

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031620\
 Data File : VL034904.D
 Acq On : 17 Mar 2020 00:01
 Operator : SY/AP
 Sample : L1924-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02DL

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 12:16:15 PM

Quant Time: Mar 17 11:44:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	863944	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1837273	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	1753516	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1402097	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1,2-Trichlorotrifluoroet	4.46	101	6681753	75.853	ppbv	94
13) Ethanol	3.57	45	55717	3.977	ppbv	97
15) Acetone	3.82	43	421172	3.761	ppbv	100
18) 1,1-Dichloroethene	4.26	96	1345906	34.501	ppbv	94
19) Isopropyl Alcohol	3.96	45	29207	0.413	ppbv #	1
24) 1,1-Dichloroethane	4.99	63	141066	1.272	ppbv	98
29) Chloroform	5.74	83	273538	2.087	ppbv	96
31) cis-1,2-Dichloroethene	5.53	61	477168	5.432	ppbv	100
32) 1,1,1-Trichloroethane	6.50	97	1930780	15.118	ppbv	97
38) Trichloroethene	7.84	130	3064608	49.273	ppbv	98
52) Tetrachloroethene	11.23	164	3942m	0.061	ppbv	

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

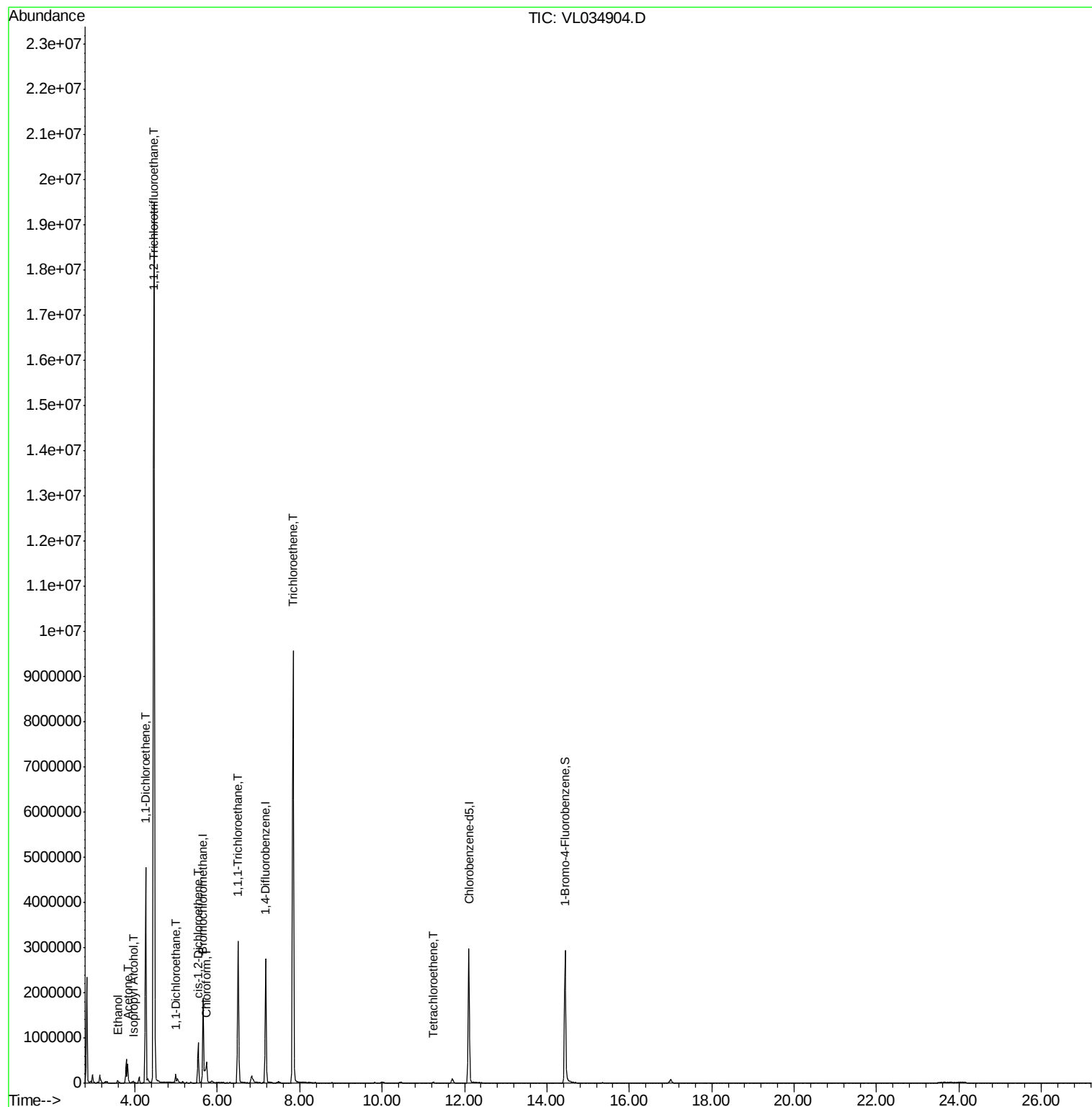
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031620\
Data File : VL034904.D
Acq On : 17 Mar 2020 00:01
Operator : SY/AP
Sample : L1924-06DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

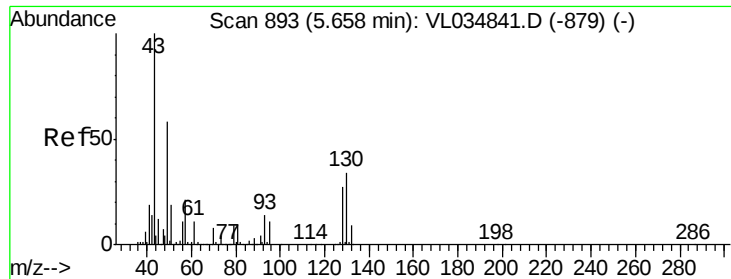
Instrument :
MSVOA_L
ClientSampleId :
SV-02DL

