

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
 Data File : VL032449.D
 Acq On : 31 Aug 2018 20:29
 Operator : SY/AP
 Sample : J4717-04
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03

Manual Integrations
 APPROVED

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 9/4/2018 8:28:35 AM

Quant Time: Sep 02 22:46:31 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 2018

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1500611	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3188341	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3102050	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2376436	10.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.10	85	29447	0.153	ppbv	95
3) Chlorodifluoromethane	3.04	51	33500	0.247	ppbv	96
4) Chloromethane	3.20	50	41497	0.505	ppbv	100
5) Vinyl Chloride	3.32	62	3462	0.043	ppbv	96
9) Propene	3.06	41	6096686	111.265	ppbv	97
10) Heptane	8.30	43	707848	3.601	ppbv	100
11) Trichlorofluoromethane	4.04	101	96376	0.557	ppbv	99
13) Ethanol	3.69	45	943170	55.220	ppbv	99
15) Acetone	3.94	43	19208233	142.143	ppbv #	70
16) 1,3-Butadiene	3.37	39	2638126m	41.487	ppbv	
17) tert-Butyl alcohol	4.40	59	1449970	69.724	ppbv #	100
20) Methylene Chloride	4.46	84	569339	11.049	ppbv	96
26) Hexane	5.83	57	1616404	11.312	ppbv #	41
27) Carbon Disulfide	4.66	76	563355	4.271	ppbv	99
29) Chloroform	5.90	83	116761	0.536	ppbv	89
30) Cyclohexane	7.30	84	106546	1.018	ppbv	87
34) 2-Butanone	5.37	43	4732180	22.345	ppbv	100
36) Benzene	7.06	78	1014201	3.738	ppbv	98
41) Tetrahydrofuran	6.20	42	122405	1.062	ppbv	91
44) 2,2,4-Trimethylpentane	8.04	57	899704	1.715	ppbv #	77
50) 4-Methyl-2-Pentanone	8.92	43	663742	2.081	ppbv	99
51) 2-Hexanone	10.32	43	1647181	8.016	ppbv #	97
52) Tetrachloroethene	11.43	164	208875	2.483	ppbv	95
53) Toluene	10.00	91	4814273	16.975	ppbv	99
58) Ethyl Benzene	12.92	91	1708084	4.601	ppbv	99
59) m/p-Xylene	13.18	91	4824313	14.577	ppbv	97
60) o-Xylene	13.91	91	1524871	4.691	ppbv	97
62) Isopropylbenzene	14.88	105	137130	0.300	ppbv	93
64) n-propylbenzene	15.77	120	177638	1.487	ppbv	88
72) 4-Ethyltoluene	16.06	105	999655	2.816	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	546936	1.538	ppbv	92
74) 1,2,4-Trimethylbenzene	17.00	105	1808730	4.653	ppbv #	68
79) Naphthalene	22.49	128	151992	0.481	ppbv	99

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

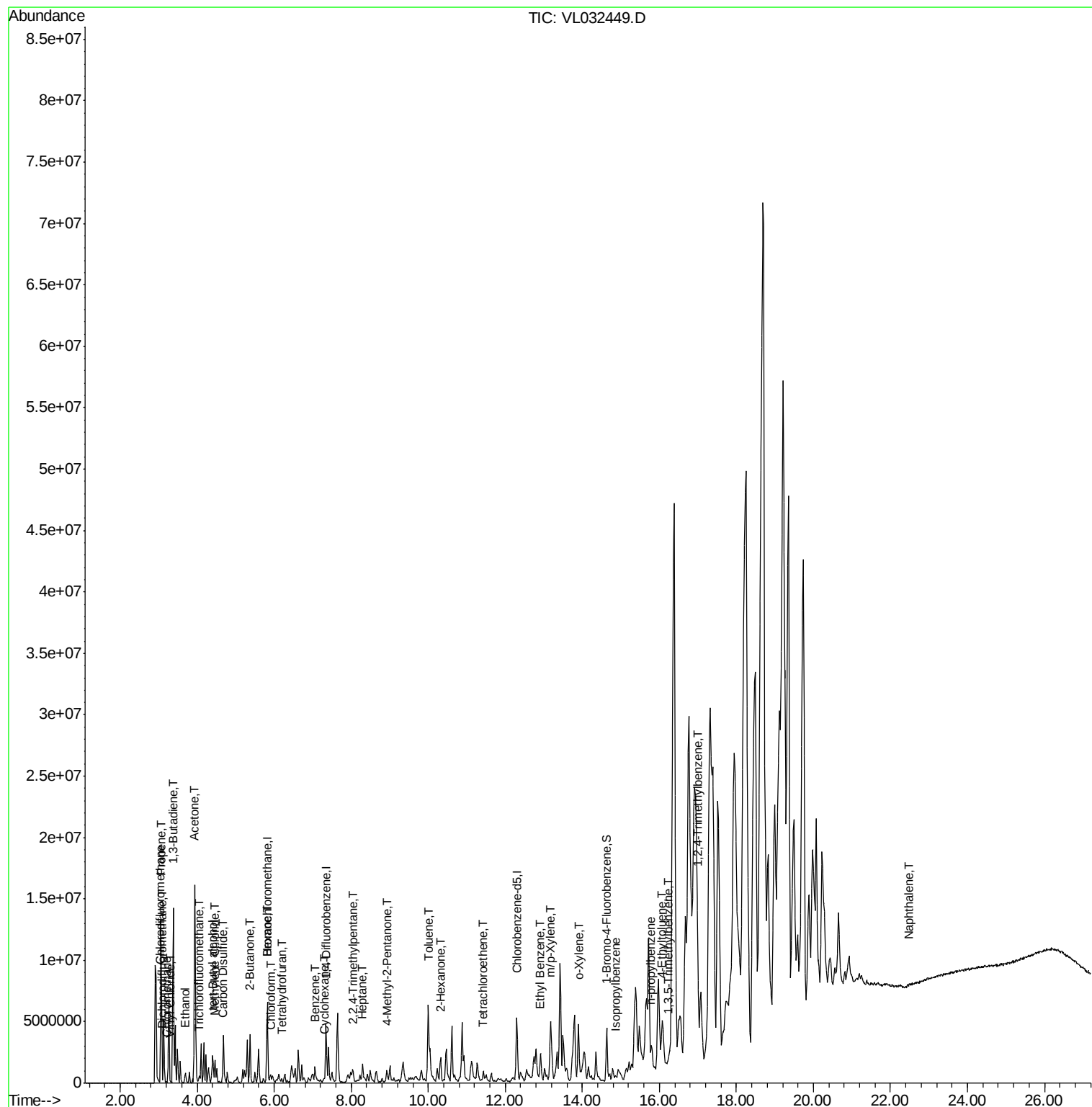
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL083118\
Data File : VL032449.D
Acq On : 31 Aug 2018 20:29
Operator : SY/AP
Sample : J4717-04
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

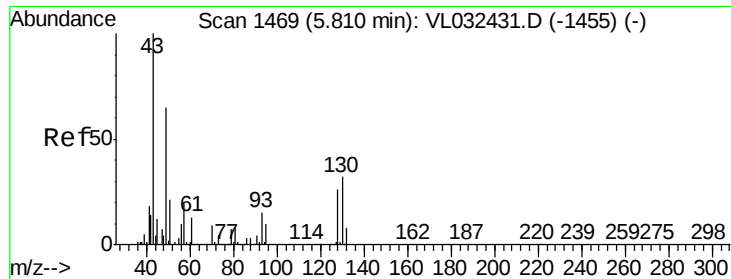
Instrument :
MSVOA_L
ClientSampleId :
VP-03

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Quant Time: Sep 02 22:46:31 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Instrument :

MSVOA_L

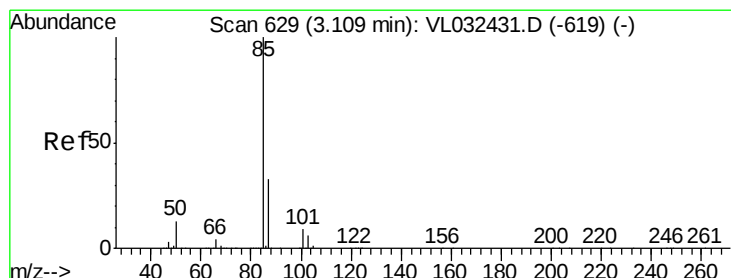
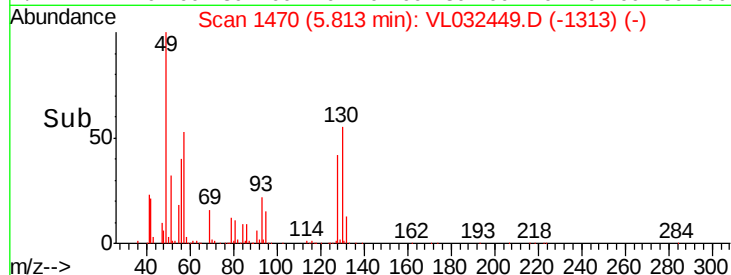
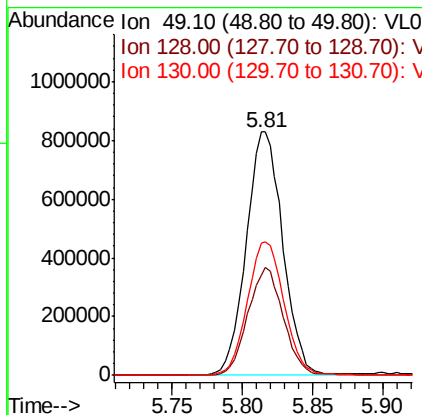
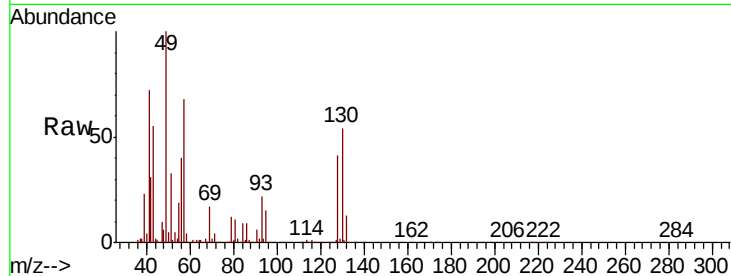
ClientSampled :

VP-03

Tgt Ion:	49	Resp:	1500611
Ion	Ratio	Lower	Upper
49	100		
128	43.6	20.7	62.1
130	55.3	26.6	79.7

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#2

Dichlorodifluoromethane

Concen: 0.153 ppbv

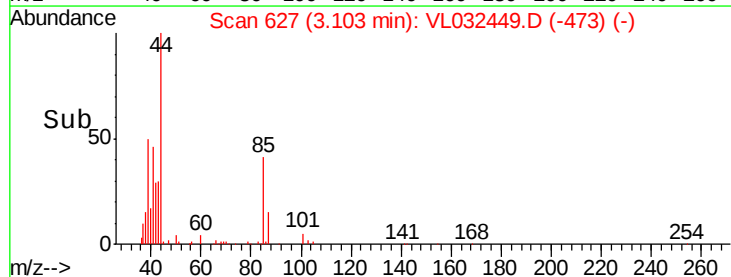
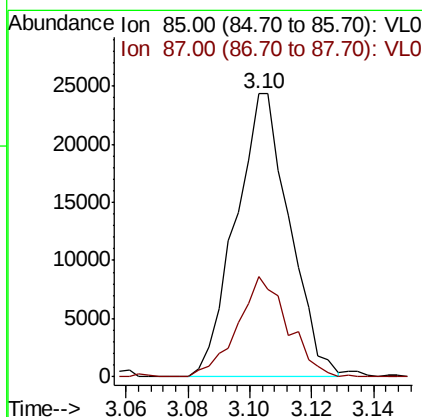
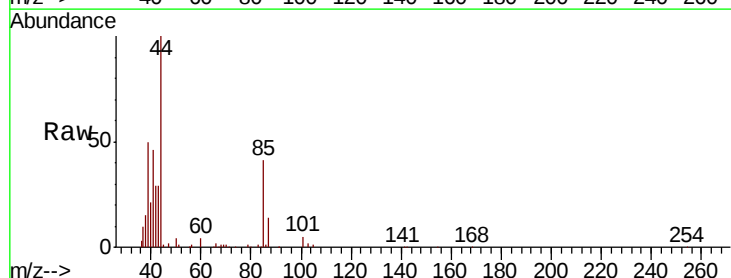
RT: 3.10 min Scan# 627

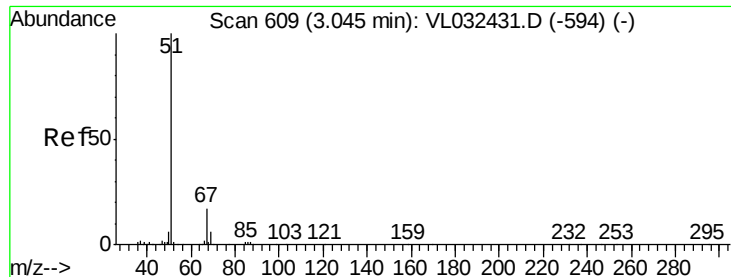
Delta R.T. -0.01 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Tgt Ion:	85	Resp:	29447
Ion	Ratio	Lower	Upper
85	100		
87	35.6	26.2	39.4





#3

Chlorodifluoromethane

Concen: 0.247 ppbv

RT: 3.04 min Scan# 608

Delta R.T. -0.00 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Instrument :

MSVOA_L

ClientSampleId :

