

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081618\
 Data File : VL032387.D
 Acq On : 16 Aug 2018 21:43
 Operator : SY/AP
 Sample : J4457-05DL 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVIDL

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Quant Time: Aug 22 07:23:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 15 14:58:02 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1865593	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3708619	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3568697	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2772108	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.21	50	30786	0.299	ppbv	94
7) Chloroethane	3.64	64	47889	1.393	ppbv	91
9) Propene	3.07	41	3313577	44.801	ppbv	93
10) Heptane	8.31	43	1360125	6.106	ppbv	98
13) Ethanol	3.69	45	80803	4.254	ppbv	99
15) Acetone	3.95	43	971688	5.482	ppbv	93
17) tert-Butyl alcohol	4.41	59	218837m	7.358	ppbv	
26) Hexane	5.84	57	1919220	11.333	ppbv #	42
27) Carbon Disulfide	4.67	76	160794	1.017	ppbv	95
29) Chloroform	5.90	83	61687	0.249	ppbv	99
30) Cyclohexane	7.31	84	207793	1.611	ppbv #	34
34) 2-Butanone	5.39	43	277535	1.100	ppbv	99
36) Benzene	7.06	78	356960	1.135	ppbv	96
38) Trichloroethene	8.02	130	3142347	28.494	ppbv	98
41) Tetrahydrofuran	6.23	42	53299m	0.393	ppbv	
52) Tetrachloroethene	11.44	164	41455m	0.447	ppbv	
53) Toluene	10.01	91	284751	0.826	ppbv	99

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

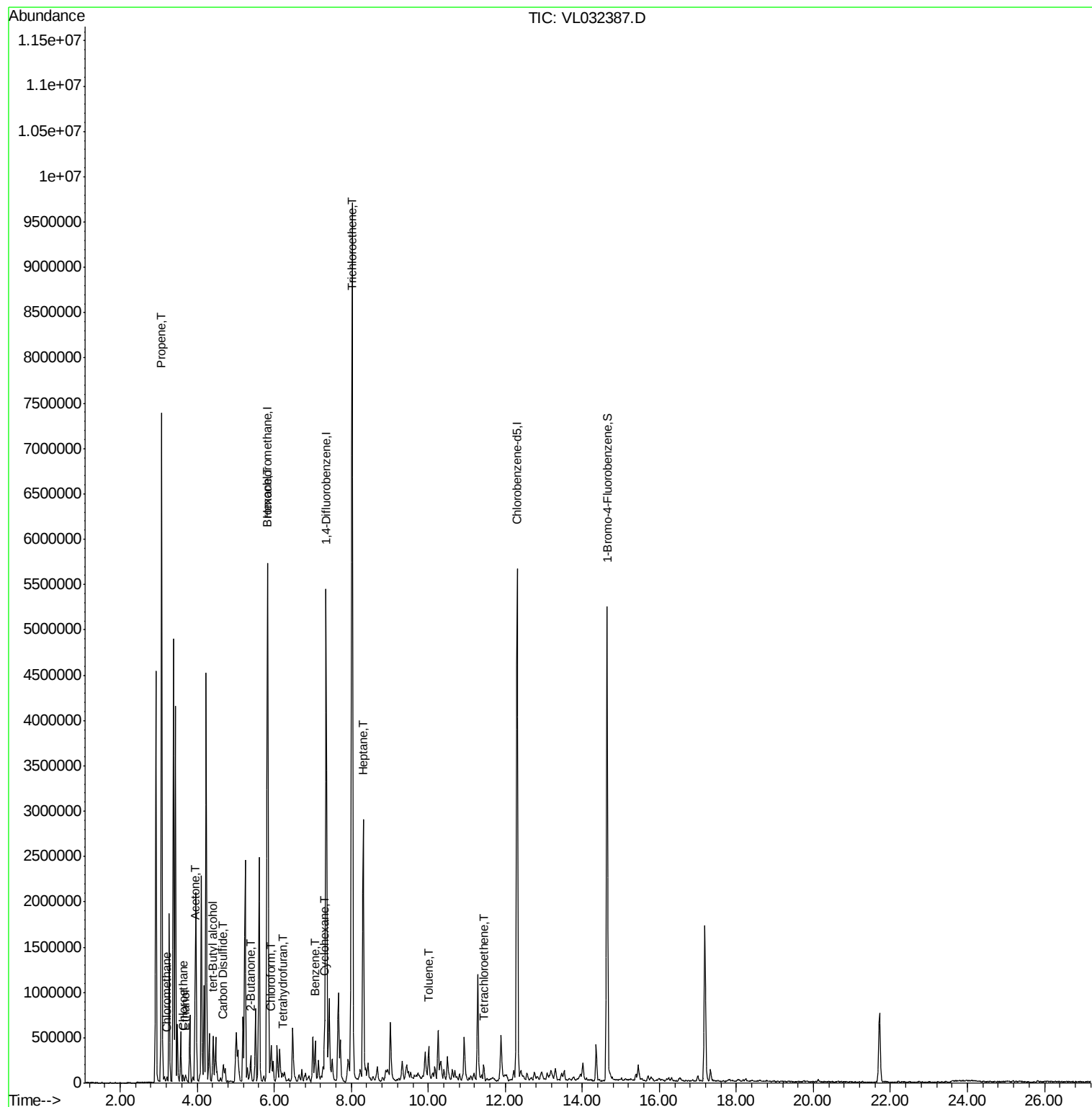
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081618\
Data File : VL032387.D
Acq On : 16 Aug 2018 21:43
Operator : SY/AP
Sample : J4457-05DL 40X
Misc : 400ml/MSVOA_L
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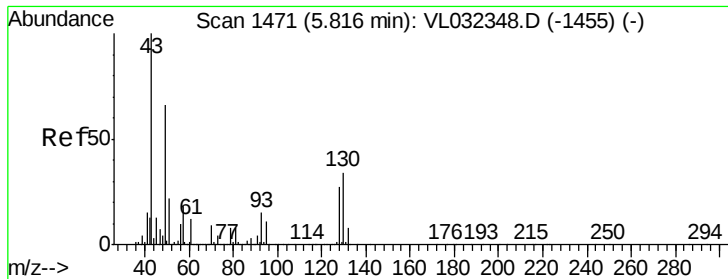
Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVIDL

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Quant Time: Aug 22 07:23:36 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL

Tgt Ion: 49 Resp: 1865593

Ion Ratio Lower Upper

49 100

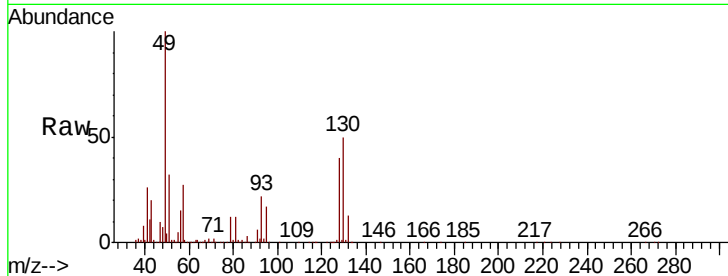
128 40.2 20.5 61.6

130 50.8 26.2 78.5

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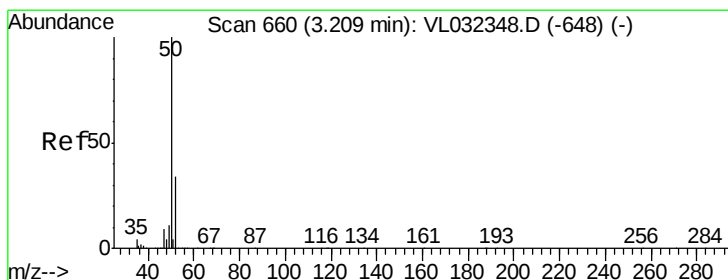
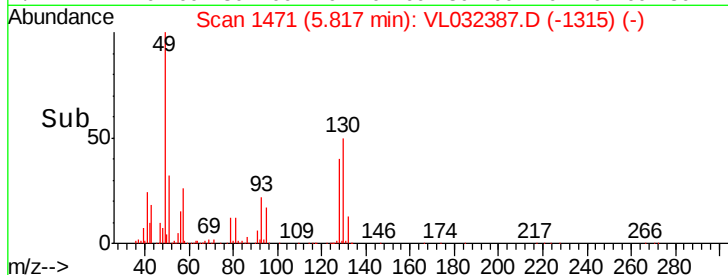
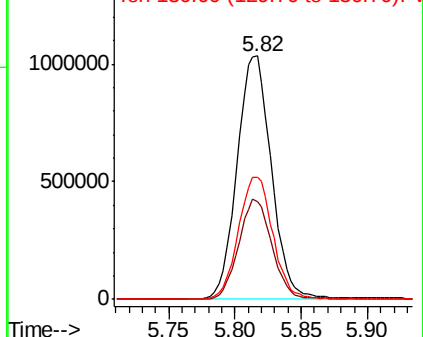
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#4

