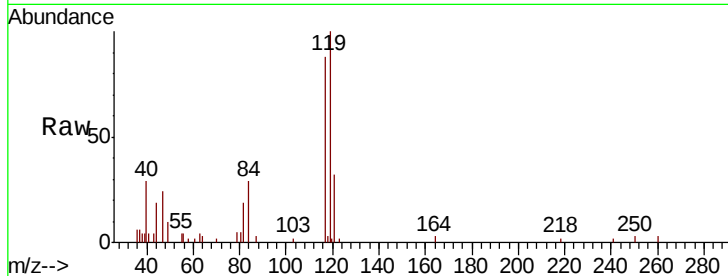
#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 7.16 min Scan# 1315
Delta R.T. -0.02 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Instrument :
MSVOA_L
ClientSampleId :
PIA-1

Tgt Ion	Ratio	Lower	Upper
117	100		
119	114.2	76.6	115.0
121	36.8	24.6	36.8

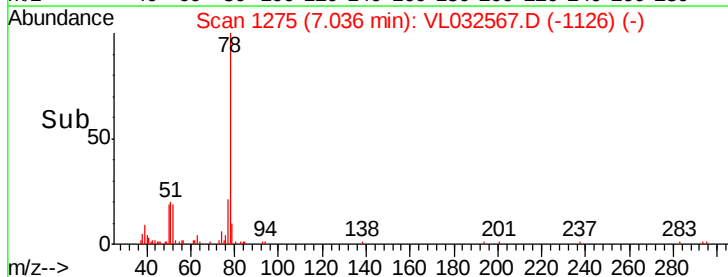
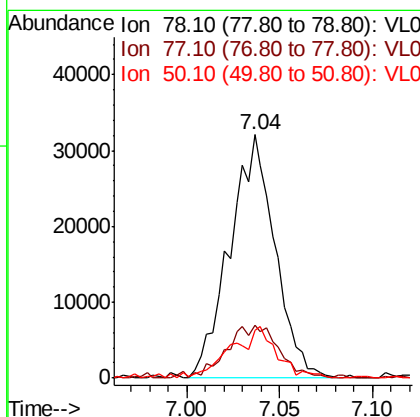
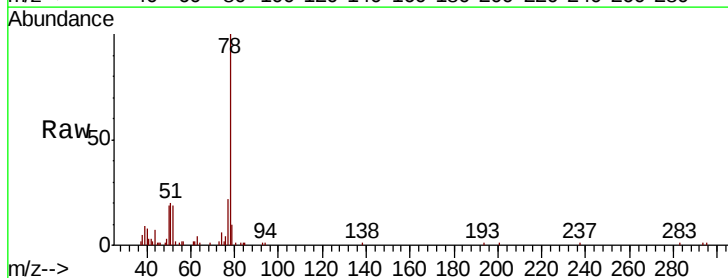
Manual Integrations
APPROVED

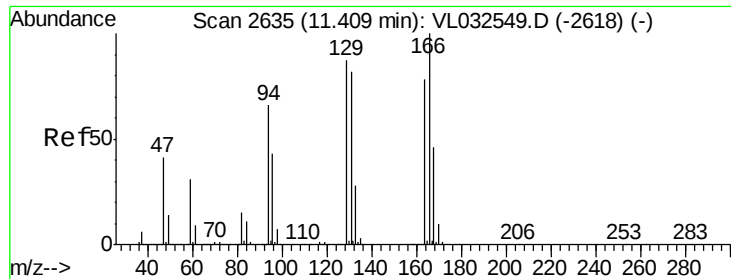
MMDadoda
10/1/2018 11:57:49 AM



#36
Benzene
Concen: 0.239 ppbv
RT: 7.04 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.5	18.4	27.6
50	18.8	14.4	21.6





#52

Tetrachloroethene

Concen: 0.126 ppbv m

RT: 11.41 min Scan# 2635

Delta R.T. -0.02 min

Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Instrument :

