

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034525.D
 Acq On : 30 Dec 2019 23:47
 Operator : SY/AP
 Sample : K6388-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENTDL

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:49:47 AM

Quant Time: Jan 01 12:55:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	979004	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1965306	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1911943	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1619092	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1,2-Trichlorotrifluoroet	4.47	101	14176	0.125	ppbv	98
18) 1,1-Dichloroethene	4.27	96	7026m	0.142	ppbv	
24) 1,1-Dichloroethane	5.00	63	150932	1.139	ppbv #	95
32) 1,1,1-Trichloroethane	6.52	97	1201160	7.113	ppbv	99

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

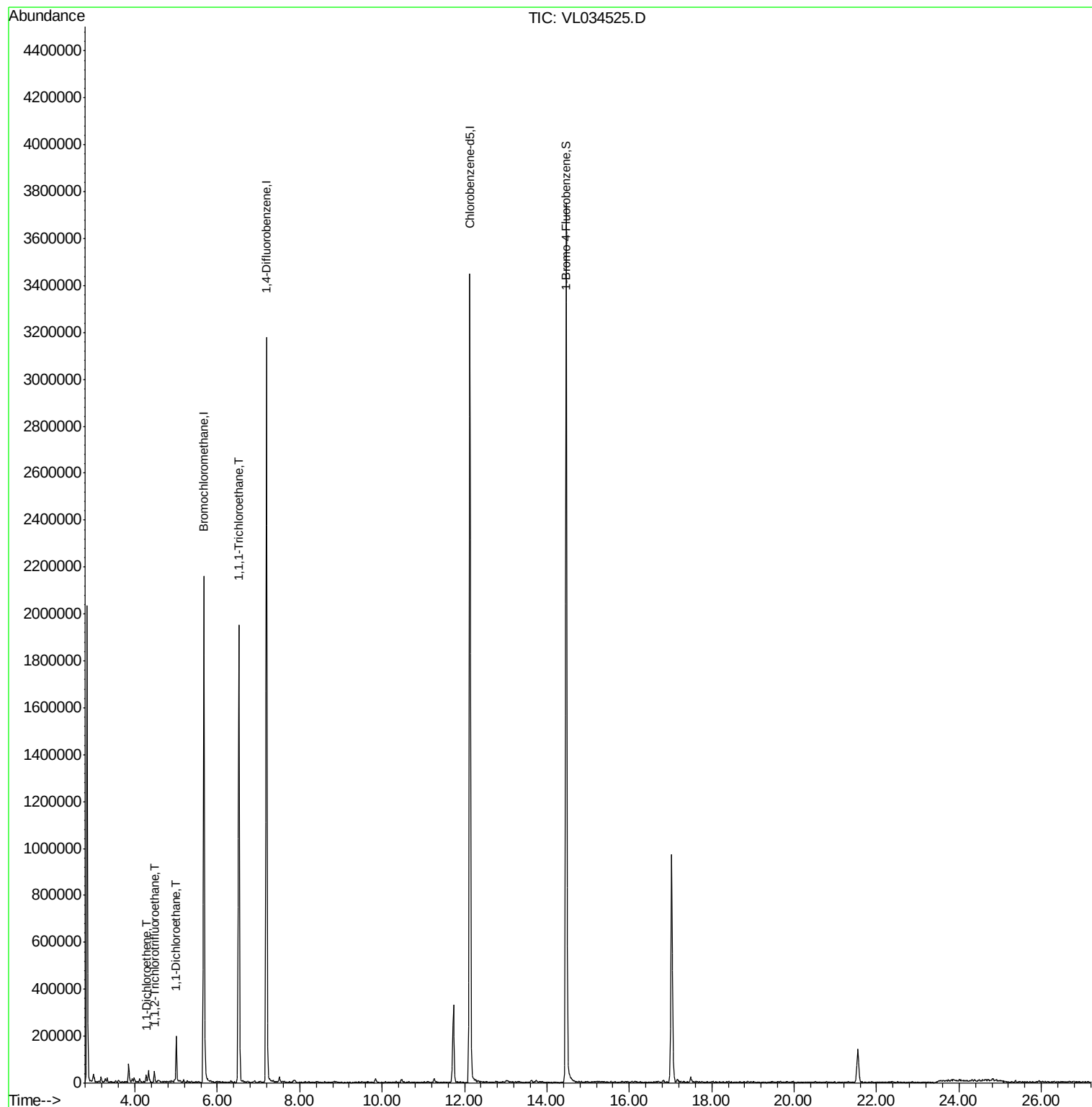
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL123019\
Data File : VL034525.D
Acq On : 30 Dec 2019 23:47
Operator : SY/AP
Sample : K6388-01DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