Manual Integrations
APPROVED

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3/17/2020 12:16:15 PM

Quant Time: Mar 17 11:44:16 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034904.D

Acq: 17 Mar 2020 00:01

Instrument :

MSVOA_L

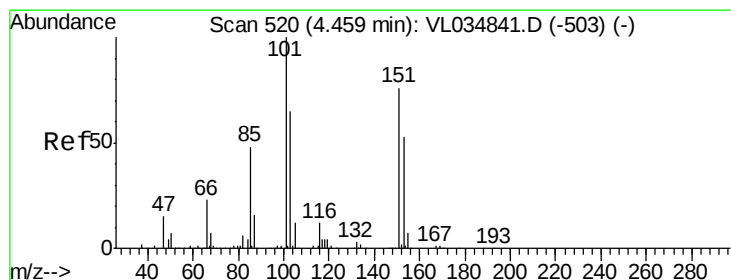
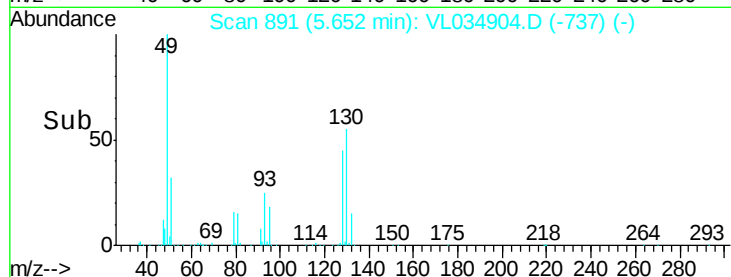
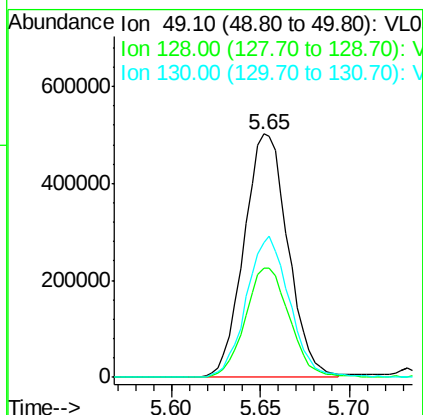
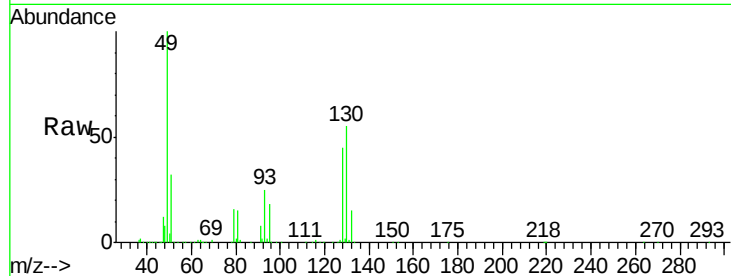
ClientSampleId :

SV-02DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.2	23.4	70.3
130	57.2	30.0	90.0

Manual Integrations
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#12

1,1,2-Trichlorotrifluoroethane

Concen: 75.853 ppbv

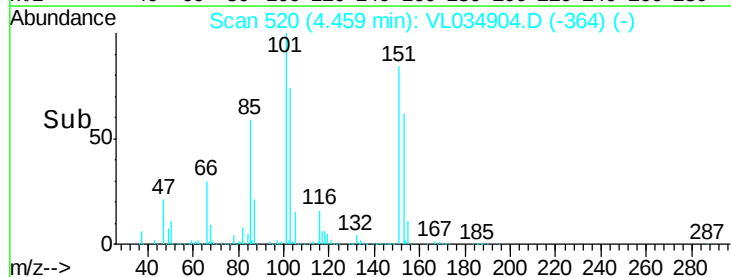
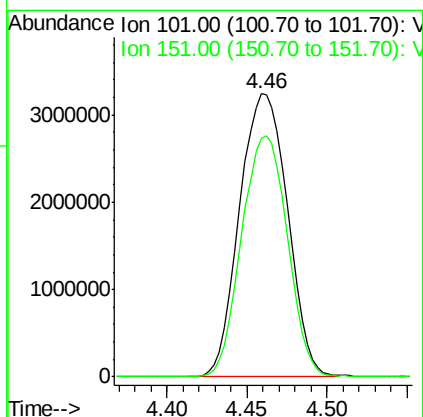
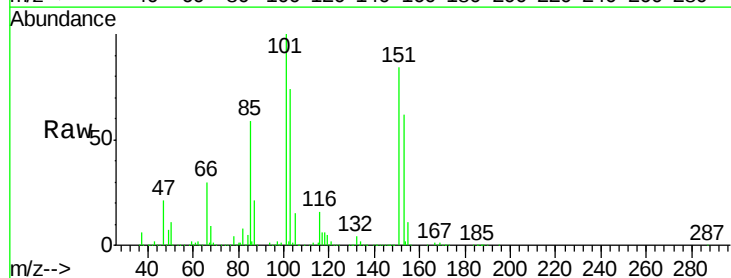
RT: 4.46 min Scan# 520