Chloromethane

Concen: 0.299 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032387.D

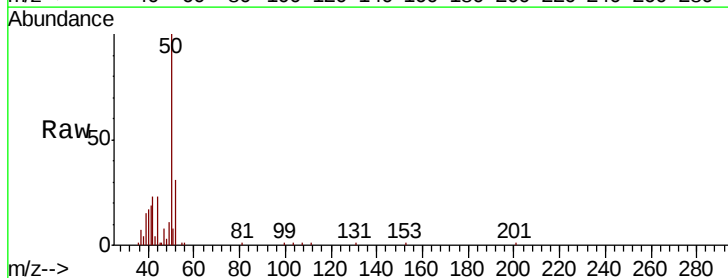
Acq: 16 Aug 2018 21:43

Tgt Ion: 50 Resp: 30786

Ion Ratio Lower Upper

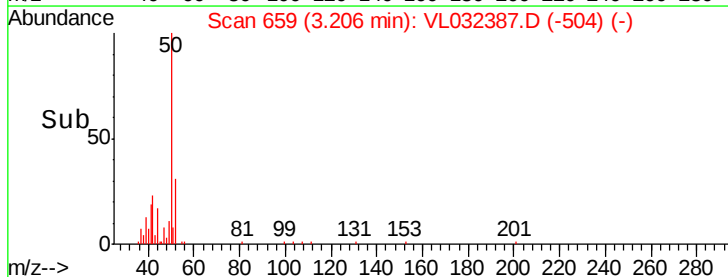
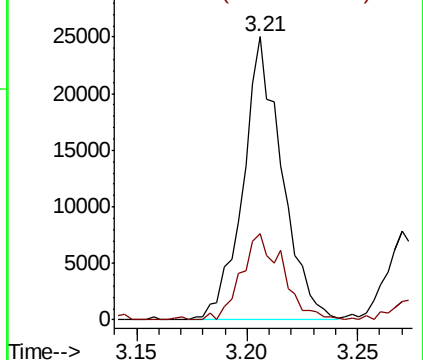
50 100

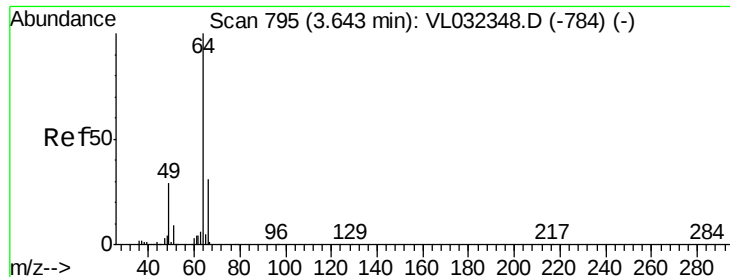
52 29.9 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 1.393 ppbv

RT: 3.64 min Scan# 795

Delta R.T. 0.00 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL

Tgt Ion: 64 Resp: 47889

Ion Ratio Lower Upper

64 100

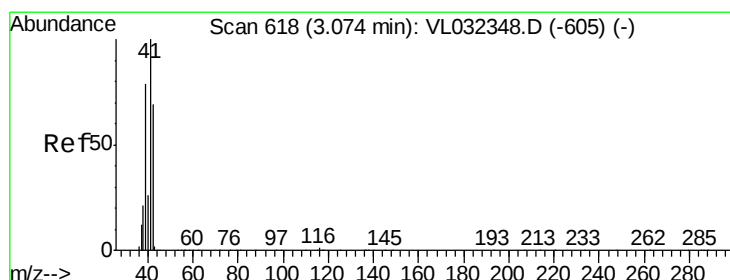
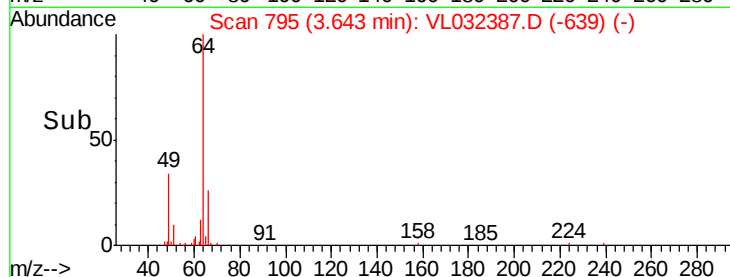
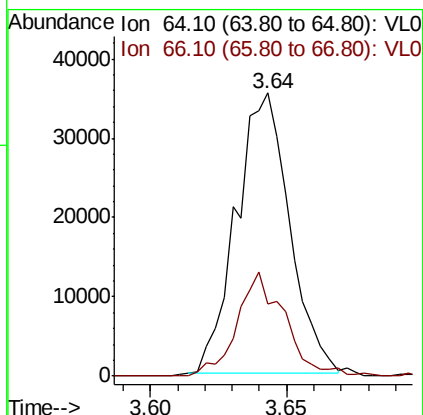
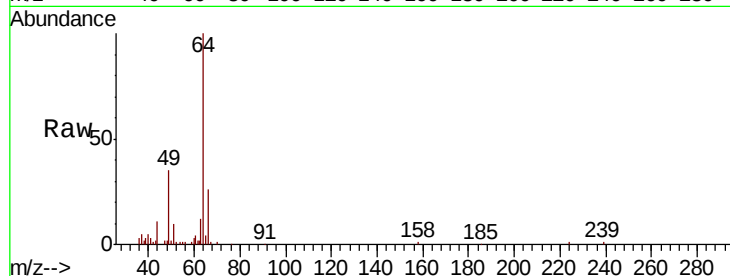
66 25.7 24.6 36.8

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#9

Propene

Concen: 44.801 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032387.D

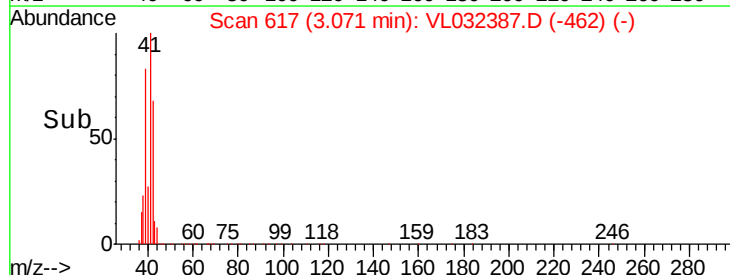
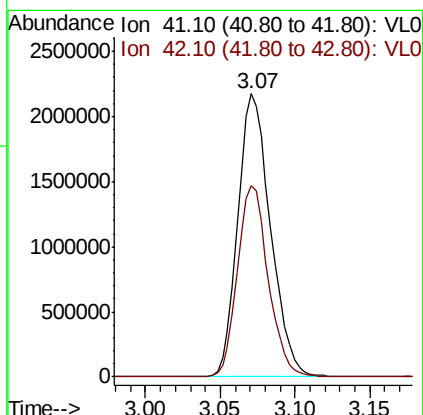
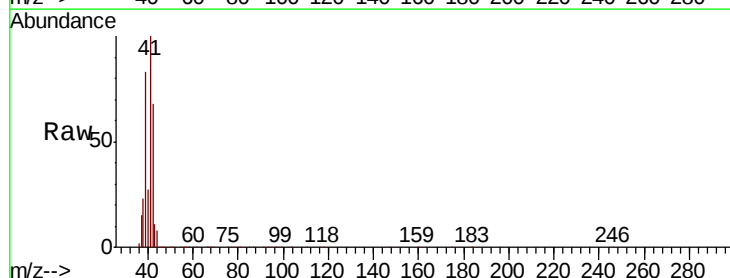
Acq: 16 Aug 2018 21:43