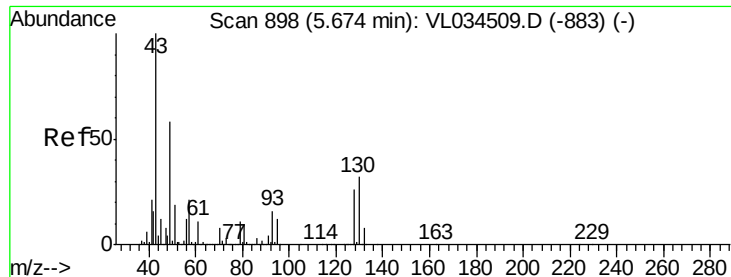
Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

Manual Integrations
APPROVED

apatel
1/2/2020 10:49:47 AM

Quant Time: Jan 01 12:55:26 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL034525.D

Acq: 30 Dec 2019 23:47

Instrument :

MSVOA_L

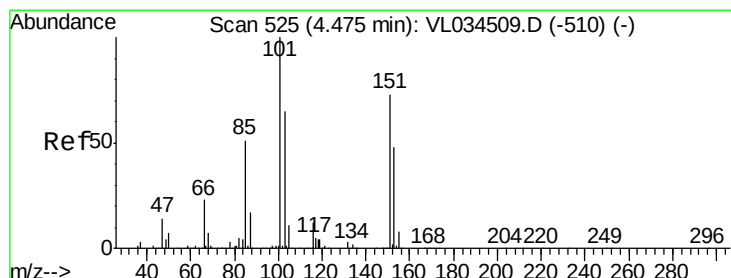
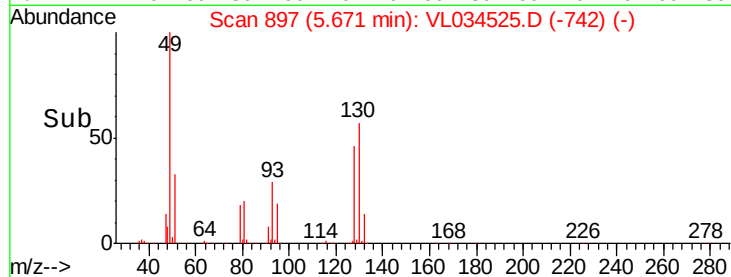
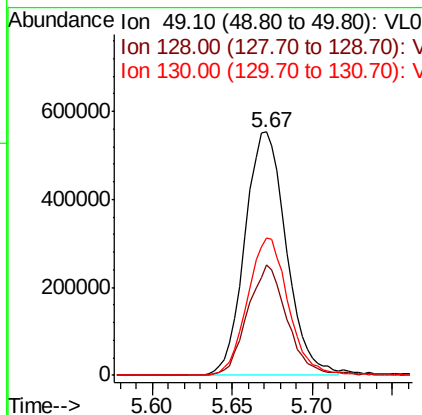
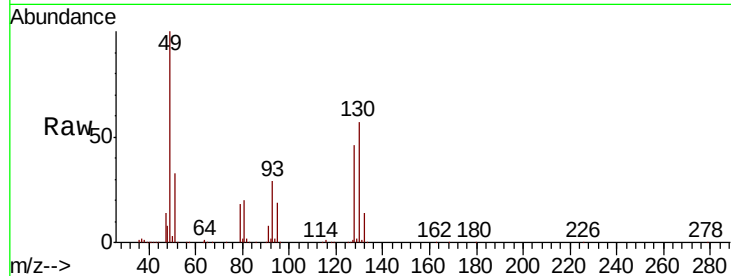
ClientSampleId :

