

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032414.D
 Acq On : 20 Aug 2018 21:22
 Operator : SY/AP
 Sample : J4472-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

Manual Integrations
 APPROVED

MMDadoda
 8/22/2018 10:50:36 AM

Quant Time: Aug 22 09:41:10 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	5.81	49	1749155	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3313952	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3294448	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.64	95	2537521	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.21	50	12784	0.13	ppbv	91
9) Propene	3.07	41	57632	0.83	ppbv	98
11) Trichlorofluoromethane	4.05	101	69037	0.35	ppbv	94
13) Ethanol	3.70	45	56647	3.18	ppbv	96
15) Acetone	3.95	43	323660	1.95	ppbv	99
19) Isopropyl Alcohol	4.08	45	195297	1.75	ppbv #	96
26) Hexane	5.83	57	16230m	0.10	ppbv	
34) 2-Butanone	5.39	43	101724	0.45	ppbv	100
38) Trichloroethene	8.02	130	6029m	0.06	ppbv	
52) Tetrachloroethene	11.44	164	8154m	0.10	ppbv	
53) Toluene	10.01	91	53862m	0.17	ppbv	
76) 1,4-Dichlorobenzene	17.37	146	963724	4.48	ppbv	100

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

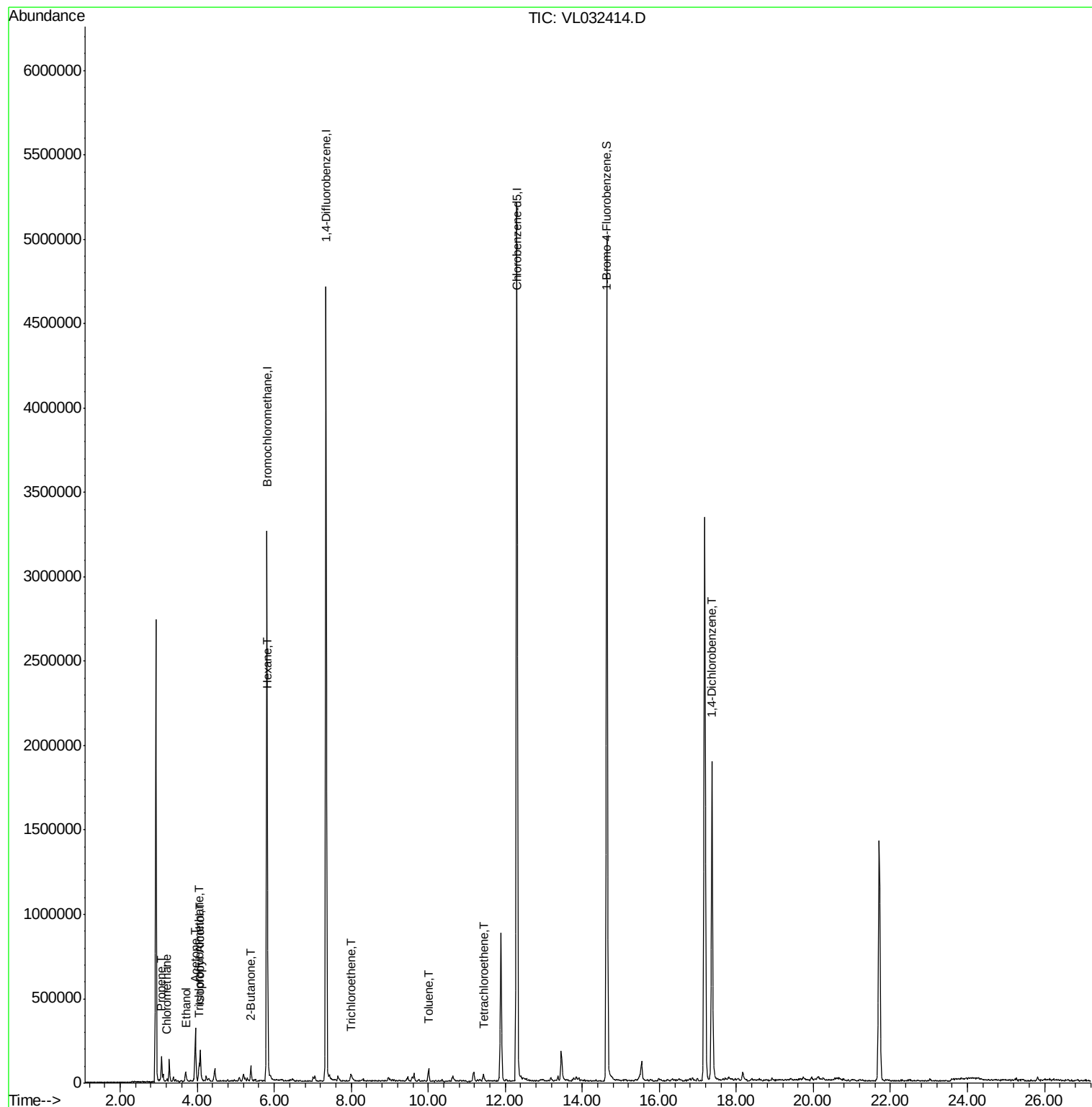
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL082018\
Data File : VL032414.D
Acq On : 20 Aug 2018 21:22
Operator : SY/AP
Sample : J4472-02DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

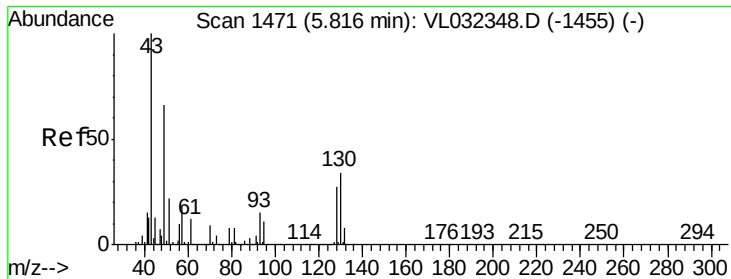
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

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8/22/2018 10:50:36 AM

Quant Time: Aug 22 09:41:10 2018
Quant Method : Z:\V0ASRV\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: 10.00 ppbv

RT: 5.81 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

ClientSampleID :

