

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061319\
 Data File : VL033919.D
 Acq On : 14 Jun 2019 5:29
 Operator : SY/AP
 Sample : K3367-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 6/17/2019 12:37:33 AM

Quant Time: Jun 16 18:10:43 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	5.75	49	920397	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2079793	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	2091237	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1674683	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	43955	0.294	ppbv #	87
3) Chlorodifluoromethane	3.00	51	57300m	0.529	ppbv	
4) Chloromethane	3.17	50	26779	0.433	ppbv	95
9) Propene	3.03	41	35718	0.881	ppbv	89
11) Trichlorofluoromethane	3.99	101	42872	0.222	ppbv #	82
13) Ethanol	3.65	45	410086	31.088	ppbv	94
15) Acetone	3.89	43	432425	3.221	ppbv	98
19) Isopropyl Alcohol	4.04	45	88476	1.154	ppbv #	90
20) Methylene Chloride	4.40	84	182595	3.488	ppbv	99
26) Hexane	5.76	57	185629	1.994	ppbv #	41
34) 2-Butanone	5.32	43	25022	0.213	ppbv	94
35) Carbon Tetrachloride	7.11	117	12858m	0.080	ppbv	
36) Benzene	6.98	78	47452	0.299	ppbv #	91
44) 2,2,4-Trimethylpentane	7.98	57	75792	0.268	ppbv #	74
52) Tetrachloroethene	11.35	164	75065	1.343	ppbv	91
53) Toluene	9.93	91	1103572	6.277	ppbv	100
58) Ethyl Benzene	12.85	91	17470m	0.074	ppbv	
59) m/p-Xylene	13.10	91	55304m	0.258	ppbv	
72) 4-Ethyltoluene	15.99	105	28466m	0.113	ppbv	
74) 1,2,4-Trimethylbenzene	16.91	105	65527	0.229	ppbv #	78

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

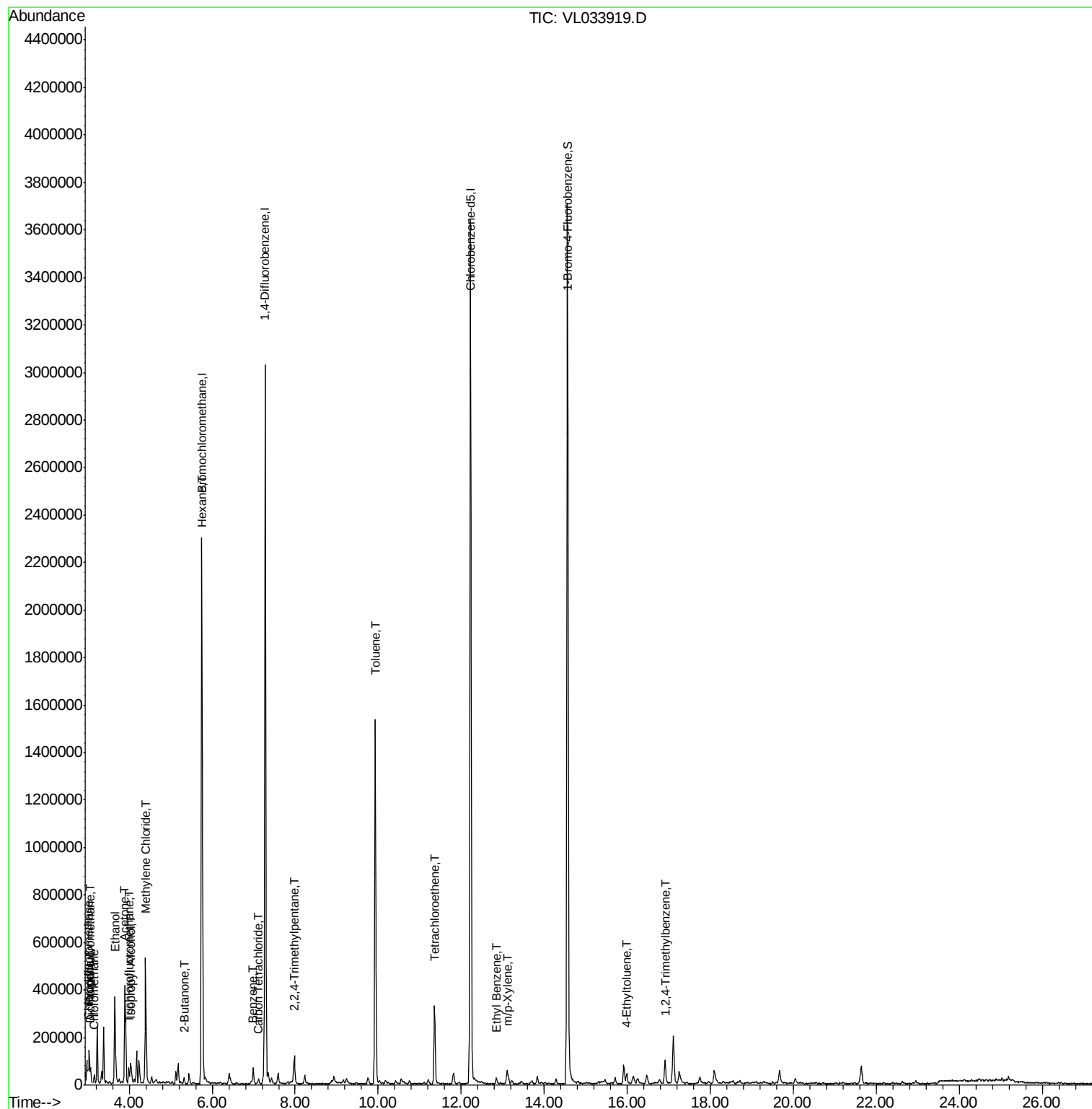
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061319\
Data File : VL033919.D
Acq On : 14 Jun 2019 5:29
Operator : SY/AP
Sample : K3367-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

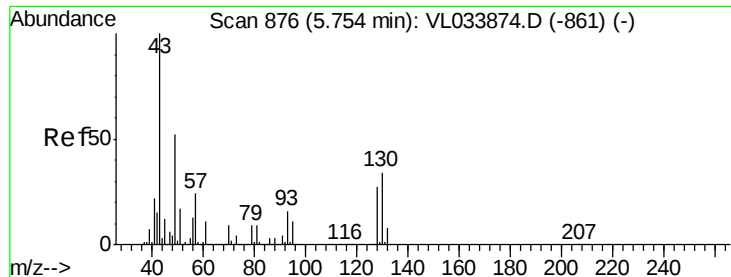
Instrument :
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Quant Time: Jun 16 18:10:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 874

Delta R.T. -0.01 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Instrument :

MSVOA_L

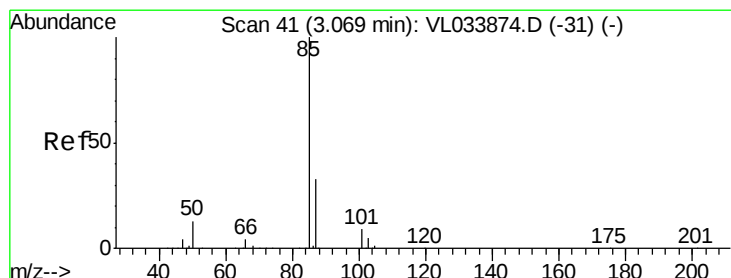
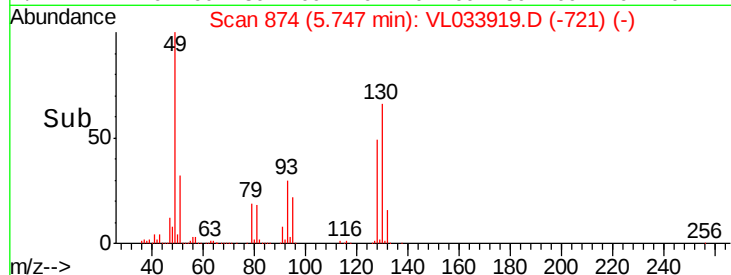
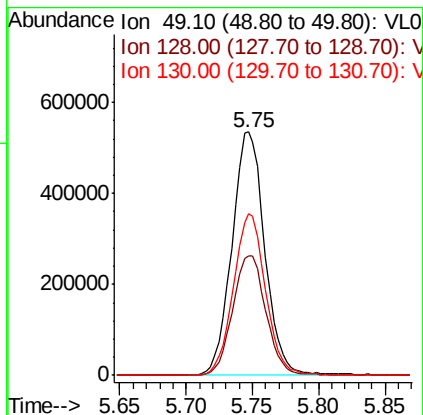
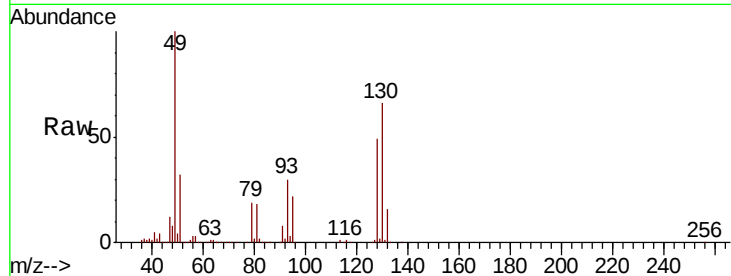
ClientSampleId :