INFLUENTDL

Tot Ion:	49	Resp:	979004
Ion	Ratio	Lower	Upper
49	100		
128	43.9	22.4	67.2
130	56.3	28.3	85.0

Manual Integrations
APPROVED

apatel
1/2/2020 10:49:47 AM



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.125 ppbv

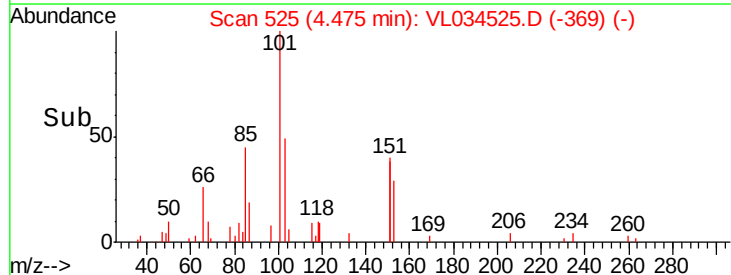
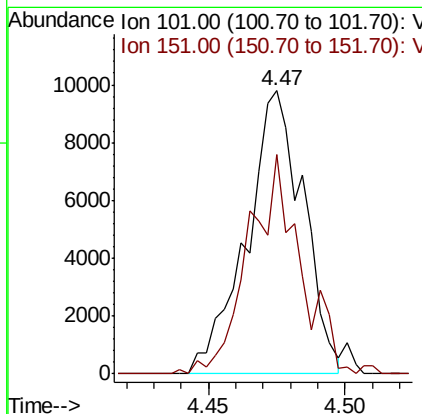
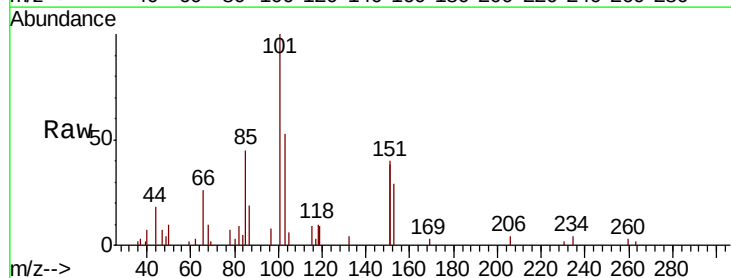
RT: 4.47 min Scan# 525

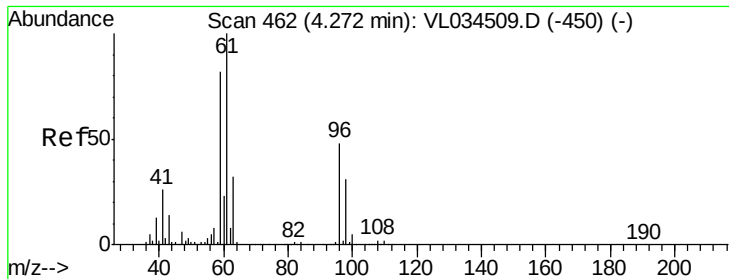
Delta R.T. 0.00 min

Lab File: VL034525.D

Acq: 30 Dec 2019 23:47

Tgt Ion:	101	Resp:	14176
Ion	Ratio	Lower	Upper
101	100		
151	70.9	57.8	86.6





#18

1,1-Dichloroethene

Concen: 0.142 ppbv

RT: 4.27 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL034525.D

Acq: 30 Dec 2019 23:47

Instrument :

MSVOA_L

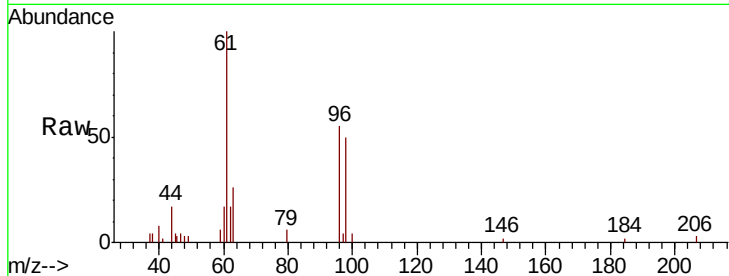
ClientSampleID :