SS-2DL

Tot Ion: 49 Resp: 1749155

Ion Ratio Lower Upper

49 100

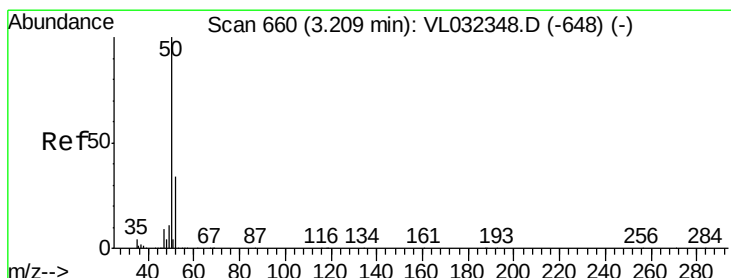
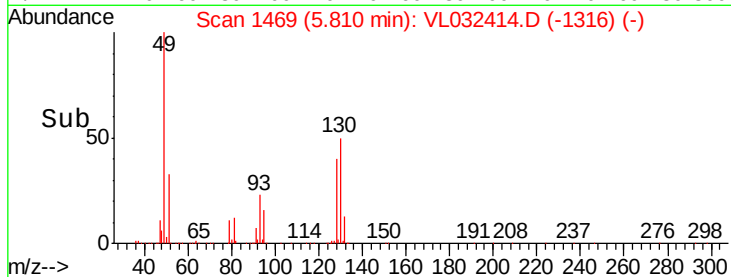
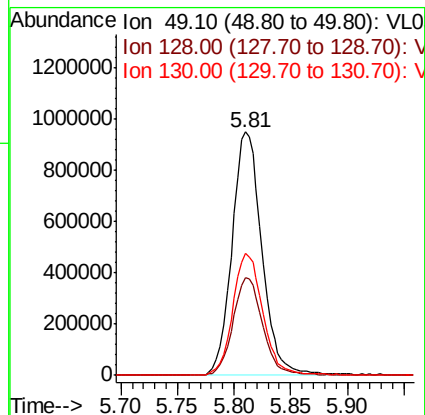
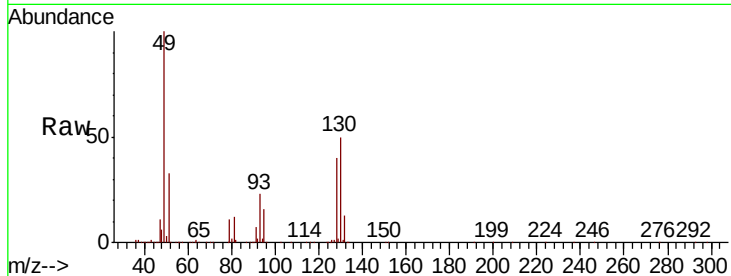
128 39.8 20.5 61.6

130 50.8 26.2 78.5

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#4

Chloromethane

Concen: 0.13 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032414.D

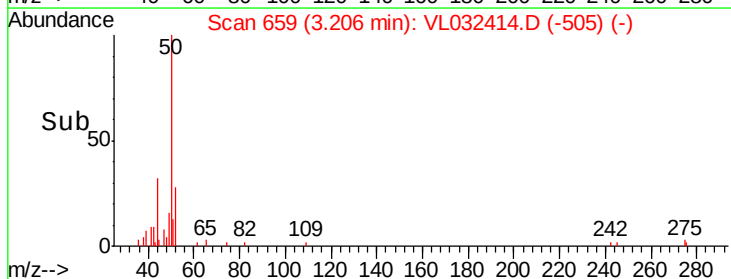
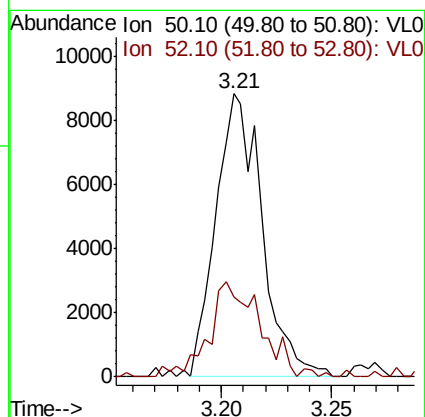
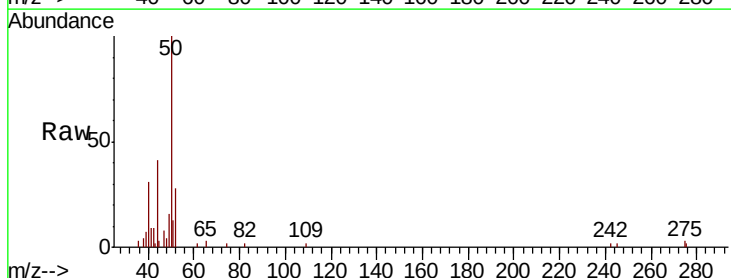
Acq: 20 Aug 2018 21:22