QA1

Tot Ion	Ratio	Lower	Upper
49	100		
128	49.8	25.5	76.5
130	65.0	32.5	97.4

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#2

Dichlorodifluoromethane

Concen: 0.294 ppbv

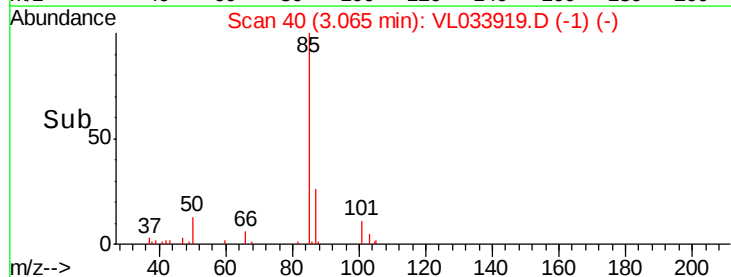
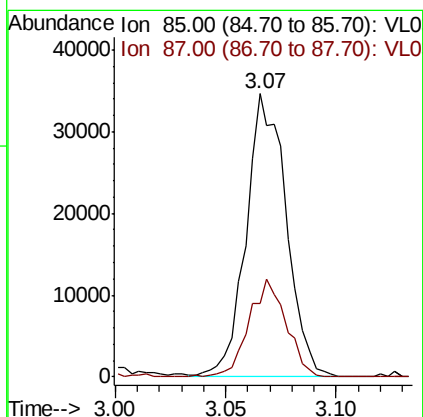
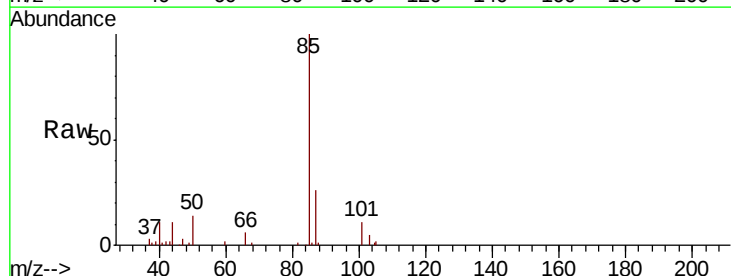
RT: 3.07 min Scan# 40

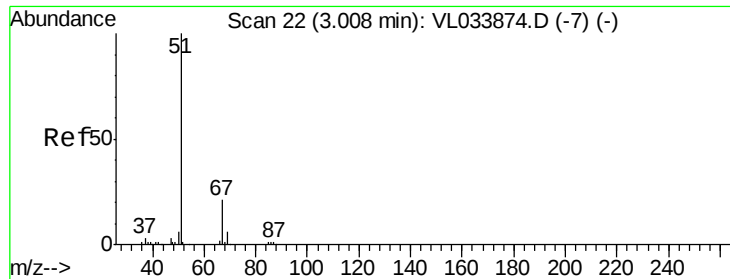
Delta R.T. -0.00 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Tgt Ion	Ratio	Lower	Upper
85	100		
87	25.7	26.6	40.0#





#3

Chlorodifluoromethane

Concen: 0.529 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 51 Resp: 57300

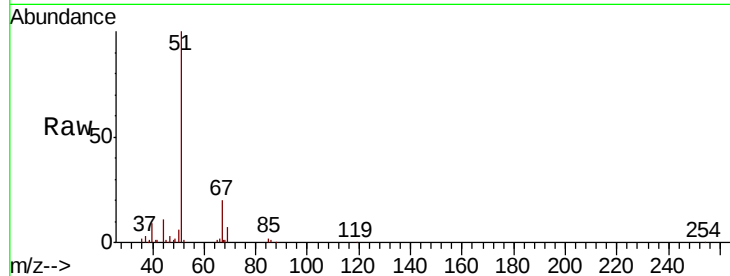
Ion Ratio Lower Upper

51 100

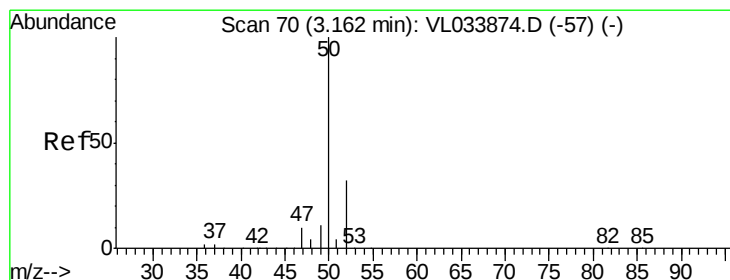
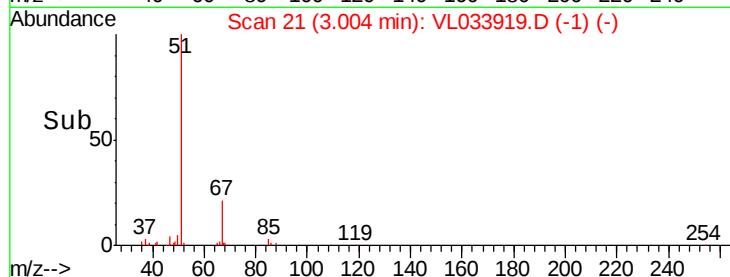
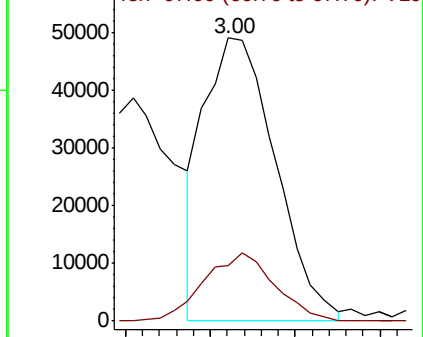
67 24.0 16.4 24.6

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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.433 ppbv

RT: 3.17 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL033919.D

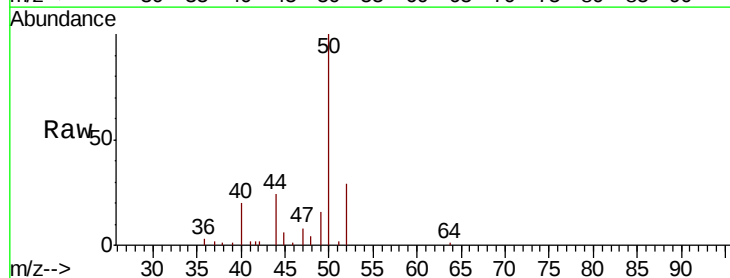
Acq: 14 Jun 2019 5:29

Tgt Ion: 50 Resp: 26779

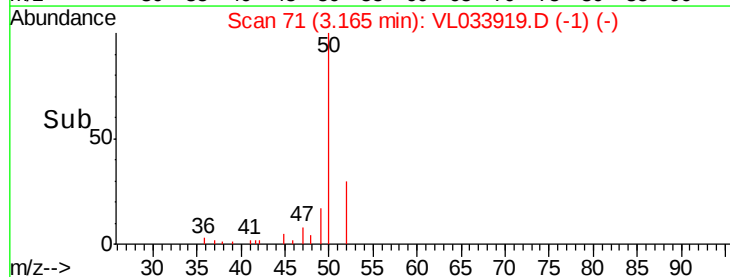
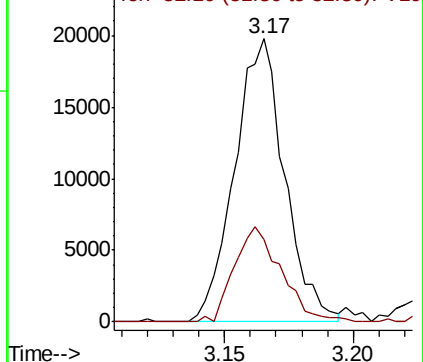
Ion Ratio Lower Upper

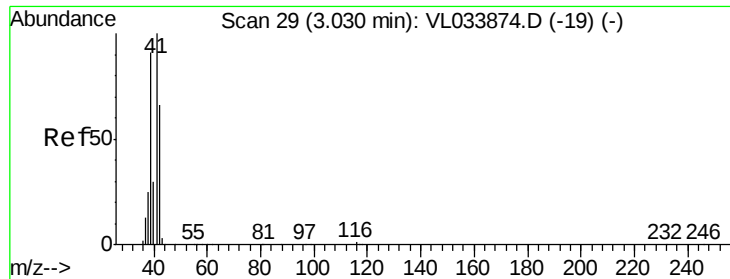
50 100

52 29.2 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.881 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 41 Resp: 35718