INFLUENTDL

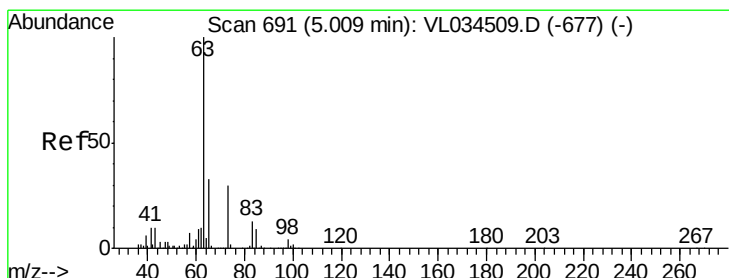
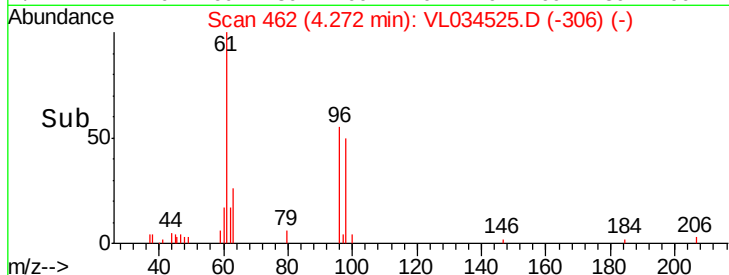
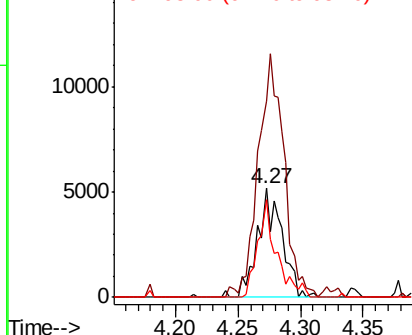
Tot Ion:	96	Resp:	7026
Ion	Ratio	Lower	Upper
96	100		
61	181.0	165.9	248.9
98	89.9	51.9	77.9#

Manual Integrations
APPROVED

apatel
1/2/2020 10:49:47 AM



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



#24

1,1-Dichloroethane

Concen: 1.139 ppbv

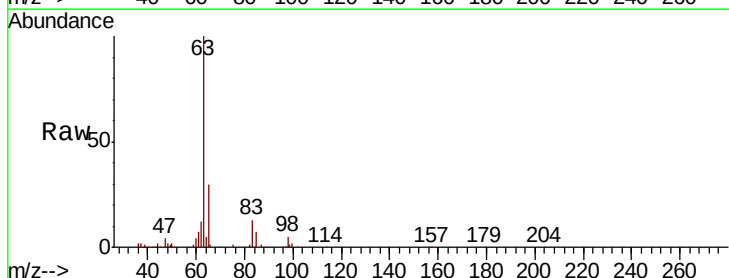
RT: 5.00 min Scan# 689

Delta R.T. -0.01 min

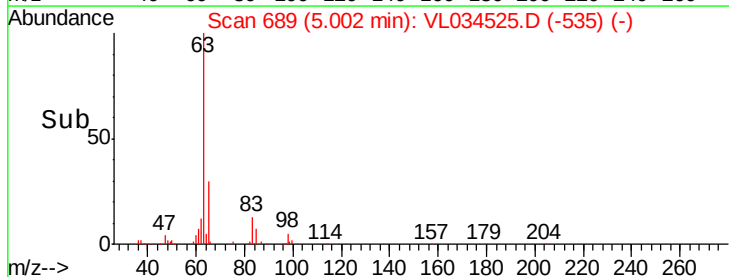
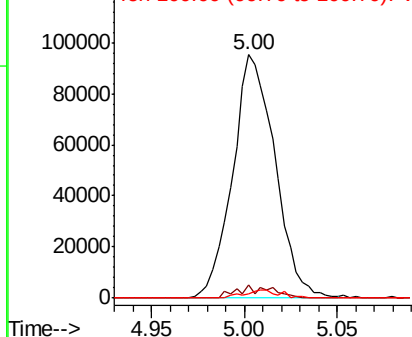
Lab File: VL034525.D