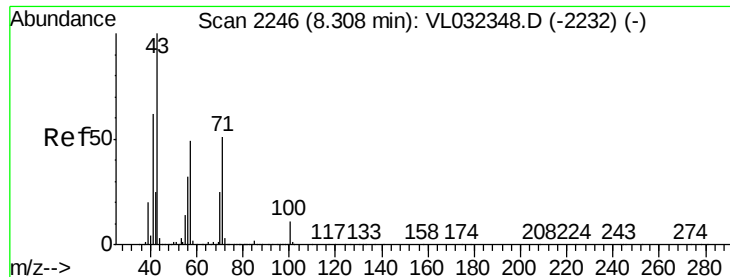
Tgt Ion: 41 Resp: 3313577

Ion Ratio Lower Upper

41 100

42 64.0 55.9 83.9





#10

Heptane

Concen: 6.106 ppbv

RT: 8.31 min Scan# 2247

Delta R.T. 0.00 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL

Tgt Ion: 43 Resp: 1360125

Ion Ratio Lower Upper

43 100

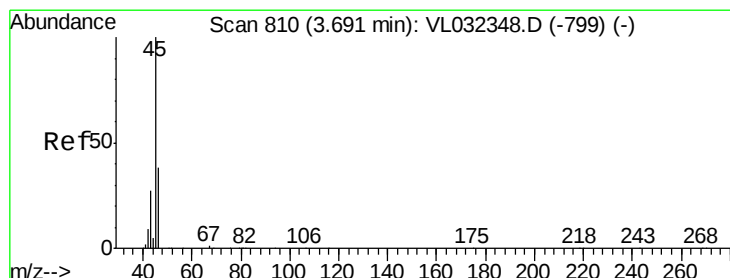
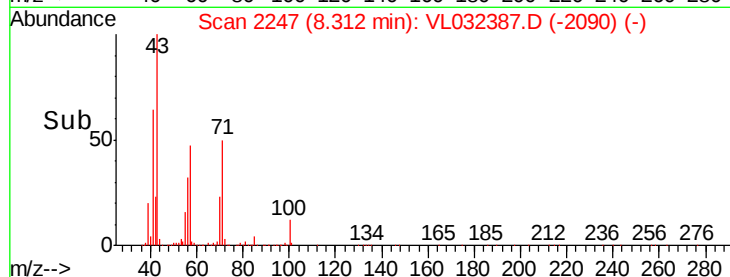
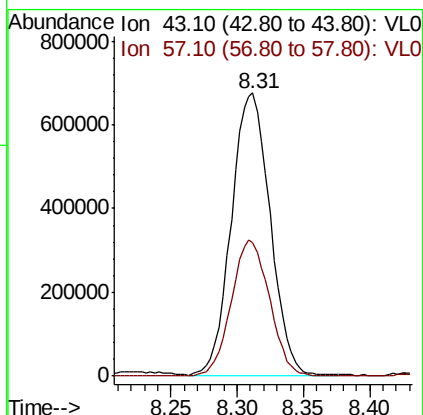
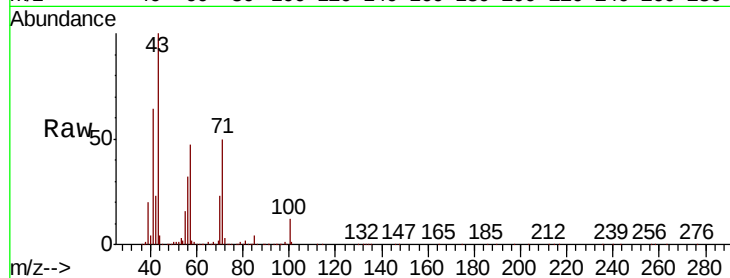
57 48.0 39.5 59.3

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#13

Ethanol

Concen: 4.254 ppbv

RT: 3.69 min Scan# 811

Delta R.T. 0.00 min

Lab File: VL032387.D

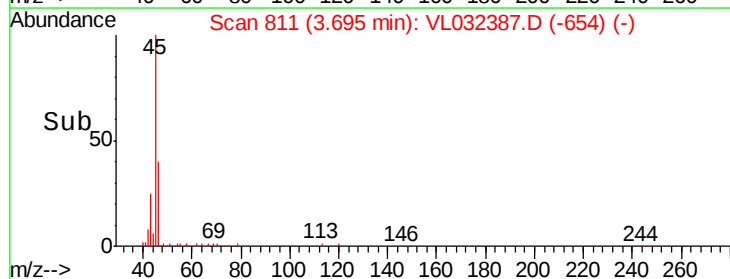
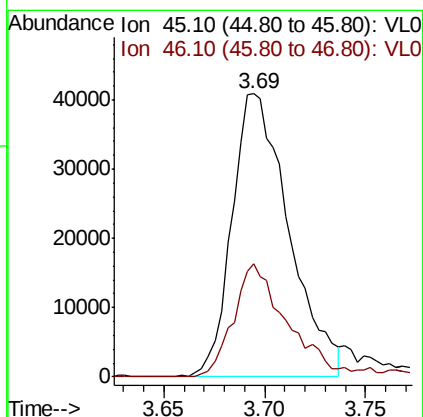
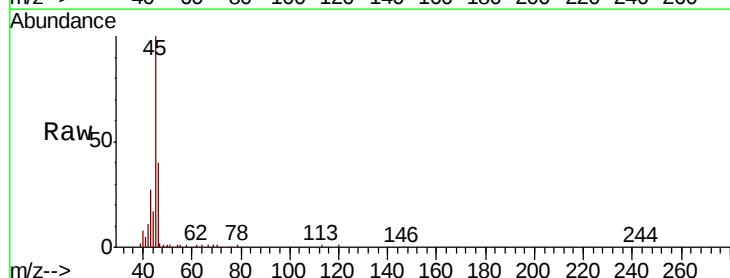
Acq: 16 Aug 2018 21:43