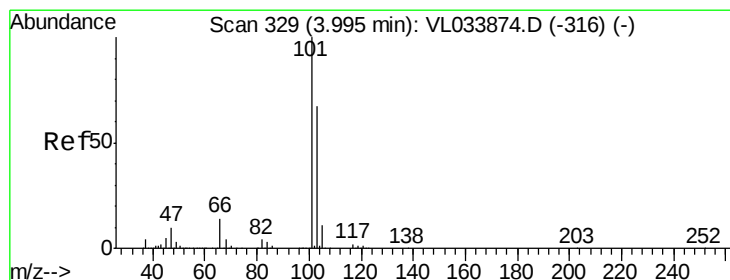
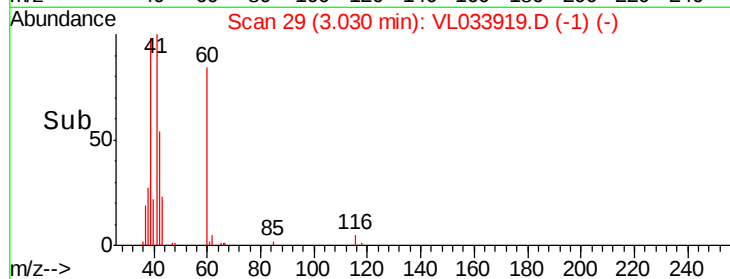
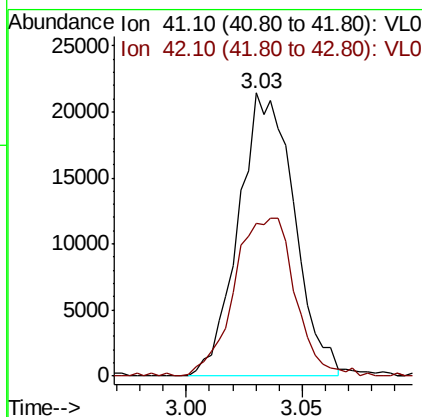
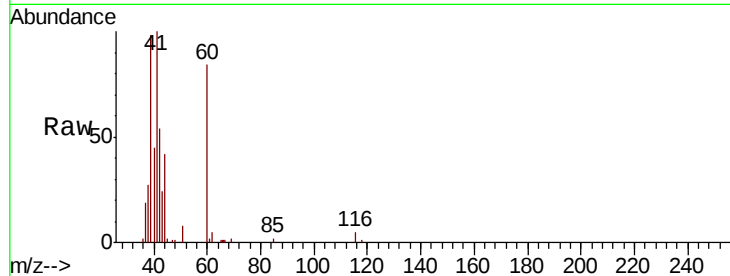
Ion Ratio Lower Upper

41 100

42 61.4 56.3 84.5

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#11

Trichlorofluoromethane

Concen: 0.222 ppbv

RT: 3.99 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL033919.D

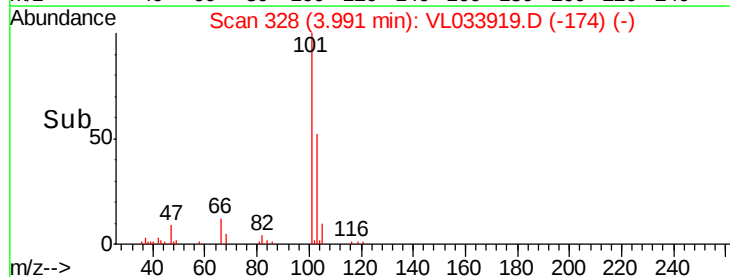
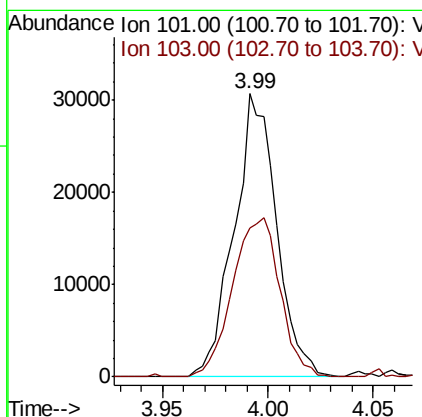
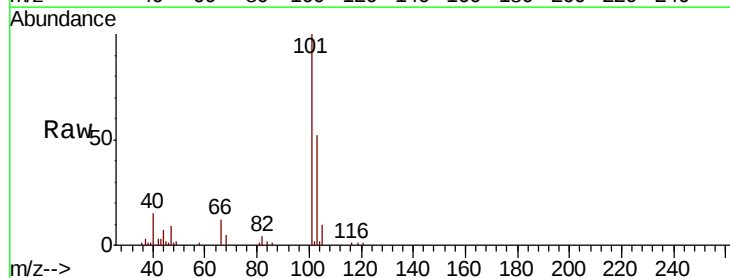
Acq: 14 Jun 2019 5:29

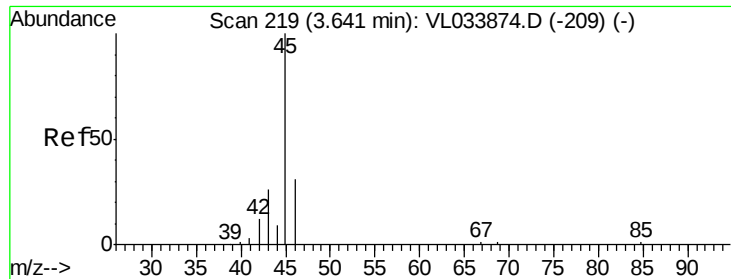
Tgt Ion: 101 Resp: 42872

Ion Ratio Lower Upper

101 100

103 52.4 53.6 80.4#





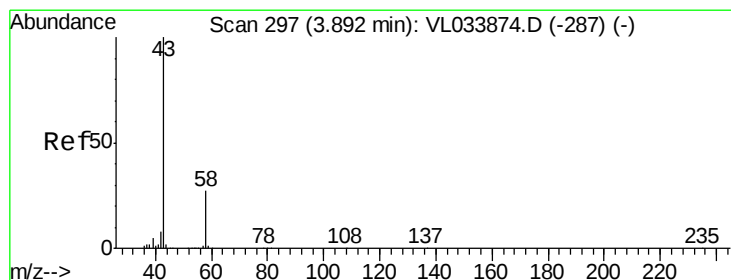
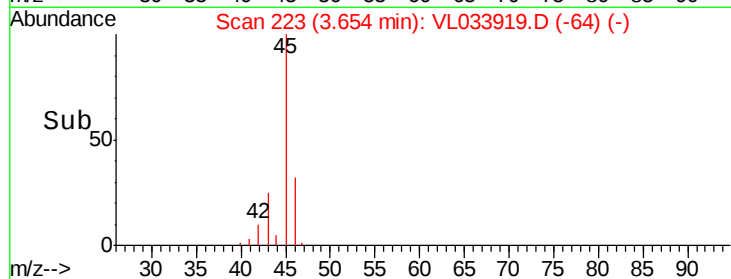
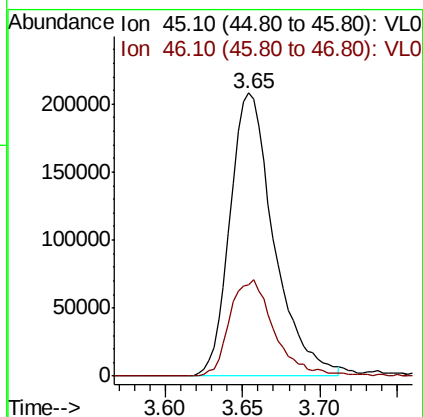
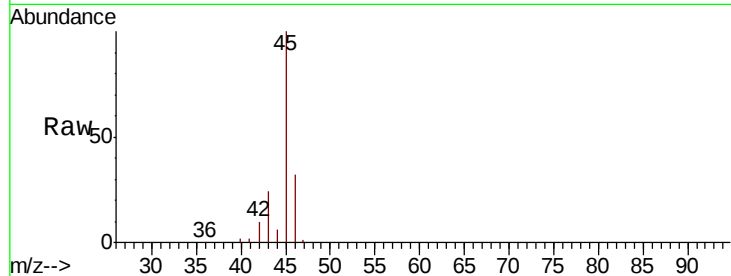
#13
Ethanol
Concen: 31.088 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.01 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	34.7		15.3	61.1	