VP-03

Tgt Ion: 51 Resp: 33500

Ion Ratio Lower Upper

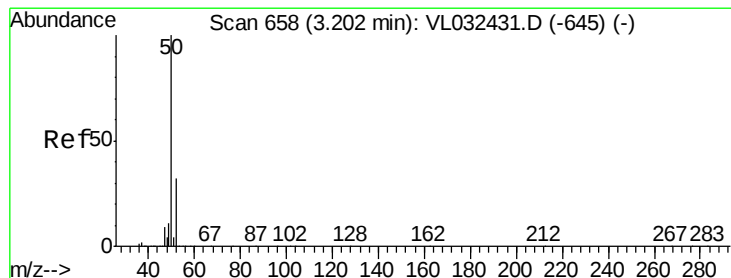
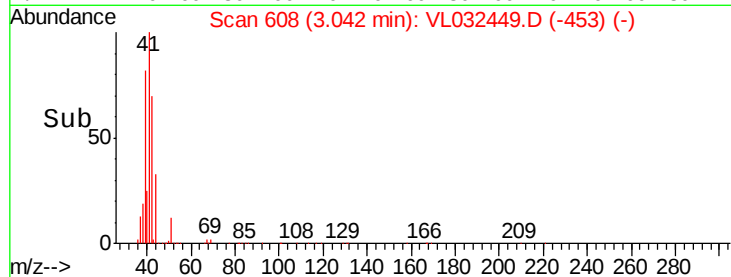
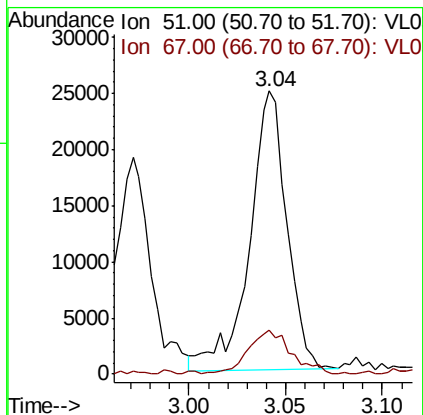
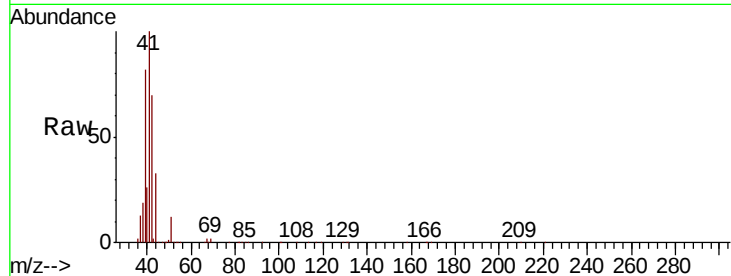
51 100

67 18.8 13.8 20.8

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#4

Chloromethane

Concen: 0.505 ppbv

RT: 3.20 min Scan# 657

Delta R.T. -0.00 min

Lab File: VL032449.D

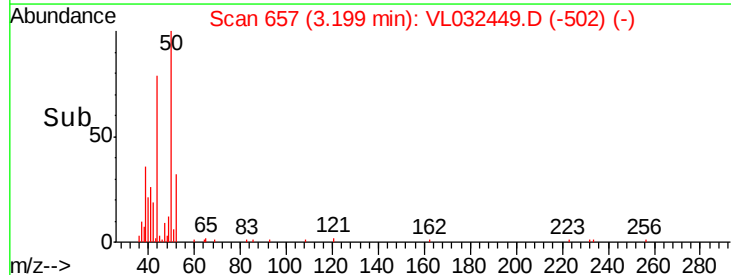
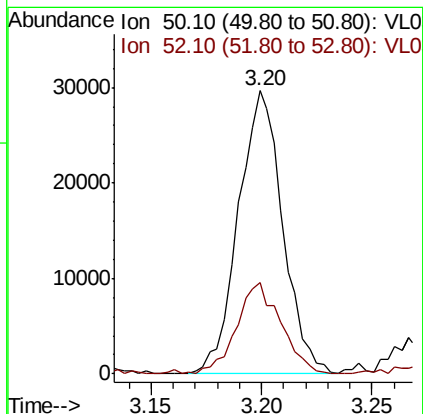
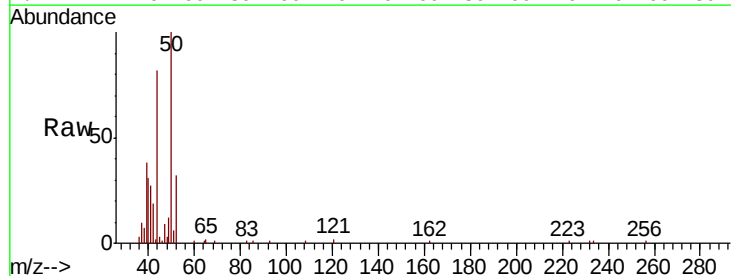
Acq: 31 Aug 2018 20:29

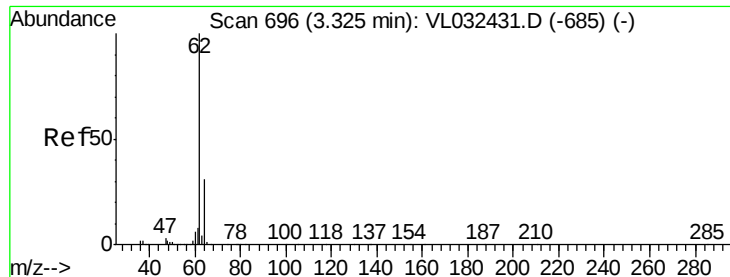
Tgt Ion: 50 Resp: 41497

Ion Ratio Lower Upper

50 100

52 32.1 25.6 38.4





#5

Vinyl Chloride

Concen: 0.043 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Instrument :

MSVOA_L

ClientSampled :

VP-03

Tgt Ion: 62 Resp: 3462

Ion Ratio Lower Upper

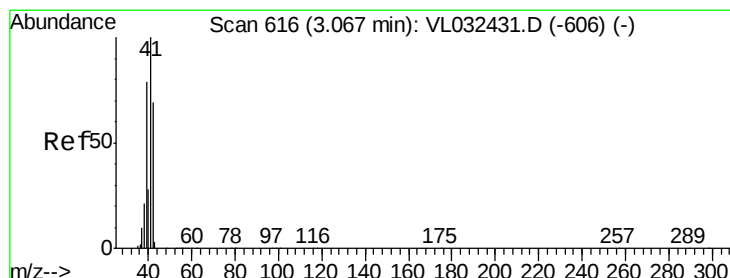
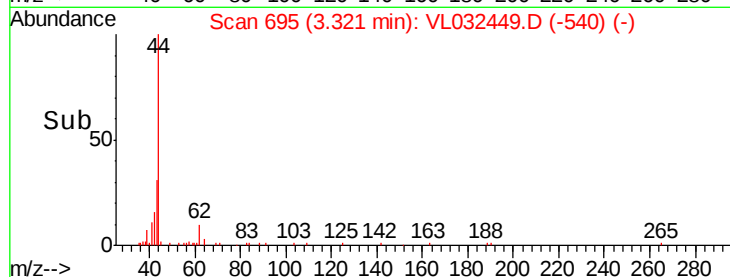
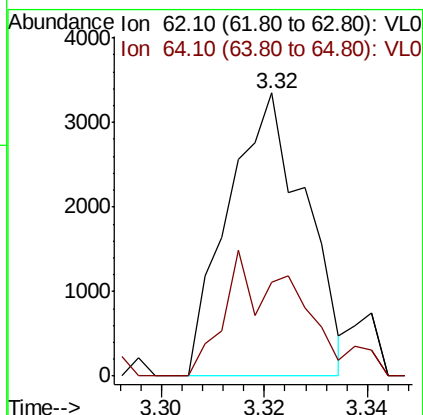
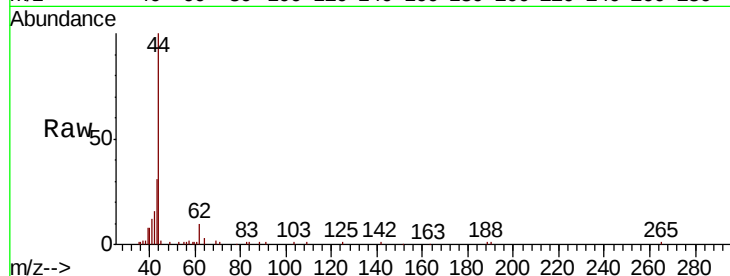
62 100

64 33.4 25.0 37.6

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#9

Propene

Concen: 111.265 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032449.D

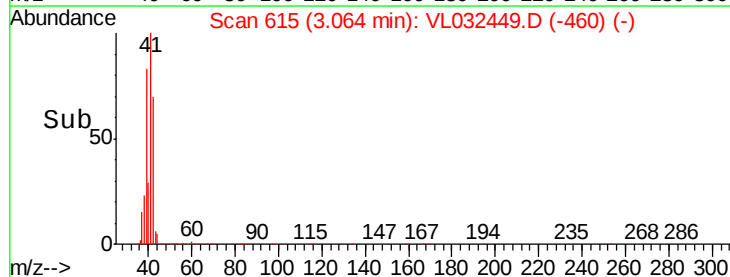
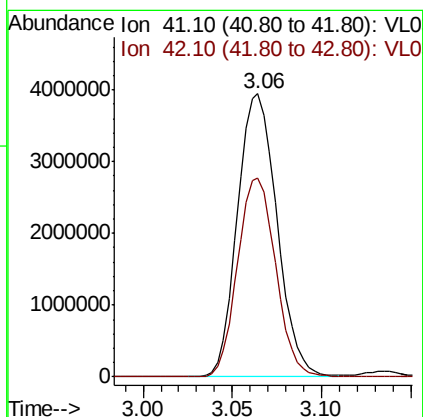
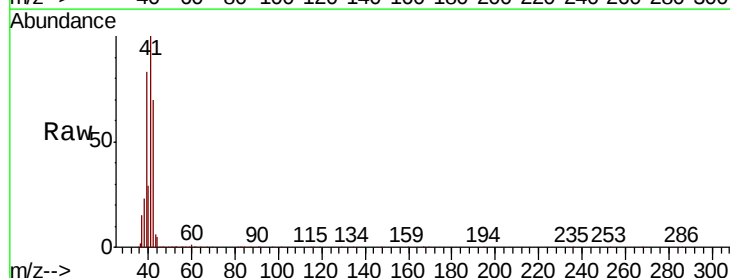
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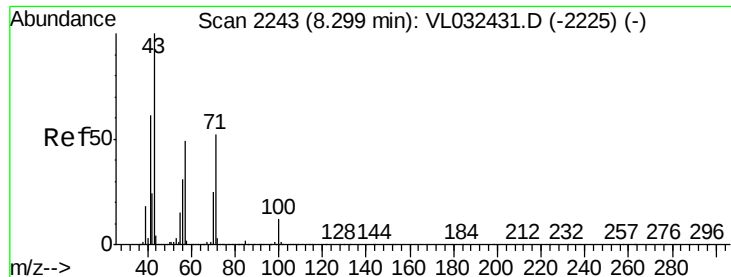
Tgt Ion: 41 Resp: 6096686

Ion Ratio Lower Upper

41 100

42 67.9 56.6 84.8





#10

Heptane

Concen: 3.601 ppbv

RT: 8.30 min Scan# 2242

Delta R.T. -0.00 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Instrument :

MSVOA_L

ClientSampled :

VP-03

Tgt Ion: 43 Resp: 707848

Ion Ratio Lower Upper

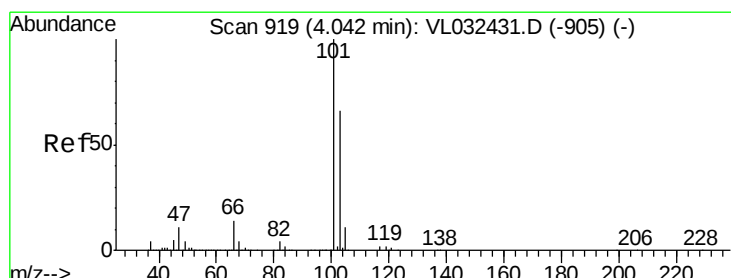
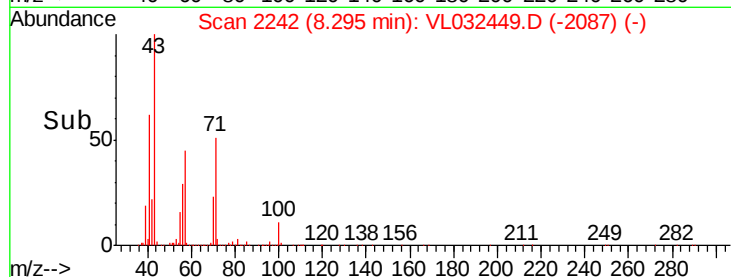
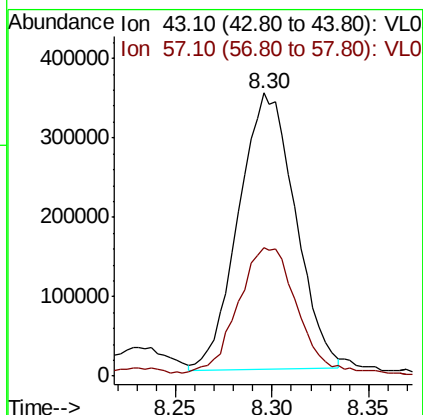
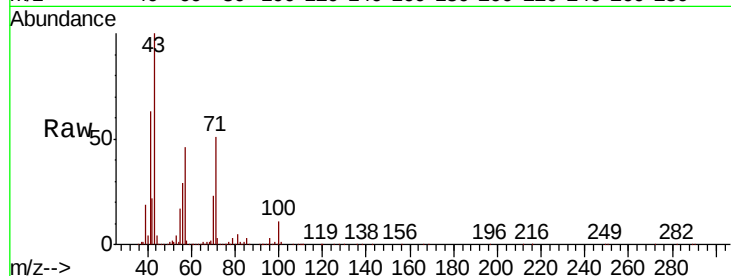
43 100