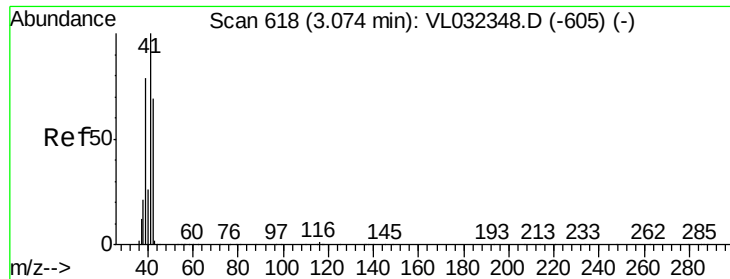
Tgt Ion: 50 Resp: 12784

Ion Ratio Lower Upper

50 100

52 28.1 26.8 40.2





#9

Propene

Concen: 0.83 ppbv

RT: 3.07 min Scan# 618

Delta R.T. -0.00 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

Tot Ion: 41 Resp: 57632

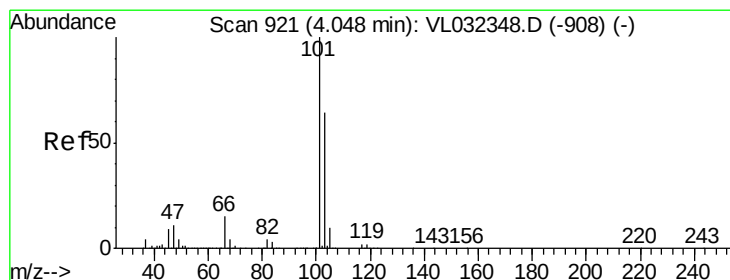
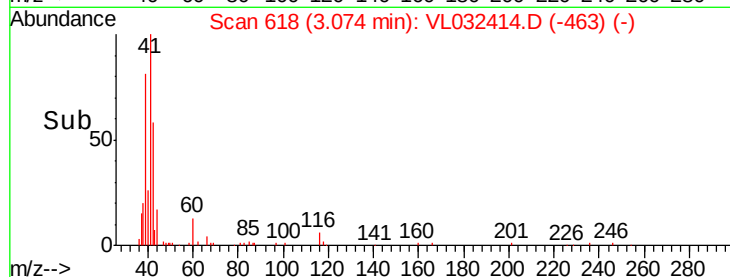
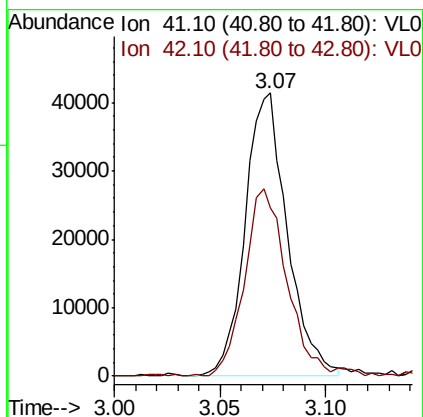
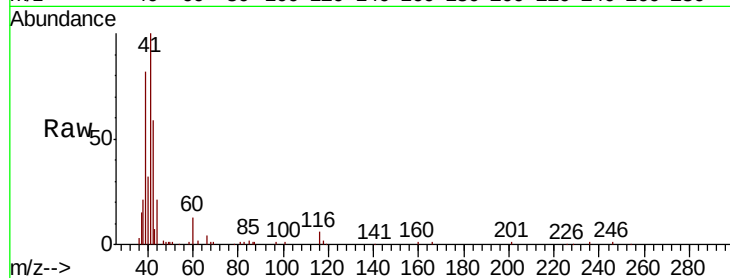
Ion Ratio Lower Upper

41 100

42 68.2 55.9 83.9

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#11

Trichlorofluoromethane

Concen: 0.35 ppbv

RT: 4.05 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL032414.D

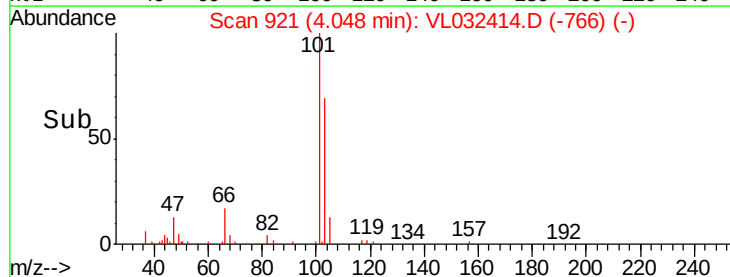
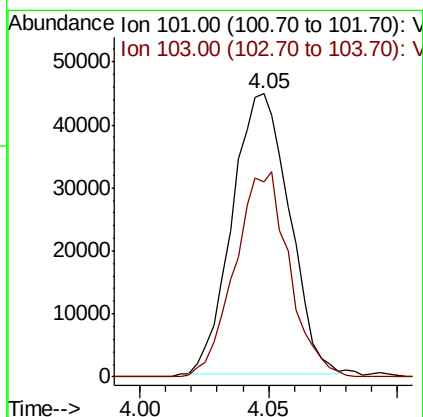
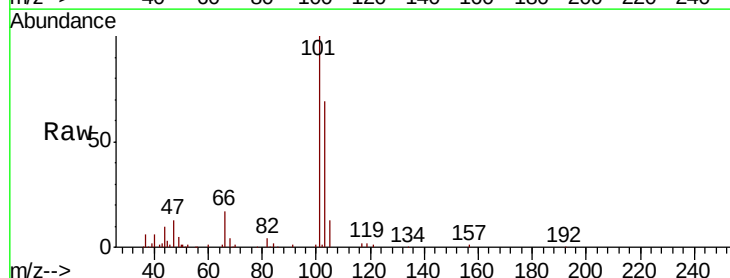
Acq: 20 Aug 2018 21:22