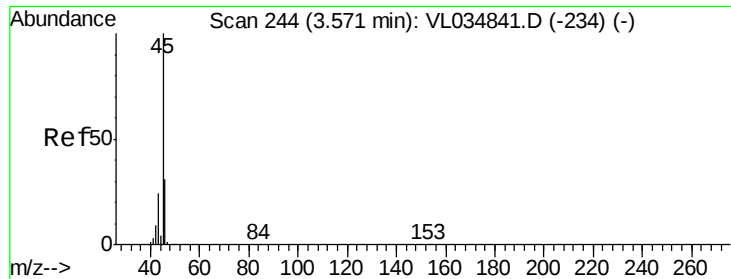
Delta R.T. 0.00 min

Lab File: VL034904.D

Acq: 17 Mar 2020 00:01

Tgt Ion	Ratio	Lower	Upper
101	100		
151	81.5	60.8	91.2





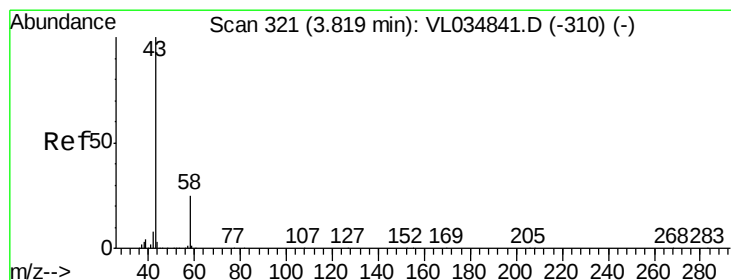
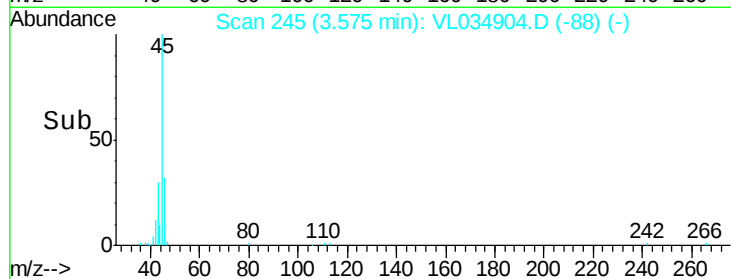
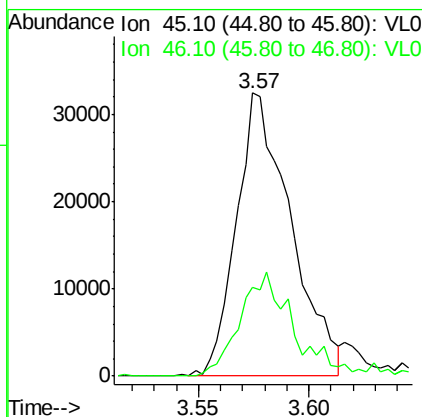
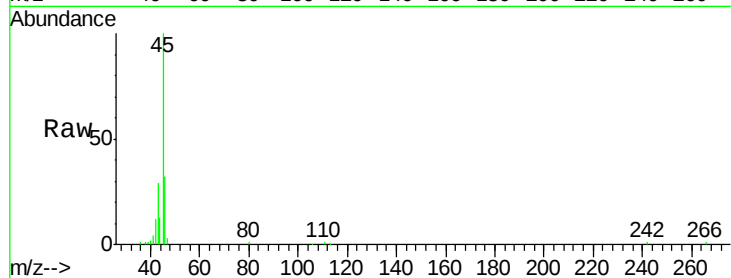
#13
Ethanol
Concen: 3.977 ppbv
RT: 3.57 min Scan# 245
Delta R.T. 0.00 min
Lab File: VL034904.D
Acq: 17 Mar 2020 00:01

Instrument :
MSVOA_L
ClientSampleId :
SV-02DL

Tot Ion	45	Resp	55717
Ion Ratio	100	Lower	Upper
45	100		
46	38.1	16.0	64.0

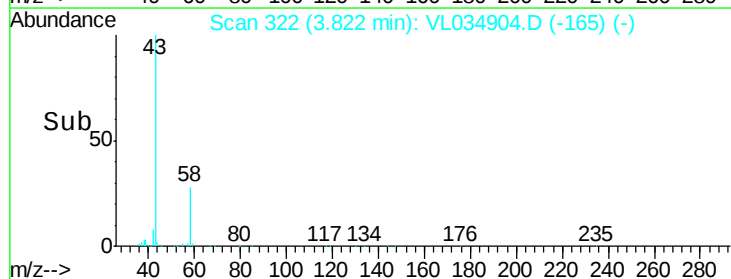
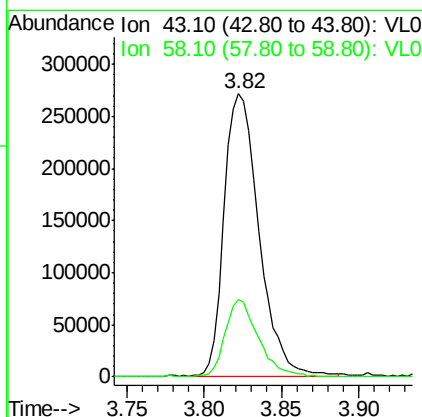
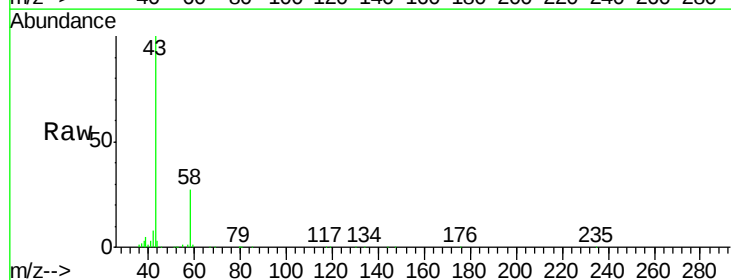
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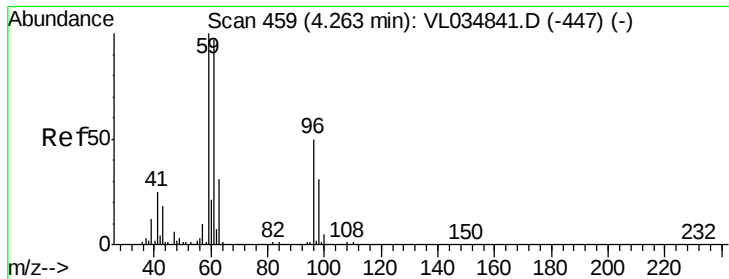
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#15
Acetone
Concen: 3.761 ppbv
RT: 3.82 min Scan# 322
Delta R.T. 0.00 min
Lab File: VL034904.D
Acq: 17 Mar 2020 00:01

Tgt Ion	43	Resp	421172
Ion Ratio	100	Lower	Upper
43	100		
58	26.5	21.0	31.6





#18

1,1-Dichloroethene

Concen: 34.501 ppbv

RT: 4.26 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL034904.D

Acq: 17 Mar 2020 00:01

Instrument :