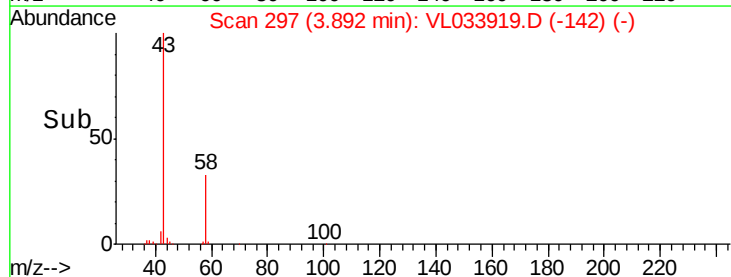
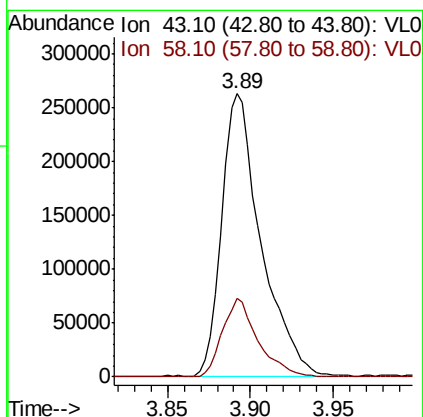
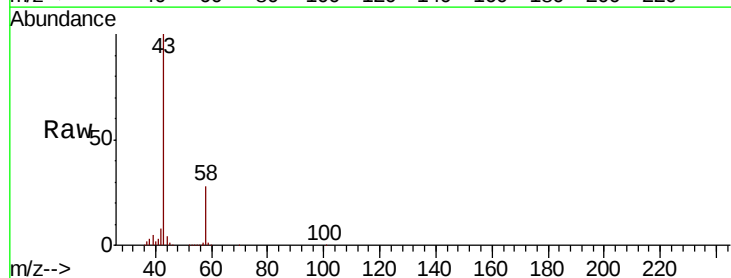
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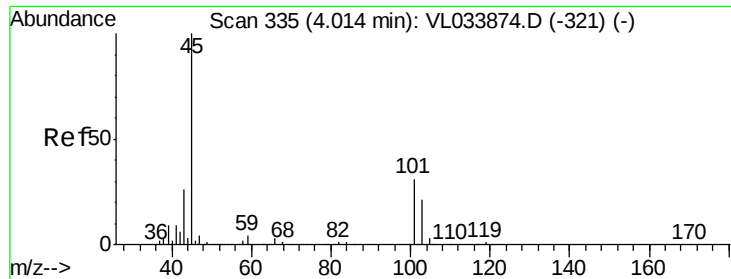
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#15
Acetone
Concen: 3.221 ppbv
RT: 3.89 min Scan# 297
Delta R.T. -0.00 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58	25.3		21.3	31.9	





#19

Isopropyl Alcohol

Concen: 1.154 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.02 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 45 Resp: 88476

Ion Ratio Lower Upper

45 100

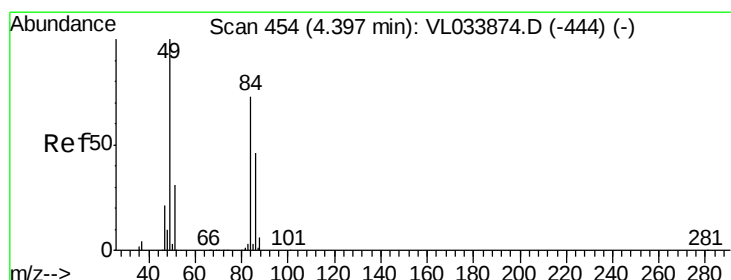
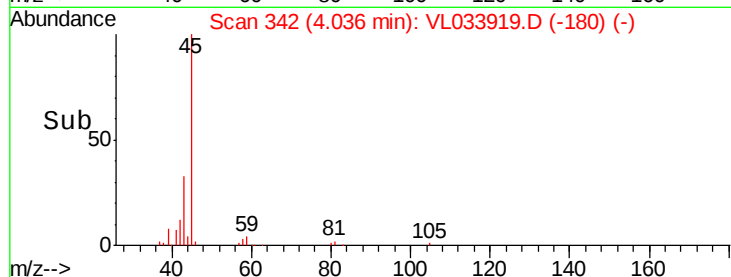
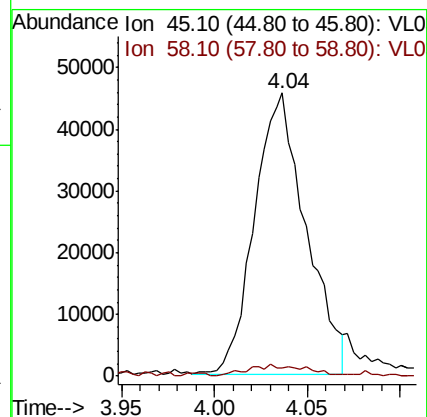
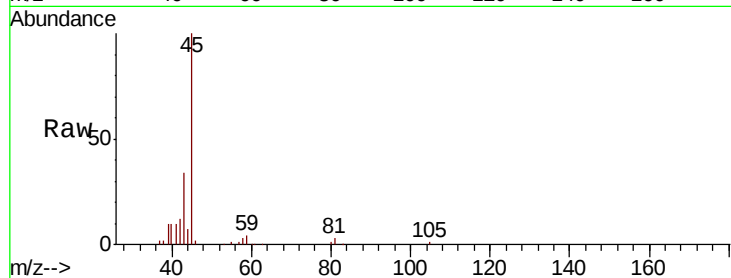
58 5.7 1.8 2.6#

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#20

Methylene Chloride

Concen: 3.488 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.00 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Tgt Ion: 84 Resp: 182595

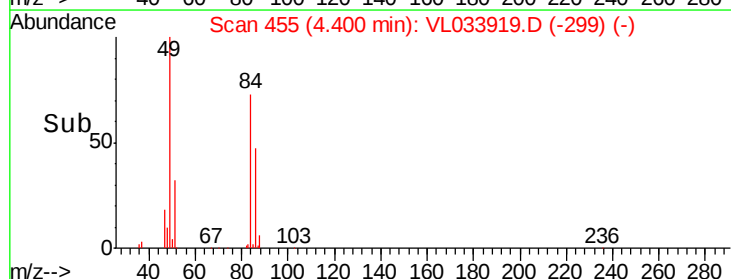
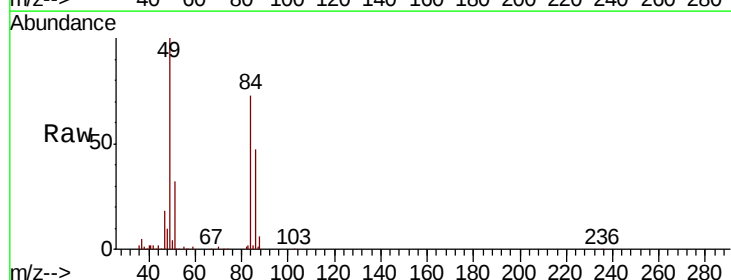
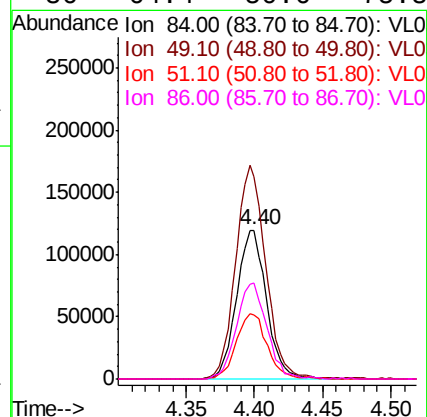
Ion Ratio Lower Upper

