

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032325.D
 Acq On : 27 Jul 2018 19:11
 Operator : SY/AP
 Sample : J4131-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3DL

Manual Integrations
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MMDadoda
 7/30/2018 11:43:18 AM

Quant Time: Jul 28 00:53:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 28 00:53:05 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1809076	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	3857147	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	4384549	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	3497547	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.06	51	66606m	0.37	ppbv	
9) Propene	3.08	41	45302	0.56	ppbv	97
11) Trichlorofluoromethane	4.06	101	899156	4.31	ppbv	99
13) Ethanol	3.71	45	89532m	3.83	ppbv	
15) Acetone	3.96	43	272671	1.60	ppbv #	78
17) tert-Butyl alcohol	4.45	59	12819m	0.24	ppbv	
20) Methylene Chloride	4.47	84	54298	0.79	ppbv	91
26) Hexane	5.85	57	49457	0.29	ppbv #	61
29) Chloroform	5.92	83	27385m	0.11	ppbv	
32) 1,1,1-Trichloroethane	6.70	97	13775m	0.06	ppbv	
34) 2-Butanone	5.40	43	734155	2.94	ppbv	99
51) 2-Hexanone	10.38	43	90495	0.27	ppbv #	98
52) Tetrachloroethene	11.46	164	11340m	0.10	ppbv	
53) Toluene	10.03	91	174213	0.43	ppbv	100
58) Ethyl Benzene	12.95	91	126867m	0.23	ppbv	
59) m/p-Xylene	13.20	91	373466	0.80	ppbv	100
60) o-Xylene	13.94	91	178912m	0.39	ppbv	
61) Styrene	13.77	104	200643	0.59	ppbv	100
62) Isopropylbenzene	14.91	105	118719m	0.18	ppbv	
74) 1,2,4-Trimethylbenzene	17.01	105	93633m	0.18	ppbv	

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

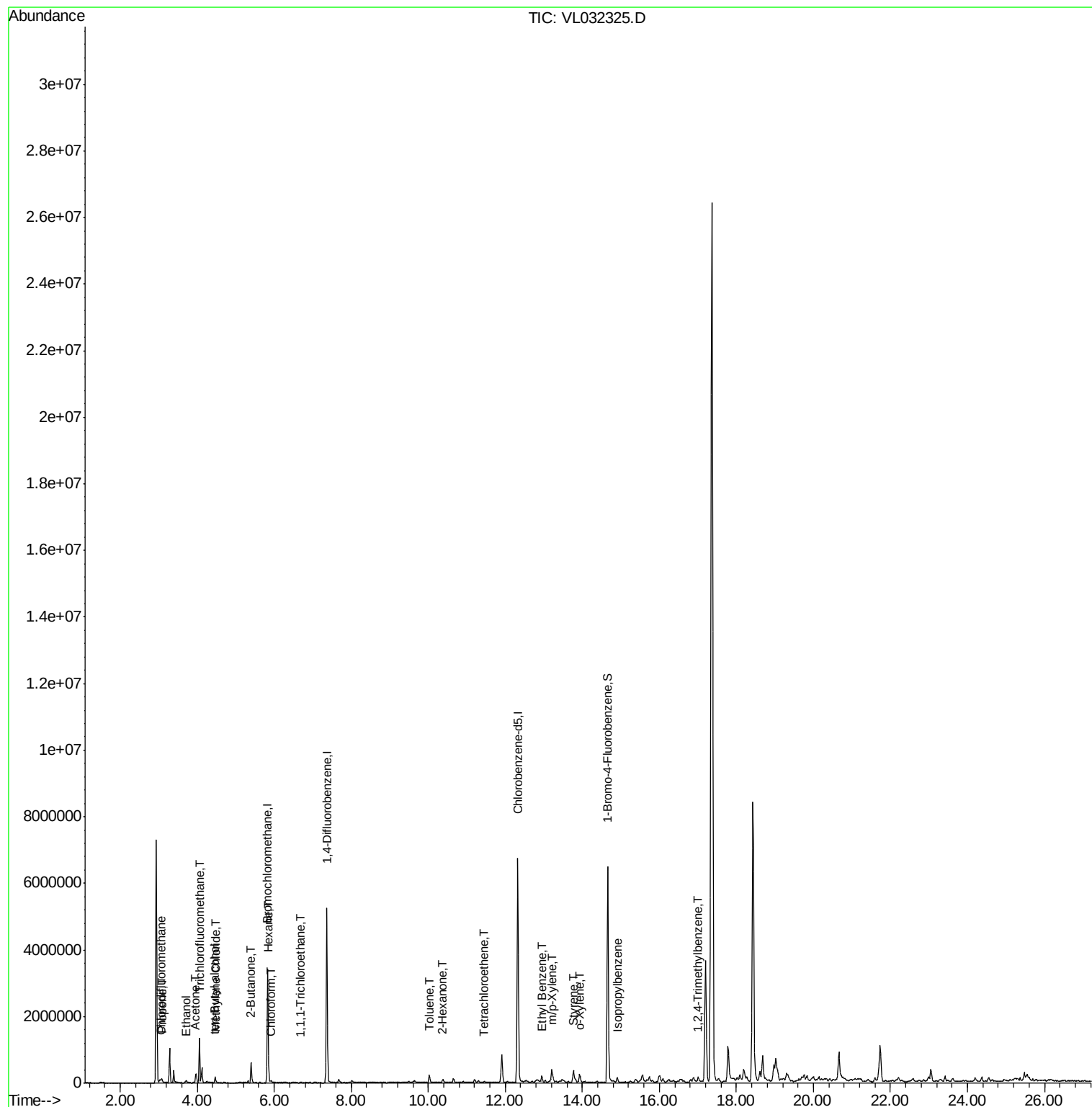
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072718\
Data File : VL032325.D
Acq On : 27 Jul 2018 19:11
Operator : SY/AP
Sample : J4131-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

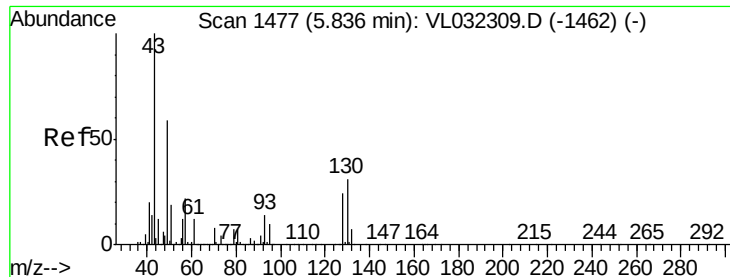
Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

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Quant Time: Jul 28 00:53:05 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 27 07:05:37 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.83 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VL032325.D

Acq: 27 Jul 2018 19:11

Instrument :

MSVOA_L

ClientSampled :

SG-3DL

Tot Ion: 49 Resp: 1809076

Ion Ratio Lower Upper

49 100

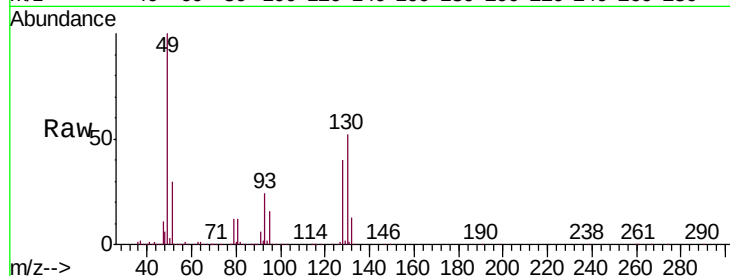
128 40.7 20.2 60.6

130 51.3 25.8 77.3

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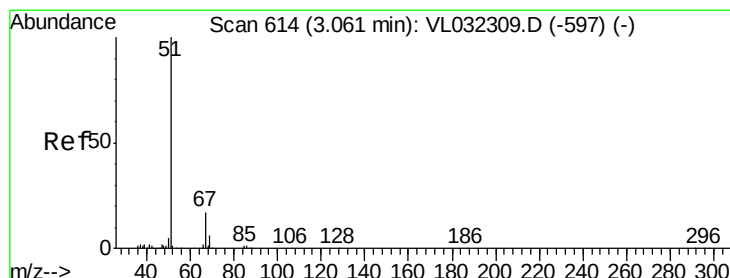
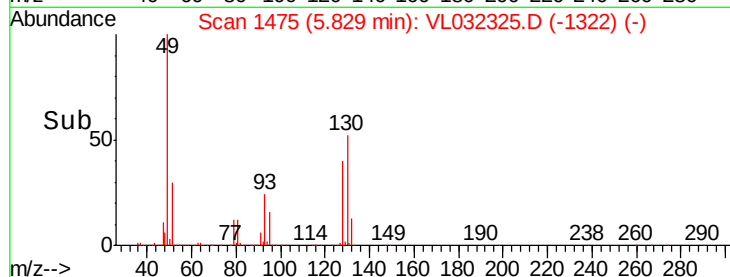
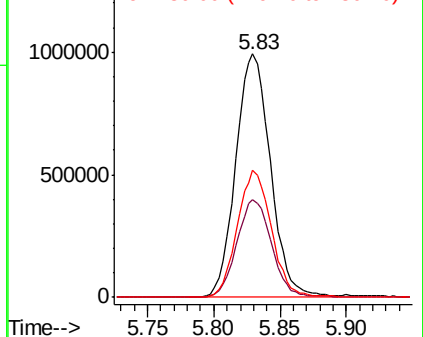
7/30/2018 11:43:18 AM