MSVOA_L

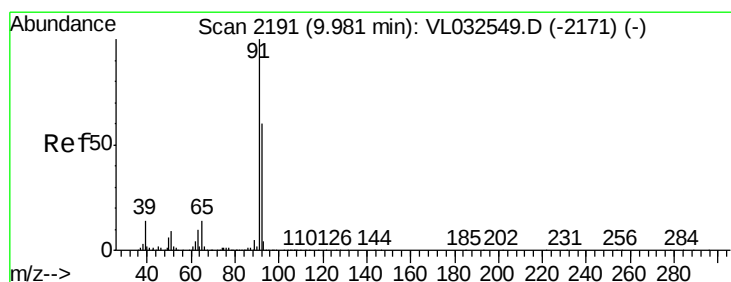
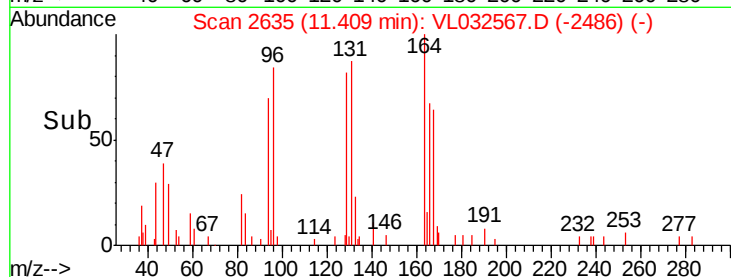
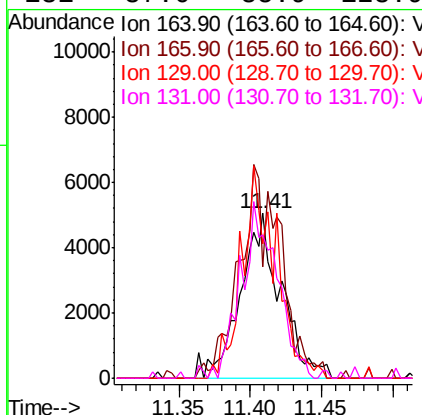
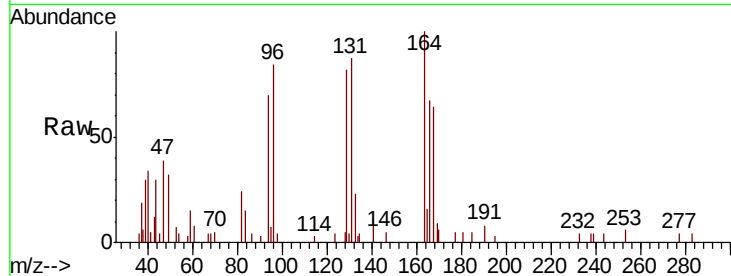
ClientSampleId :

PIA-1

Tgt Ion	Ratio	Lower	Upper
164	100		
166	67.2	100.6	150.8#
129	81.6	89.9	134.9#
131	87.0	85.9	128.9

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:49 AM



#53

Toluene

Concen: 3.257 ppbv

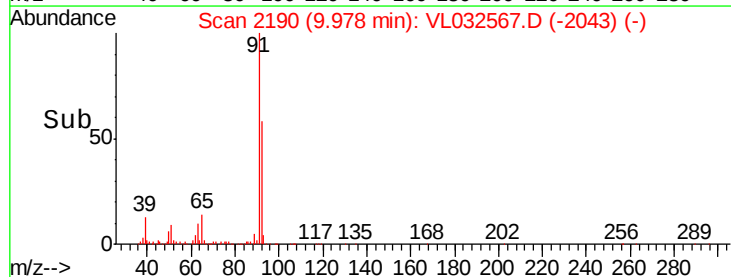
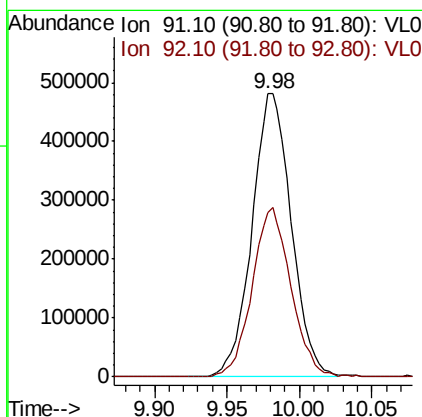
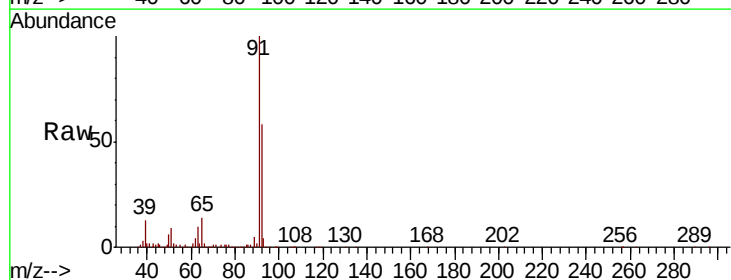
RT: 9.98 min Scan# 2190