57 49.3 39.6 59.4

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#11

Trichlorofluoromethane

Concen: 0.557 ppbv

RT: 4.04 min Scan# 919

Delta R.T. 0.00 min

Lab File: VL032449.D

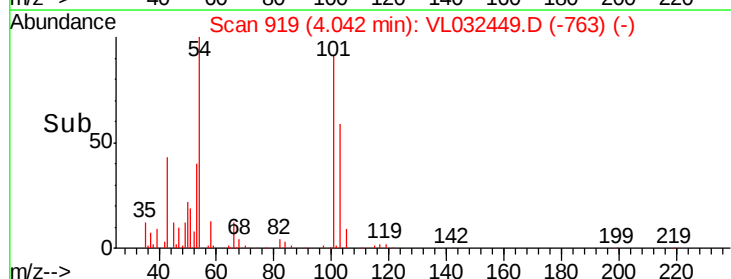
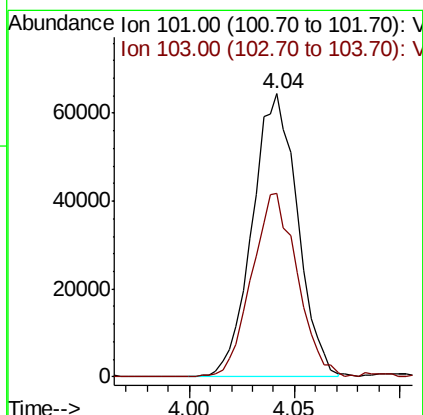
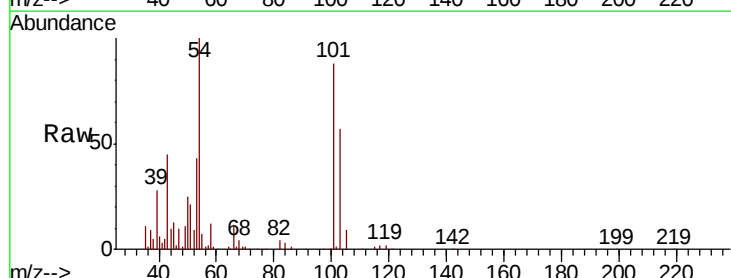
Acq: 31 Aug 2018 20:29

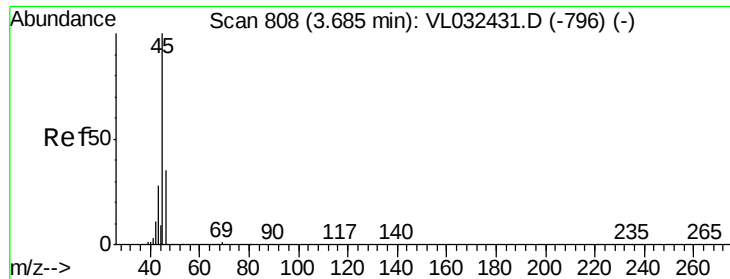
Tgt Ion: 101 Resp: 96376

Ion Ratio Lower Upper

101 100

103 65.0 52.8 79.2





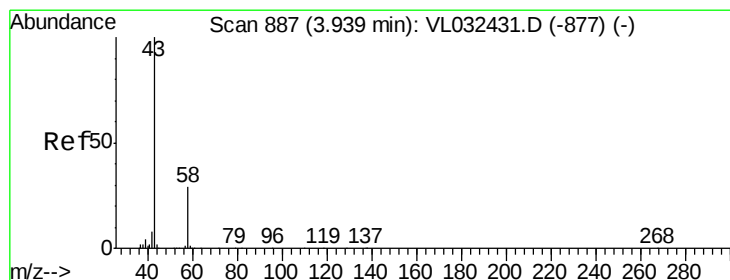
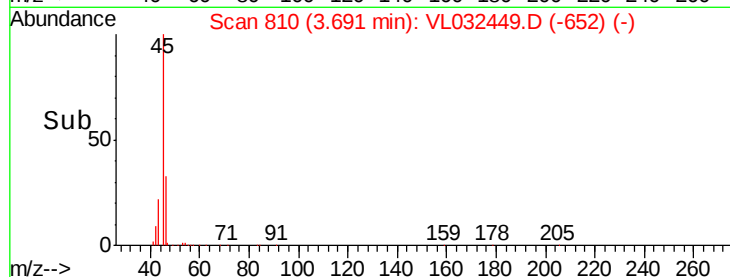
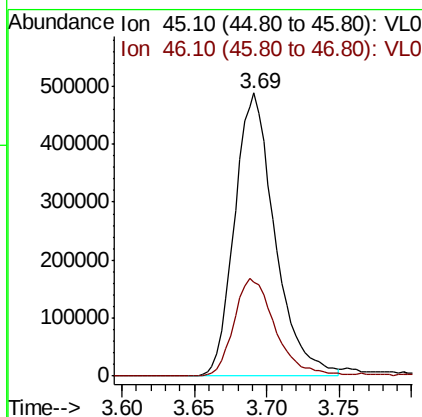
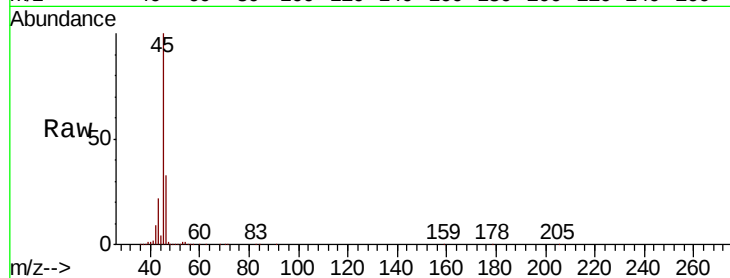
#13
Ethanol
Concen: 55.220 ppbv
RT: 3.69 min Scan# 810
Delta R.T. 0.01 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampled :
VP-03

Tgt Ion: 45 Resp: 943170
Ion Ratio Lower Upper
45 100
46 36.2 14.2 56.8

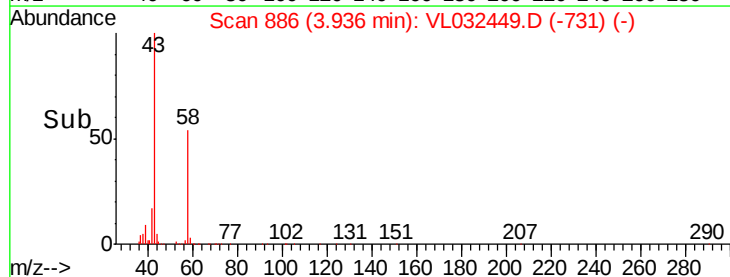
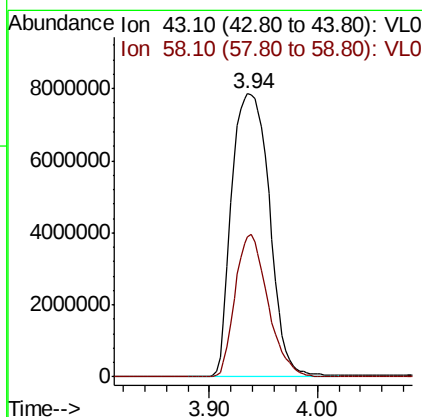
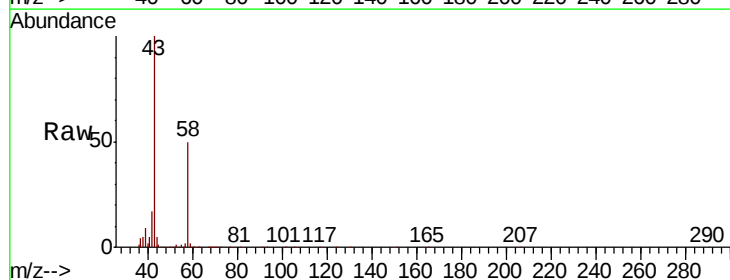
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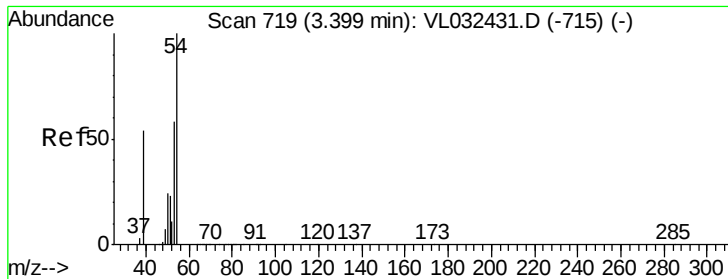
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#15
Acetone
Concen: 142.143 ppbv
RT: 3.94 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion: 43 Resp:19208233
Ion Ratio Lower Upper
43 100
58 43.9 22.6 33.8#





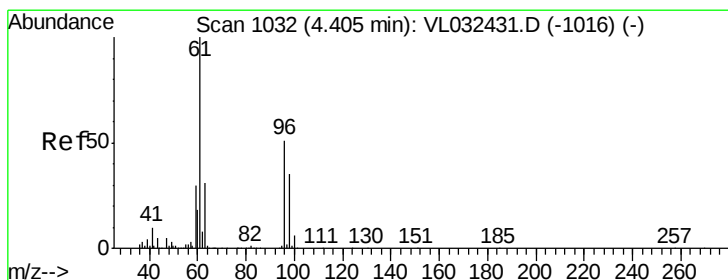
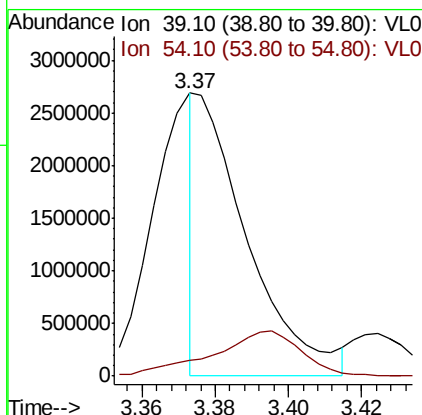
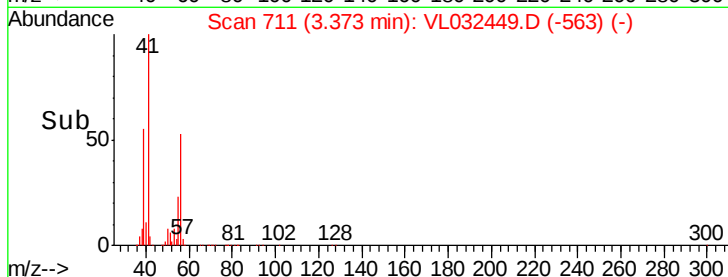
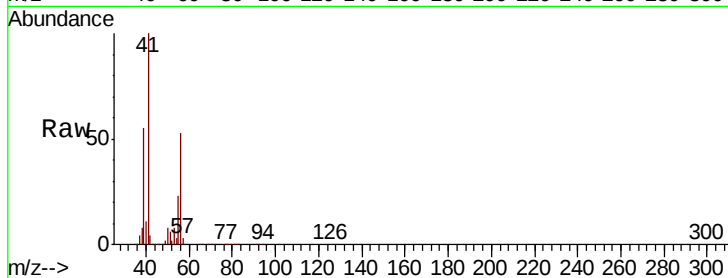
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1,3-Butadiene
Concen: 41.487 ppbv m
RT: 3.37 min Scan# 711
Delta R.T. -0.03 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampleId :
VP-03

Tgt Ion: 39 Resp: 2638126
Ion Ratio Lower Upper
39 100
54 0.0 80.8 121.2#

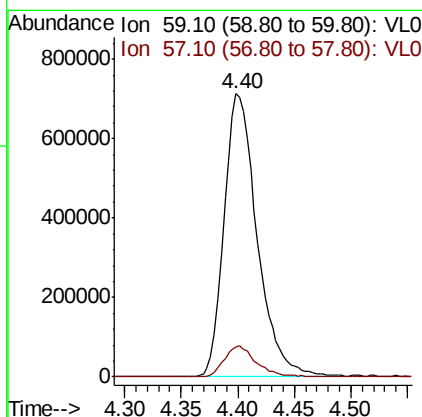
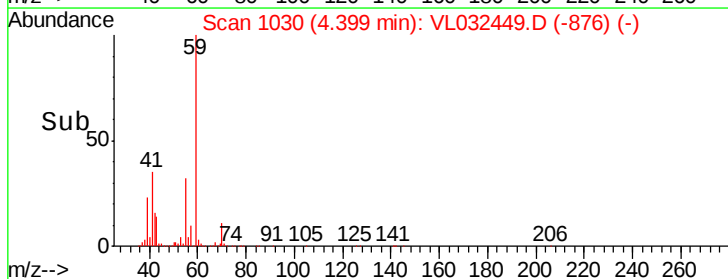
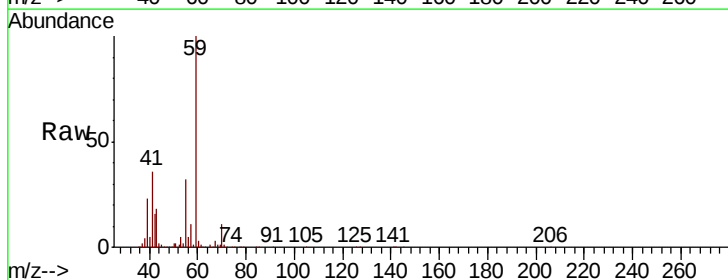
Manual Integrations
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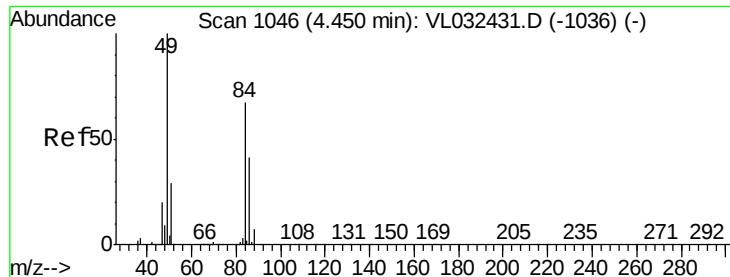
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#17
tert-Butyl alcohol
Concen: 69.724 ppbv
RT: 4.40 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion: 59 Resp: 1449970
Ion Ratio Lower Upper
59 100
57 10.8 0.0 0.0#