MSVOA_L

ClientSampled :

SV-02DL

Tot Ion: 96 Resp: 1345906

Ion Ratio Lower Upper

96 100

61 187.6 157.3 235.9

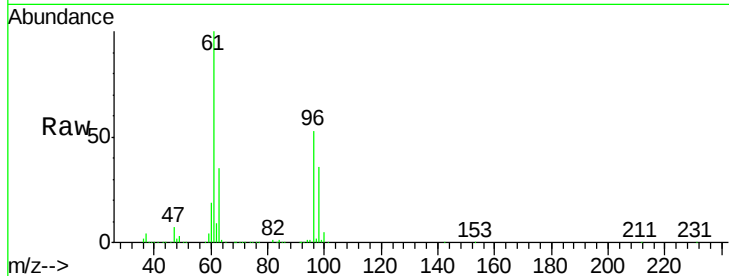
98 67.2 50.2 75.4

Manual Integrations

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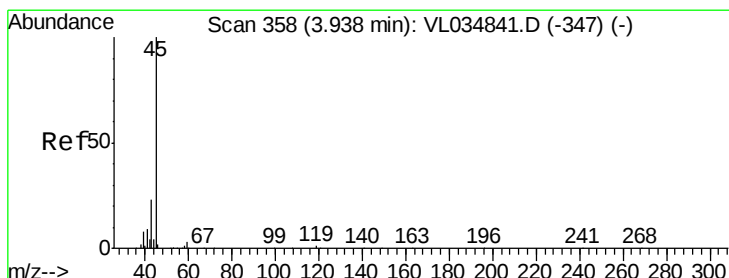
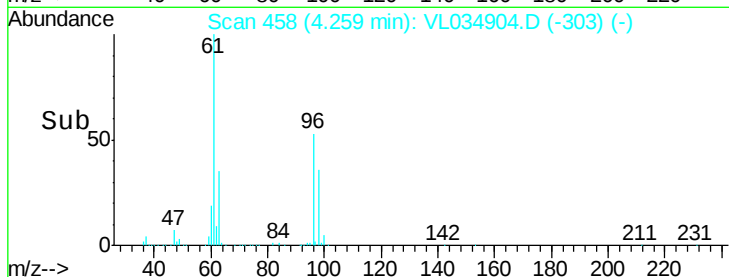
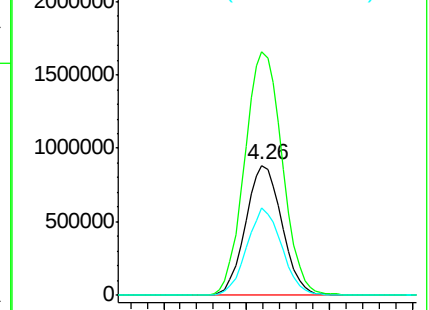
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Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19

Isopropyl Alcohol

Concen: 0.413 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034904.D

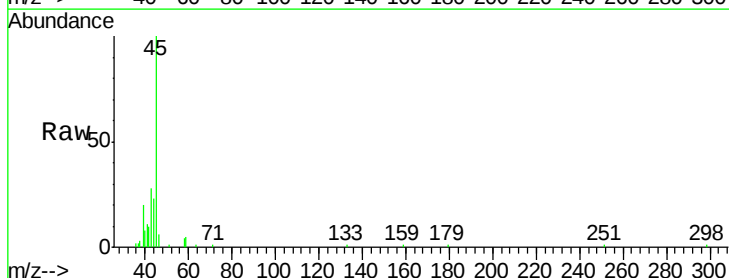
Acq: 17 Mar 2020 00:01

Tgt Ion: 45 Resp: 29207

Ion Ratio Lower Upper

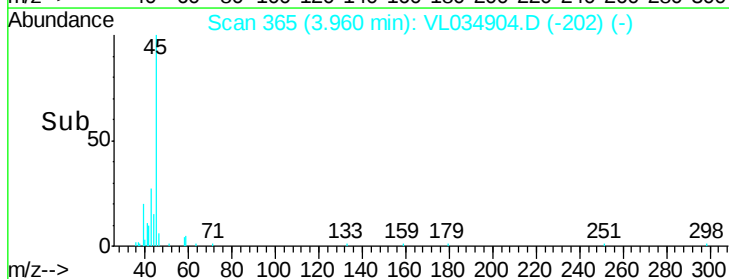
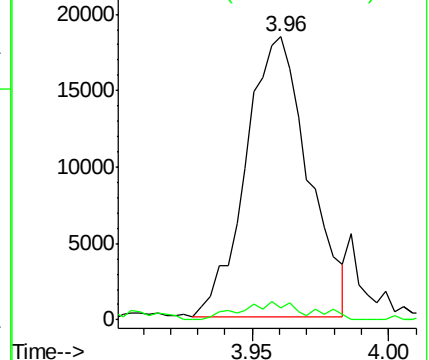
45 100

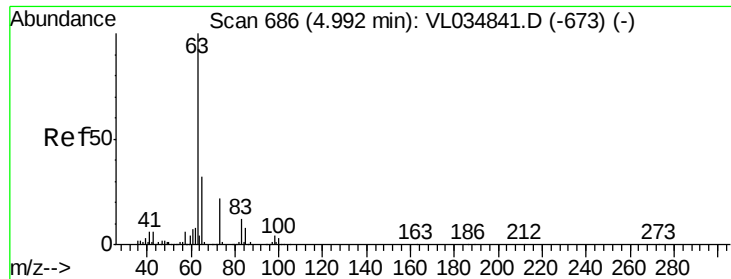
58 378.9 30.5 45.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#24

1,1-Dichloroethane

Concen: 1.272 ppbv

RT: 4.99 min Scan# 686

Delta R.T. 0.00 min

Lab File: VL034904.D

Acq: 17 Mar 2020 00:01

Instrument :