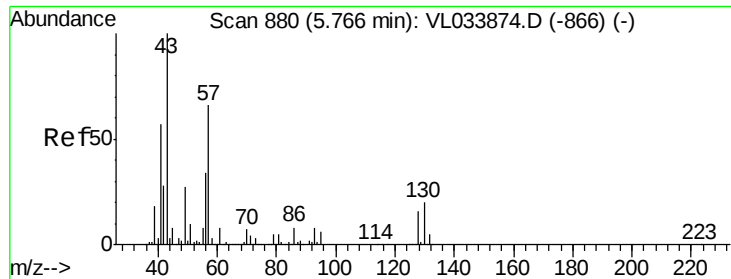
84 100

49 136.2 110.0 165.0

51 43.0 34.6 51.8

86 64.4 50.6 75.8





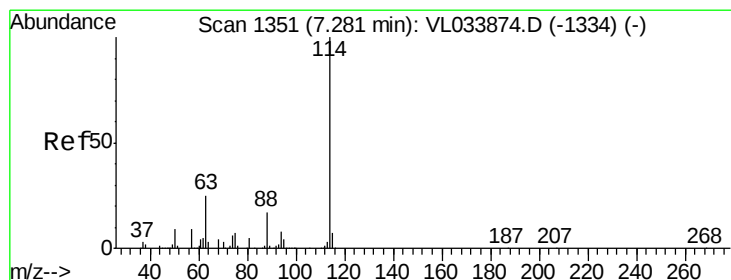
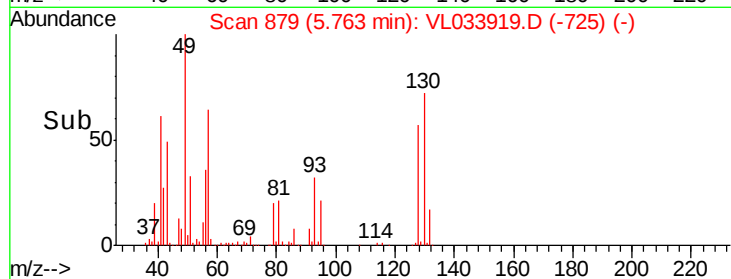
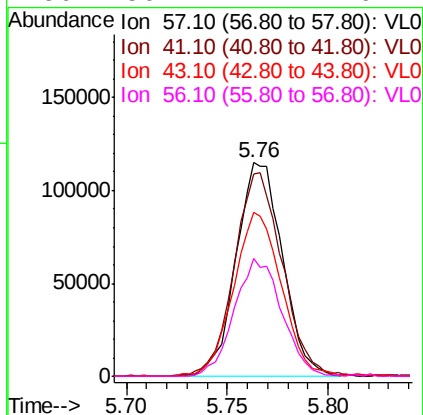
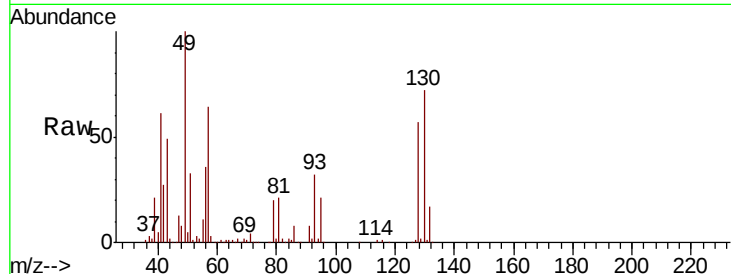
#26
Hexane
Concen: 1.994 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.00 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.7	71.4	107.2
43	80.6	183.7	275.5#
56	56.7	42.7	64.1

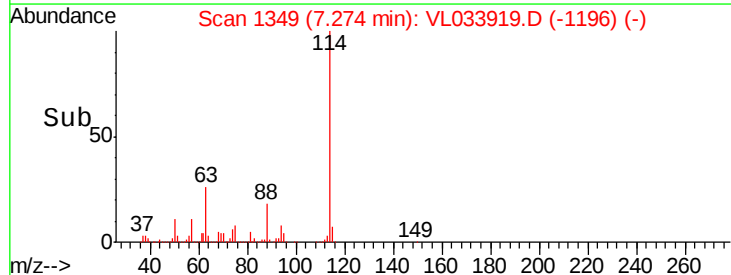
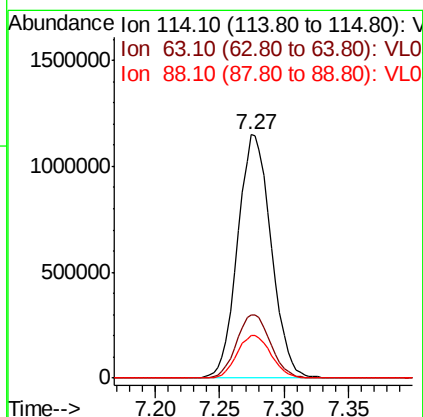
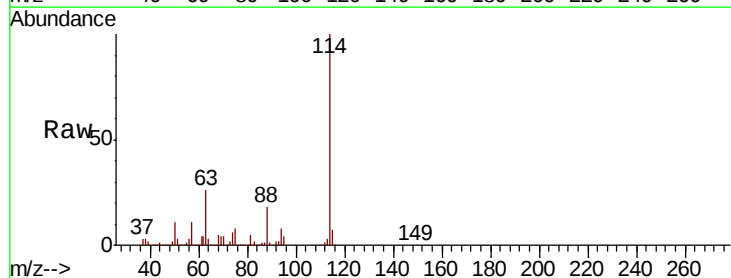
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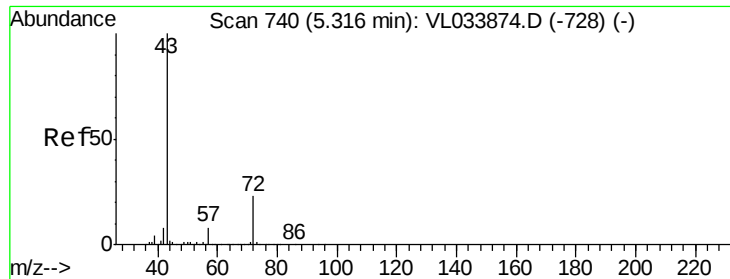
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.27 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.1	31.7
88	17.9	14.2	21.4





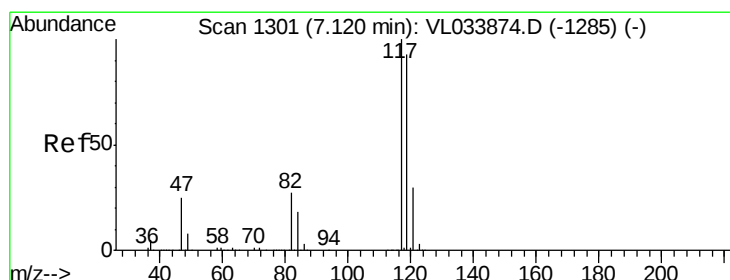
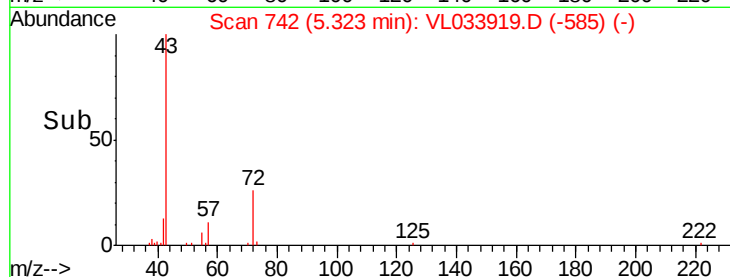
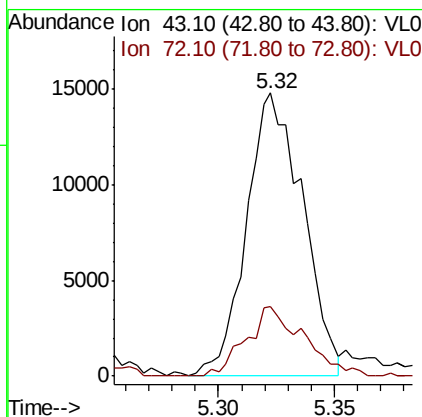
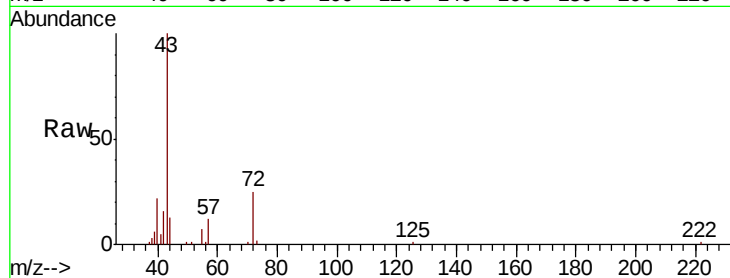
#34
2-Butanone
Concen: 0.213 ppbv
RT: 5.32 min Scan# 742
Delta R.T. 0.01 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	43	Resp	25022
Ion Ratio	Lower	Upper	
43	100		
72	25.4	17.9	26.9

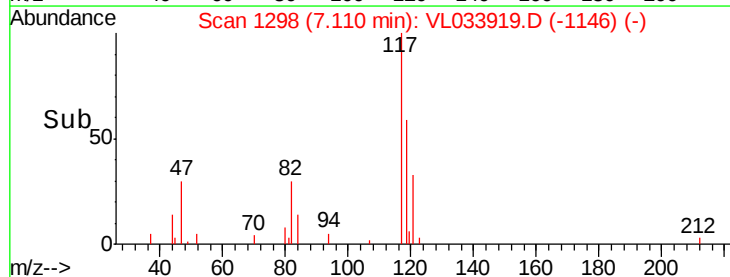
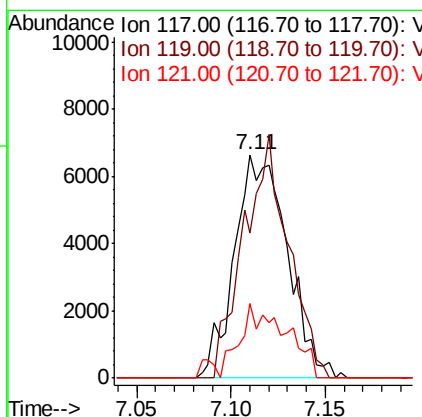
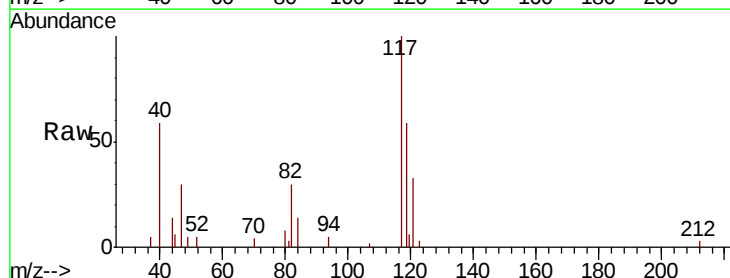
Manual Integrations
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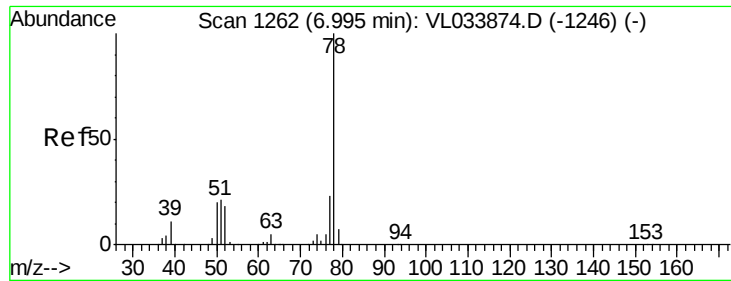
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#35
Carbon Tetrachloride
Concen: 0.080 ppbv m
RT: 7.11 min Scan# 1298
Delta R.T. -0.01 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Tgt Ion	117	Resp	12858
Ion Ratio	Lower	Upper	
117	100		
119	58.6	74.6	111.8#
121	33.3	24.0	36.0