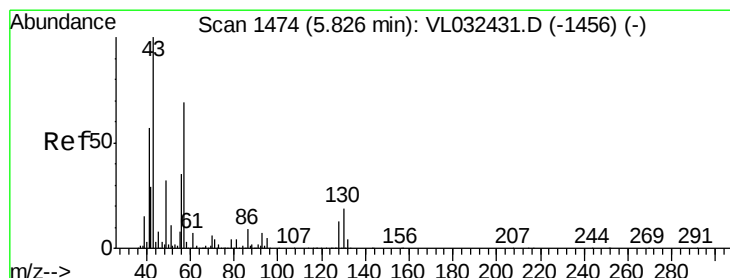
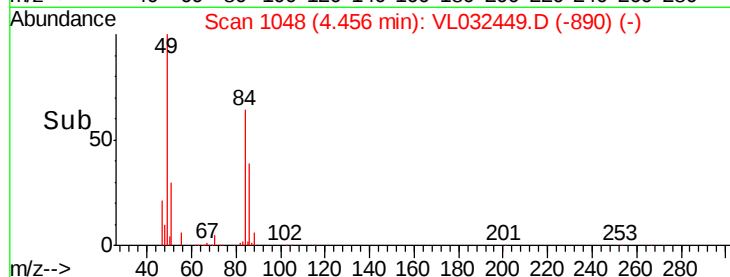
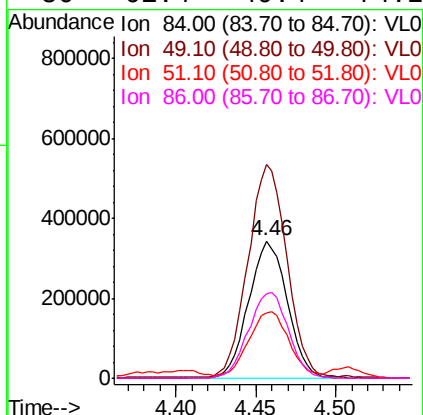
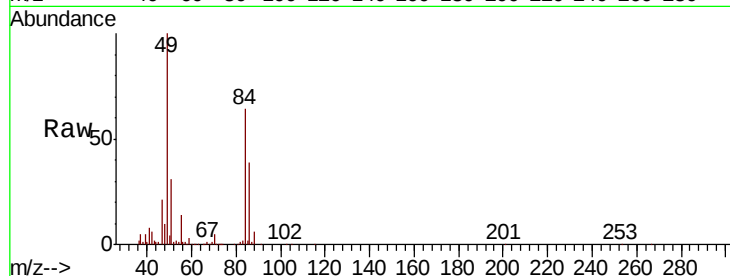
#20
Methylene Chloride
Concen: 11.049 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. 0.01 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampleId :
VP-03

Tgt Ion	Ratio	Lower	Upper
84	100		
49	155.5	119.1	178.7
51	42.6	35.2	52.8
86	61.4	49.4	74.2

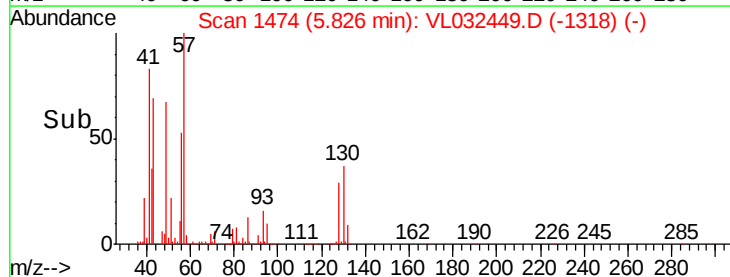
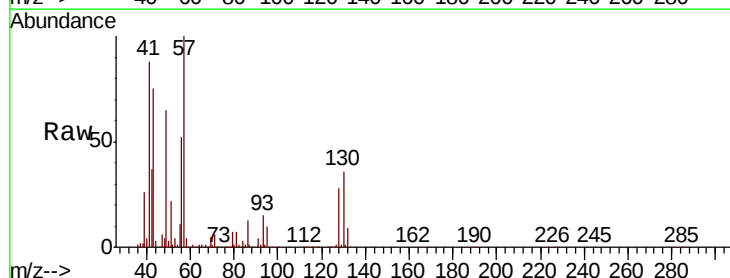
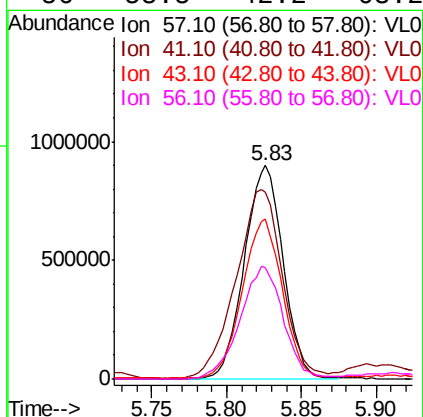
Manual Integrations
APPROVED

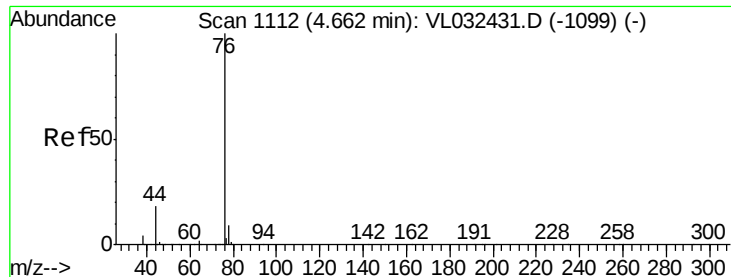
apatel
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#26
Hexane
Concen: 11.312 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion	Ratio	Lower	Upper
57	100		
41	106.1	69.0	103.4#
43	77.0	172.1	258.1#
56	58.5	42.2	63.2





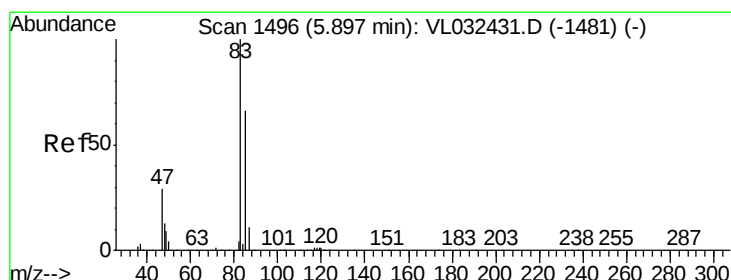
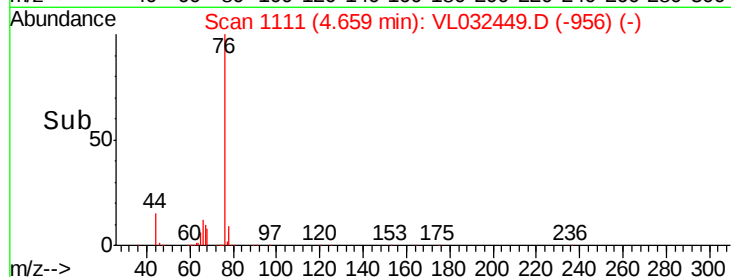
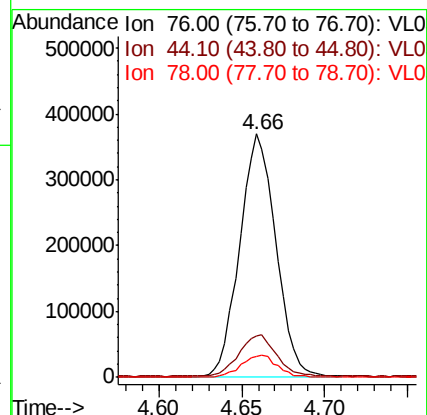
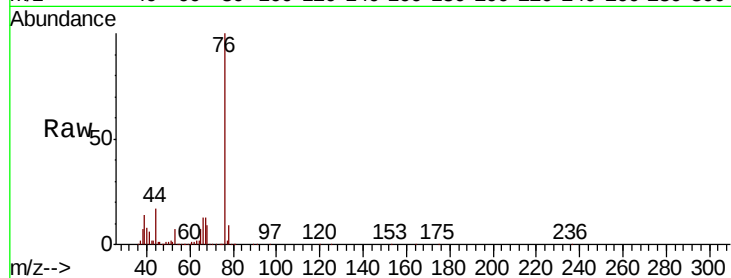
#27
Carbon Disulfide
Concen: 4.271 ppbv
RT: 4.66 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampleID :
VP-03

Tgt Ion	Ratio	Lower	Upper
76	100		
44	17.8	14.0	21.0
78	9.2	7.5	11.3

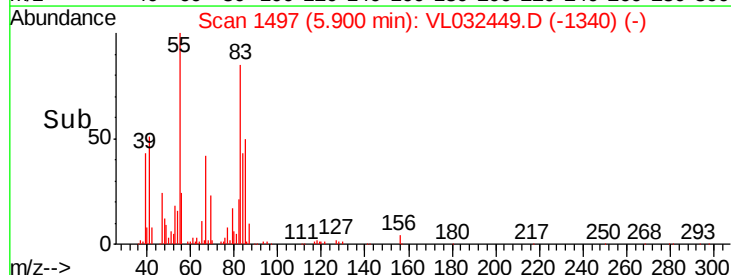
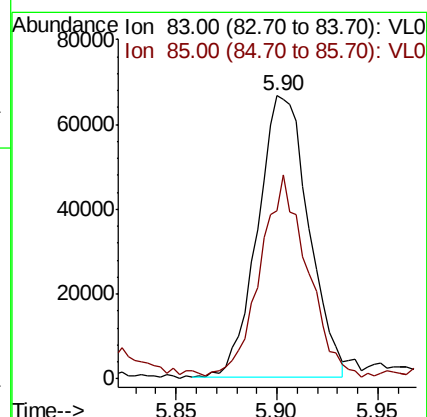
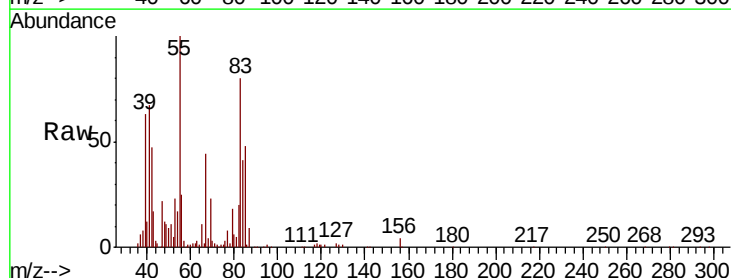
Manual Integrations
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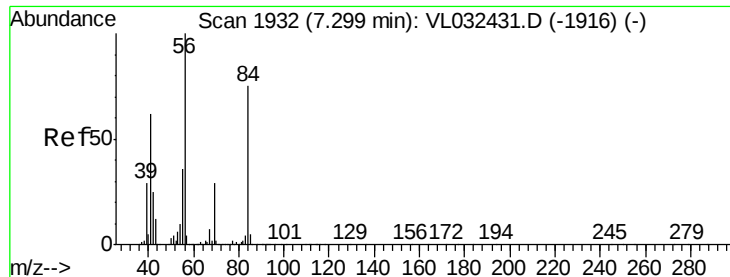
apatel
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#29
Chloroform
Concen: 0.536 ppbv
RT: 5.90 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.9	52.5	78.7





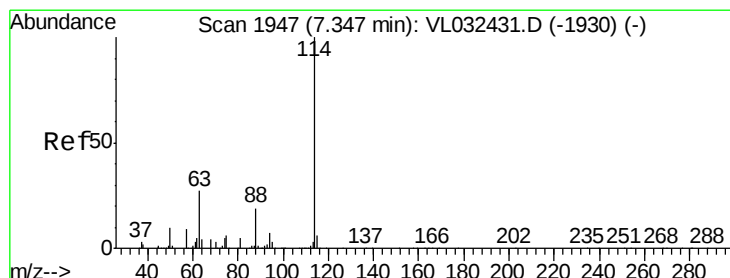
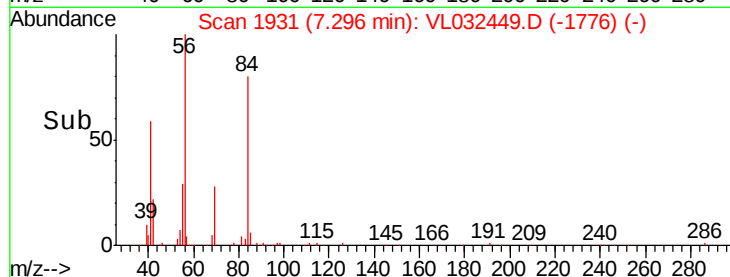
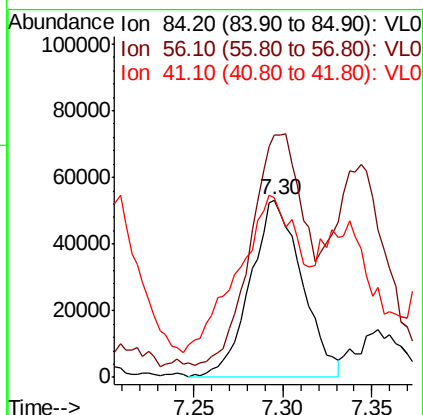
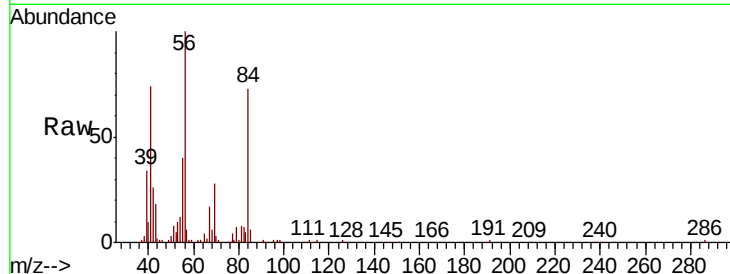
#30
Cyclohexane
Concen: 1.018 ppbv
RT: 7.30 min Scan# 1931
Delta R.T. -0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampled :
VP-03