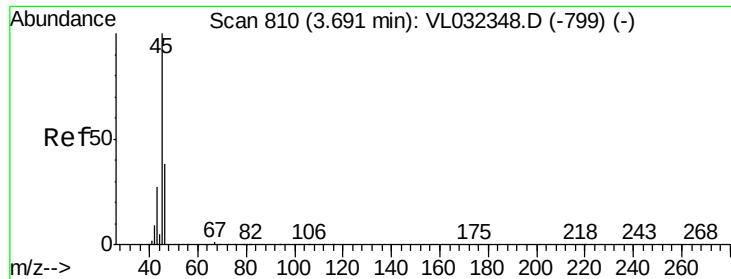
Tgt Ion: 101 Resp: 69037

Ion Ratio Lower Upper

101 100

103 69.3 51.4 77.0





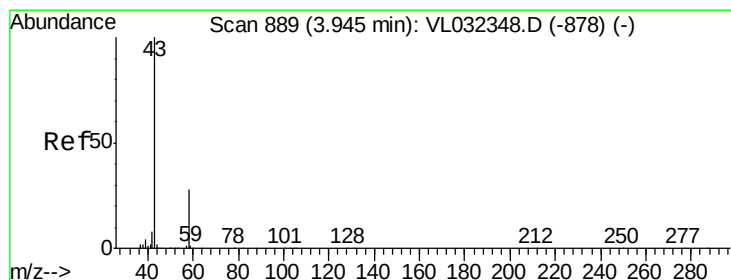
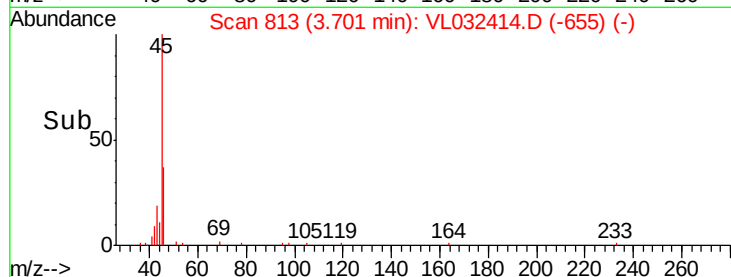
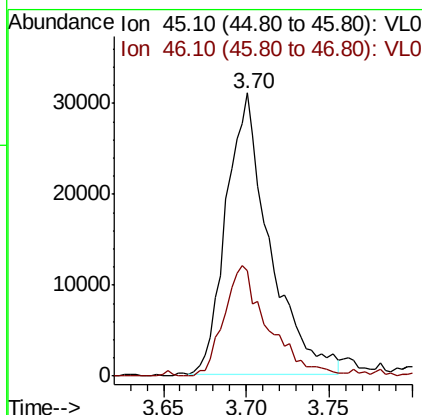
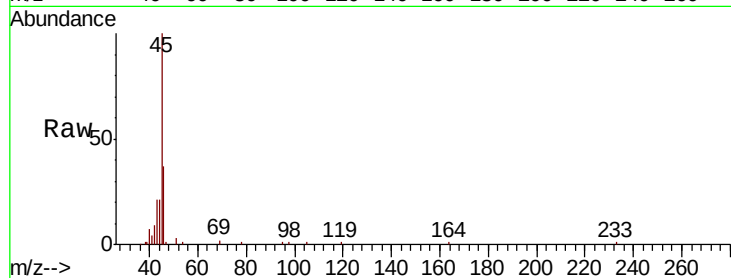
#13
Ethanol
Concen: 3.18 ppbv
RT: 3.70 min Scan# 813
Delta R.T. 0.01 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Tot Ion	45	Resp	56647
Ion Ratio	100	Lower	Upper
46	41.5	15.6	62.4

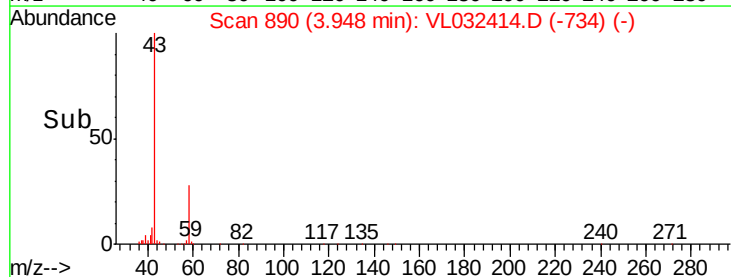
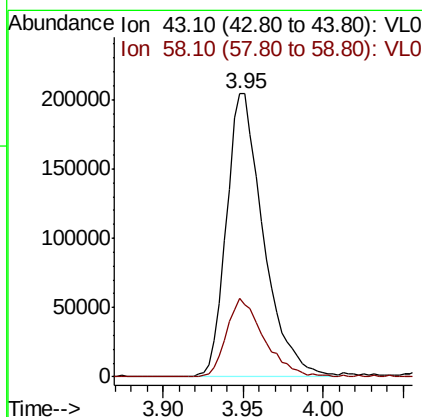
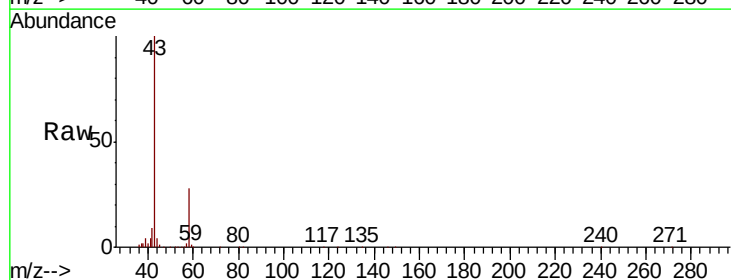
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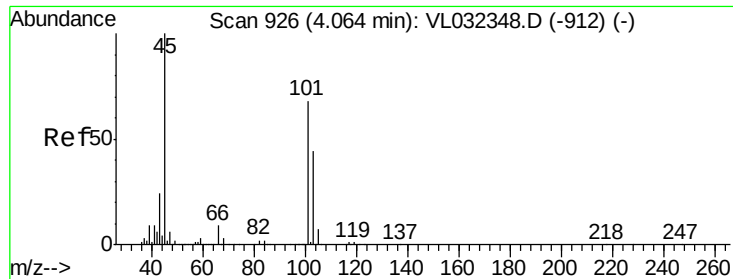
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#15
Acetone
Concen: 1.95 ppbv
RT: 3.95 min Scan# 890
Delta R.T. 0.00 min
Lab File: VL032414.D
Acq: 20 Aug 2018 21:22

Tgt Ion	43	Resp	323660
Ion Ratio	100	Lower	Upper
58	28.3	22.4	33.6





#19

Isopropyl Alcohol

Concen: 1.75 ppbv

RT: 4.08 min Scan# 930

Delta R.T. 0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

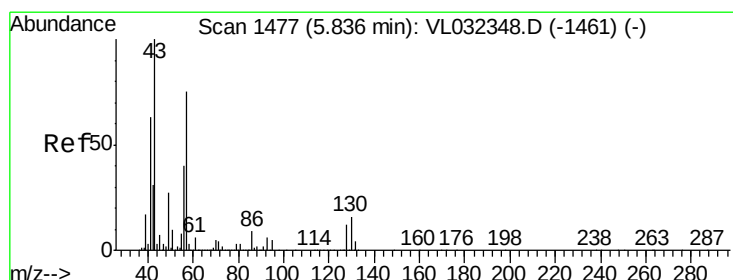
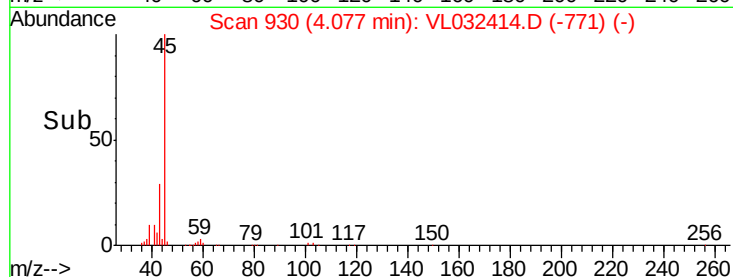
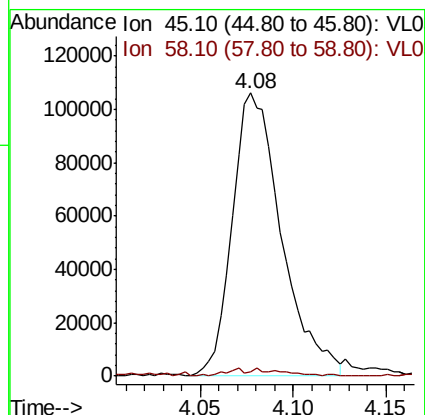
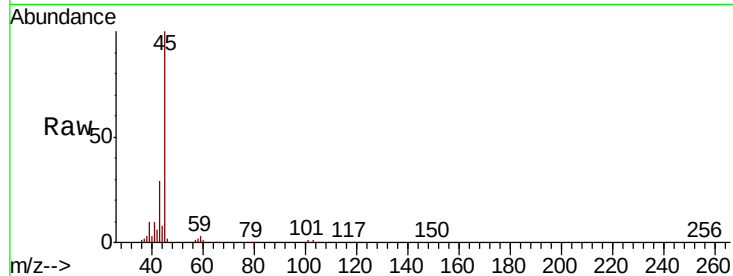
Tot Ion: 45 Resp: 195297
Ion Ratio Lower Upper