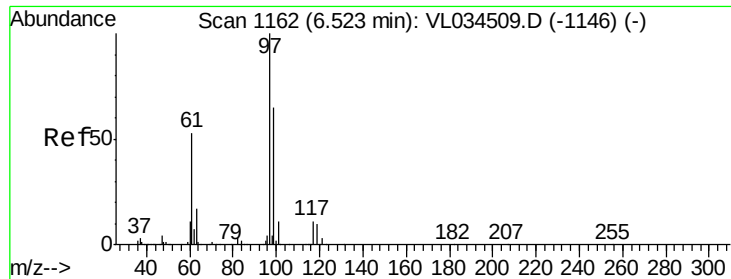
Acq: 30 Dec 2019 23:47

Tgt Ion:	63	Resp:	150932
Ion	Ratio	Lower	Upper
63	100		
98	6.3	2.1	6.3#
100	1.6	1.1	3.3



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#32

1,1,1-Trichloroethane

Concen: 7.113 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. 0.00 min

Lab File: VL034525.D

Acq: 30 Dec 2019 23:47

Instrument :

MSVOA_L

ClientSampleId :

INFLUENTDL

Tot Ion: 97 Resp: 1201160

Ion Ratio Lower Upper

97 100

99 64.2 51.7 77.5

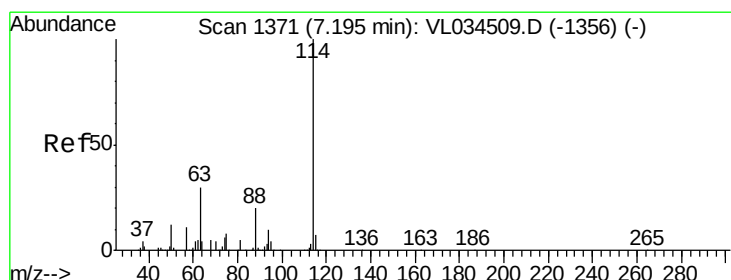
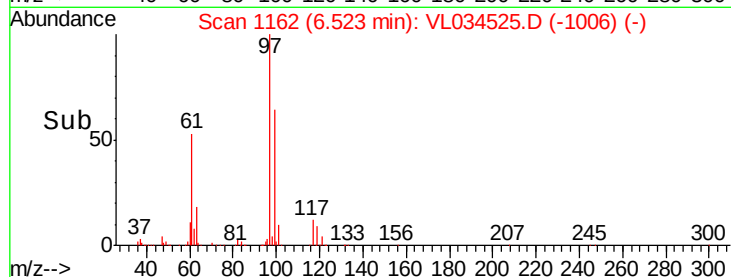
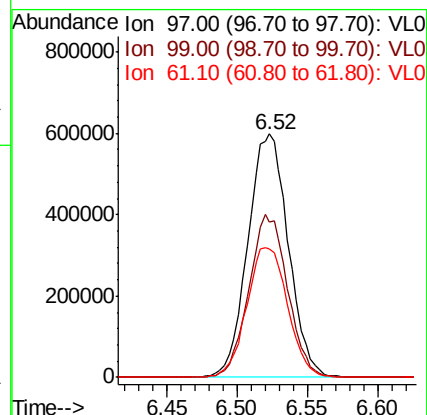
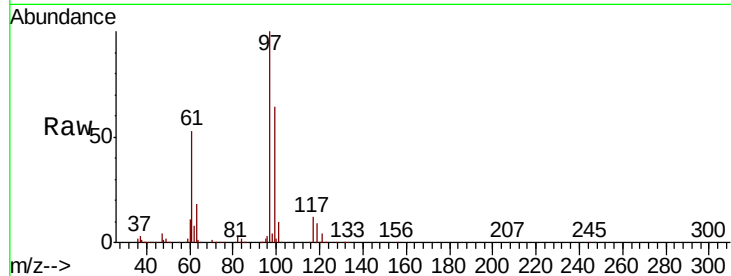
61 54.0 42.9 64.3