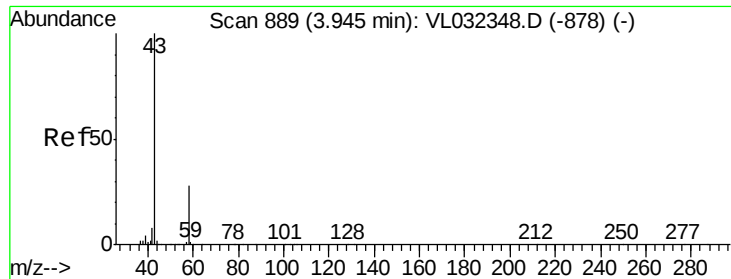
Tgt Ion: 45 Resp: 80803

Ion Ratio Lower Upper

45 100

46 38.4 15.6 62.4





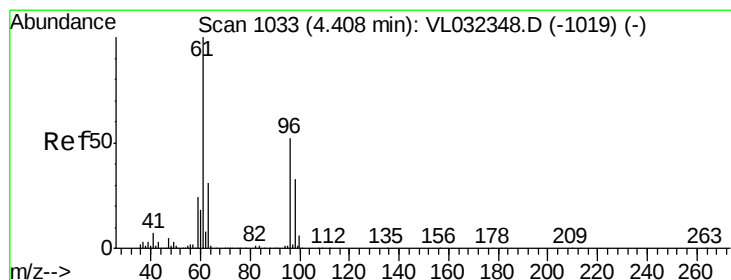
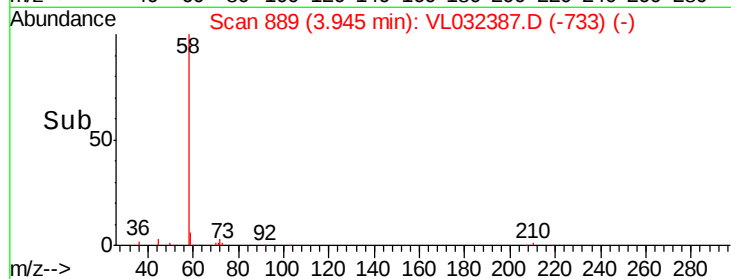
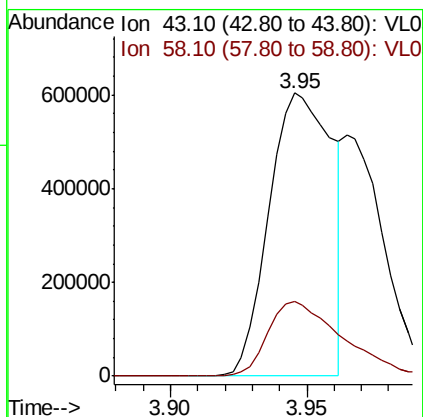
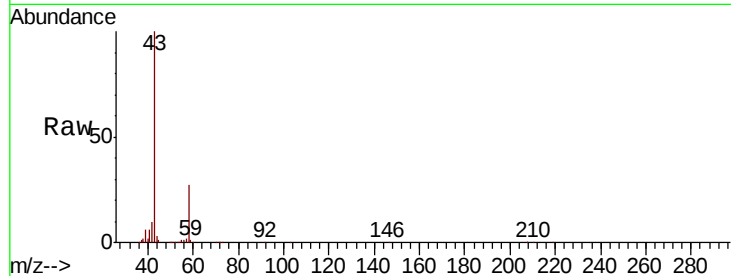
#15
Acetone
Concen: 5.482 ppbv
RT: 3.95 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032387.D
Acq: 16 Aug 2018 21:43

Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVIDL

Tgt Ion: 43 Resp: 971688
Ion Ratio Lower Upper
43 100
58 31.7 22.4 33.6

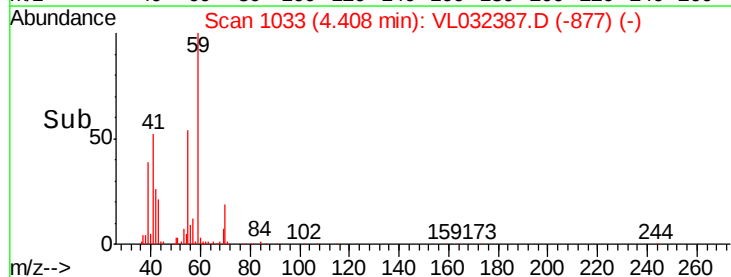
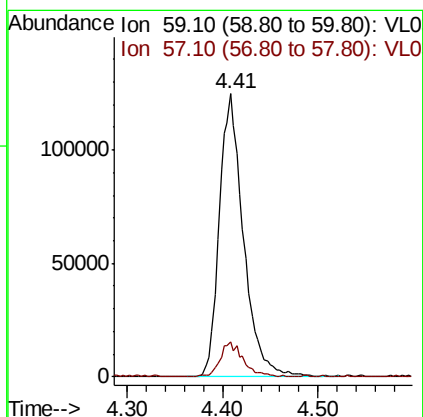
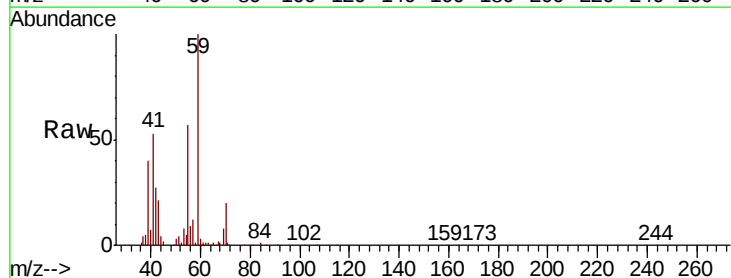
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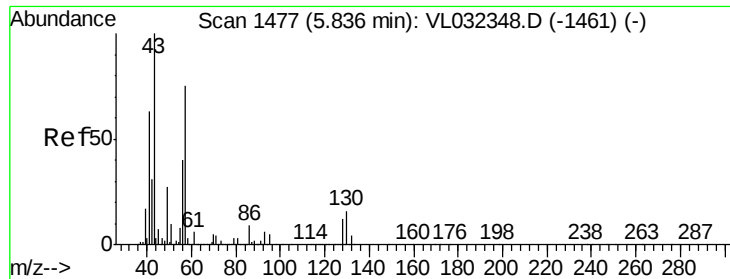
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#17
tert-Butyl alcohol
Concen: 7.358 ppbv m
RT: 4.41 min Scan# 1033
Delta R.T. 0.00 min
Lab File: VL032387.D
Acq: 16 Aug 2018 21:43

Tgt Ion: 59 Resp: 218837
Ion Ratio Lower Upper
59 100
57 0.0 7.6 11.4#





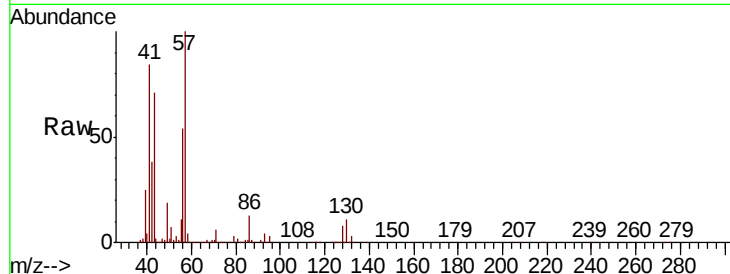
#26
Hexane
Concen: 11.333 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VL032387.D
Acq: 16 Aug 2018 21:43

Instrument :
MSVOA_L
ClientSampleId :
SS09-MIVIDL

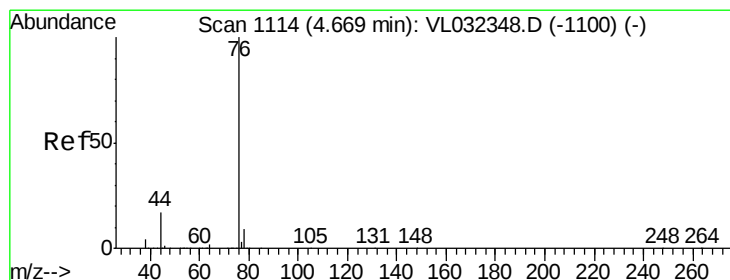
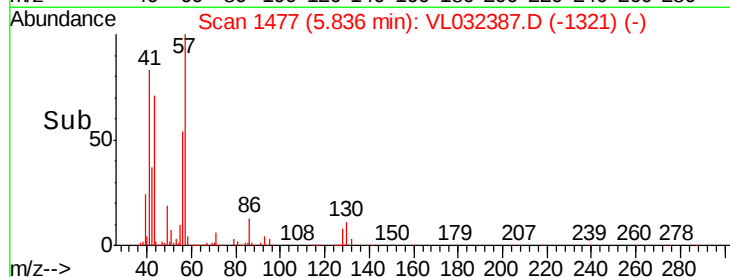
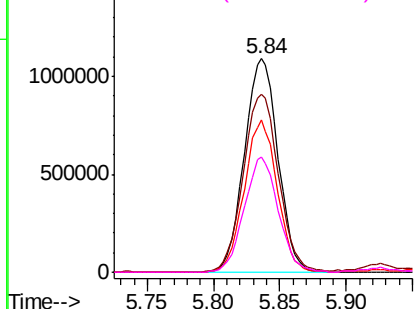
Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.6	68.0	102.0
43	70.1	175.3	262.9#
56	54.9	42.0	63.0