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



#3

Chlorodifluoromethane

Concen: 0.37 ppbv m

RT: 3.06 min Scan# 613

Delta R.T. -0.00 min

Lab File: VL032325.D

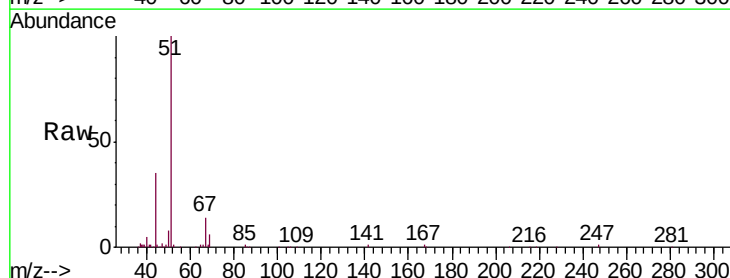
Acq: 27 Jul 2018 19:11

Tgt Ion: 51 Resp: 66606

Ion Ratio Lower Upper

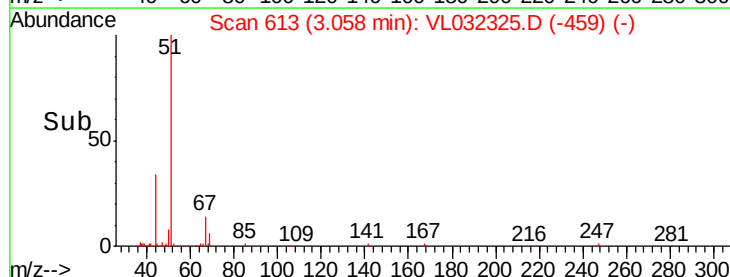
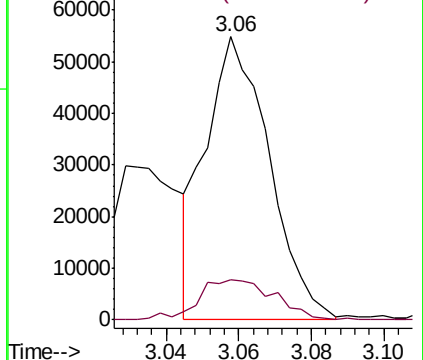
51 100

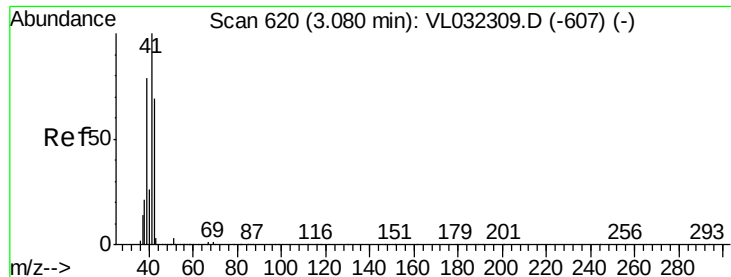
67 17.1 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.56 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032325.D

Acq: 27 Jul 2018 19:11

Instrument :

MSVOA_L

ClientSampled :

SG-3DL

Tot Ion: 41 Resp: 45302

Ion Ratio Lower Upper

41 100

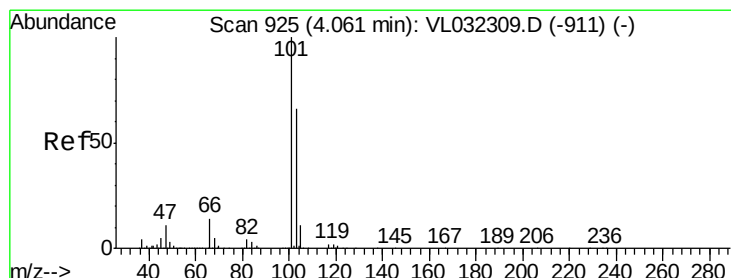
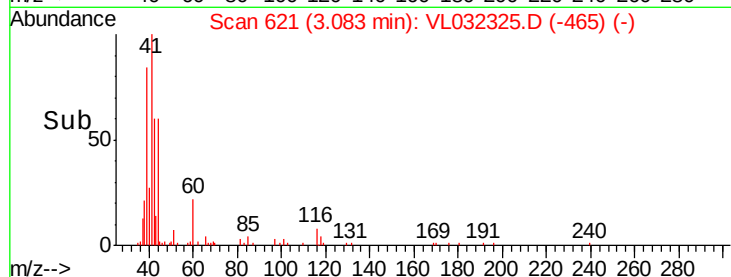
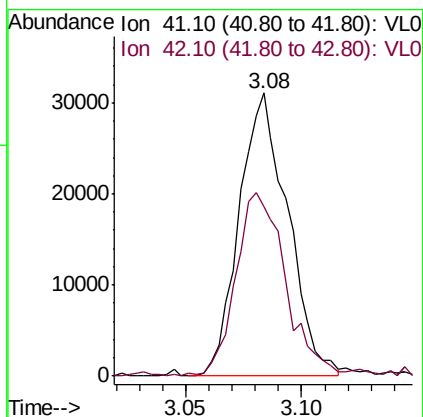
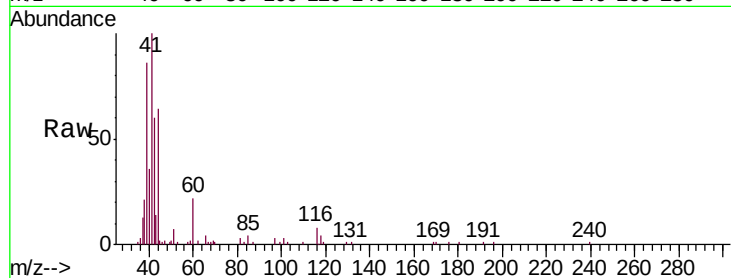
42 68.7 56.8 85.2

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#11

Trichlorofluoromethane

Concen: 4.31 ppbv

RT: 4.06 min Scan# 925

Delta R.T. -0.00 min

Lab File: VL032325.D

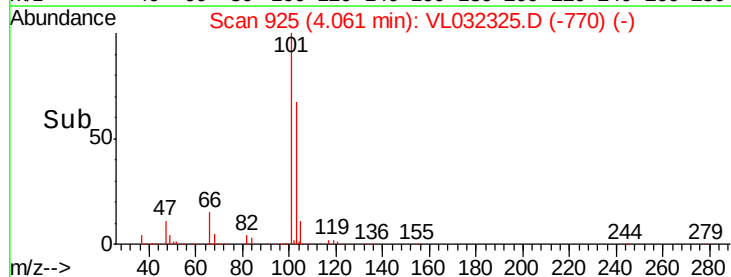
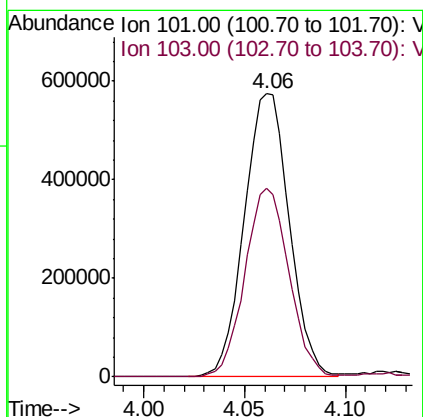
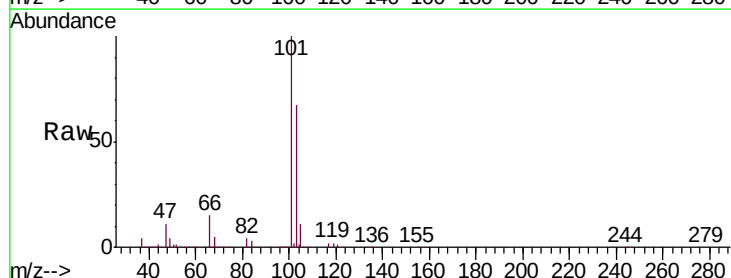
Acq: 27 Jul 2018 19:11