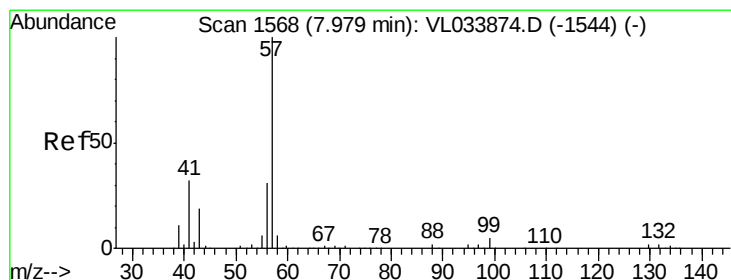
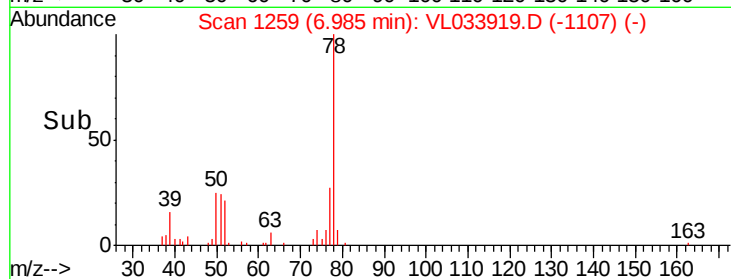
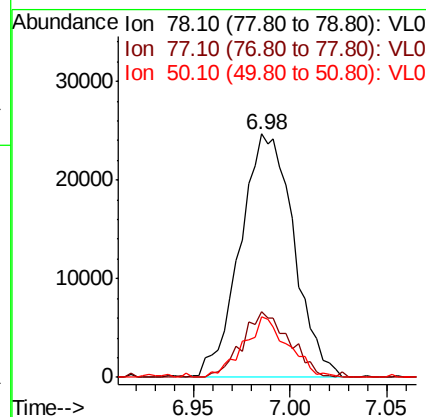
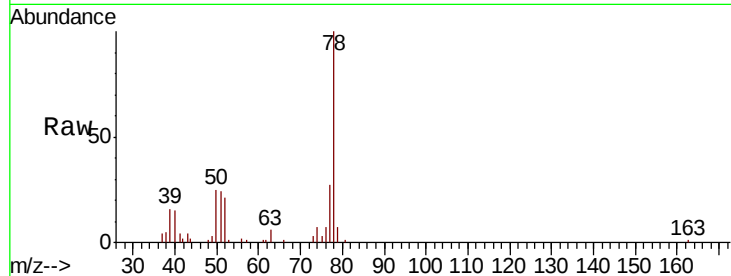
#36
Benzene
Concen: 0.299 ppbv
RT: 6.98 min Scan# 1259
Delta R.T. -0.01 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	26.5	18.2	27.2
50	25.0	15.9	23.9

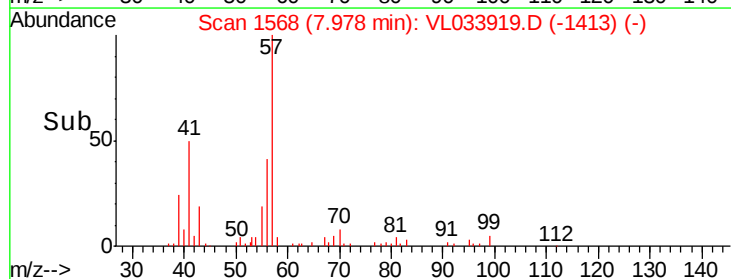
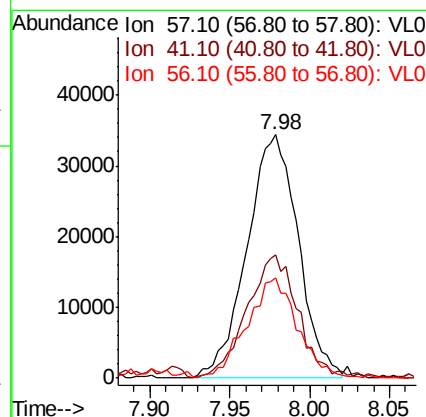
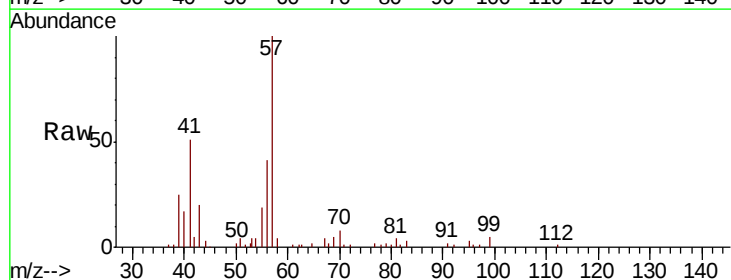
Manual Integrations
APPROVED

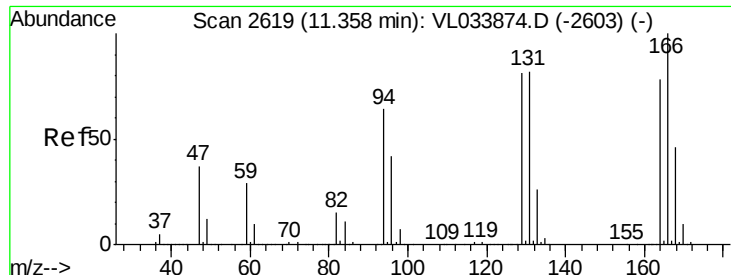
MMDadoda
6/17/2019 12:37:33 AM



#44
2,2,4-Trimethylpentane
Concen: 0.268 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Tgt Ion	Ratio	Lower	Upper
57	100		
41	50.3	26.1	39.1
56	41.3	24.6	36.8





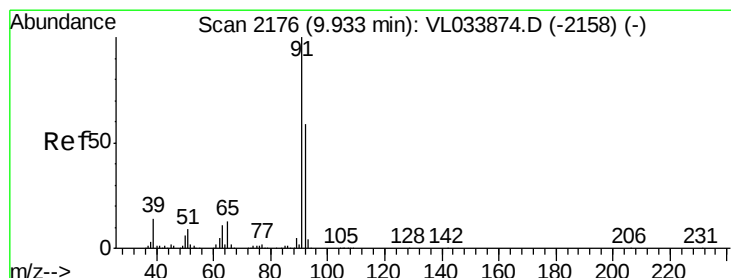
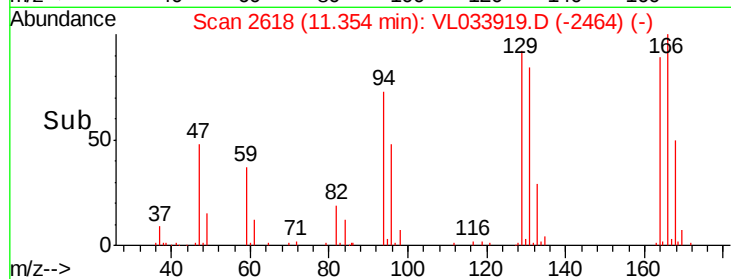
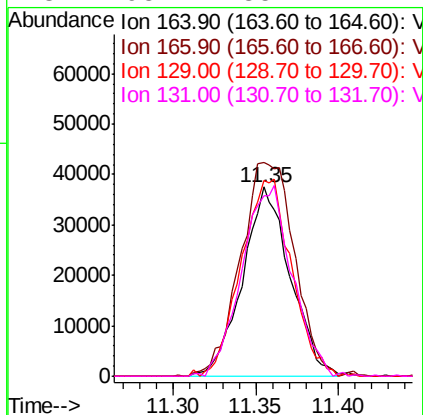
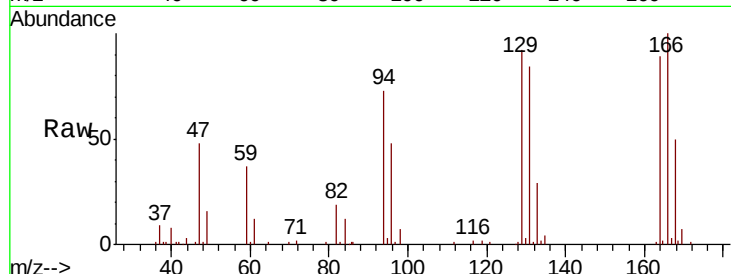
#52
Tetrachloroethene
Concen: 1.343 ppbv
RT: 11.35 min Scan# 2618
Delta R.T. -0.00 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion	Ratio	Lower	Upper
164	100		
166	112.9	103.1	154.7
129	103.8	83.9	125.9
131	95.1	85.1	127.7