Tgt Ion	Ratio	Lower	Upper
84	100		
56	155.4	113.5	170.3
41	100.1	68.1	102.1

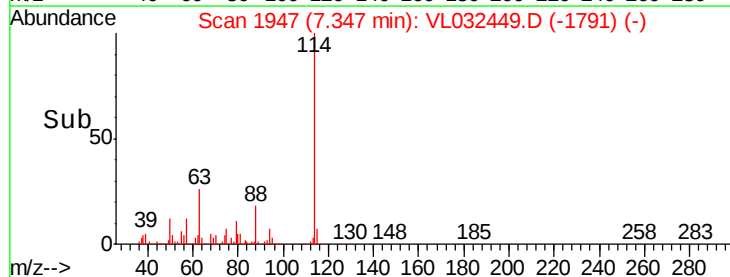
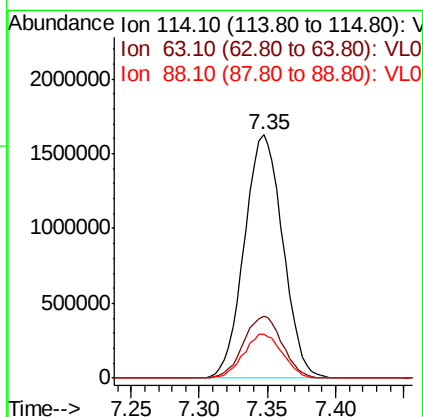
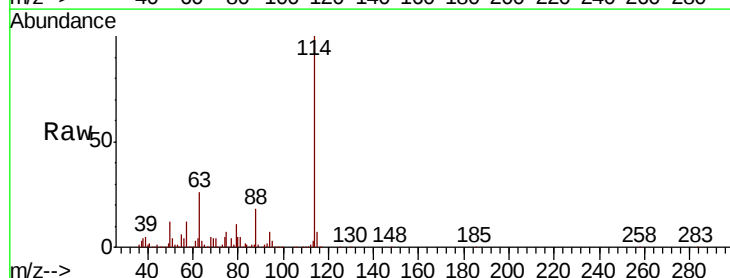
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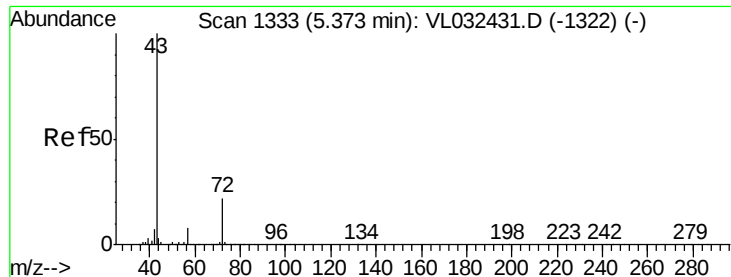
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.35 min Scan# 1947
Delta R.T. 0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.6	22.2	33.4
88	18.3	15.0	22.4





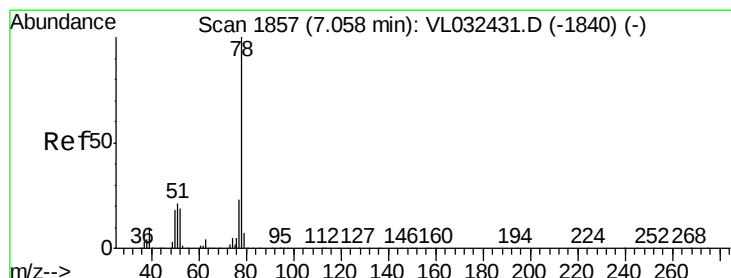
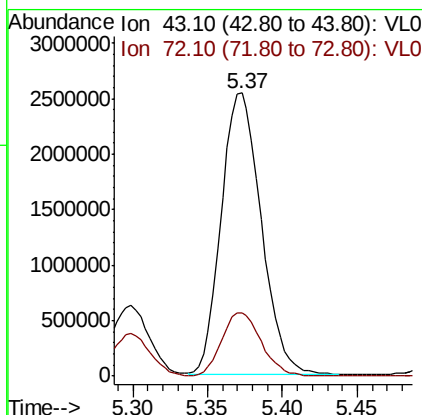
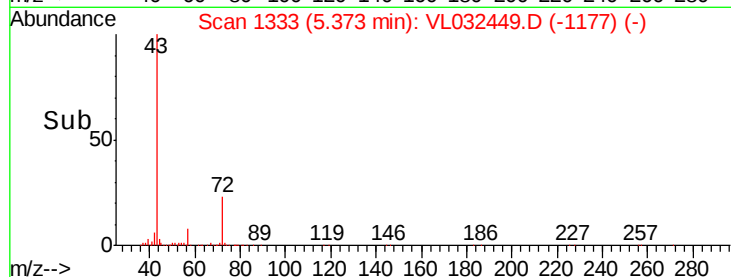
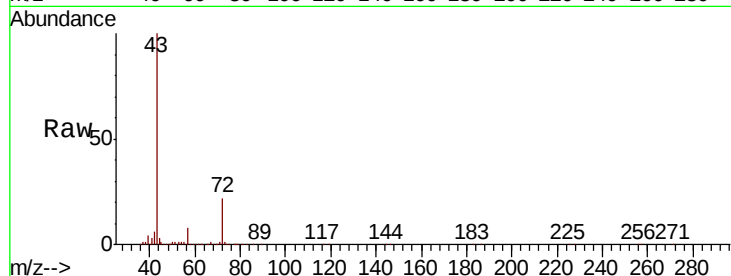
#34
2-Butanone
Concen: 22.345 ppbv
RT: 5.37 min Scan# 1333
Delta R.T. 0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampled :
VP-03

Tgt Ion: 43 Resp: 4732180
Ion Ratio Lower Upper
43 100
72 22.4 17.8 26.6

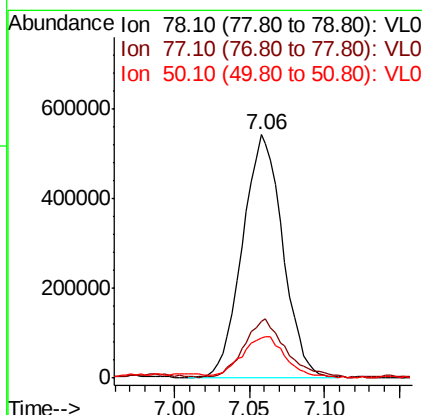
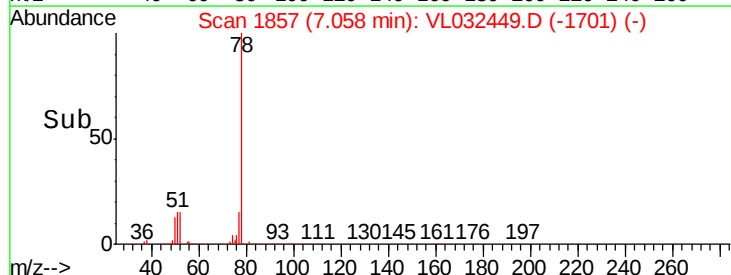
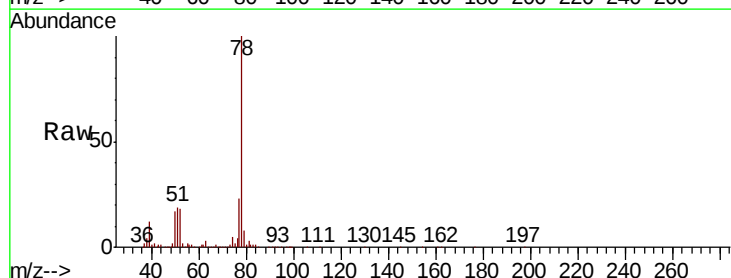
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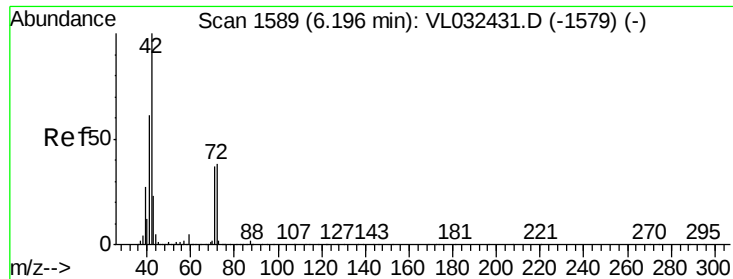
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#36
Benzene
Concen: 3.738 ppbv
RT: 7.06 min Scan# 1857
Delta R.T. 0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion: 78 Resp: 1014201
Ion Ratio Lower Upper
78 100
77 22.5 18.4 27.6
50 16.1 14.4 21.6





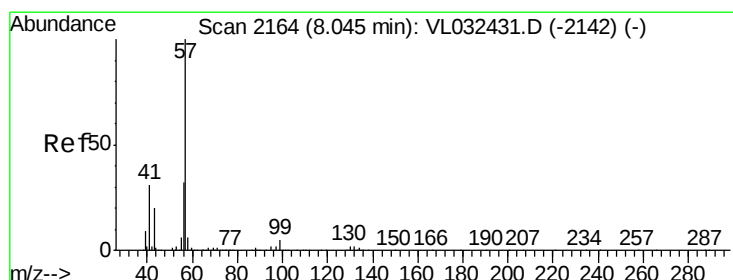
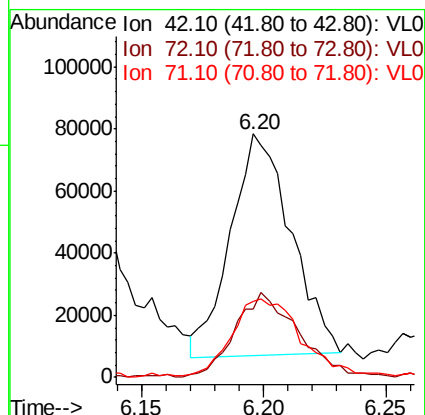
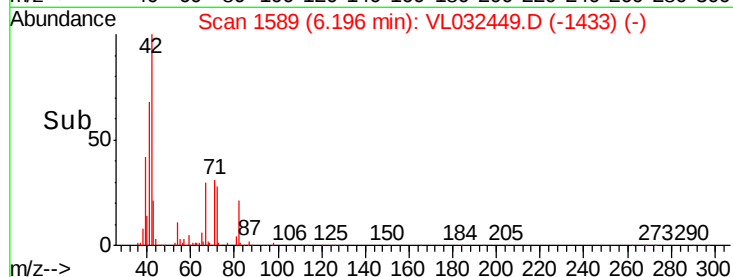
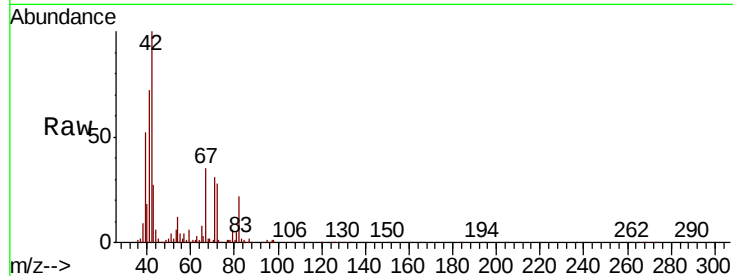
#41
Tetrahydrofuran
Concen: 1.062 ppbv
RT: 6.20 min Scan# 1589
Delta R.T. 0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampled :
VP-03

Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.7	29.5	44.3
71	41.8	28.3	42.5

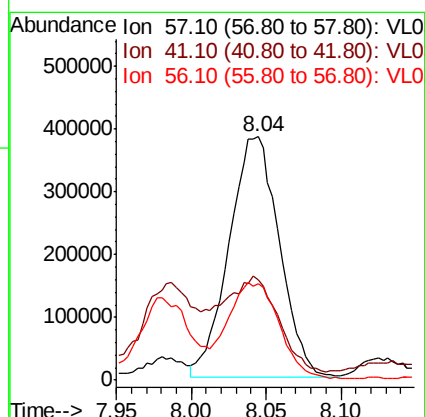
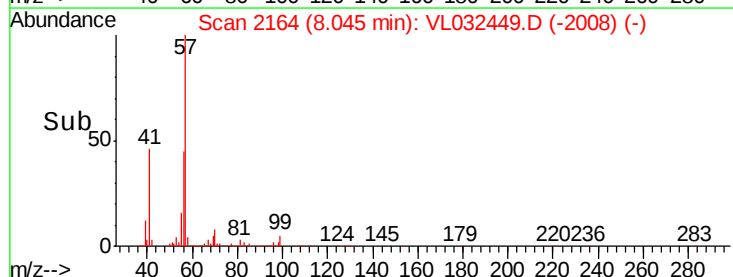
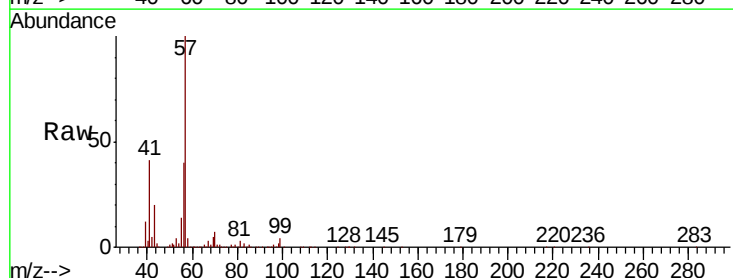
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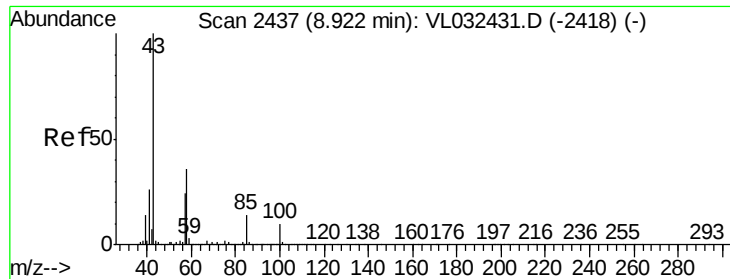
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#44
2,2,4-Trimethylpentane
Concen: 1.715 ppbv
RT: 8.04 min Scan# 2164
Delta R.T. 0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion	Ratio	Lower	Upper
57	100		
41	45.5	24.4	36.6#
56	42.6	25.7	38.5#