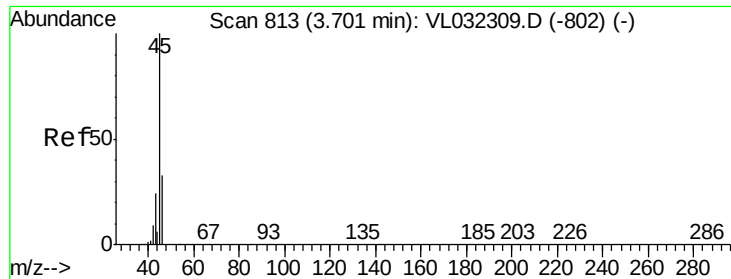
Tgt Ion: 101 Resp: 899156

Ion Ratio Lower Upper

101 100

103 66.5 52.6 78.8





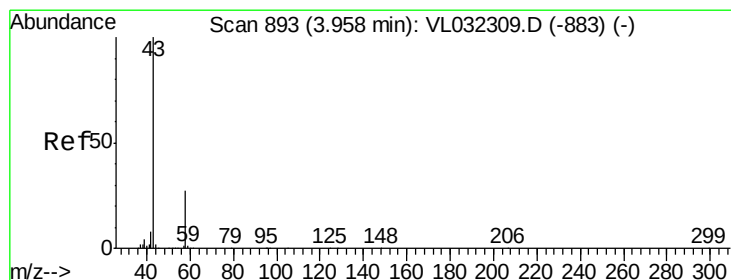
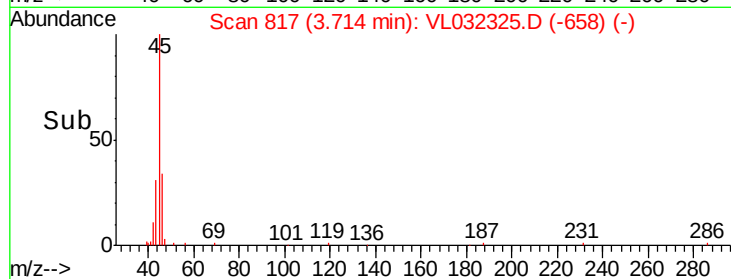
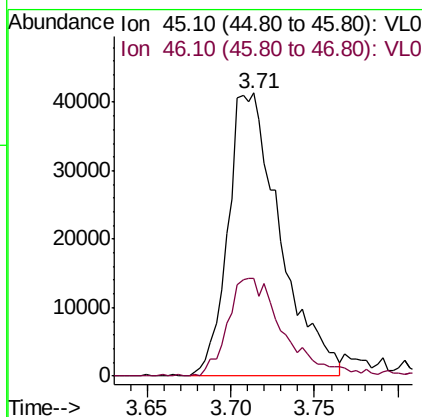
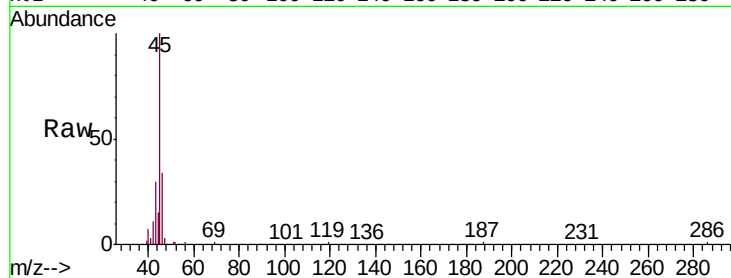
#13
Ethanol
Concen: 3.83 ppbv m
RT: 3.71 min Scan# 817
Delta R.T. 0.01 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

Tot Ion: 45 Resp: 89532
Ion Ratio Lower Upper
45 100
46 0.0 15.2 60.6#

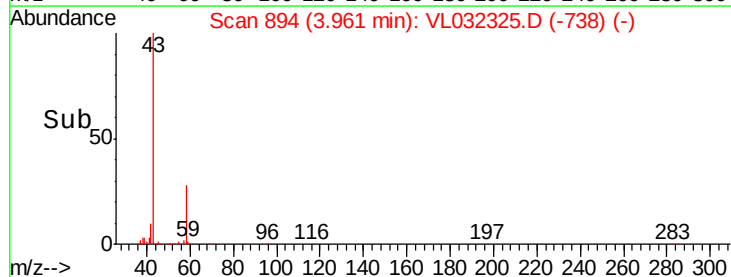
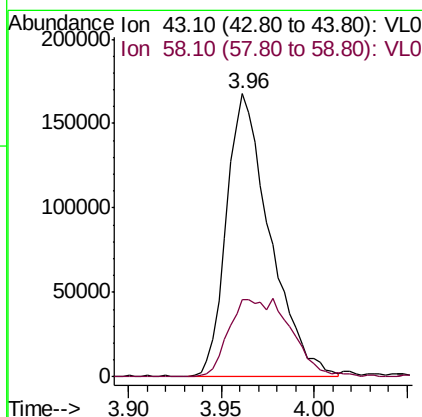
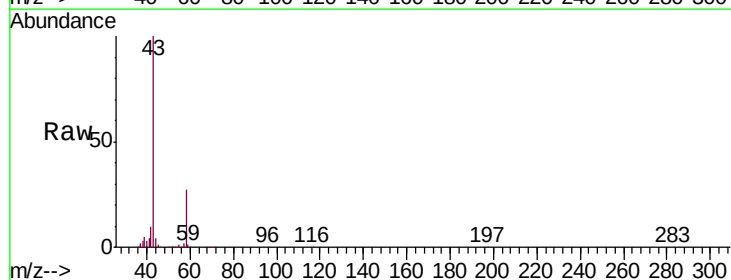
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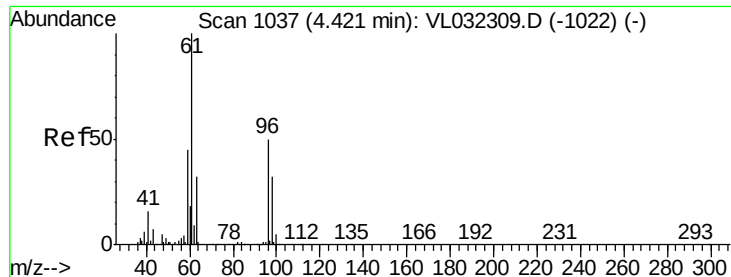
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#15
Acetone
Concen: 1.60 ppbv
RT: 3.96 min Scan# 894
Delta R.T. 0.00 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Tgt Ion: 43 Resp: 272671
Ion Ratio Lower Upper
43 100
58 39.9 22.5 33.7#





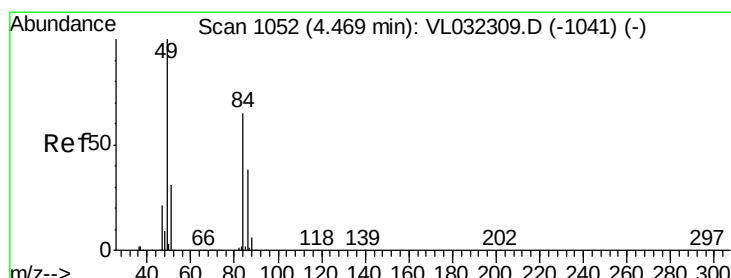
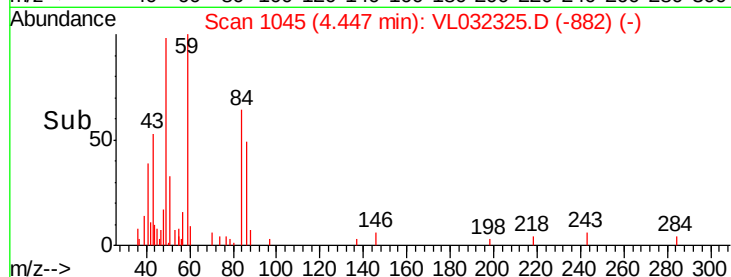
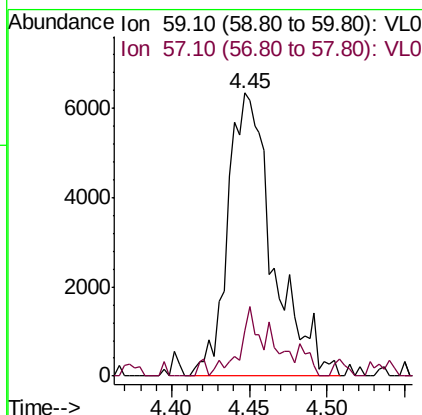
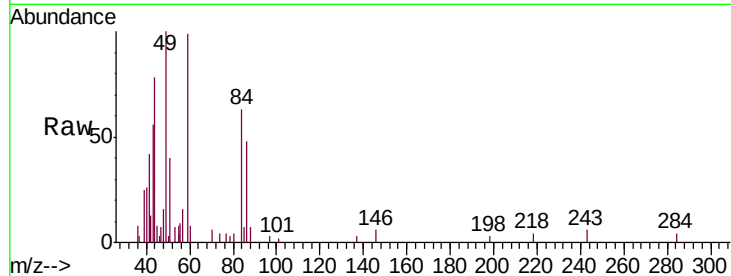
#17
 tert-Butyl alcohol
 Concen: 0.24 ppbv m
 RT: 4.45 min Scan# 1045
 Delta R.T. 0.03 min
 Lab File: VL032325.D
 Acq: 27 Jul 2018 19:11

Instrument :
 MSVOA_L
 ClientSampled :
 SG-3DL

Tot Ion: 59 Resp: 12819
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.0 12.0#