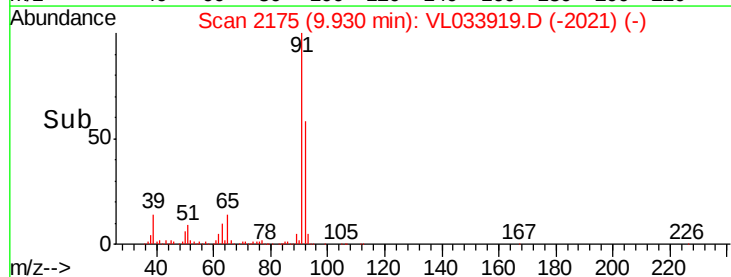
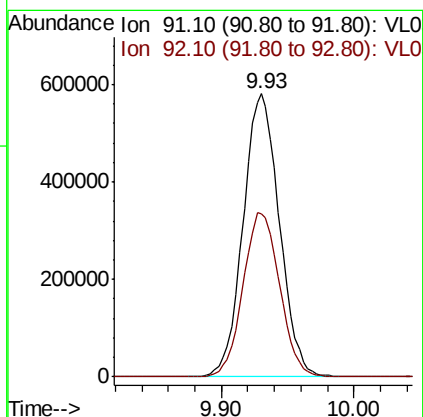
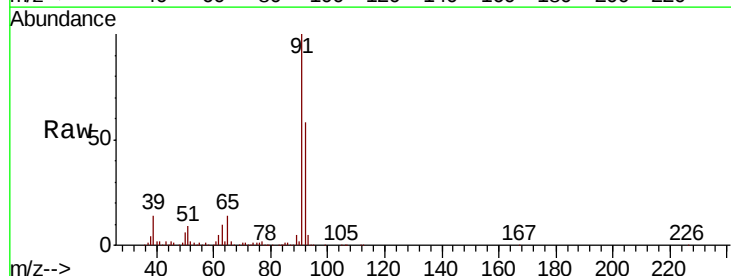
Manual Integrations
APPROVED

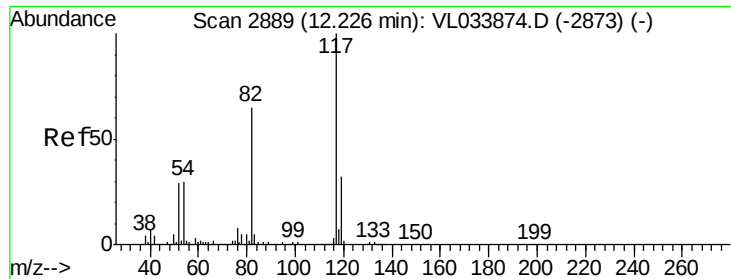
MMDadoda
6/17/2019 12:37:33 AM



#53
Toluene
Concen: 6.277 ppbv
RT: 9.93 min Scan# 2175
Delta R.T. -0.00 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.8	47.0	70.6





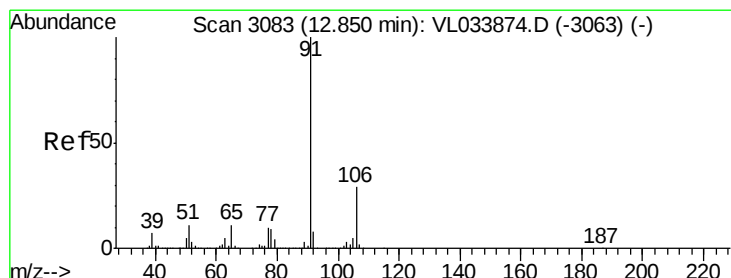
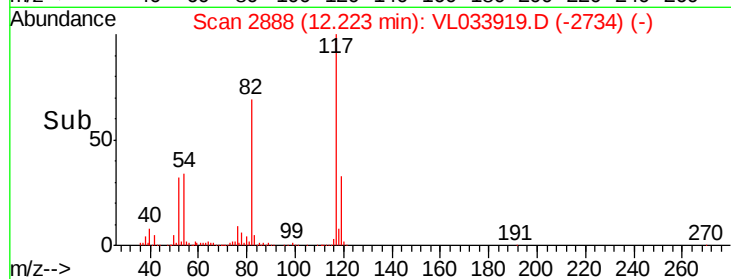
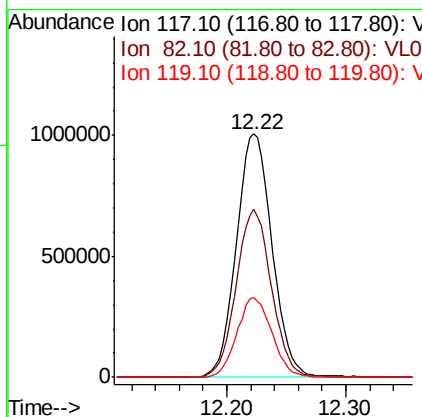
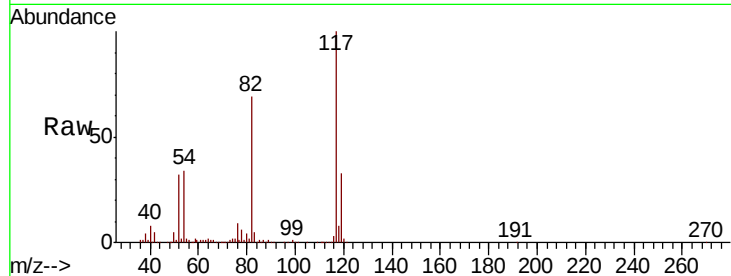
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.22 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.6	50.2	75.2
119	32.3	24.8	37.2

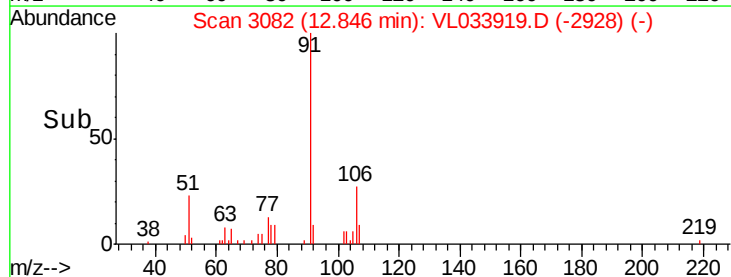
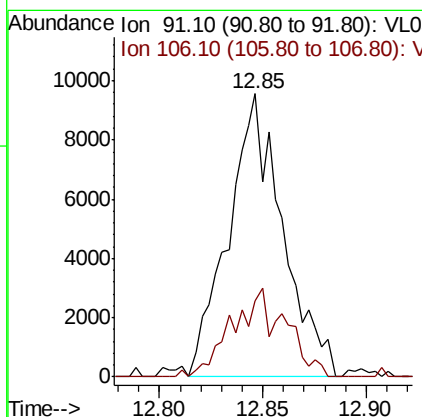
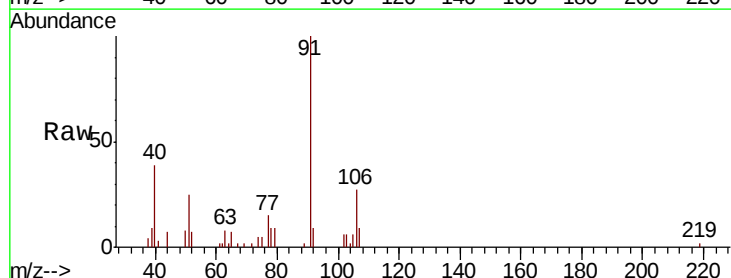
Manual Integrations
APPROVED

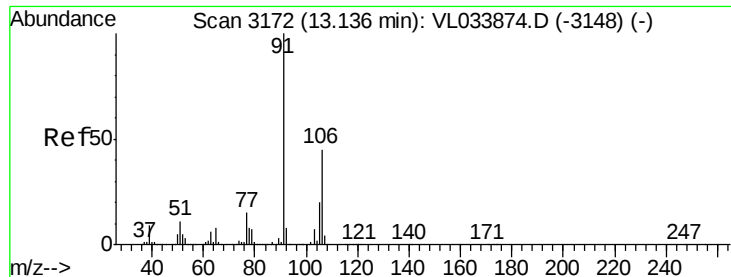
MMDadoda
6/17/2019 12:37:33 AM



#58
Ethyl Benzene
Concen: 0.074 ppbv m
RT: 12.85 min Scan# 3082
Delta R.T. -0.00 min
Lab File: VL033919.D
Acq: 14 Jun 2019 5:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.6	23.0	34.6