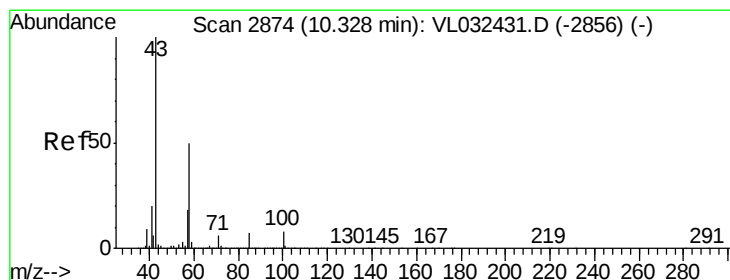
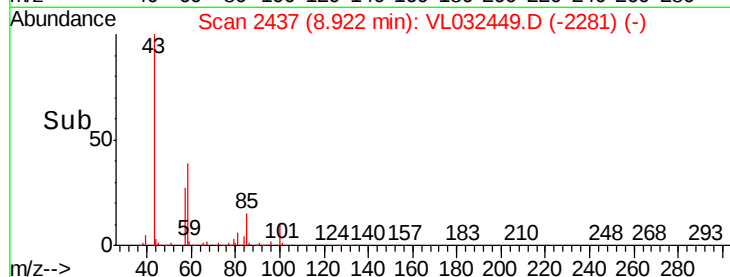
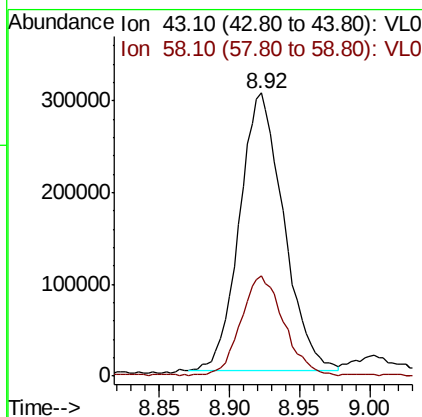
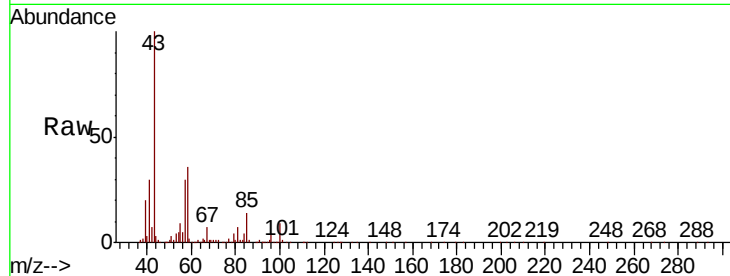
#50
 4-Methyl-2-Pentanone
 Concen: 2.081 ppbv
 RT: 8.92 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VL032449.D
 Acq: 31 Aug 2018 20:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03

Tgt Ion: 43 Resp: 663742
 Ion Ratio Lower Upper
 43 100
 58 35.7 29.0 43.4

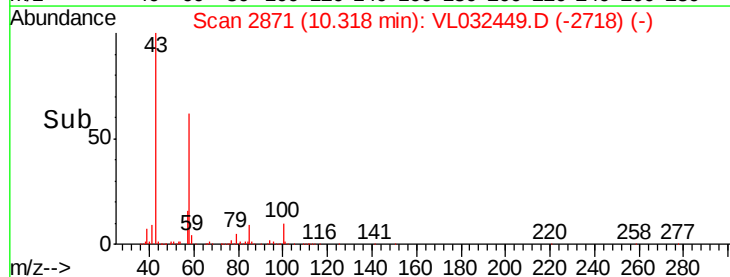
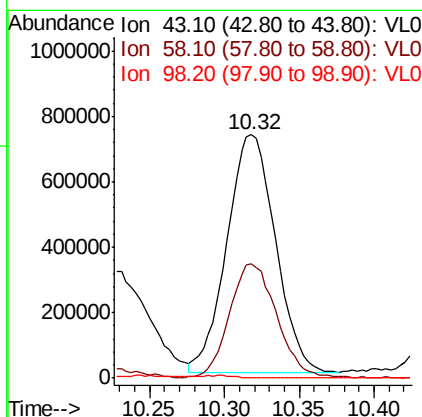
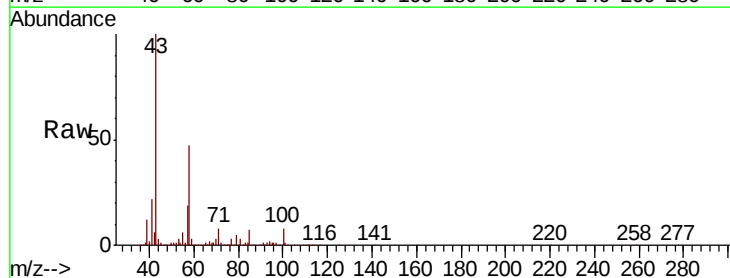
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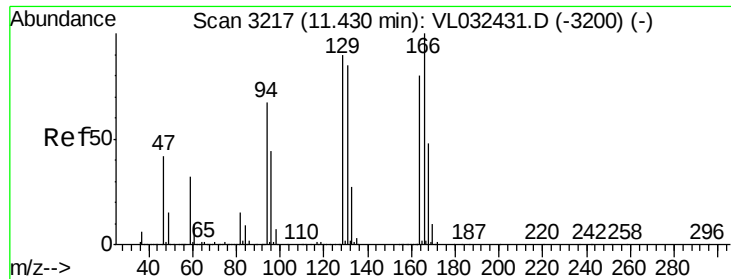
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#51
 2-Hexanone
 Concen: 8.016 ppbv
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.01 min
 Lab File: VL032449.D
 Acq: 31 Aug 2018 20:29

Tgt Ion: 43 Resp: 1647181
 Ion Ratio Lower Upper
 43 100
 58 46.6 39.2 58.8
 98 0.8 0.4 0.6#





#52

Tetrachloroethene

Concen: 2.483 ppbv

RT: 11.43 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Instrument :

MSVOA_L

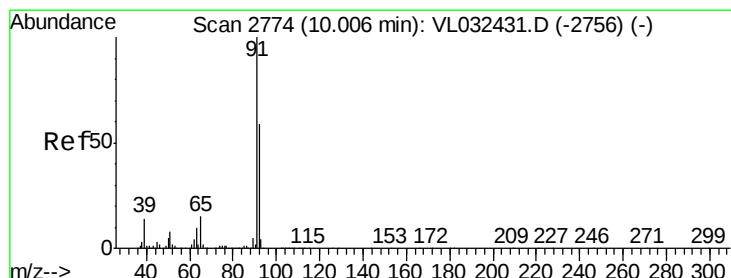
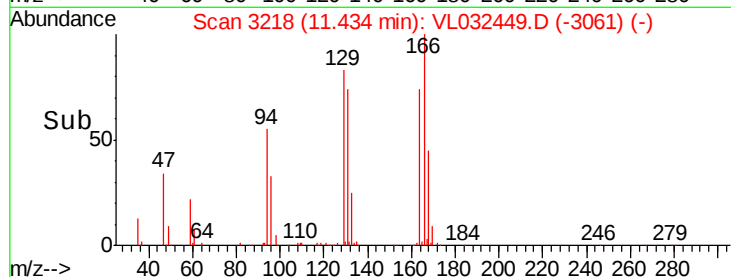
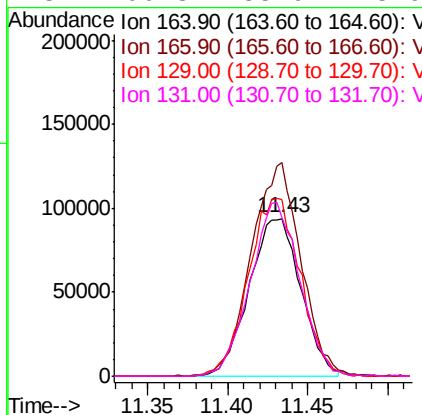
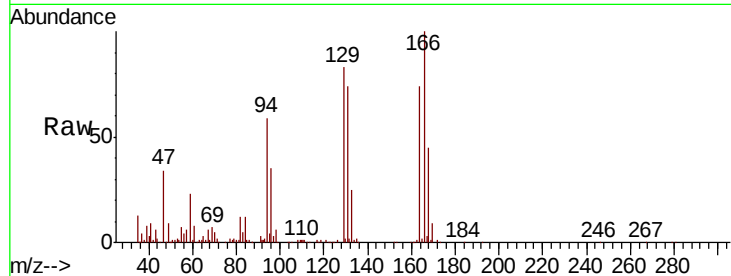
ClientSampled :

VP-03

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
166	135.2	208875	100.6	150.8
129	111.4		89.9	134.9
131	100.3		85.9	128.9

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#53

Toluene

Concen: 16.975 ppbv

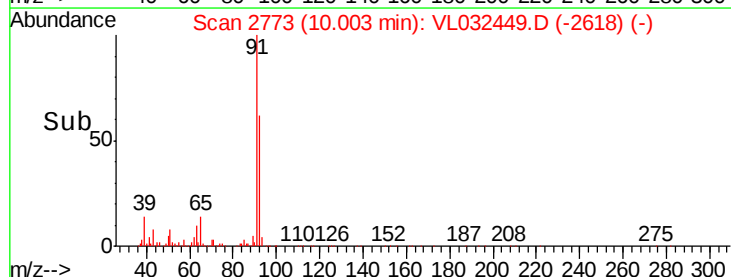
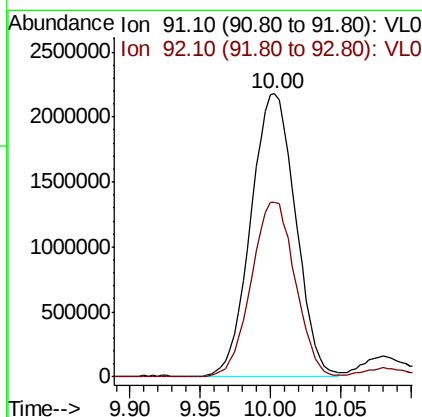
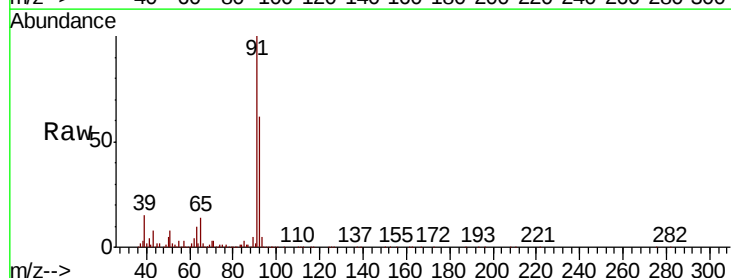
RT: 10.00 min Scan# 2773

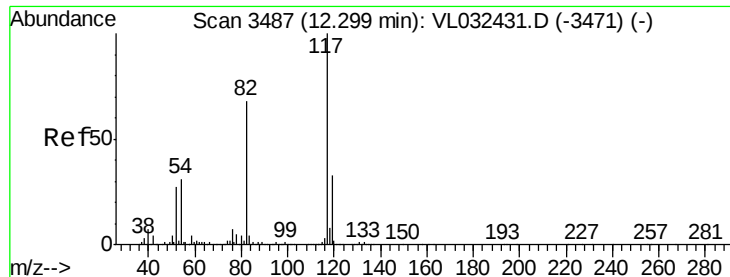
Delta R.T. -0.00 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	4814273		
92	60.8		48.1	72.1