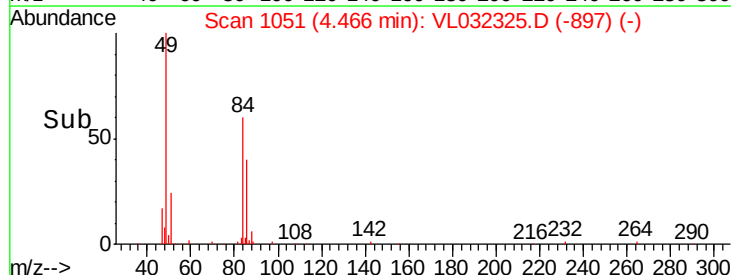
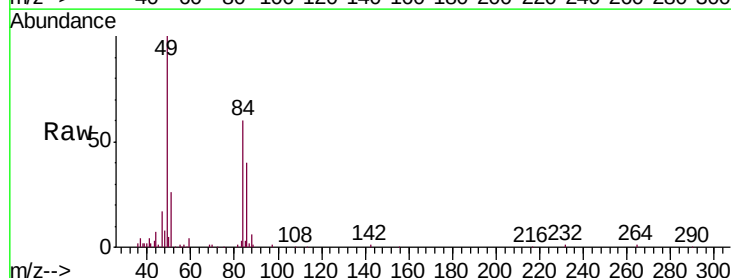
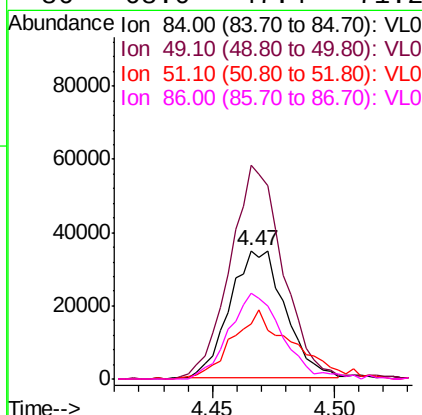
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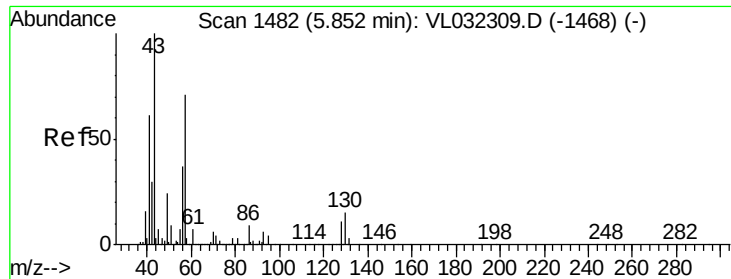
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#20
 Methylene Chloride
 Concen: 0.79 ppbv
 RT: 4.47 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VL032325.D
 Acq: 27 Jul 2018 19:11

Tgt Ion: 84 Resp: 54298
 Ion Ratio Lower Upper
 84 100
 49 165.4 123.4 185.0
 51 41.9 38.2 57.2
 86 68.0 47.4 71.2





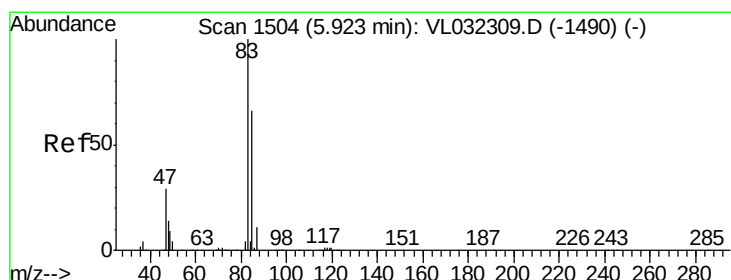
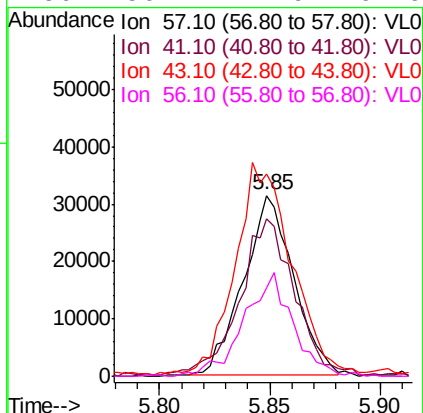
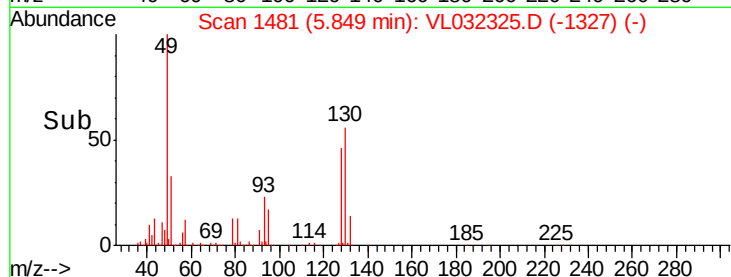
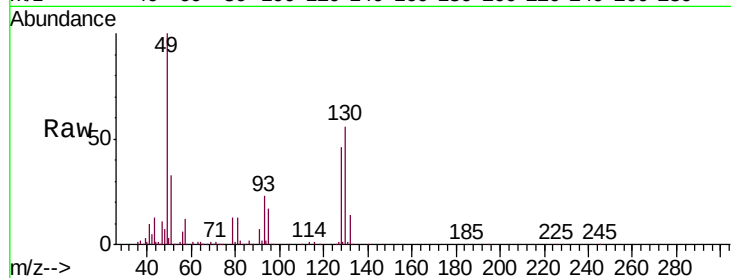
#26
Hexane
Concen: 0.29 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

Tot Ion	57	Resp	49457
Ion	Ratio	Lower	Upper
57	100		
41	97.9	68.1	102.1
43	130.7	177.4	266.2#
56	56.2	41.9	62.9

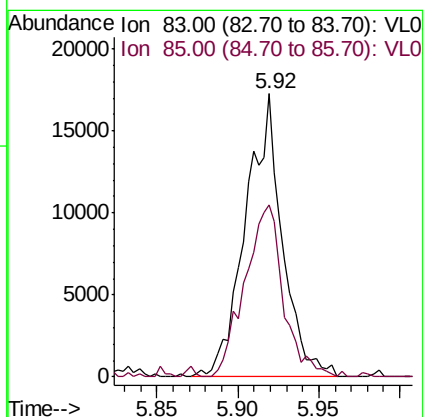
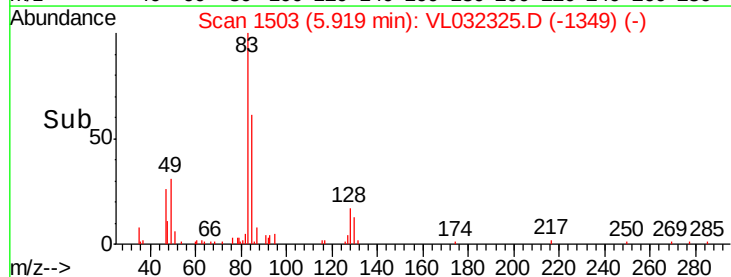
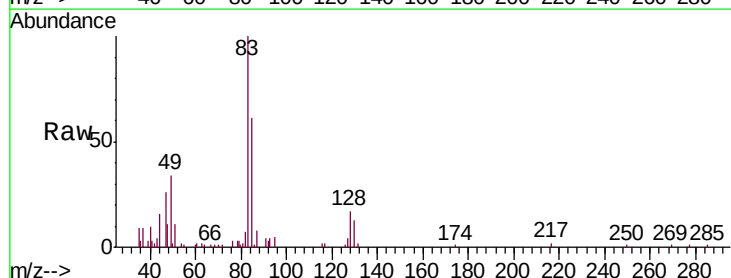
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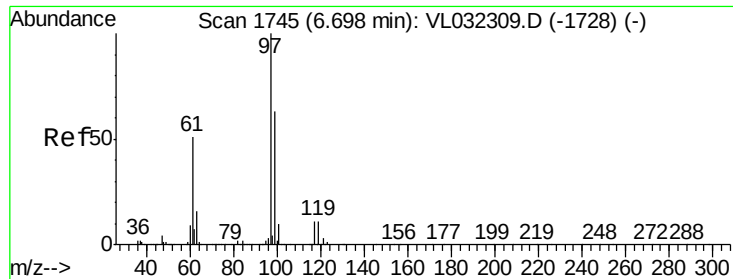
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#29
Chloroform
Concen: 0.11 ppbv m
RT: 5.92 min Scan# 1503
Delta R.T. -0.00 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Tgt Ion	83	Resp	27385
Ion	Ratio	Lower	Upper
83	100		
85	60.9	52.9	79.3





#32

1,1,1-Trichloroethane

Concen: 0.06 ppbv m

RT: 6.70 min Scan# 1745

Delta R.T. -0.00 min

Lab File: VL032325.D

Acq: 27 Jul 2018 19:11

Instrument :