45 100

58 3.3 1.4 2.0#

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#26

Hexane

Concen: 0.10 ppbv m

RT: 5.83 min Scan# 1476

Delta R.T. -0.00 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

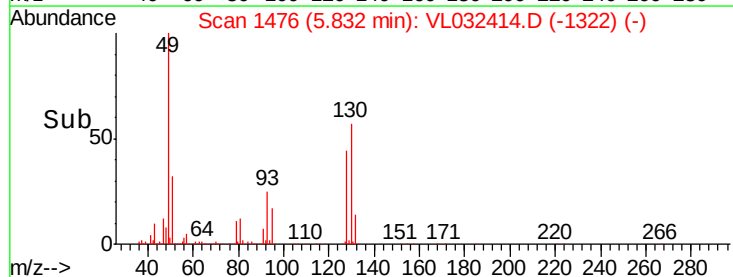
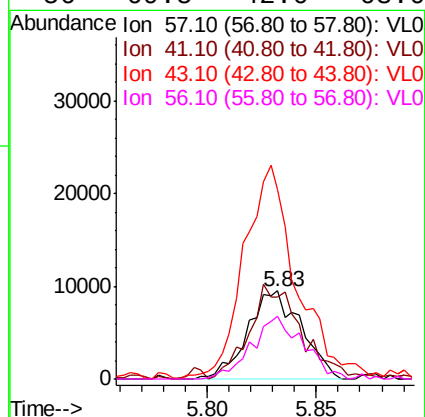
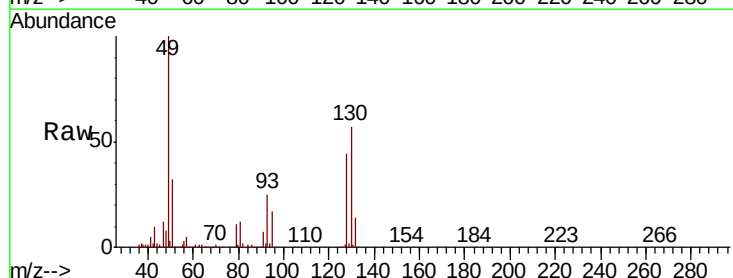
Tgt Ion: 57 Resp: 16230
Ion Ratio Lower Upper

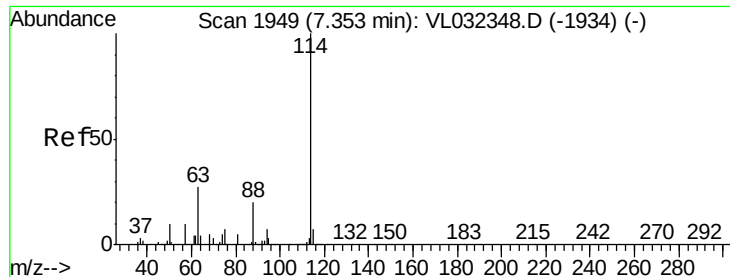
57 100

41 111.7 68.0 102.0#

43 241.7 175.3 262.9

56 69.5 42.0 63.0#





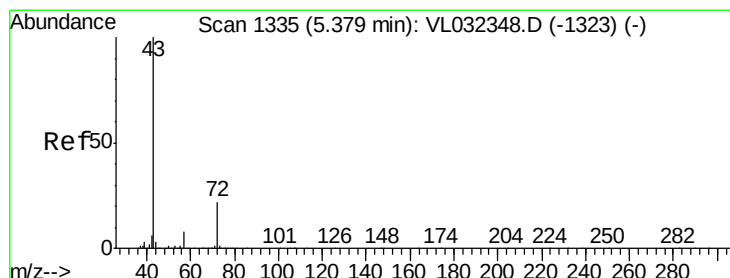
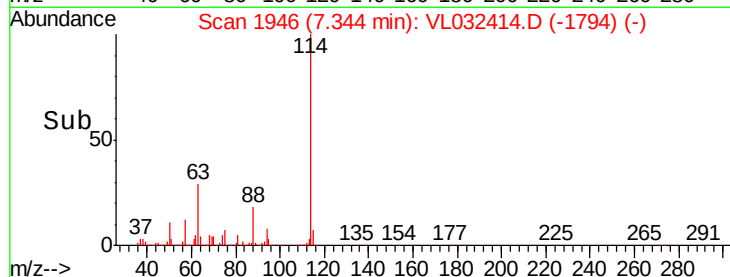
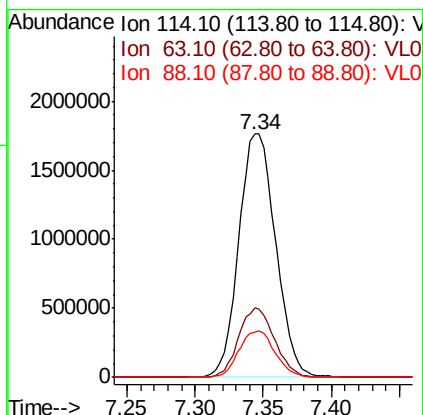
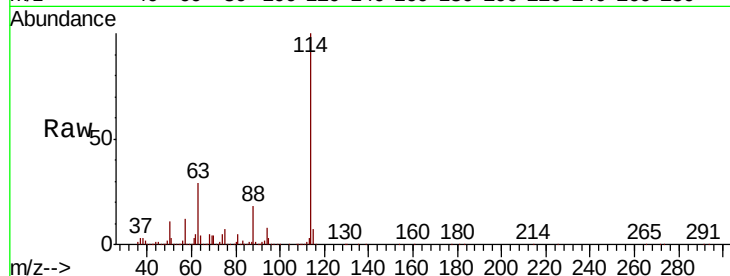
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1946
 Delta R.T. -0.01 min
 Lab File: VL032414.D
 Acq: 20 Aug 2018 21:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.0	33.0
88	18.7	15.3	22.9