MSVOA_L

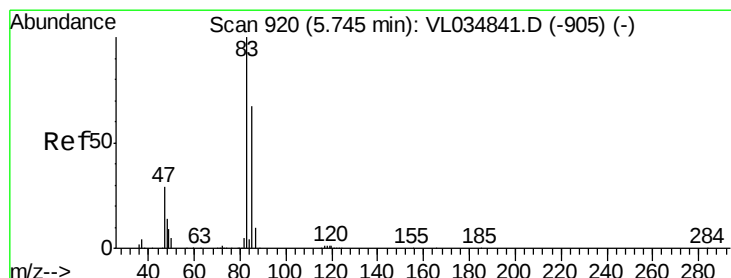
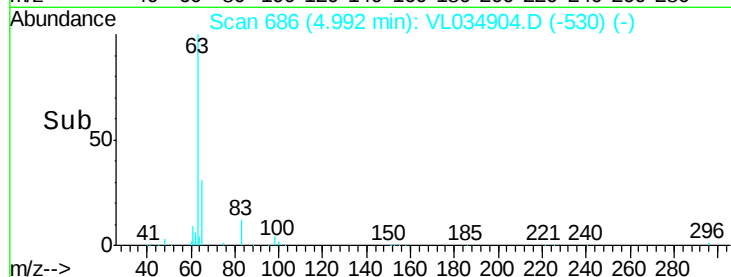
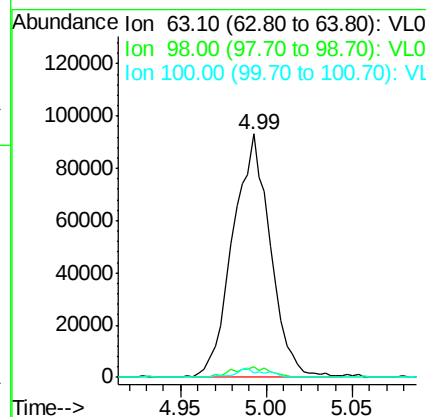
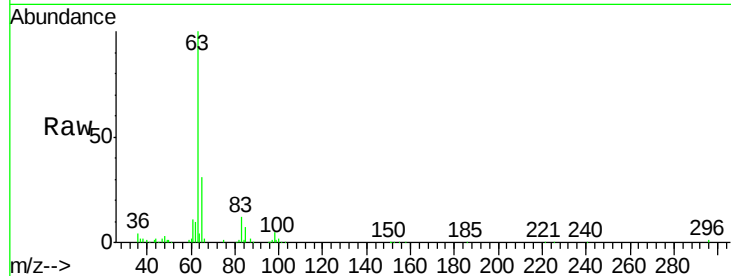
ClientSampleId :

SV-02DL

Tot Ion:	63	Resp:	141066
Ion Ratio	Lower	Upper	
63	100		
98	4.5	2.0	5.8
100	1.9	1.4	4.0

Manual Integrations
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#29

Chloroform

Concen: 2.087 ppbv

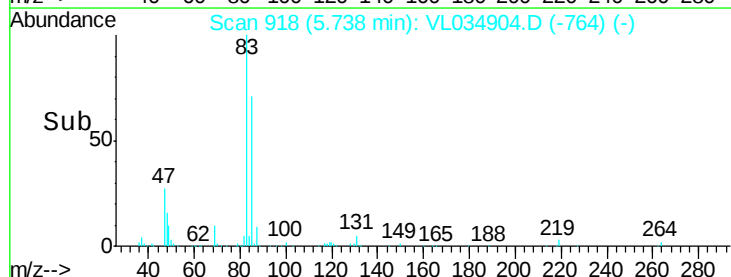
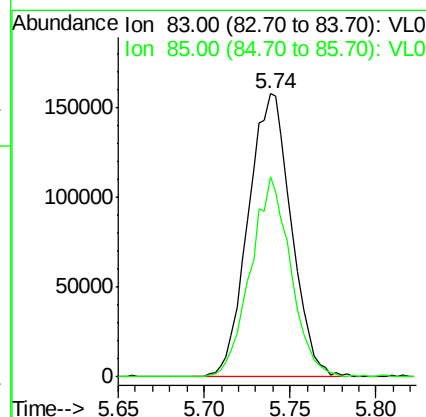
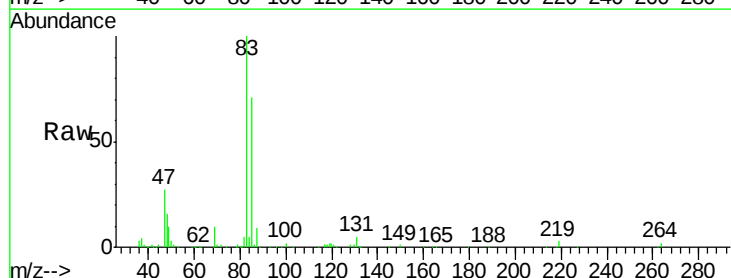
RT: 5.74 min Scan# 918