MSVOA_L

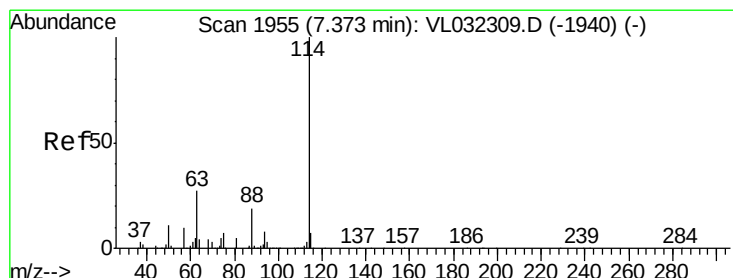
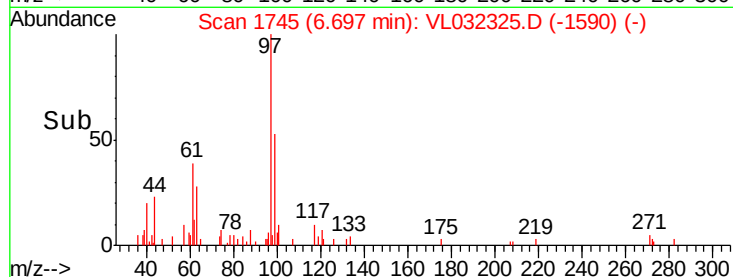
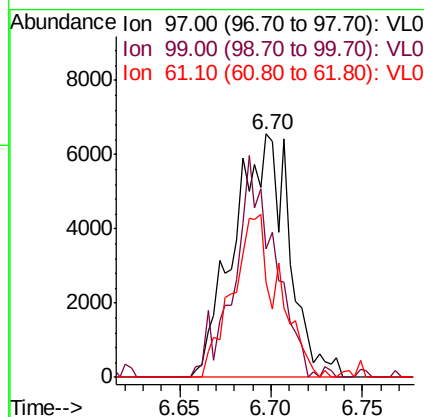
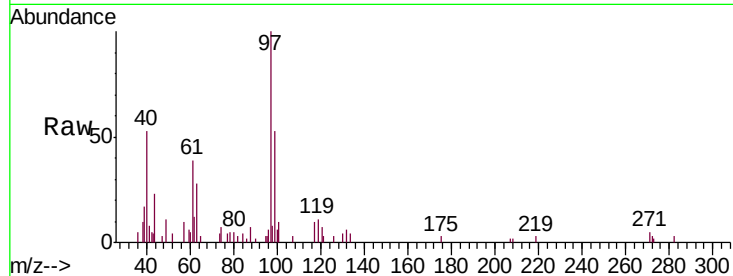
ClientSampled :

SG-3DL

Tot Ion:	97	Resp:	13775
Ion Ratio	Lower	Upper	
97	100		
99	67.3	50.9	76.3
61	0.0	41.8	62.6#

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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

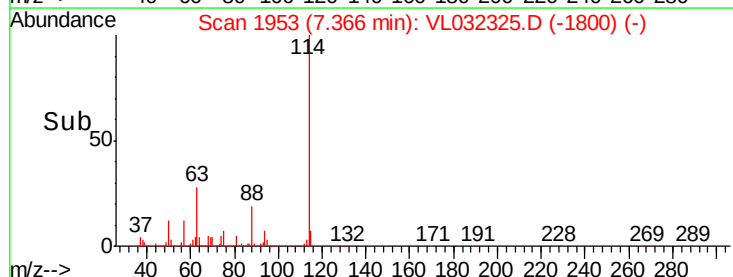
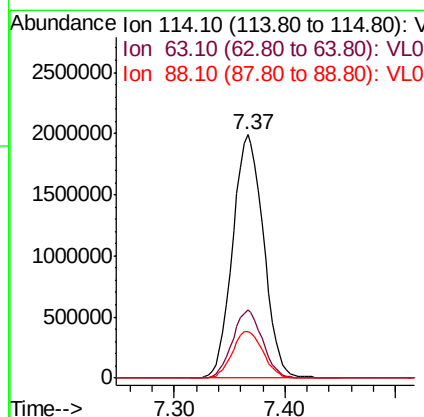
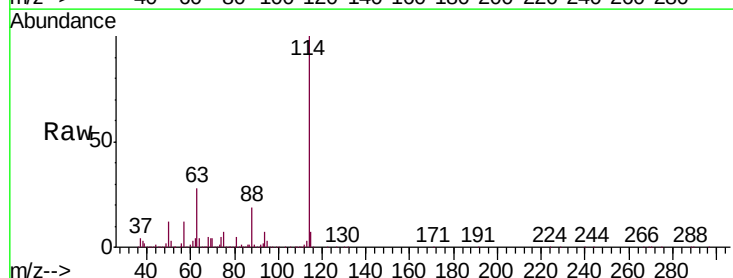
RT: 7.37 min Scan# 1953

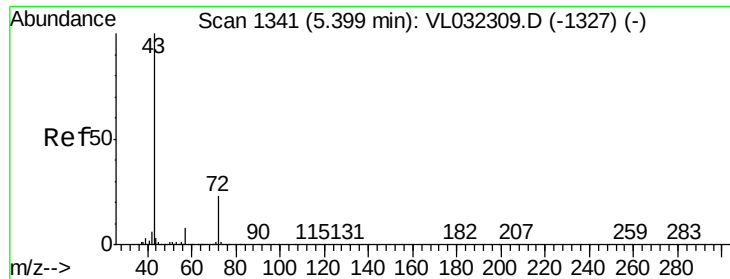
Delta R.T. -0.01 min

Lab File: VL032325.D

Acq: 27 Jul 2018 19:11

Tgt Ion:	114	Resp:	3857147
Ion Ratio	Lower	Upper	
114	100		
63	27.3	22.4	33.6
88	19.2	15.3	22.9





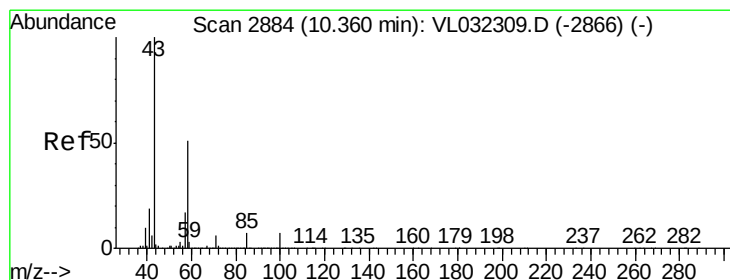
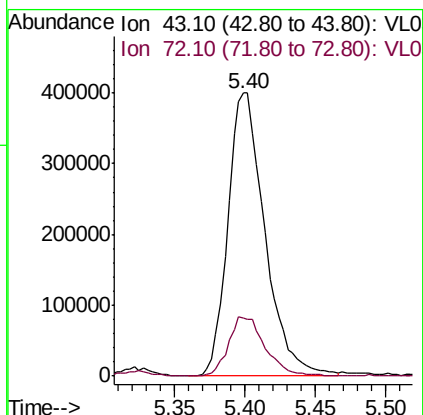
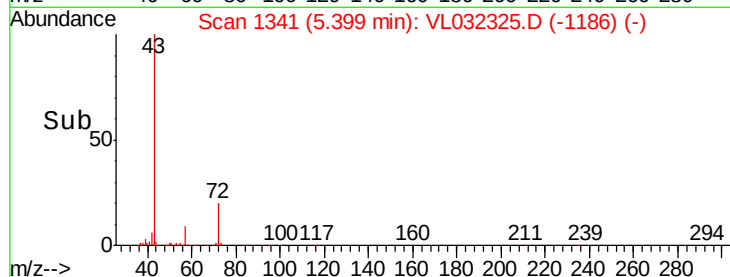
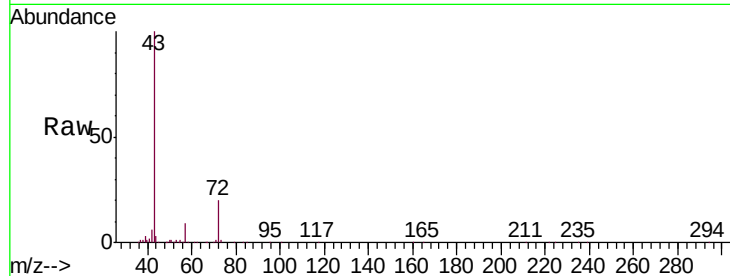
#34
2-Butanone
Concen: 2.94 ppbv
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Instrument :
MSVOA_L
ClientSampled :
SG-3DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.4	26.2

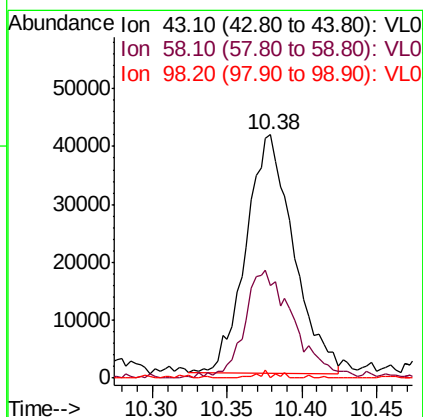
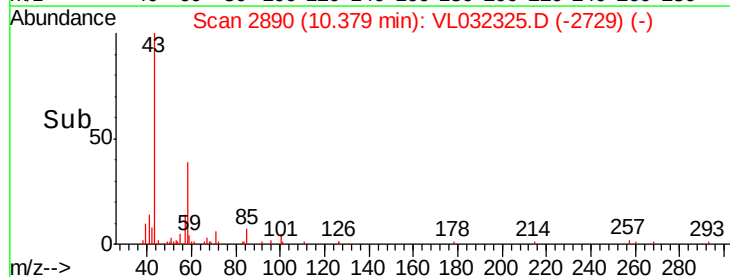
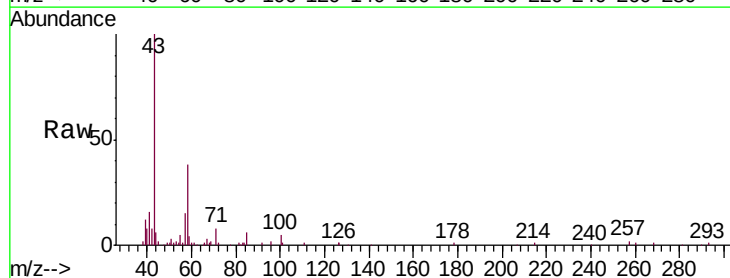
Manual Integrations
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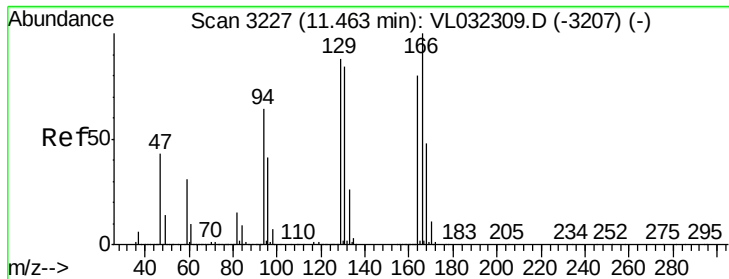
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#51
2-Hexanone
Concen: 0.27 ppbv
RT: 10.38 min Scan# 2890
Delta R.T. 0.02 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.6	39.1	58.7
98	1.0	0.3	0.5#