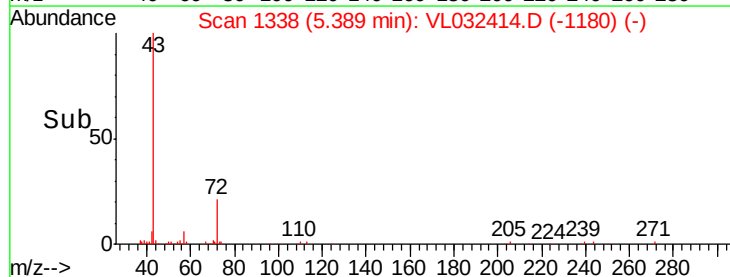
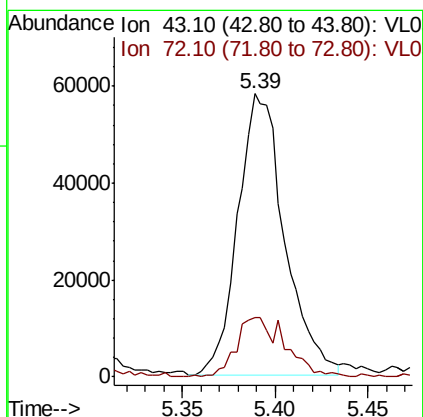
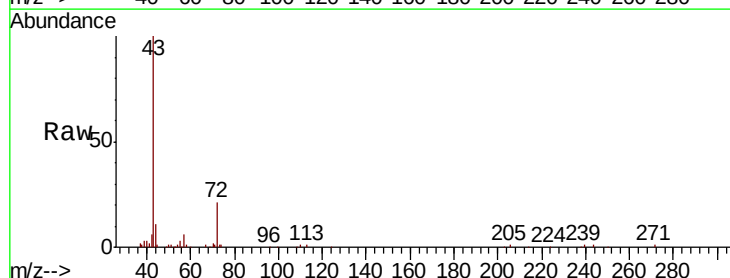
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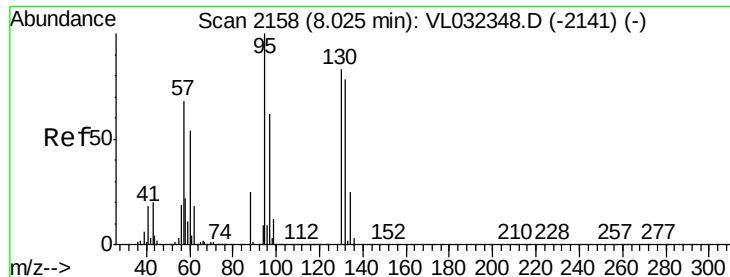
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#34
 2-Butanone
 Concen: 0.45 ppbv
 RT: 5.39 min Scan# 1338
 Delta R.T. 0.01 min
 Lab File: VL032414.D
 Acq: 20 Aug 2018 21:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.9	26.9





#38

Trichloroethene

Concen: 0.06 ppbv m

RT: 8.02 min Scan# 2155

Delta R.T. -0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

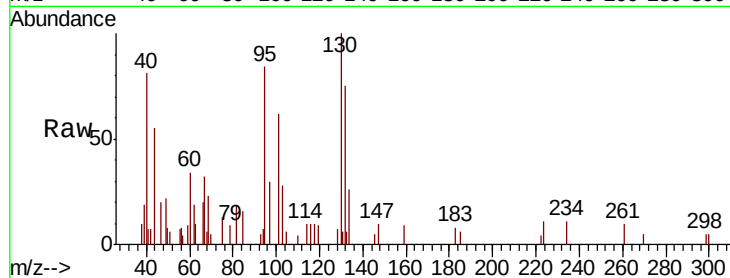
ClientSampled :

SS-2DL

Tot Ion:	130	Resp:	6029
Ion Ratio	Lower	Upper	
130	100		
95	83.6	96.6	144.8#
132	74.5	75.5	113.3#
97	30.1	59.8	89.6#

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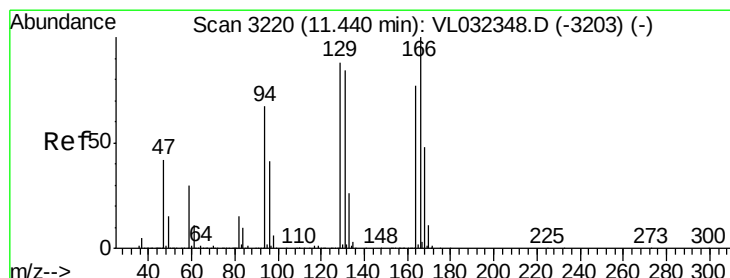
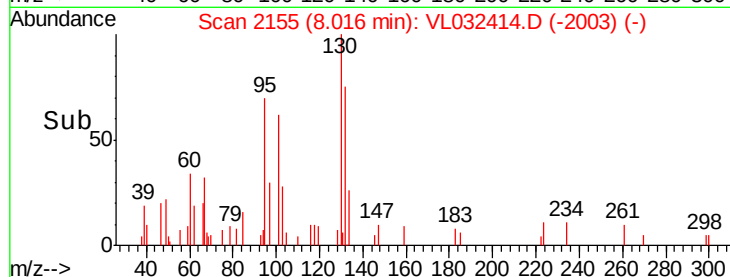
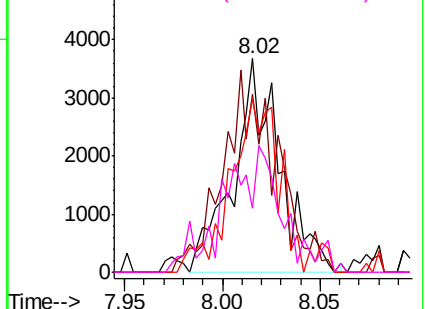