#59

m/p-Xylene

Concen: 0.258 ppbv m

RT: 13.10 min Scan# 3162

Delta R.T. -0.03 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 91 Resp: 55304

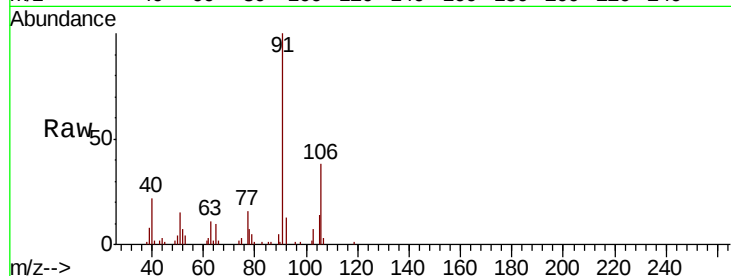
Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.8#

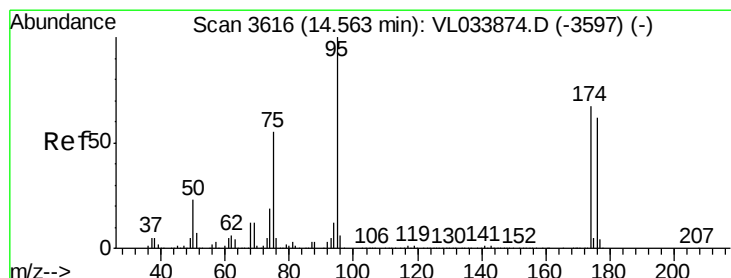
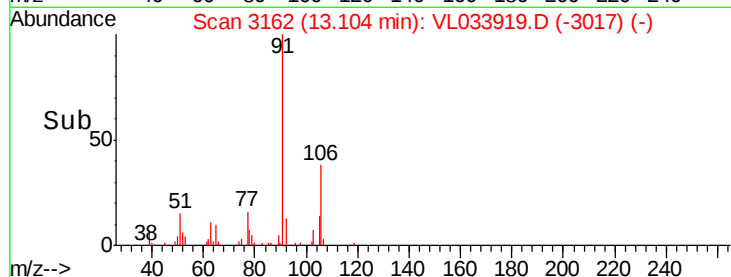
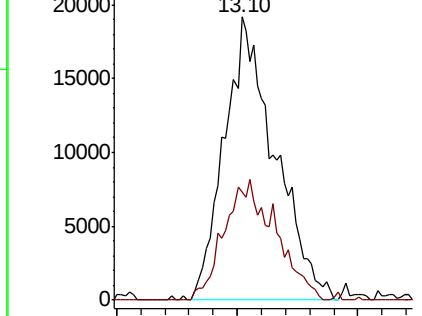
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.749 ppbv

RT: 14.56 min Scan# 3615

Delta R.T. -0.00 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

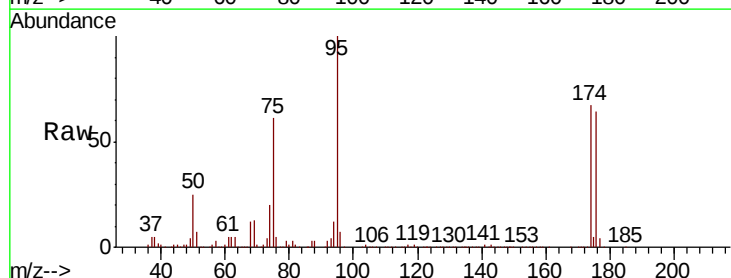
Tgt Ion: 95 Resp: 1674683

Ion Ratio Lower Upper

95 100

174 65.8 54.0 81.0

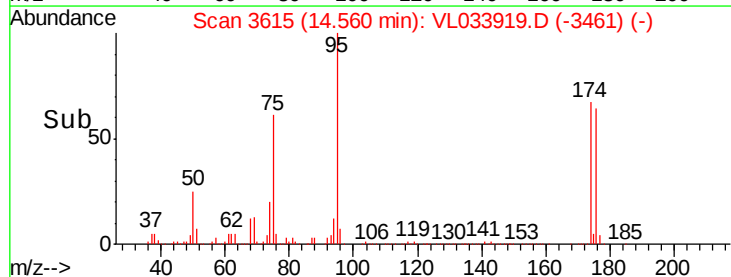
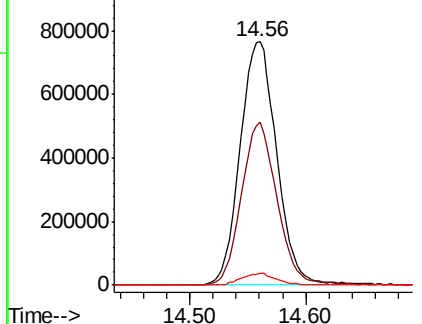
175 4.7 3.8 5.8

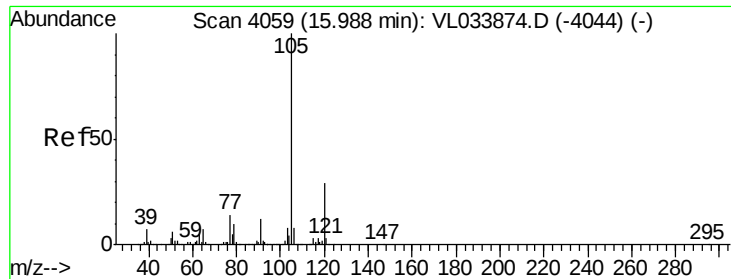


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.113 ppbv m

RT: 15.99 min Scan# 4059

Delta R.T. -0.00 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Instrument :

MSVOA_L

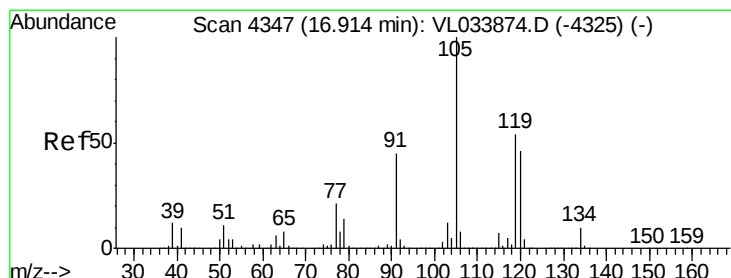
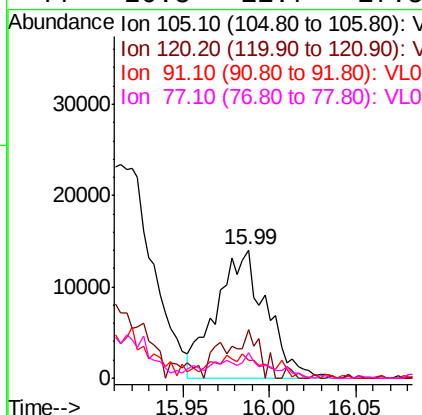
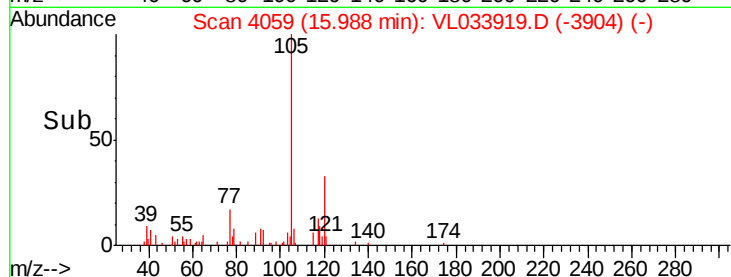
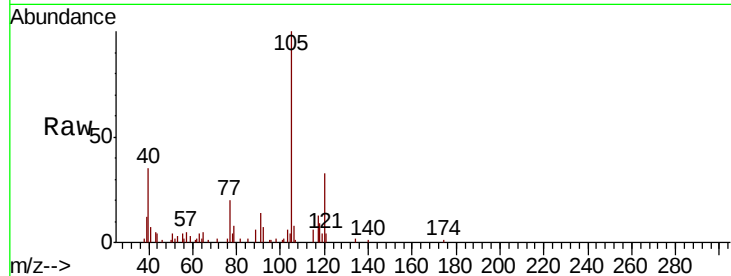
ClientSampleId :

QA1

Tot Ion	Ratio	Lower	Upper
105	100		
120	29.0	23.5	35.3
91	21.9	10.4	15.6
77	20.8	11.7	17.5

Manual Integrations
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6/17/2019 12:37:33 AM



#74

1,2,4-Trimethylbenzene

Concen: 0.229 ppbv

RT: 16.91 min Scan# 4347

Delta R.T. -0.00 min

Lab File: VL033919.D

Acq: 14 Jun 2019 5:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.1	36.7	55.1
91	12.7	35.8	53.8
77	18.1	16.9	25.3