#52

Tetrachloroethene

Concen: 0.10 ppbv m

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VL032325.D

Acq: 27 Jul 2018 19:11

Instrument :

MSVOA_L

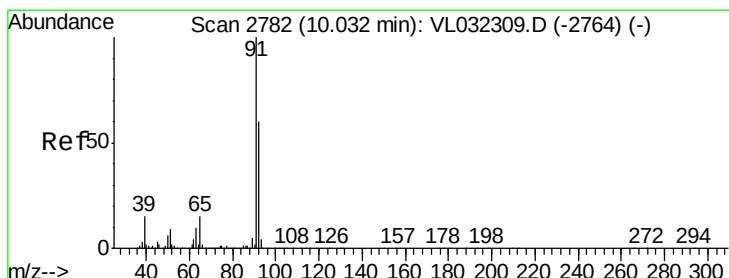
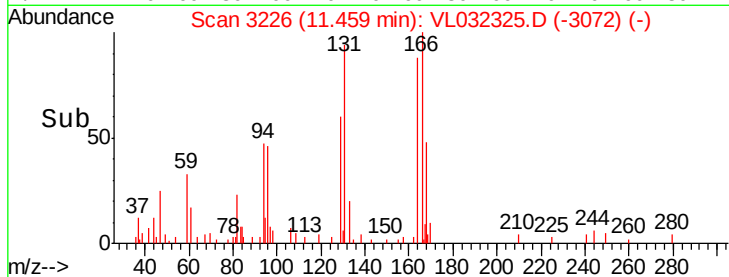
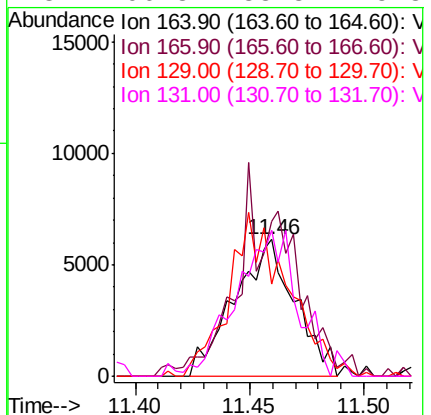
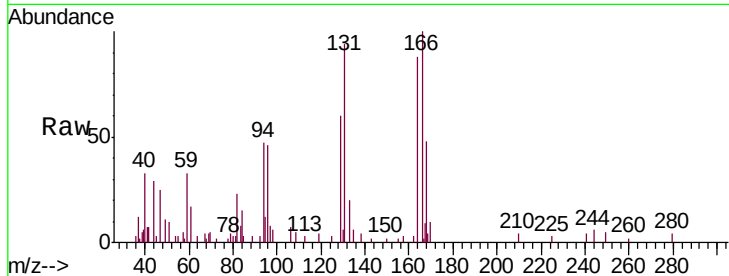
ClientSampled :

SG-3DL

Tot Ion:	164	Resp:	11340
Ion Ratio	Lower	Upper	
164	100		
166	113.1	100.0	150.0
129	67.5	87.9	131.9#
131	106.8	83.8	125.8

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#53

Toluene

Concen: 0.43 ppbv

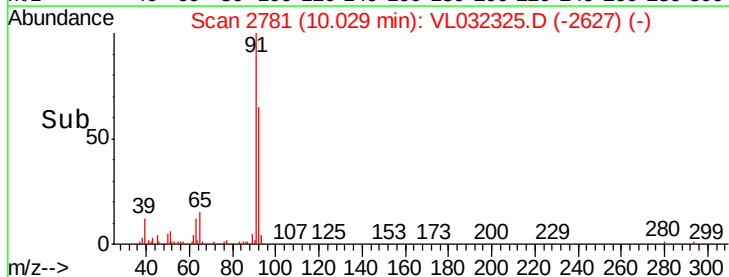
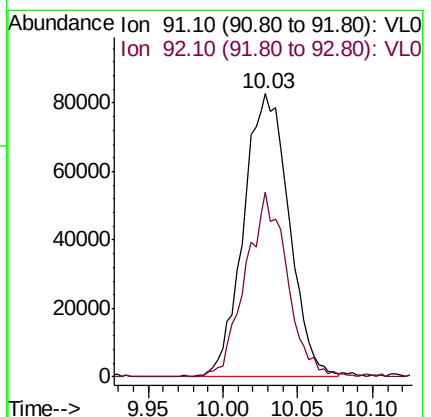
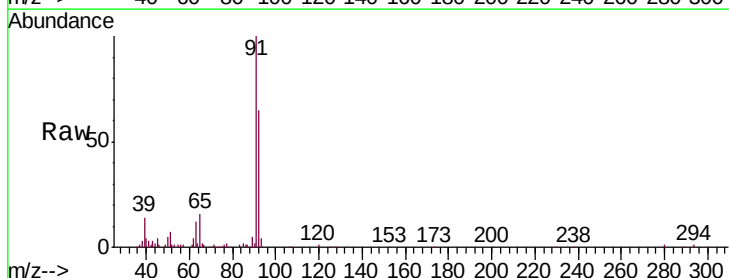
RT: 10.03 min Scan# 2781

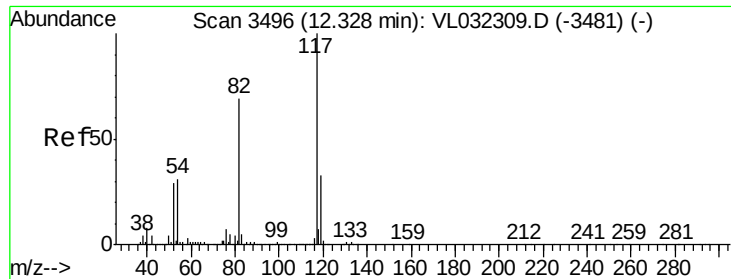
Delta R.T. -0.00 min

Lab File: VL032325.D

Acq: 27 Jul 2018 19:11

Tgt Ion:	91	Resp:	174213
Ion Ratio	Lower	Upper	
91	100		
92	60.4	48.6	72.8





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.32 min Scan# 3495

Delta R.T. -0.00 min

Lab File: VL032325.D

Acq: 27 Jul 2018 19:11

Instrument :

MSVOA_L

ClientSampled :

SG-3DL

Tot Ion:117 Resp: 4384549

Ion Ratio Lower Upper

117 100

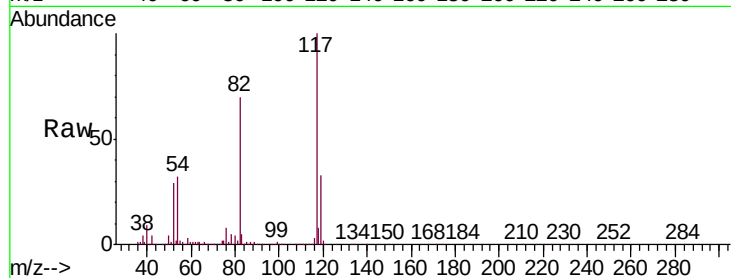
82 68.6 52.6 78.8

119 32.5 25.7 38.5

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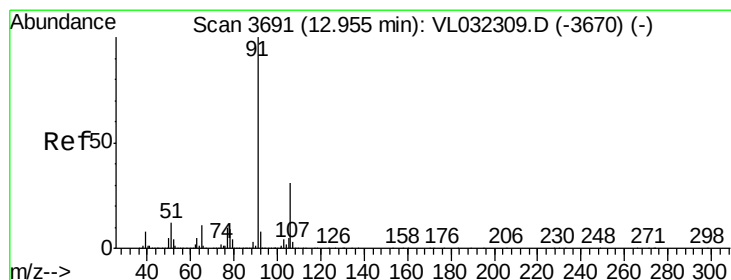
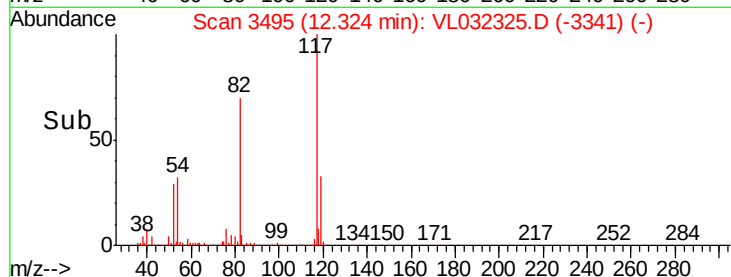
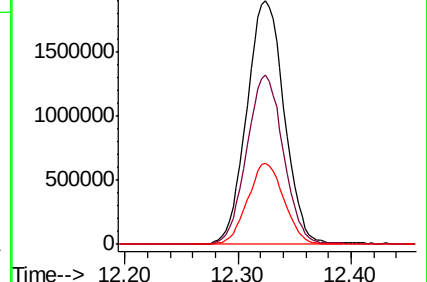
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.23 ppbv m