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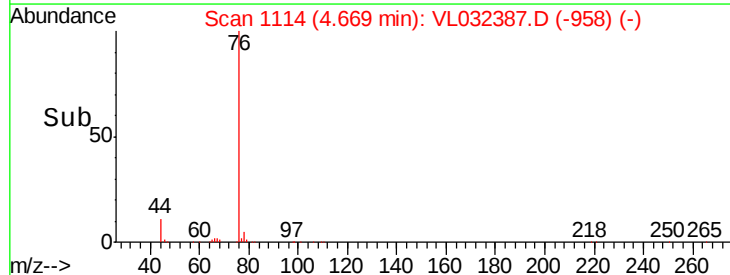
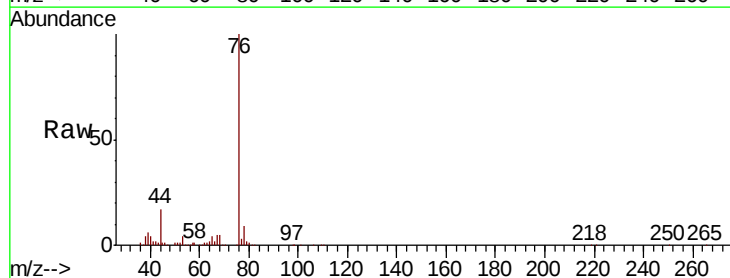
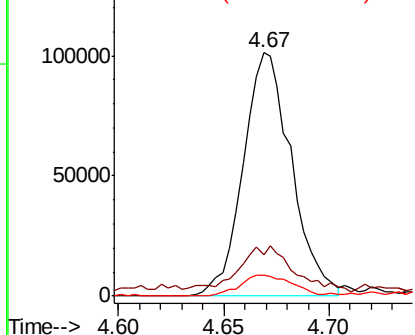
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

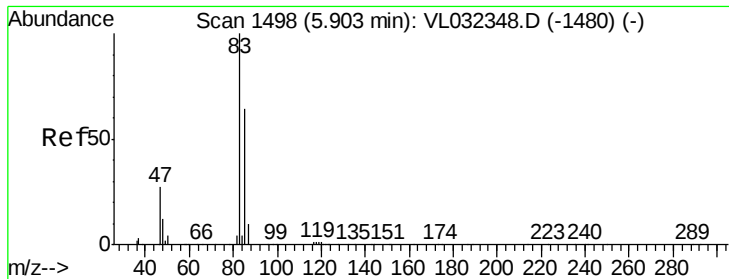


#27
Carbon Disulfide
Concen: 1.017 ppbv
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VL032387.D
Acq: 16 Aug 2018 21:43

Tgt Ion	Ratio	Lower	Upper
76	100		
44	21.0	14.4	21.6
78	9.7	7.4	11.0

Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.249 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. 0.00 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL

Tgt Ion: 83 Resp: 61687

Ion Ratio Lower Upper

83 100

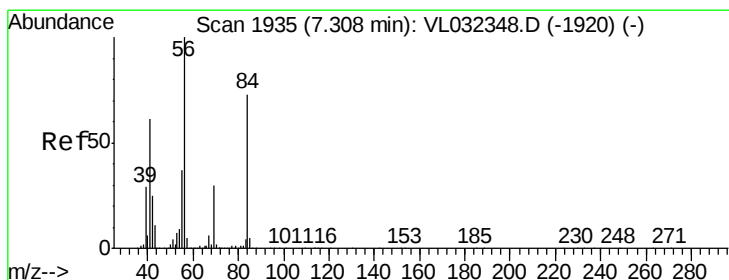
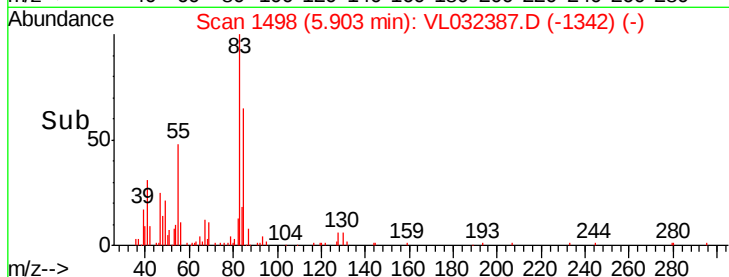
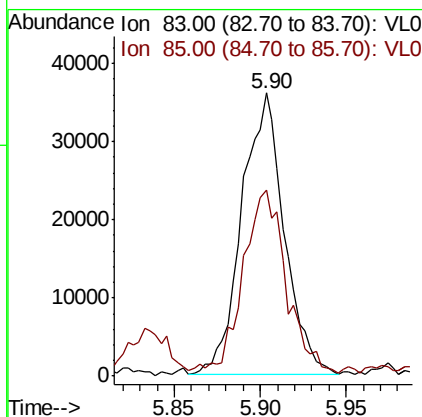
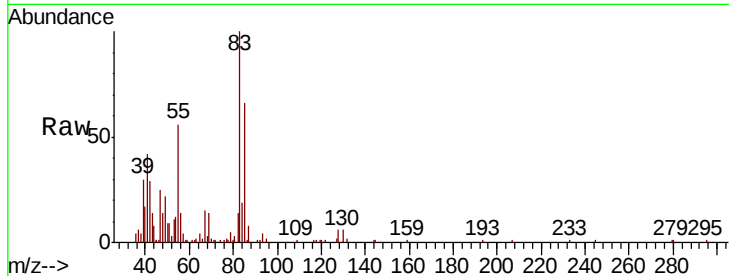
85 64.9 51.6 77.4

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#30

Cyclohexane

Concen: 1.611 ppbv

RT: 7.31 min Scan# 1935

Delta R.T. 0.00 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

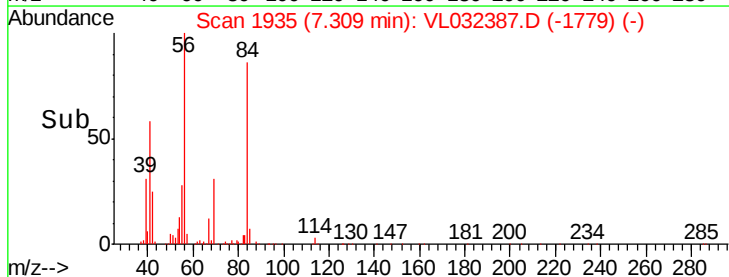
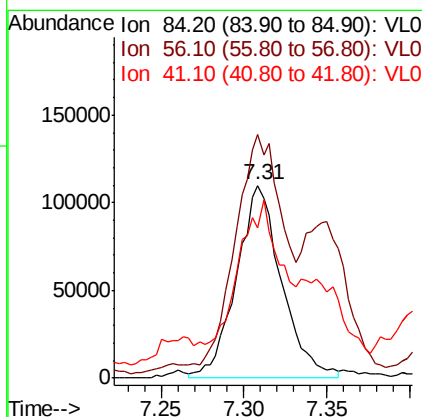
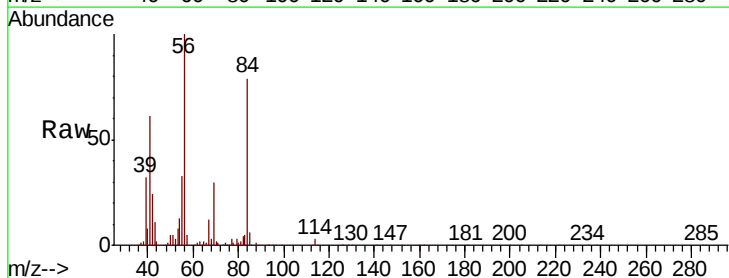
Tgt Ion: 84 Resp: 207793