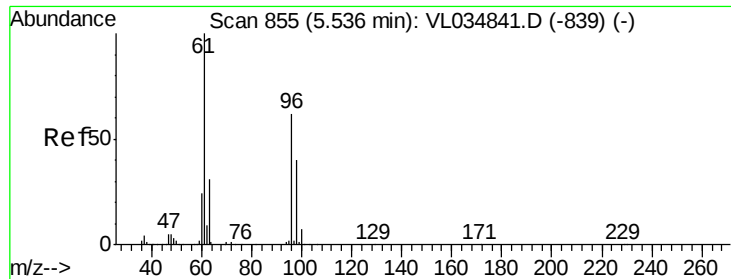
Delta R.T. -0.01 min

Lab File: VL034904.D

Acq: 17 Mar 2020 00:01

Tgt Ion:	83	Resp:	273538
Ion Ratio	Lower	Upper	
83	100		
85	70.5	53.8	80.6





#31

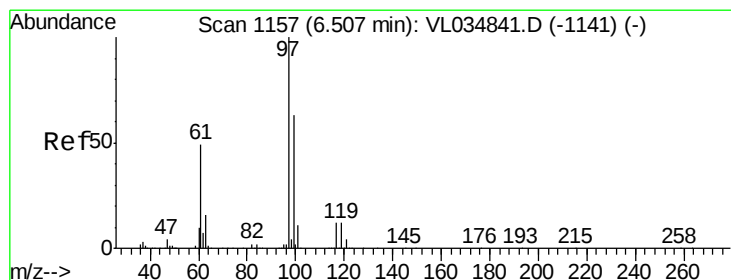
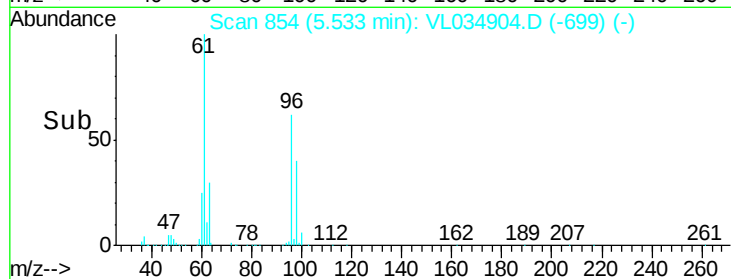
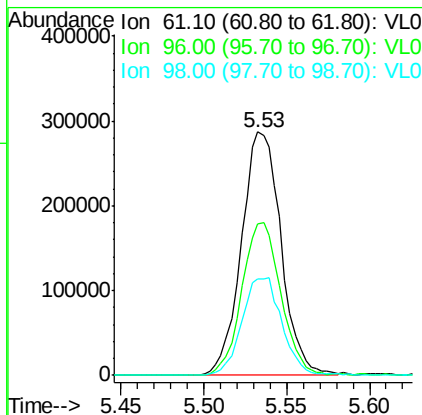
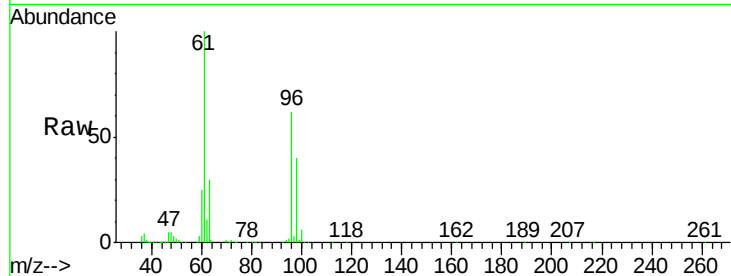
cis-1,2-Dichloroethene
Concen: 5.432 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.00 min
Lab File: VL034904.D
Acq: 17 Mar 2020 00:01

Instrument :
MSVOA_L
ClientSampleId :
SV-02DL

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.3	49.8	74.8
98	39.8	32.2	48.4

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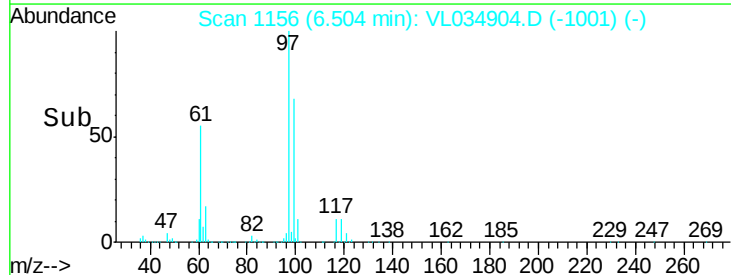
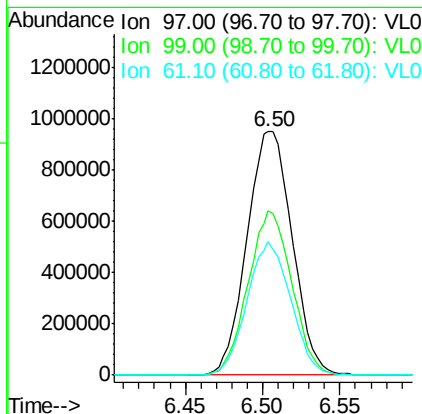
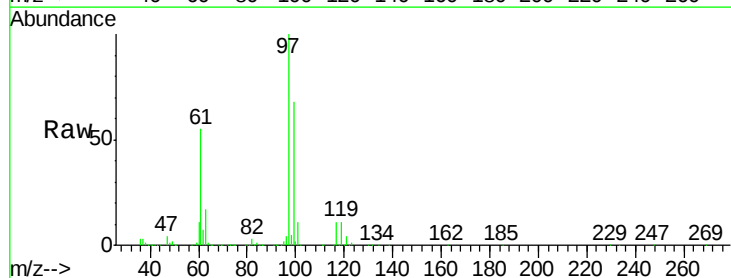
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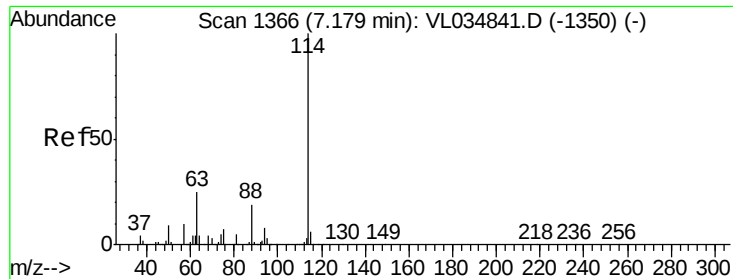


#32

1,1,1-Trichloroethane
Concen: 15.118 ppbv
RT: 6.50 min Scan# 1156
Delta R.T. -0.00 min
Lab File: VL034904.D
Acq: 17 Mar 2020 00:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.1	76.7
61	53.1	39.7	59.5