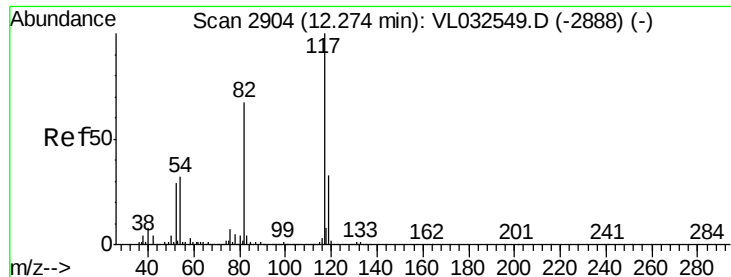
Delta R.T. -0.03 min

Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.3	48.1	72.1





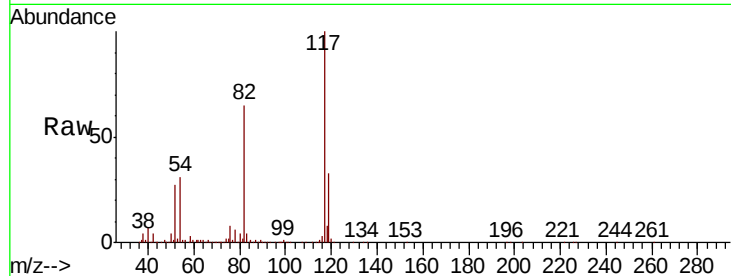
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Instrument :
MSVOA_L
ClientSampleId :
PIA-1

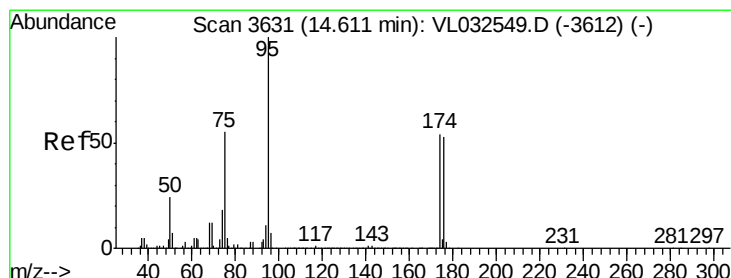
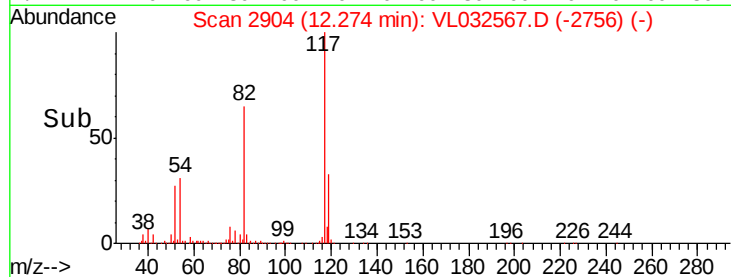
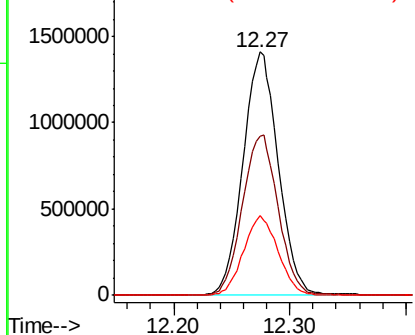
Tgt Ion	Ratio	Lower	Upper
117	100		
82	67.5	53.0	79.6
119	32.3	45.9	68.9

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:49 AM

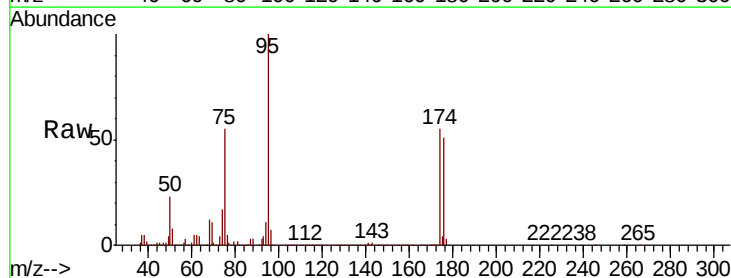


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

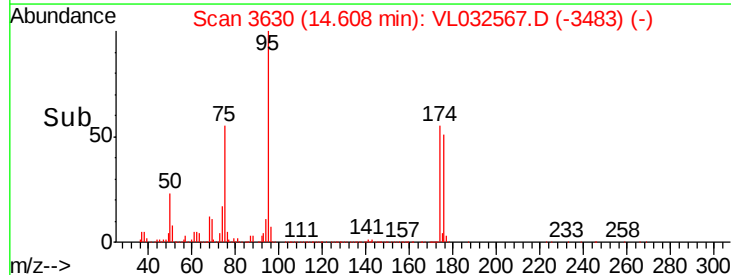
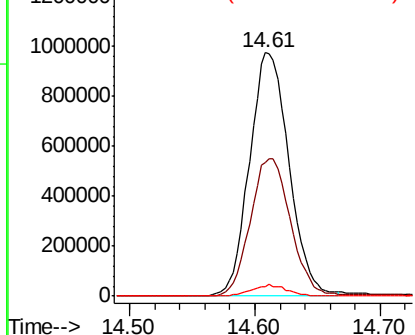