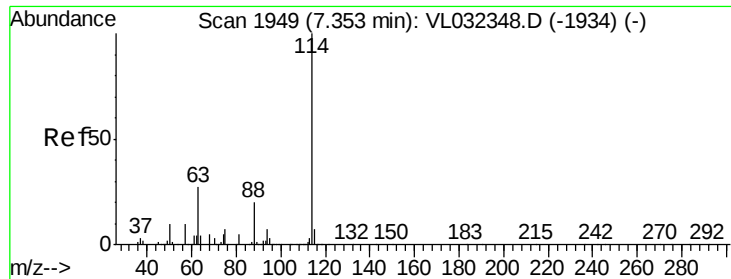
Ion Ratio Lower Upper

84 100

56 214.2 115.7 173.5#

41 160.7 67.9 101.9#





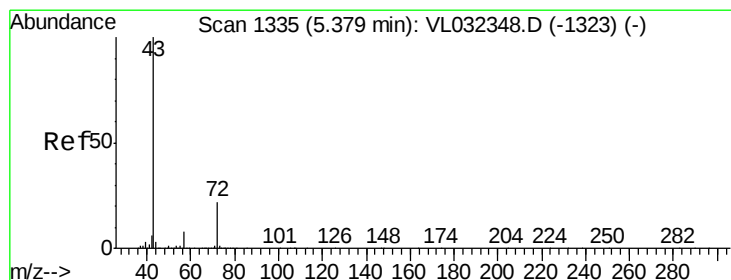
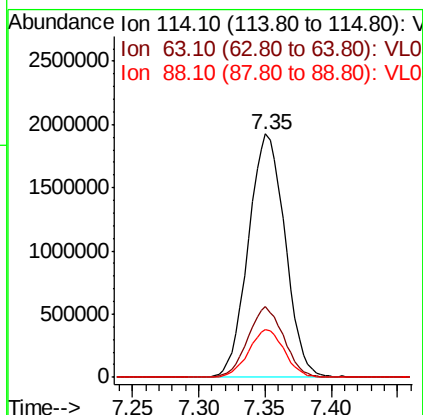
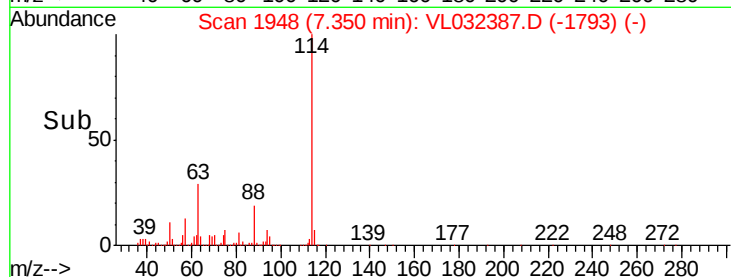
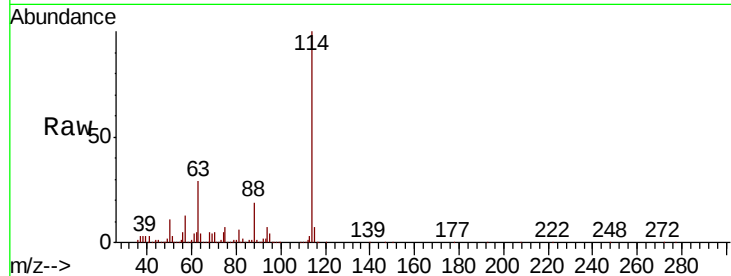
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1948
 Delta R.T. -0.00 min
 Lab File: VL032387.D
 Acq: 16 Aug 2018 21:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SS09-MIVIDL

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.0	33.0
88	19.2	15.3	22.9

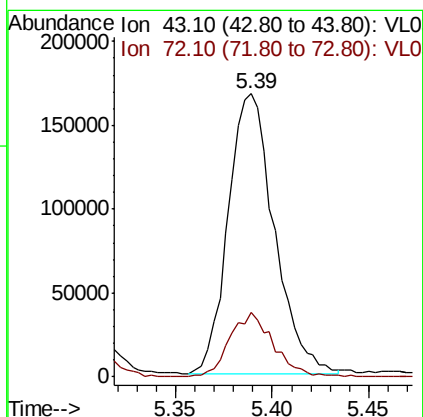
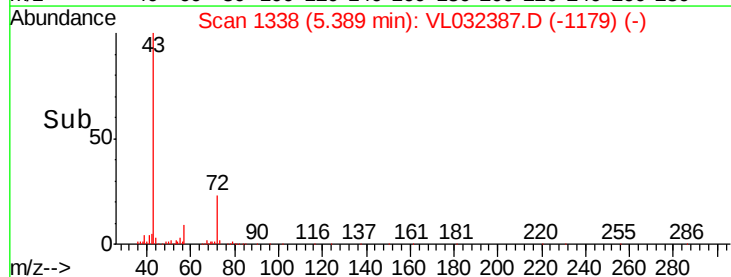
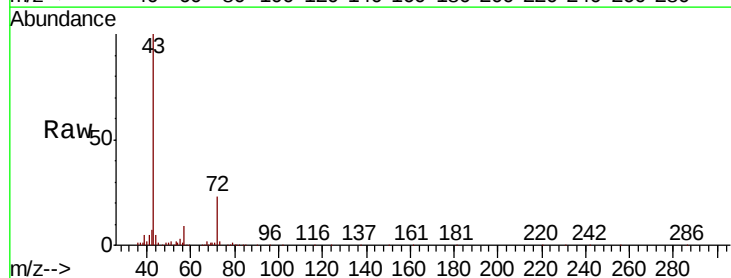
Manual Integrations
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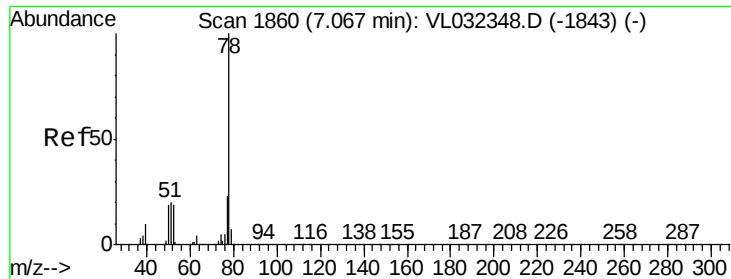
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#34
 2-Butanone
 Concen: 1.100 ppbv
 RT: 5.39 min Scan# 1338
 Delta R.T. 0.01 min
 Lab File: VL032387.D
 Acq: 16 Aug 2018 21:43

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.9	26.9





#36

Benzene

Concen: 1.135 ppbv

RT: 7.06 min Scan# 1858

Delta R.T. -0.01 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Instrument :