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#52

Tetrachloroethene

Concen: 0.10 ppbv m

RT: 11.44 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

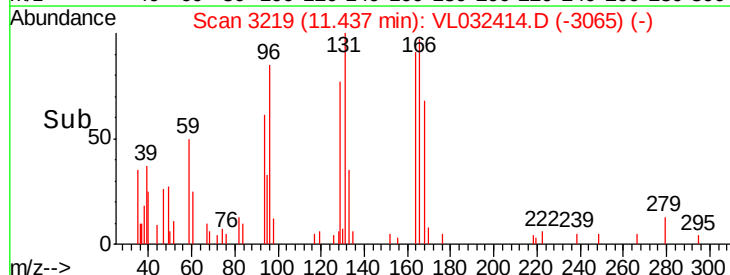
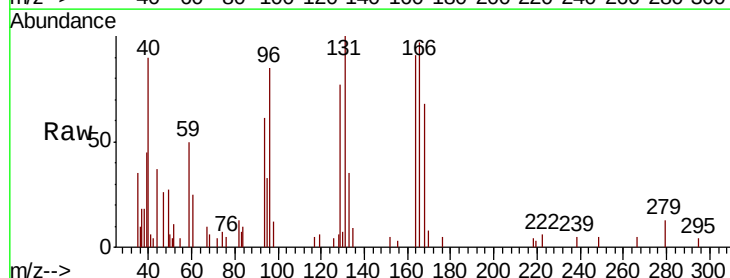
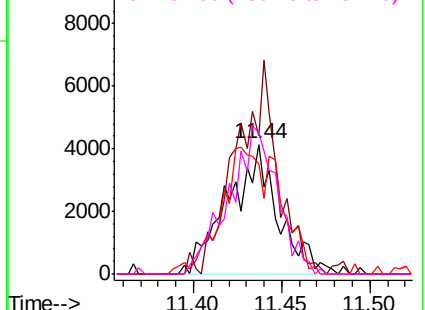
Tgt Ion:	164	Resp:	8154
Ion Ratio	Lower	Upper	
164	100		
166	106.4	103.5	155.3
129	84.6	90.9	136.3#
131	109.3	86.7	130.1

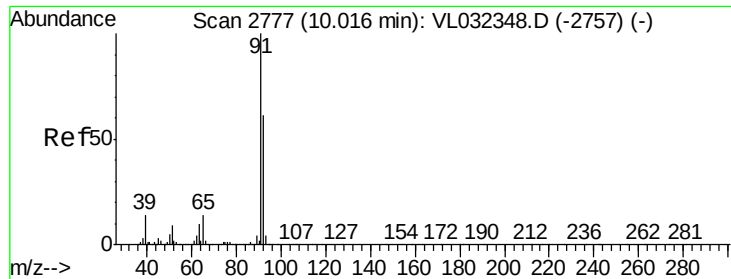
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.17 ppbv m

RT: 10.01 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

Instrument :

MSVOA_L

ClientSampled :

SS-2DL

Tot Ion: 91 Resp: 53862

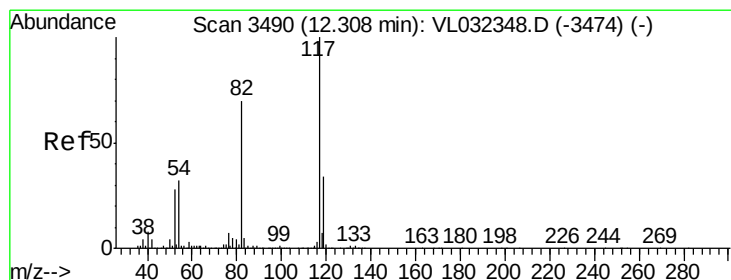
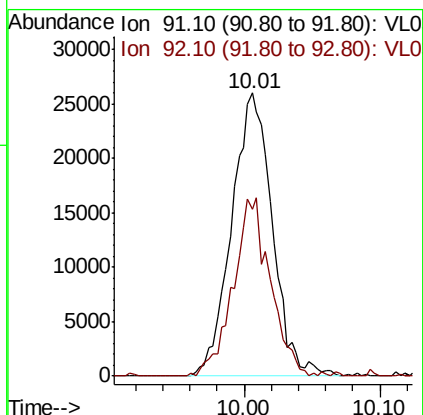
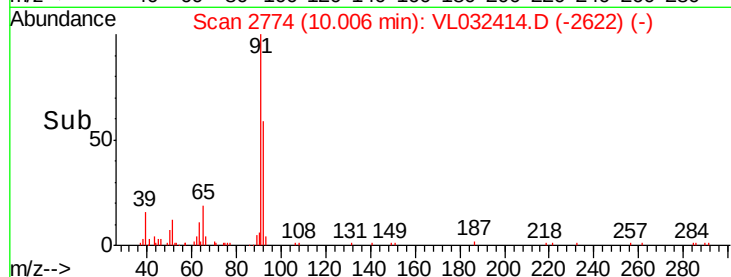
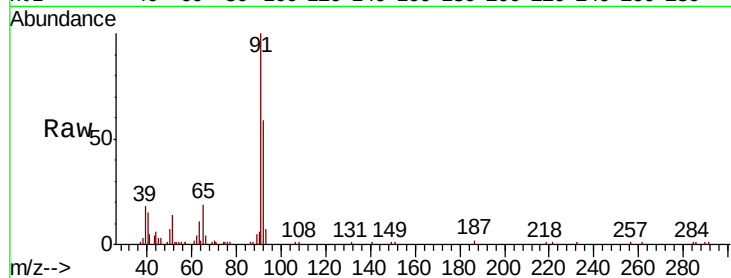
Ion Ratio Lower Upper