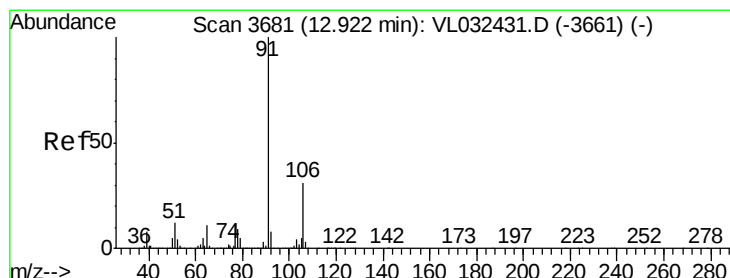
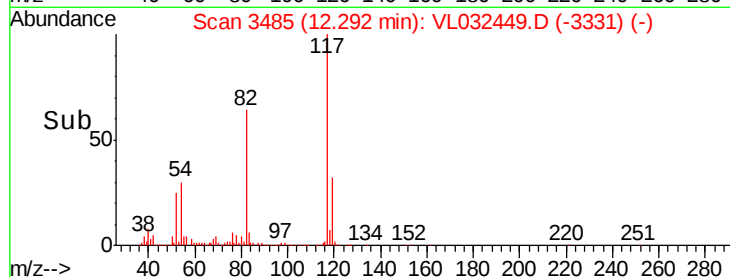
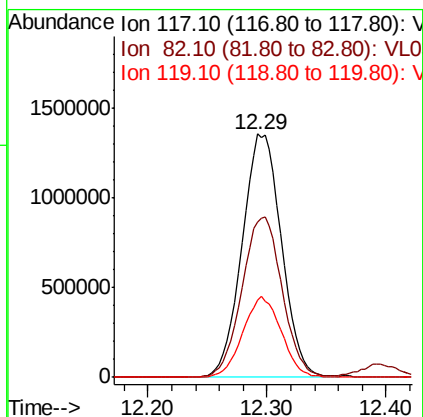
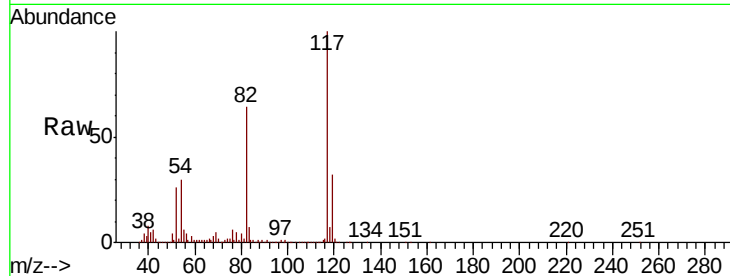
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampled :
VP-03

Tgt Ion	Ratio	Lower	Upper
117	100		
82	67.3	53.0	79.6
119	32.7	45.9	68.9#

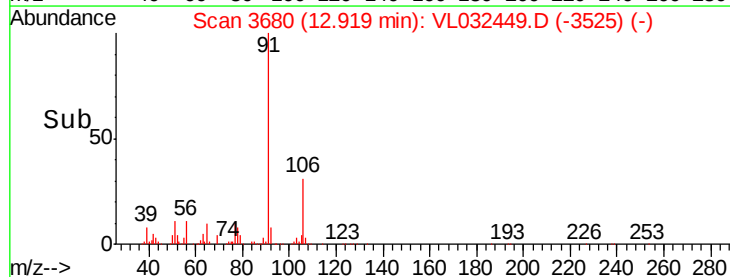
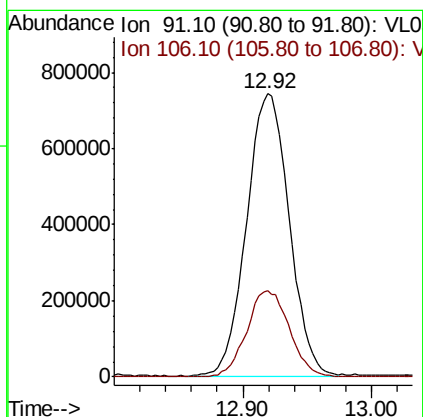
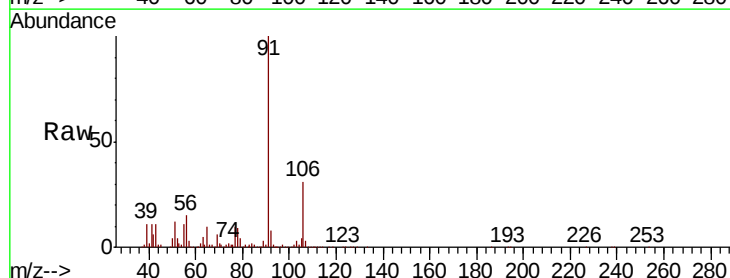
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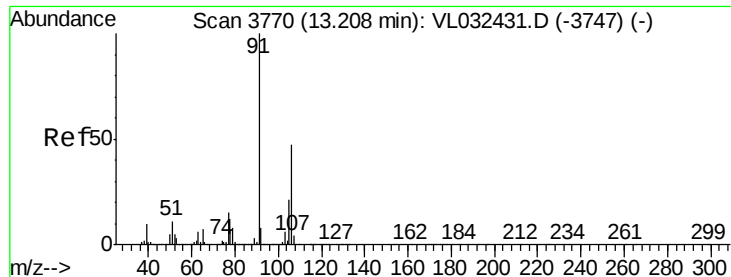
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#58
Ethyl Benzene
Concen: 4.601 ppbv
RT: 12.92 min Scan# 3680
Delta R.T. -0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.8	37.2





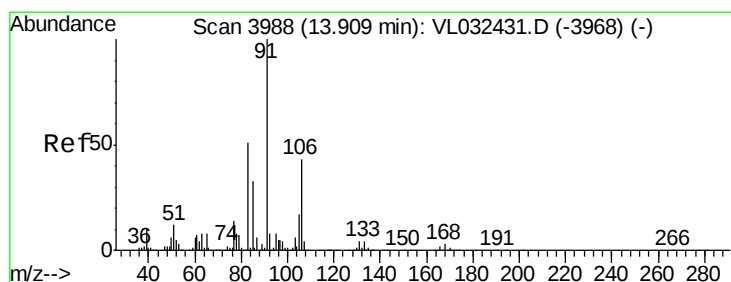
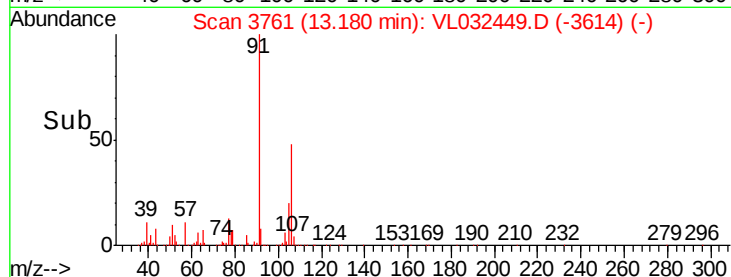
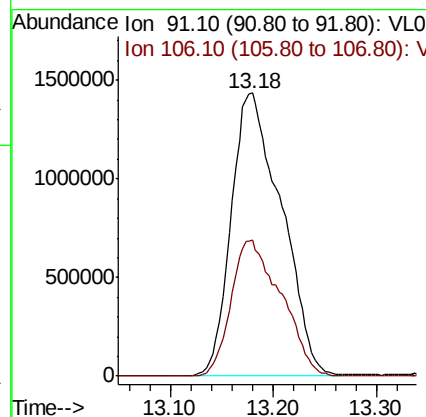
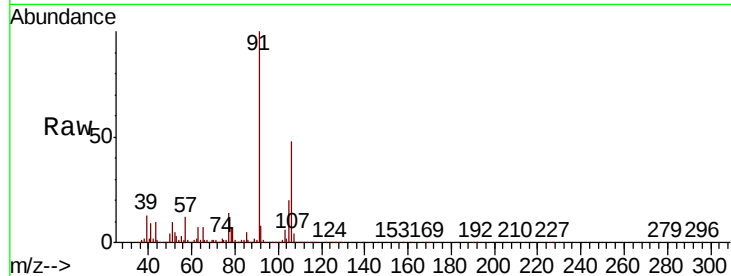
#59
m/p-Xylene
Concen: 14.577 ppbv
RT: 13.18 min Scan# 3761
Delta R.T. -0.03 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Instrument :
MSVOA_L
ClientSampled :
VP-03

Tgt Ion: 91 Resp: 4824313
Ion Ratio Lower Upper
91 100
106 48.1 36.6 55.0

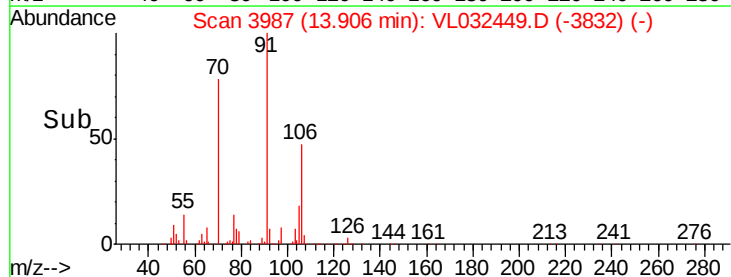
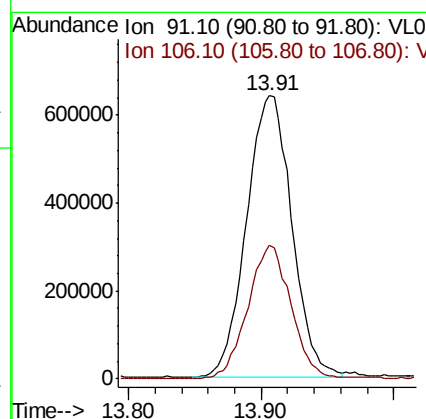
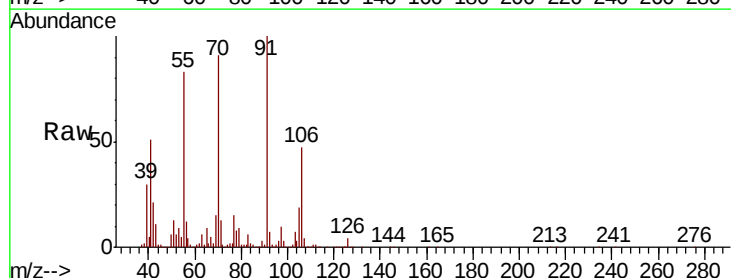
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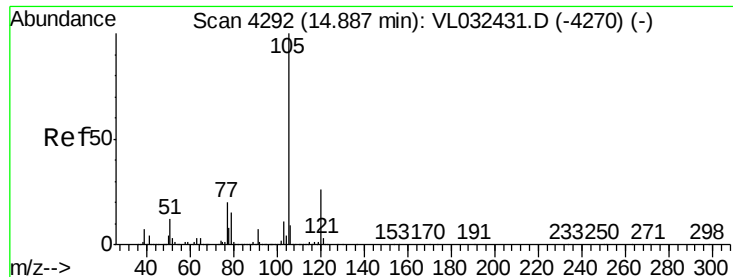
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#60
o-Xylene
Concen: 4.691 ppbv
RT: 13.91 min Scan# 3987
Delta R.T. -0.00 min
Lab File: VL032449.D
Acq: 31 Aug 2018 20:29

Tgt Ion: 91 Resp: 1524871
Ion Ratio Lower Upper
91 100
106 45.6 21.9 65.7





#62

Isopropylbenzene

Concen: 0.300 ppbv

RT: 14.88 min Scan# 4290

Delta R.T. -0.01 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Instrument :

MSVOA_L

ClientSampleId :

VP-03

Tgt Ion:105 Resp: 137130

Ion Ratio Lower Upper

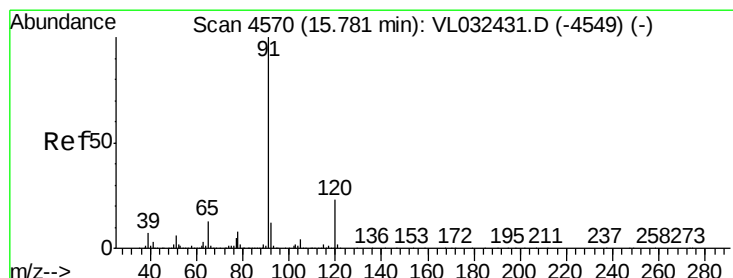
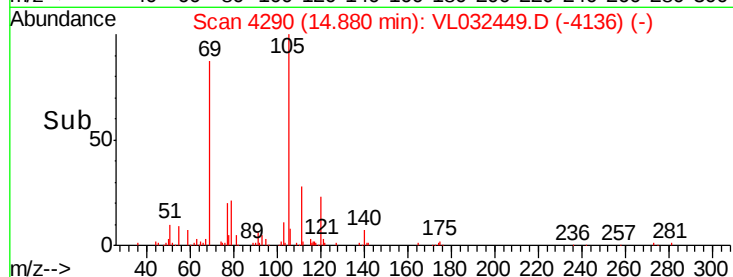
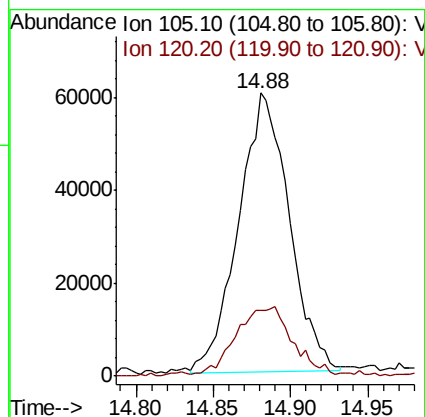
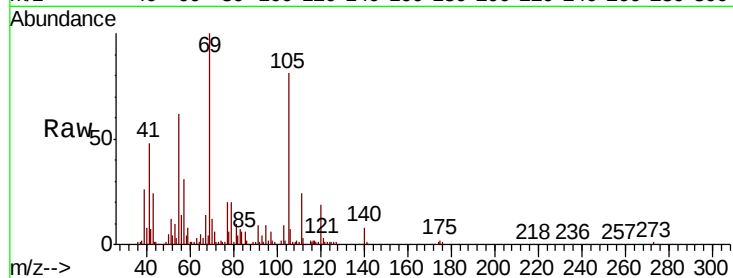
105 100