MSVOA_L

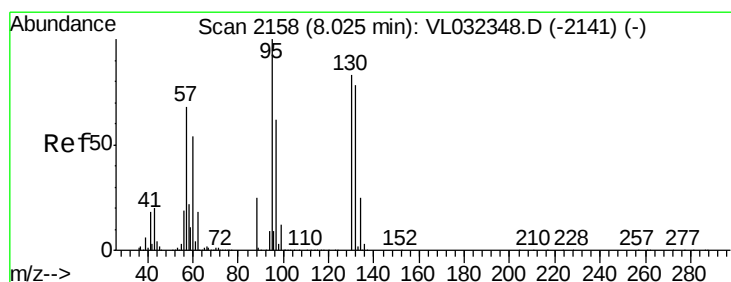
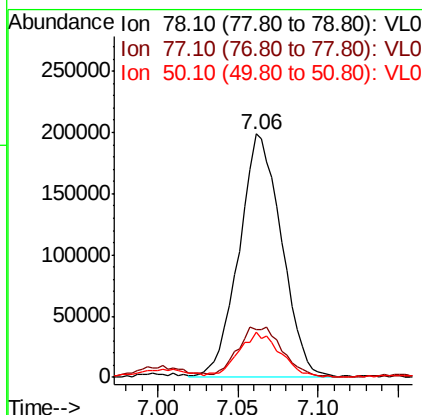
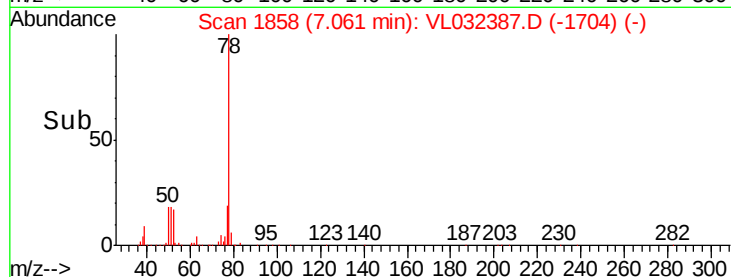
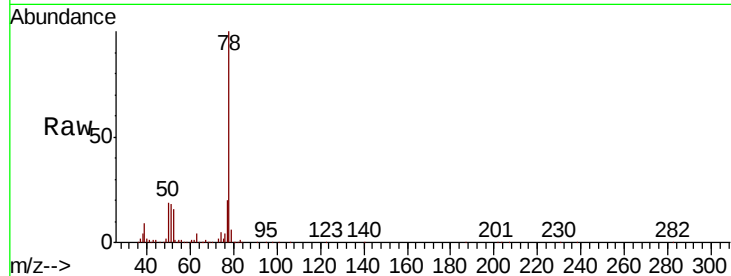
ClientSampleId :

SS09-MIVIDL

Tgt Ion:	78	Resp:	356960
Ion	Ratio	Lower	Upper
78	100		
77	19.5	18.0	27.0
50	18.3	15.1	22.7

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#38

Trichloroethene

Concen: 28.494 ppbv

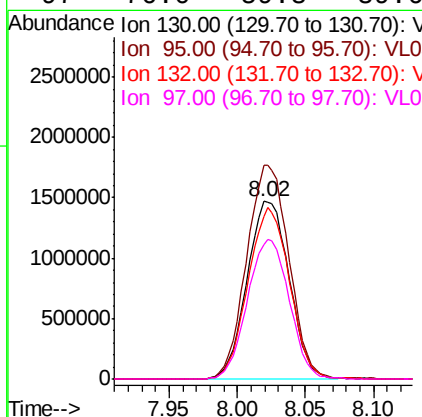
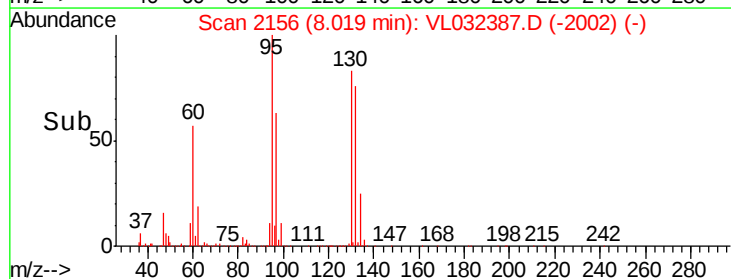
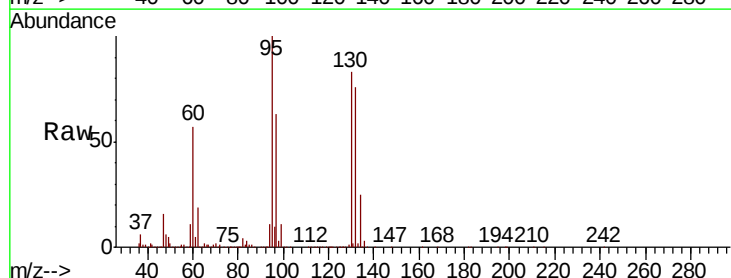
RT: 8.02 min Scan# 2156

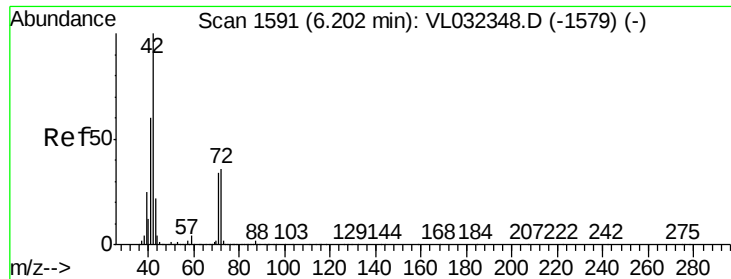
Delta R.T. -0.01 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Tgt Ion:	130	Resp:	3142347
Ion	Ratio	Lower	Upper
130	100		
95	120.2	96.6	144.8
132	91.6	75.5	113.3
97	76.0	59.8	89.6





#41

Tetrahydrofuran

Concen: 0.393 ppbv m

RT: 6.23 min Scan# 1599

Delta R.T. 0.03 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Instrument :

MSVOA_L

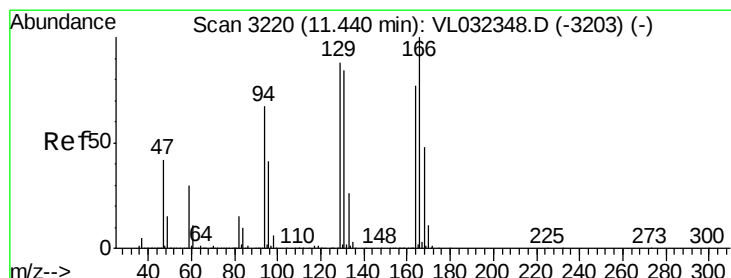
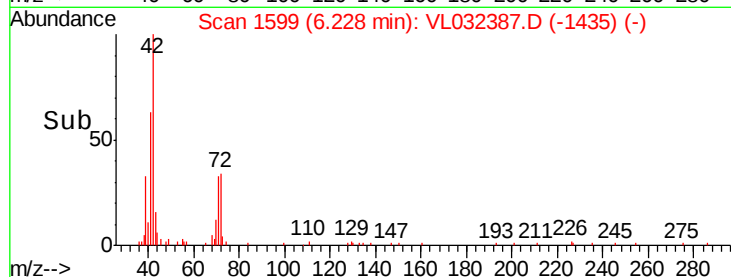
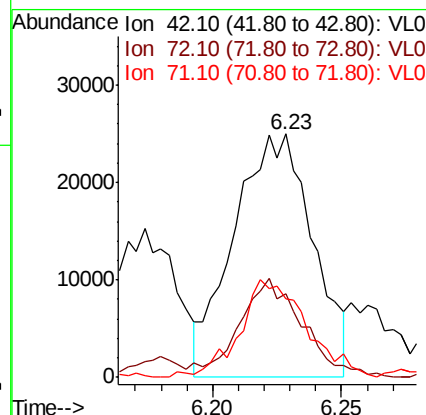
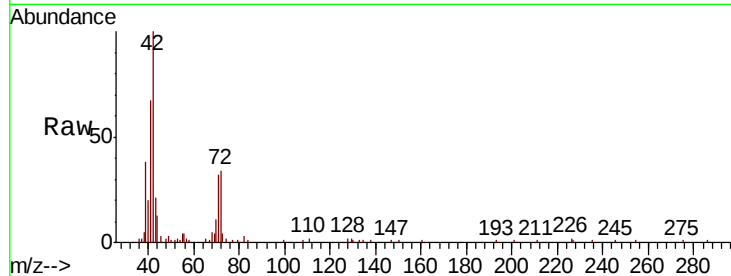
ClientSampleId :

SS09-MIVIDL

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	29.8	44.6#
71	0.0	28.2	42.2#