RT: 12.95 min Scan# 3690

Delta R.T. -0.00 min

Lab File: VL032325.D

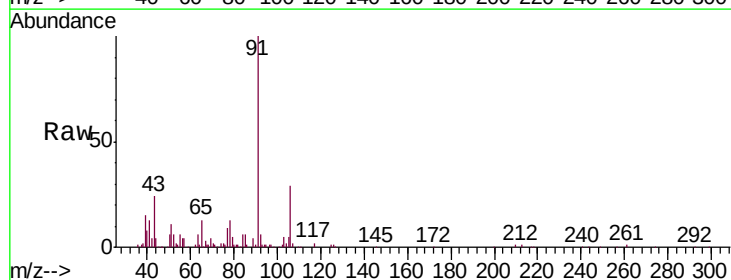
Acq: 27 Jul 2018 19:11

Tgt Ion: 91 Resp: 126867

Ion Ratio Lower Upper

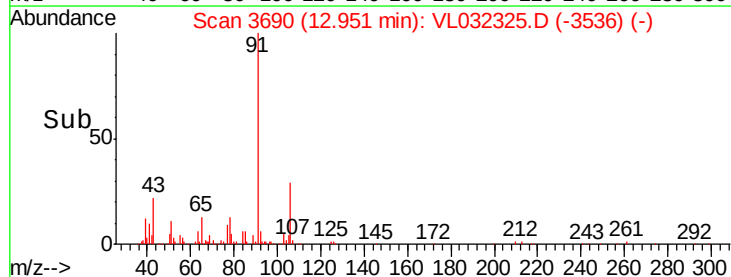
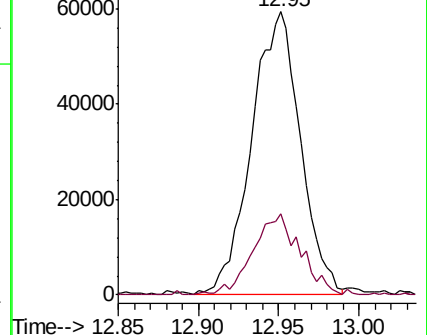
91 100

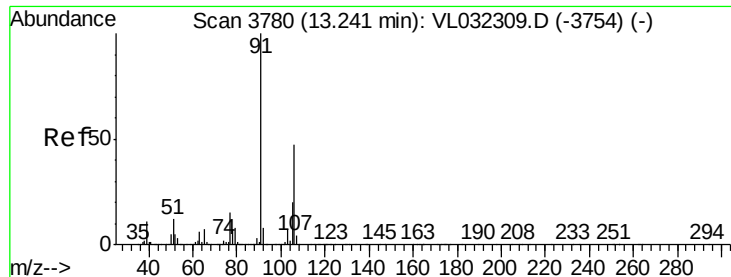
106 28.6 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





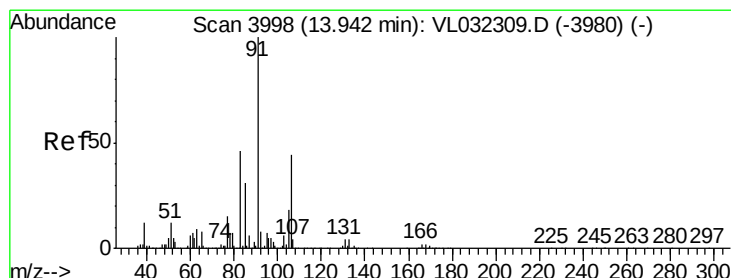
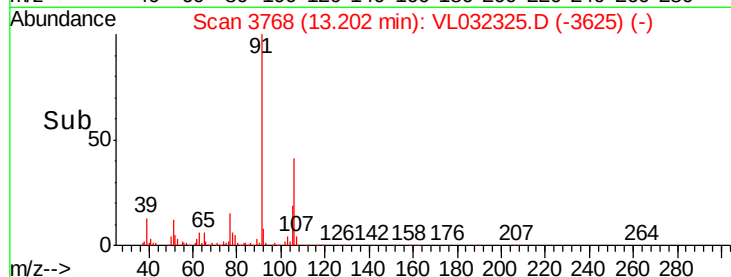
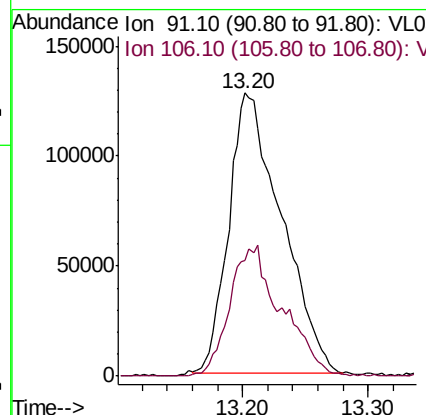
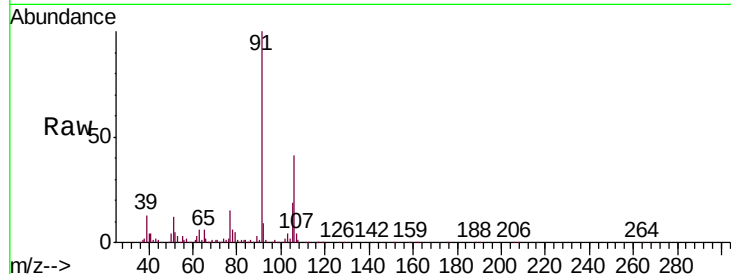
#59
m/p-Xylene
Concen: 0.80 ppbv
RT: 13.20 min Scan# 3768
Delta R.T. -0.04 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Instrument :
MSVOA_L
ClientSampled :
SG-3DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.5	36.4	54.6

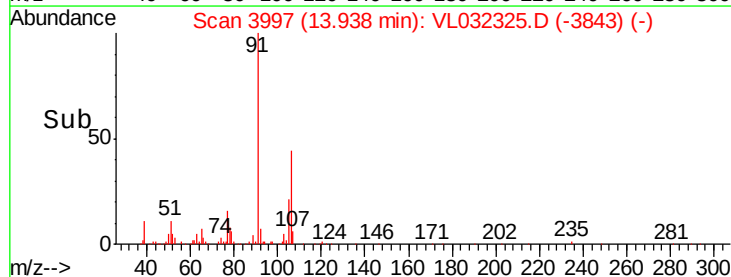
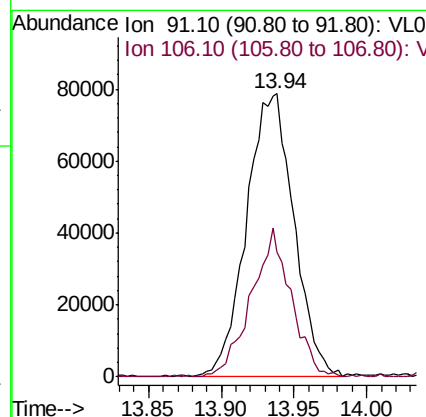
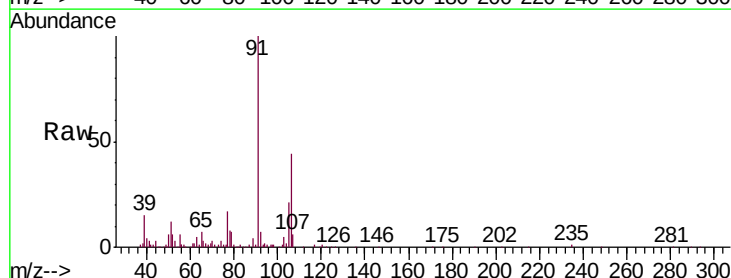
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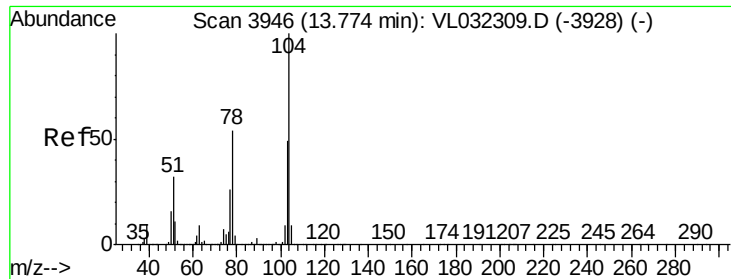
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#60
o-Xylene
Concen: 0.39 ppbv m
RT: 13.94 min Scan# 3997
Delta R.T. -0.00 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.3	22.4	67.0