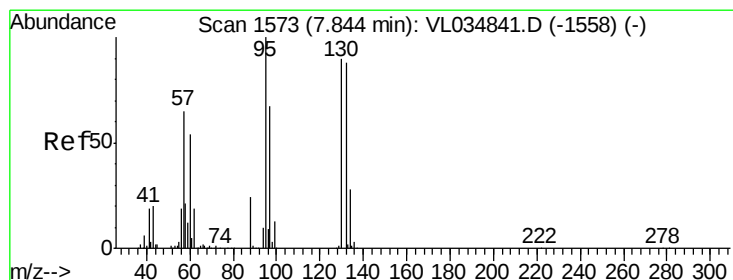
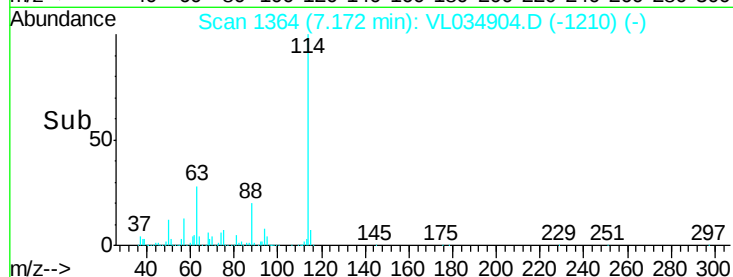
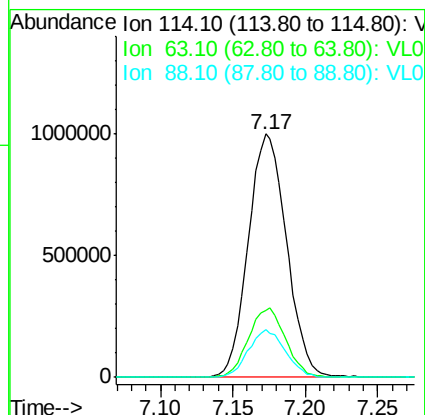
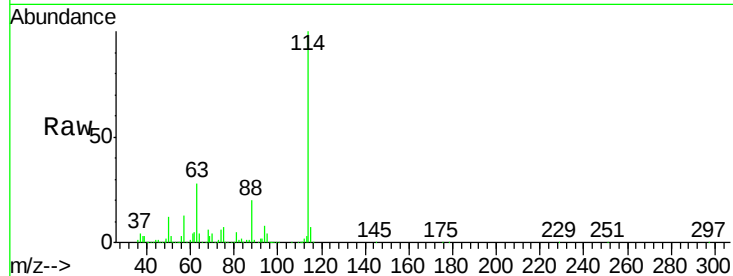
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL034904.D
Acq: 17 Mar 2020 00:01

Instrument :
MSVOA_L
ClientSampled :
SV-02DL

Tot Ion:114 Resp: 1837273
Ion Ratio Lower Upper
114 100
63 27.8 20.6 31.0
88 19.1 15.0 22.6

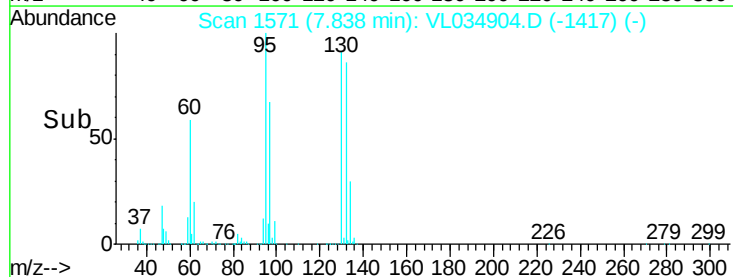
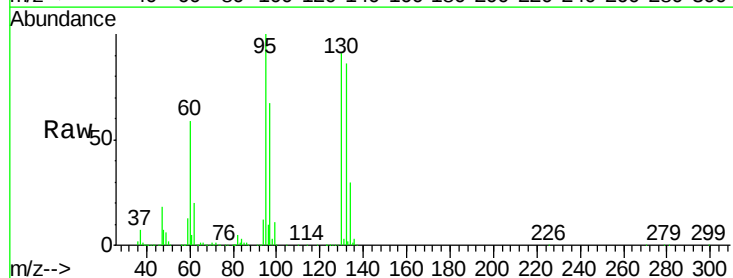
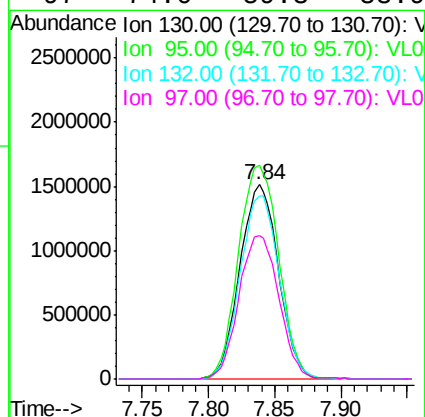
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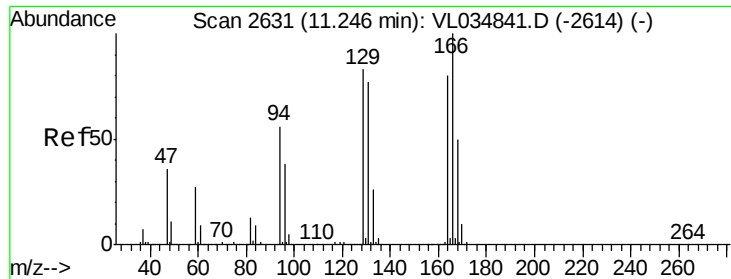
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3/17/2020 12:16:15 PM



#38
Trichloroethene
Concen: 49.273 ppbv
RT: 7.84 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL034904.D
Acq: 17 Mar 2020 00:01

Tgt Ion:130 Resp: 3064608
Ion Ratio Lower Upper
130 100
95 109.8 88.5 132.7
132 94.1 78.0 117.0
97 74.0 59.3 88.9





#52

Tetrachloroethene

Concen: 0.061 ppbv m

RT: 11.23 min Scan# 2627

Delta R.T. -0.01 min

Lab File: VL034904.D

Acq: 17 Mar 2020 00:01

Instrument :

MSVOA_L

ClientSampleId :