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#52

Tetrachloroethene

Concen: 0.447 ppbv m

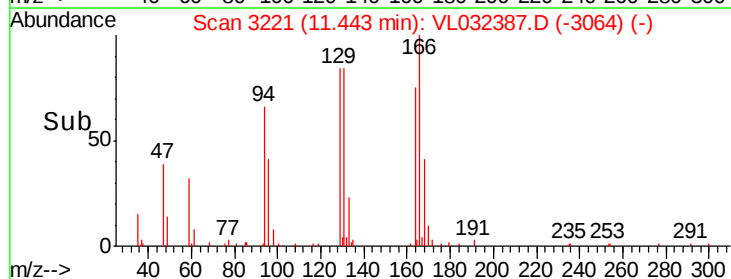
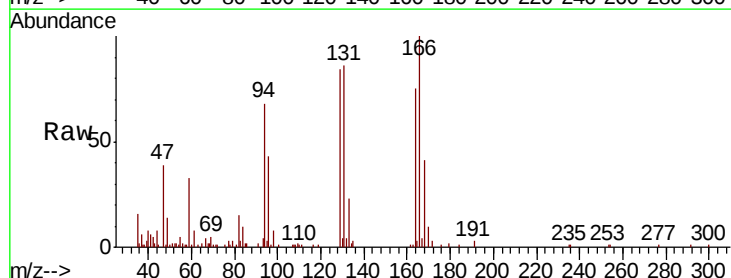
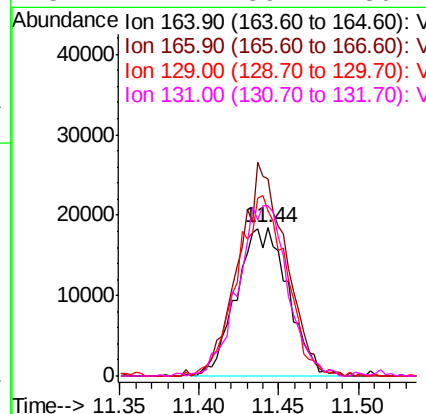
RT: 11.44 min Scan# 3221

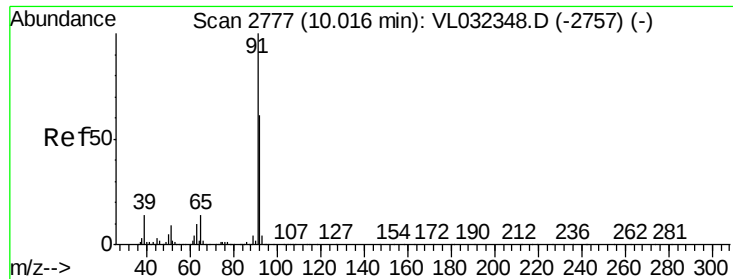
Delta R.T. 0.00 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.6	103.5	155.3
129	111.6	90.9	136.3
131	114.4	86.7	130.1





#53

Toluene

Concen: 0.826 ppbv

RT: 10.01 min Scan# 2775

Delta R.T. -0.01 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL

Tgt Ion: 91 Resp: 284751

Ion Ratio Lower Upper

91 100

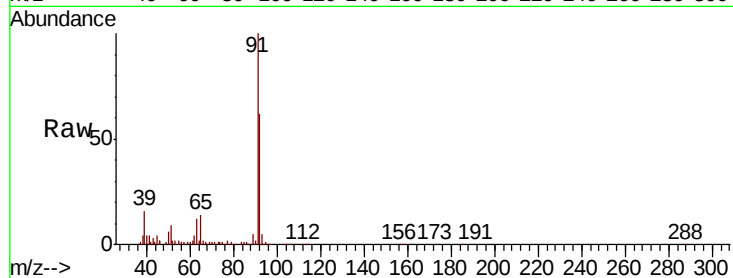
92 61.5 48.7 73.1

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

10.01

150000

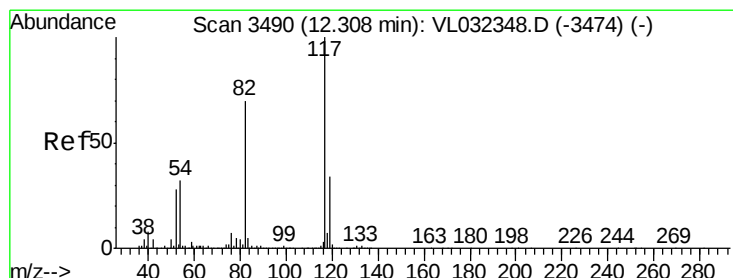
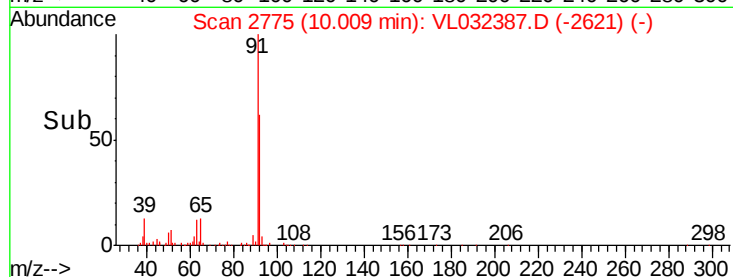
100000

50000

0

9.95 10.00 10.05

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.31 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

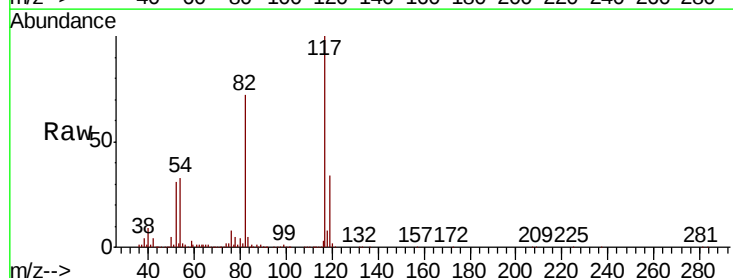
Tgt Ion: 117 Resp: 3568697

Ion Ratio Lower Upper

117 100

82 68.8 55.1 82.7

119 32.7 46.0 69.0#



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

2000000

1500000

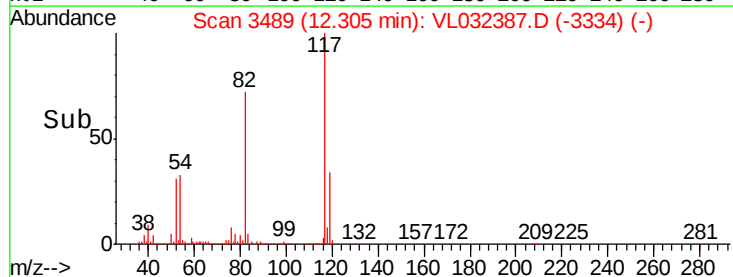
1000000

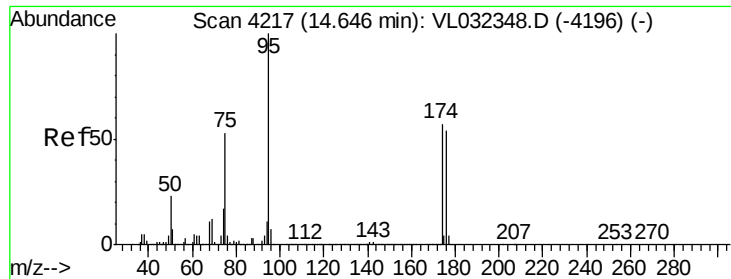
500000

0

12.20 12.30 12.40

Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 10.182 ppbv

RT: 14.64 min Scan# 4216

Delta R.T. -0.00 min

Lab File: VL032387.D

Acq: 16 Aug 2018 21:43

Instrument :

MSVOA_L

ClientSampleId :

SS09-MIVIDL

Tgt Ion: 95 Resp: 2772108

Ion Ratio Lower Upper

95 100

174 57.1 46.2 69.4

175 4.2 3.4 5.0

Manual Integrations

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