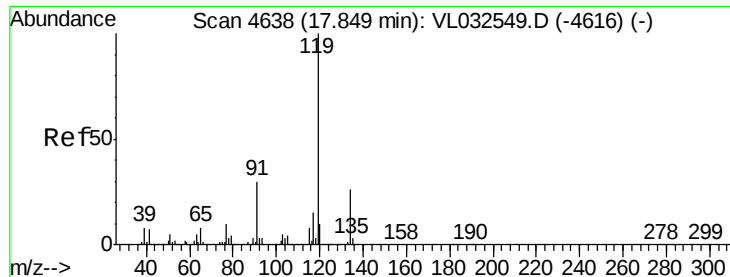
#68
1-Bromo-4-Fluorobenzene
Concen: 9.510 ppbv
RT: 14.61 min Scan# 3630
Delta R.T. -0.03 min
Lab File: VL032567.D
Acq: 28 Sep 2018 2:44

Tgt Ion	Ratio	Lower	Upper
95	100		
174	58.7	46.3	69.5
175	4.2	3.4	5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.115 ppbv m

RT: 17.85 min Scan# 4639

Delta R.T. -0.02 min

Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Instrument :

MSVOA_L

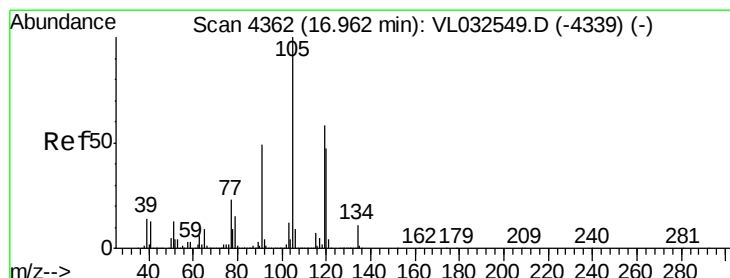
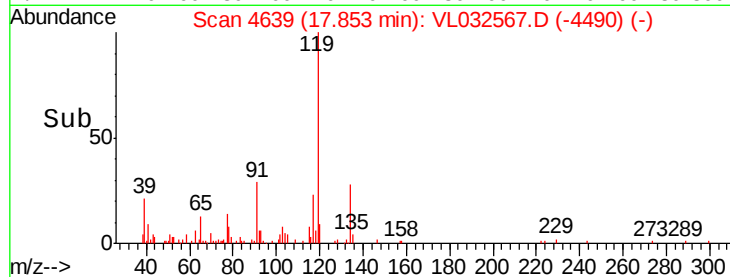
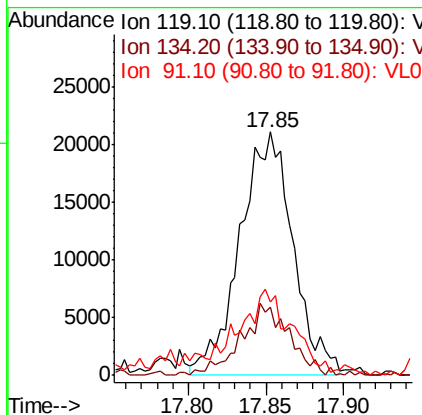
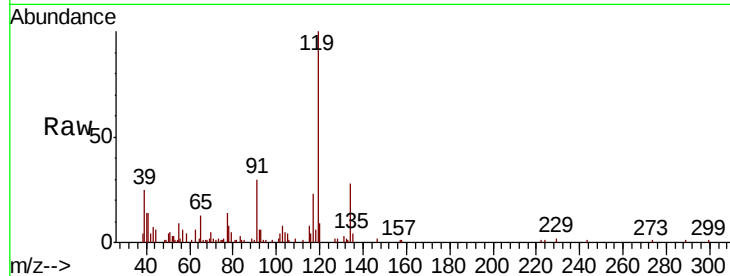
ClientSampled :

PIA-1

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	50143		
134	0.0	20.4	30.6#	
91	0.0	23.4	35.2#	

Manual Integrations
APPROVED

MMDadoda
10/1/2018 11:57:49 AM



#74

1,2,4-Trimethylbenzene

Concen: 0.202 ppbv m

RT: 16.96 min Scan# 4360

Delta R.T. -0.03 min

Lab File: VL032567.D

Acq: 28 Sep 2018 2:44

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	71797		
120	36.2	37.8	56.8#	
91	10.9	41.4	62.0#	
77	14.6	18.6	28.0#	