SV-02DL

Tot Ion:164 Resp: 3942

Ion Ratio Lower Upper

164 100

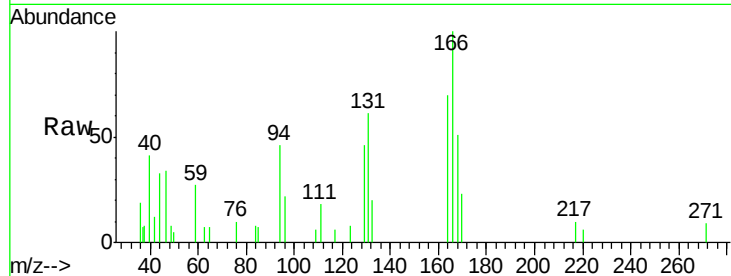
166 142.7 100.0 150.0

129 65.9 83.1 124.7#

131 86.4 77.2 115.8

Manual Integrations
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3/17/2020 12:16:15 PM

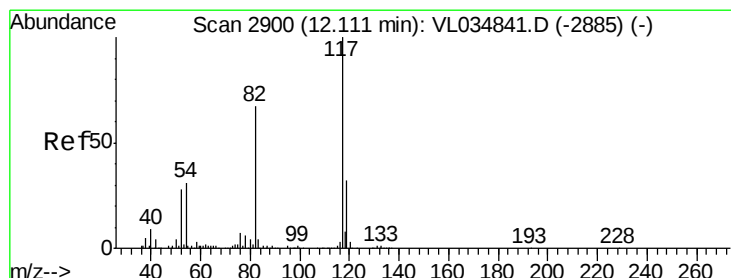
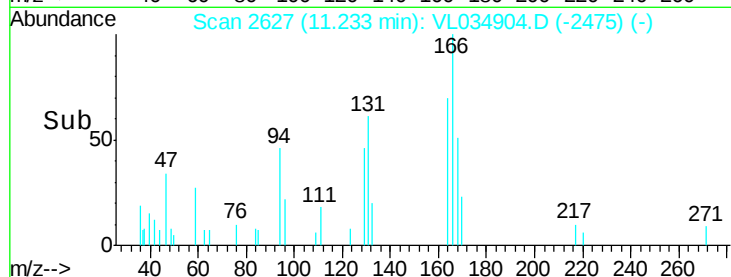
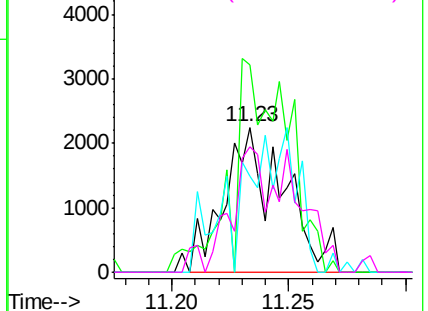


Abundance Ion 163.90 (163.60 to 164.60): V

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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034904.D

Acq: 17 Mar 2020 00:01

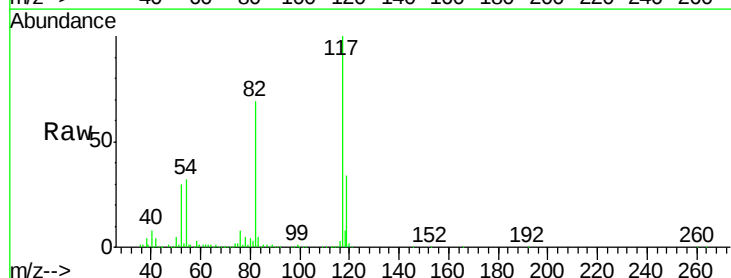
Tgt Ion:117 Resp: 1753516

Ion Ratio Lower Upper

117 100

82 70.9 51.1 76.7

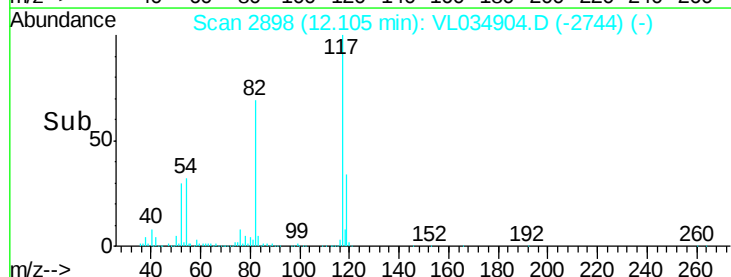
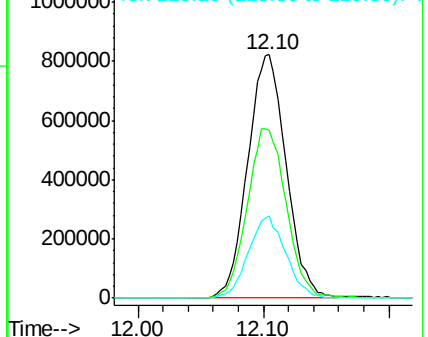
119 33.0 27.3 40.9

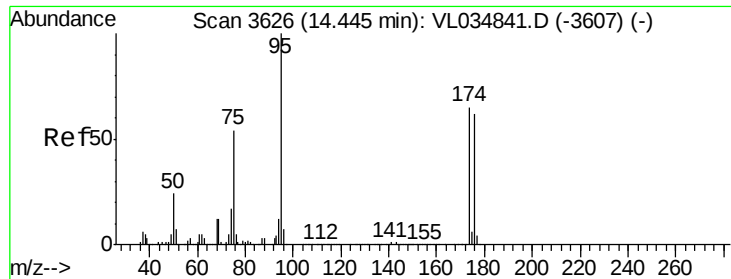


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.253 ppbv
 RT: 14.44 min Scan# 3623
 Delta R.T. -0.01 min
 Lab File: VL034904.D
 Acq: 17 Mar 2020 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-02DL

Tot Ion: 95 Resp: 1402097
 Ion Ratio Lower Upper
 95 100
 174 63.8 55.2 82.8
 175 4.9 4.3 6.5

Manual Integrations
 APPROVED

MMDadoda
 3/17/2020 12:16:15 PM