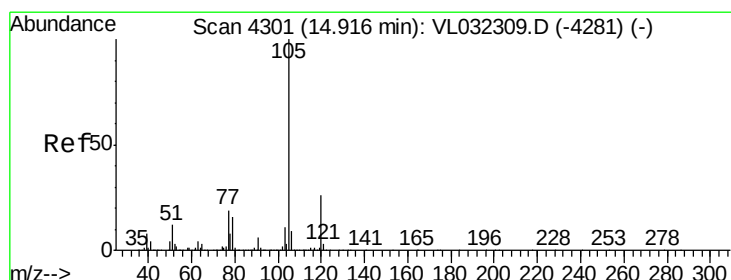
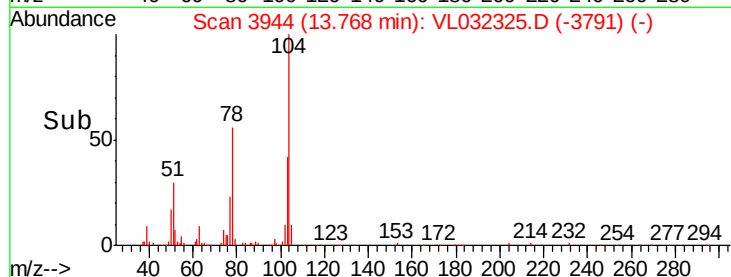
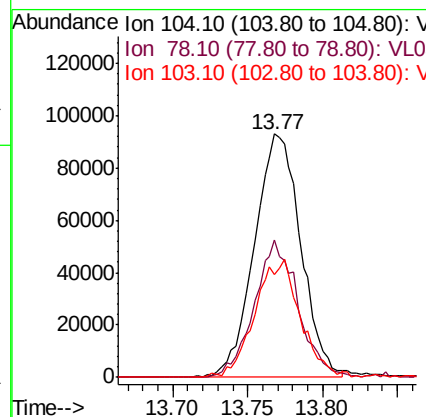
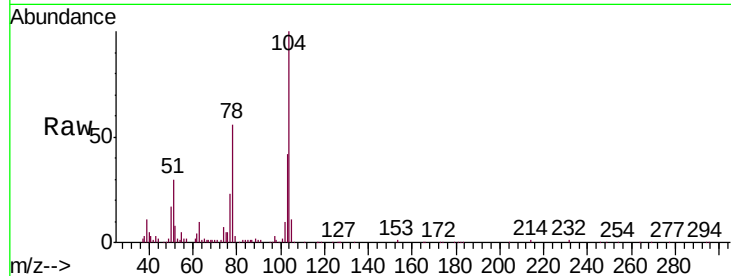
#61
Stvrene
Concen: 0.59 ppbv
RT: 13.77 min Scan# 3944
Delta R.T. -0.01 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Instrument :
MSVOA_L
ClientSampleId :
SG-3DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.6	63.8
103	47.8	38.0	57.0

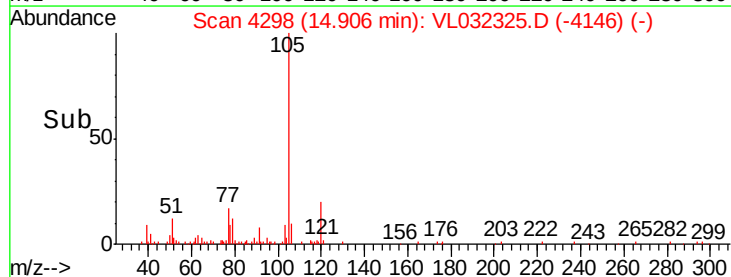
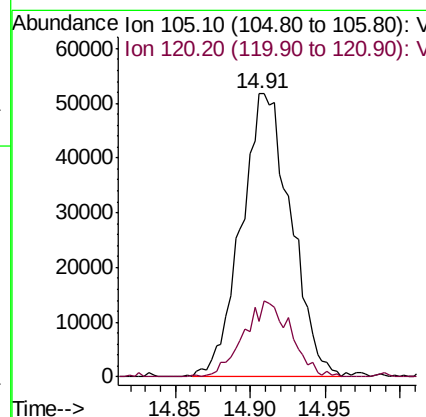
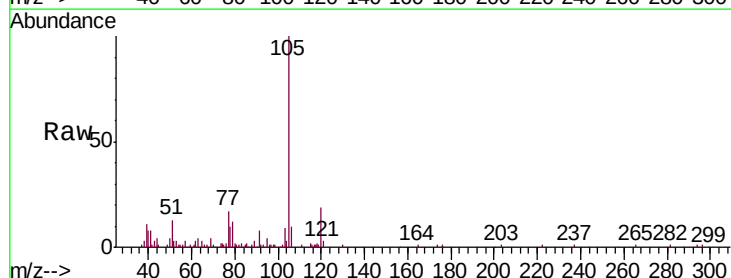
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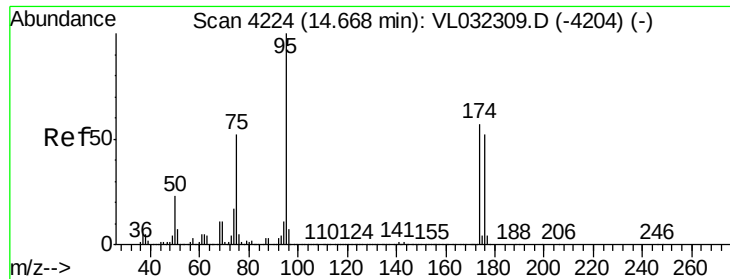
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#62
Isopropylbenzene
Concen: 0.18 ppbv m
RT: 14.91 min Scan# 4298
Delta R.T. -0.01 min
Lab File: VL032325.D
Acq: 27 Jul 2018 19:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	20.4	30.6#





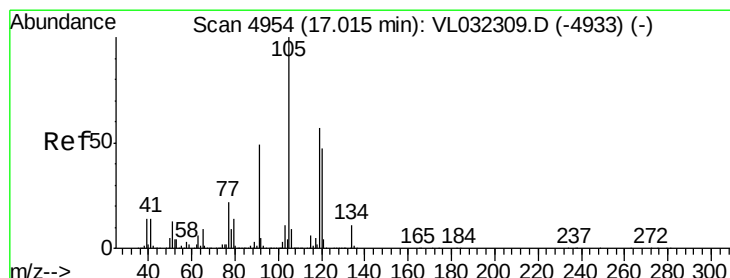
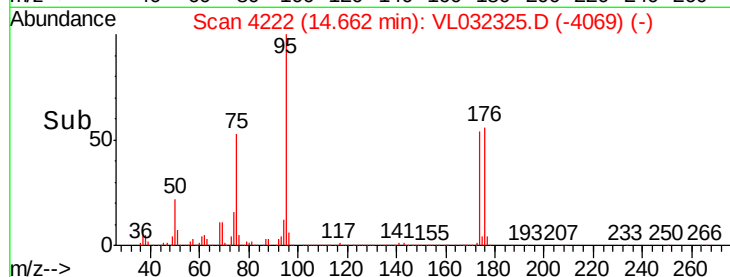
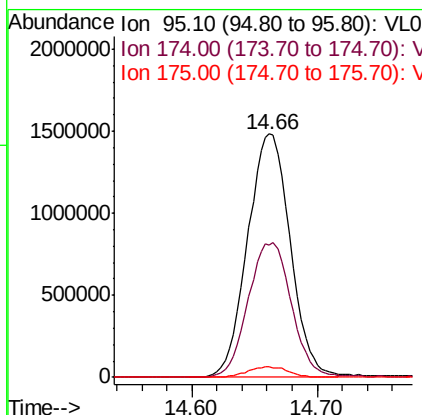
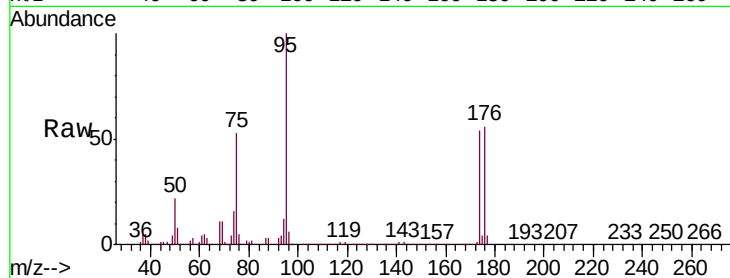
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.28 ppbv
 RT: 14.66 min Scan# 4222
 Delta R.T. -0.01 min
 Lab File: VL032325.D
 Acq: 27 Jul 2018 19:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3DL

Tot Ion: 95 Resp: 3497547
 Ion Ratio Lower Upper
 95 100
 174 57.1 45.5 68.3
 175 4.3 3.3 4.9

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.18 ppbv m
 RT: 17.01 min Scan# 4952
 Delta R.T. -0.01 min
 Lab File: VL032325.D
 Acq: 27 Jul 2018 19:11

Tgt Ion: 105 Resp: 93633
 Ion Ratio Lower Upper
 105 100
 120 28.6 37.8 56.6#
 91 11.6 39.4 59.0#
 77 10.0 17.6 26.4#