91 100

92 58.0 48.7 73.1

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.30 min Scan# 3487

Delta R.T. -0.01 min

Lab File: VL032414.D

Acq: 20 Aug 2018 21:22

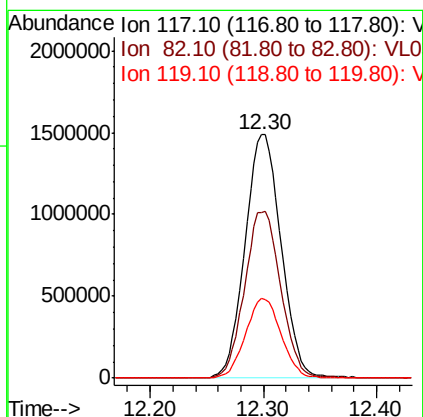
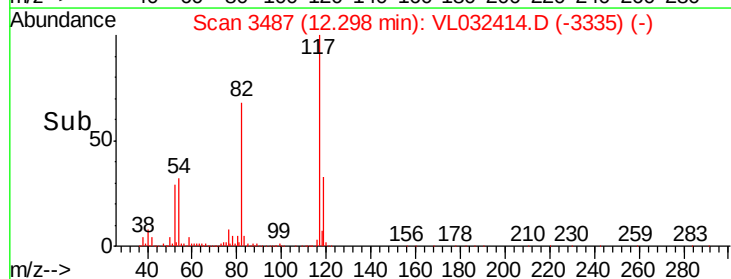
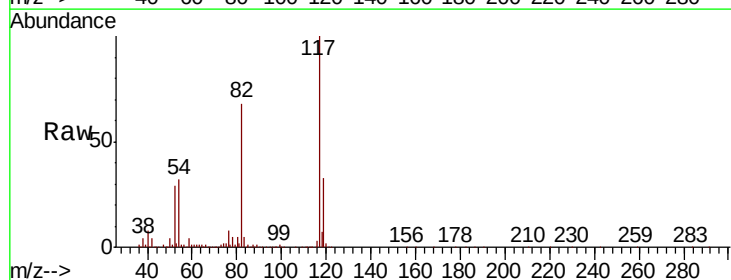
Tgt Ion: 117 Resp: 3294448

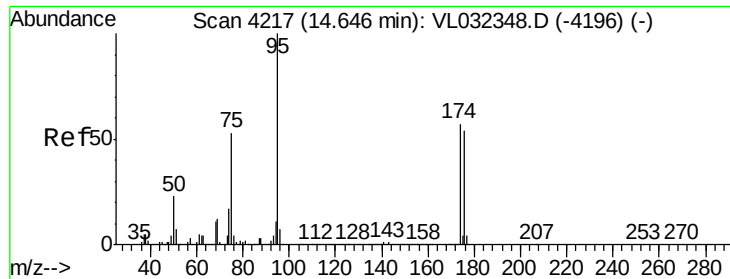
Ion Ratio Lower Upper

117 100

82 69.1 55.1 82.7

119 32.3 46.0 69.0#





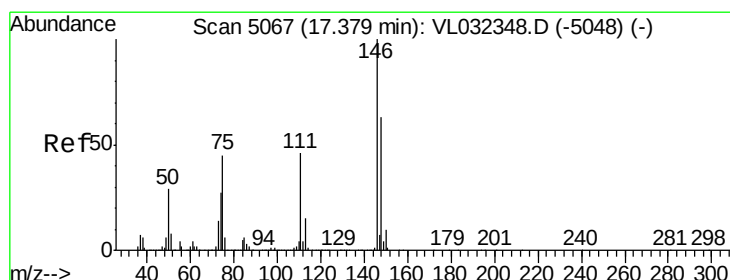
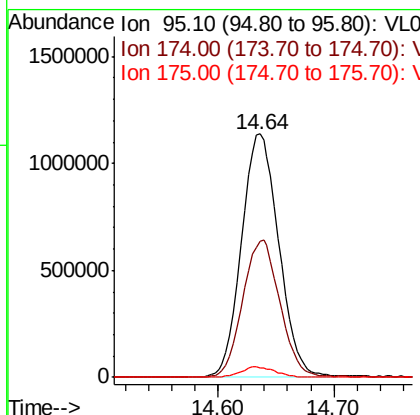
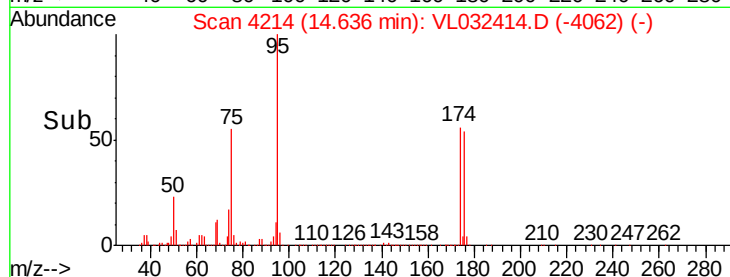
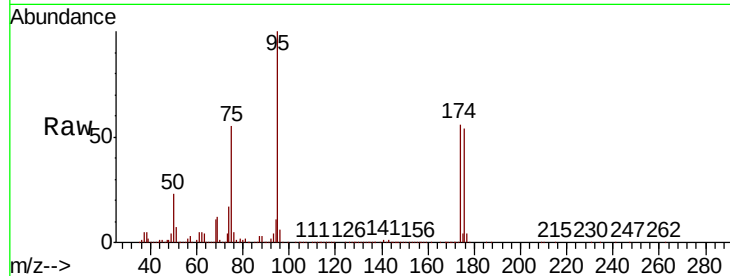
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.10 ppbv
 RT: 14.64 min Scan# 4214
 Delta R.T. -0.01 min
 Lab File: VL032414.D
 Acq: 20 Aug 2018 21:22

Instrument :
 MSVOA_L
 ClientSampled :
 SS-2DL

Tot Ion: 95 Resp: 2537521
 Ion Ratio Lower Upper
 95 100
 174 56.7 46.2 69.4
 175 4.1 3.4 5.0

Manual Integrations
 APPROVED

MMDadoda
 8/22/2018 10:50:36 AM



#76
 1,4-Dichlorobenzene
 Concen: 4.48 ppbv
 RT: 17.37 min Scan# 5064
 Delta R.T. -0.01 min
 Lab File: VL032414.D
 Acq: 20 Aug 2018 21:22

Tgt Ion: 146 Resp: 963724
 Ion Ratio Lower Upper
 146 100
 111 47.3 23.8 71.4
 148 64.4 32.2 96.6