120 29.2 20.6 31.0

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#64

n-propylbenzene

Concen: 1.487 ppbv

RT: 15.77 min Scan# 4568

Delta R.T. -0.01 min

Lab File: VL032449.D

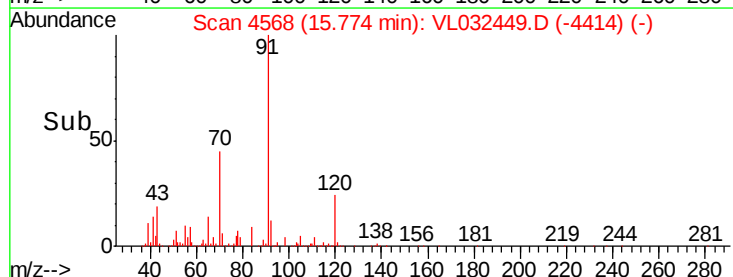
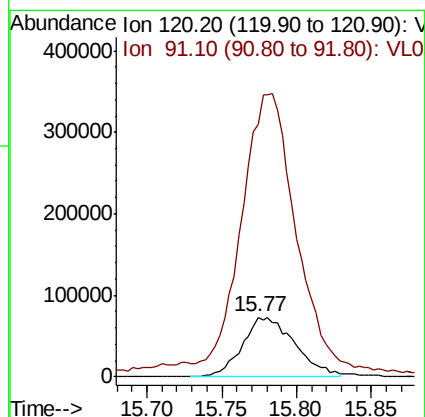
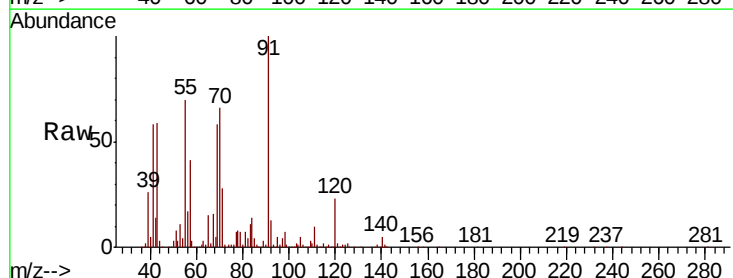
Acq: 31 Aug 2018 20:29

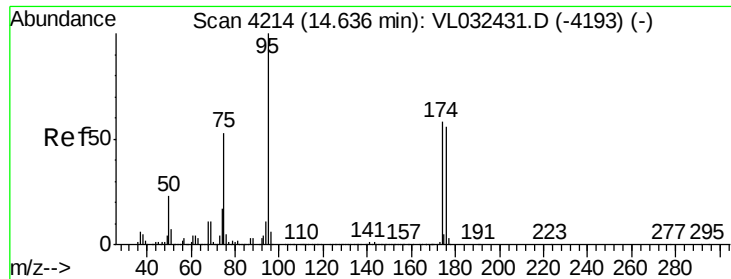
Tgt Ion:120 Resp: 177638

Ion Ratio Lower Upper

120 100

91 509.3 381.8 572.6





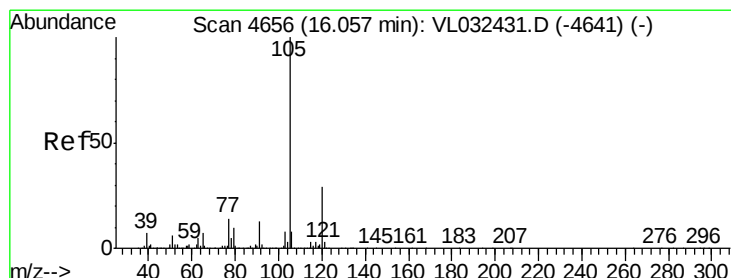
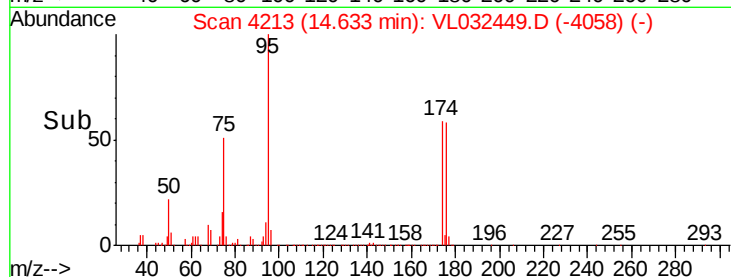
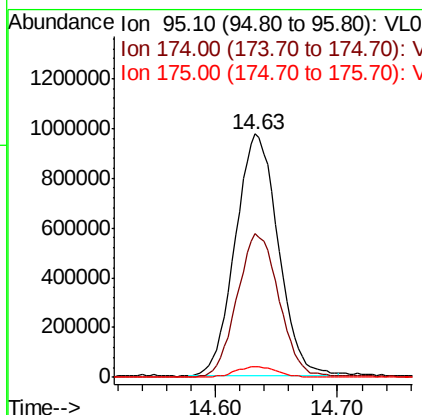
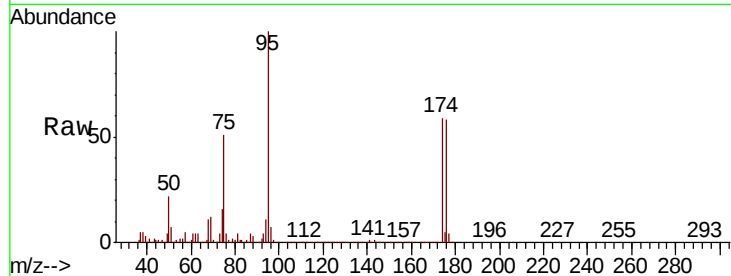
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.319 ppbv
 RT: 14.63 min Scan# 4213
 Delta R.T. -0.00 min
 Lab File: VL032449.D
 Acq: 31 Aug 2018 20:29

Instrument :
 MSVOA_L
 ClientSampled :
 VP-03

Tgt Ion: 95 Resp: 2376436
 Ion Ratio Lower Upper
 95 100
 174 58.8 46.3 69.5
 175 4.4 3.4 5.0

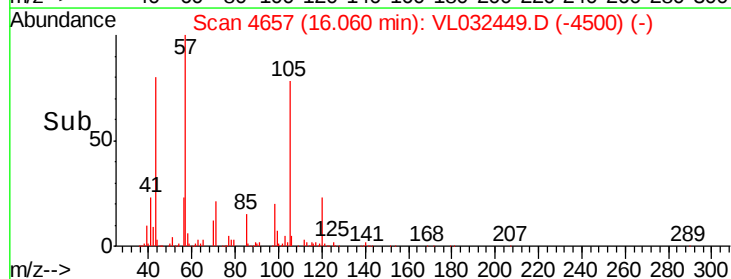
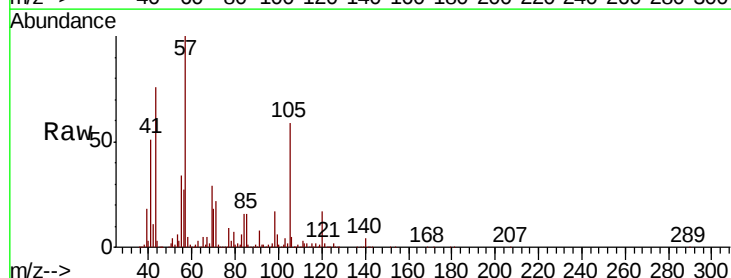
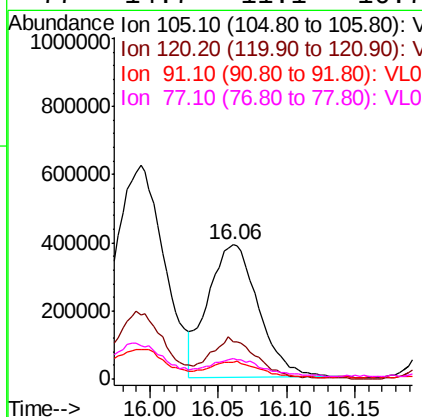
Manual Integrations
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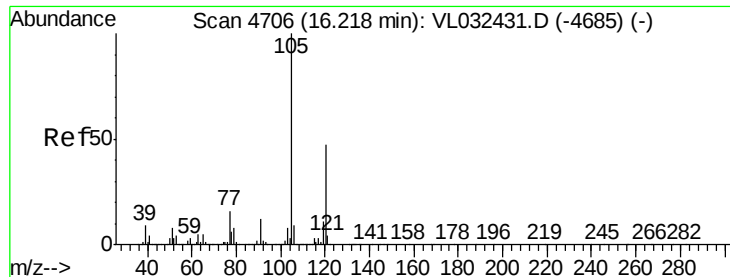
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#72
 4-Ethyltoluene
 Concen: 2.816 ppbv
 RT: 16.06 min Scan# 4657
 Delta R.T. 0.00 min
 Lab File: VL032449.D
 Acq: 31 Aug 2018 20:29

Tgt Ion: 105 Resp: 999655
 Ion Ratio Lower Upper
 105 100
 120 29.3 23.5 35.3
 91 11.9 10.2 15.2
 77 14.7 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 1.538 ppbv

RT: 16.22 min Scan# 4707

Delta R.T. 0.00 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Instrument :

MSVOA_L

ClientSampled :

VP-03

Tgt Ion:105 Resp: 546936

Ion Ratio Lower Upper

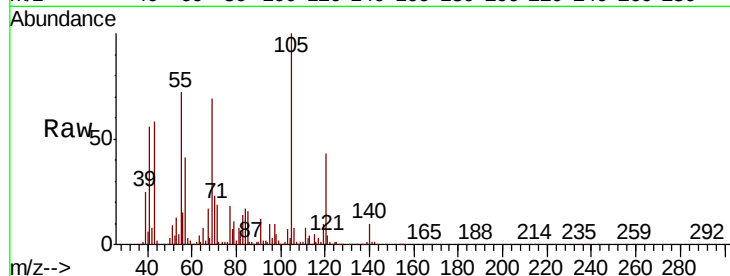
105 100

120 42.2 37.9 56.9

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.22

250000

200000

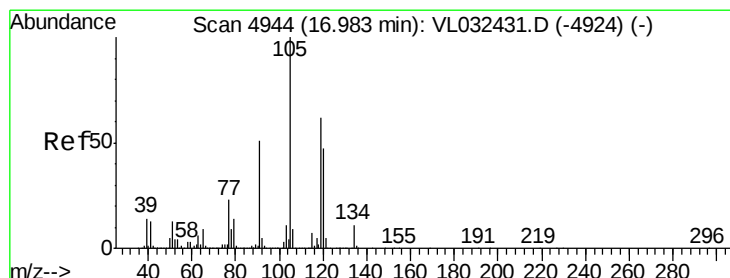
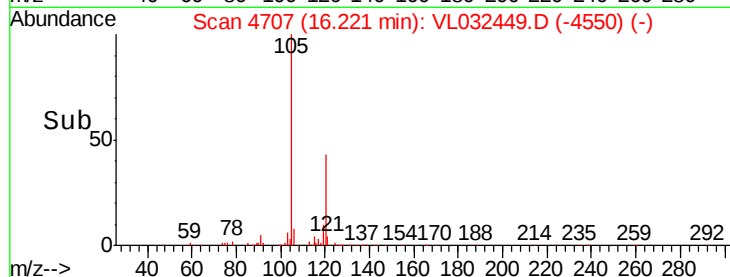
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 4.653 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. 0.01 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Tgt Ion:105 Resp: 1808730

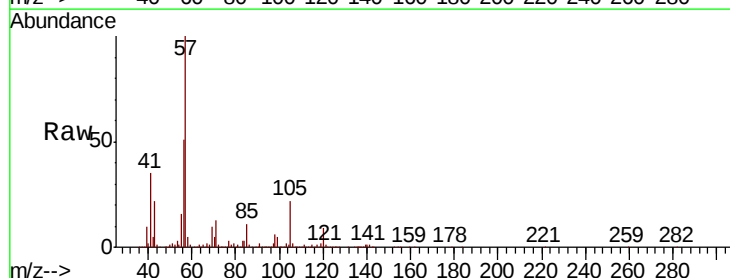
Ion Ratio Lower Upper

105 100

120 42.4 37.8 56.8

91 10.2 41.4 62.0#

77 13.6 18.6 28.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

17.00

1000000

800000

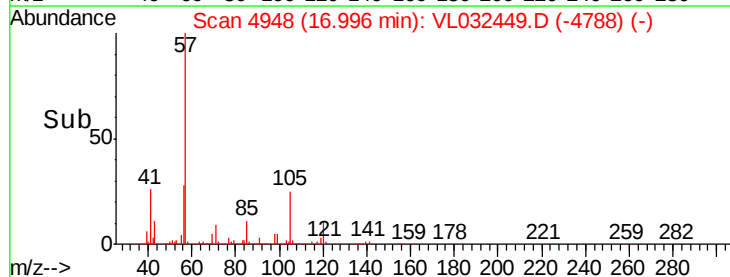
600000

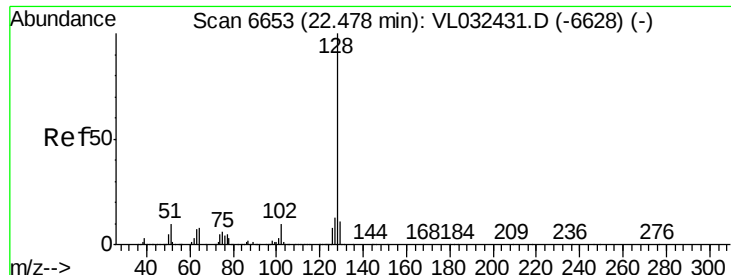
400000

200000

0

Time-->





#79

Naphthalene

Concen: 0.481 ppbv

RT: 22.49 min Scan# 6657

Delta R.T. 0.01 min

Lab File: VL032449.D

Acq: 31 Aug 2018 20:29

Instrument :

MSVOA_L

ClientSampleId :

VP-03

Tgt Ion:	128	Resp:	151992
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.2
129	11.0	8.5	12.7

Manual Integrations
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