Manual Integrations

APPROVED

apatel

1/2/2020 10:49:47 AM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.00 min

Lab File: VL034525.D

Acq: 30 Dec 2019 23:47

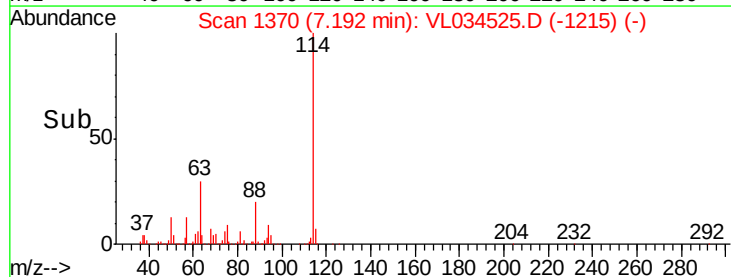
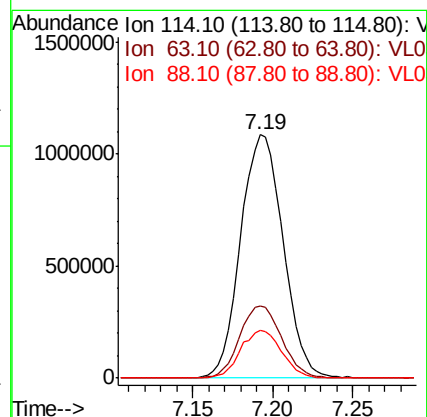
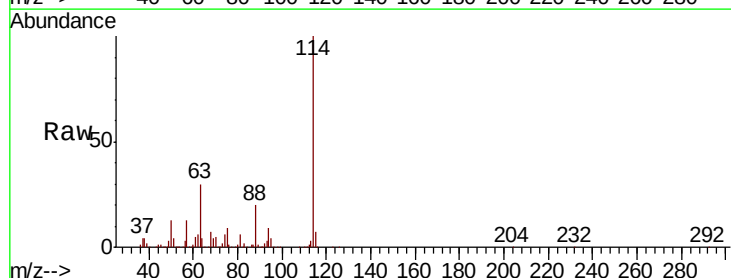
Tgt Ion: 114 Resp: 1965306

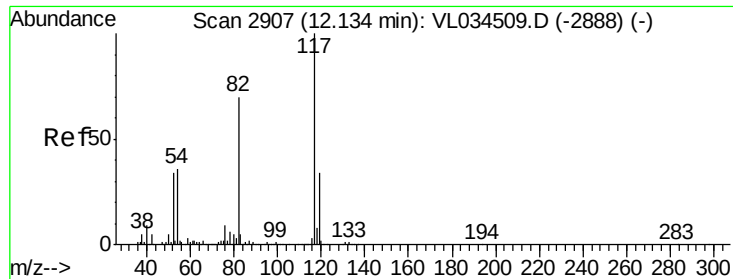
Ion Ratio Lower Upper

114 100

63 29.5 24.1 36.1

88 19.3 15.7 23.5





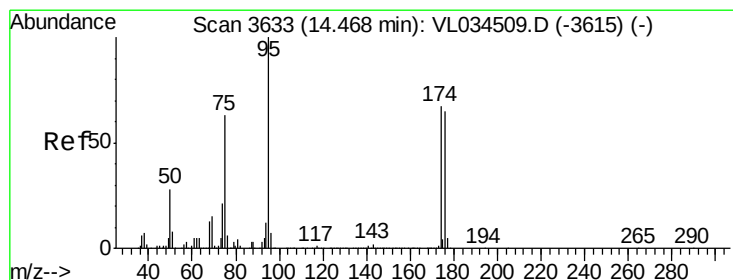
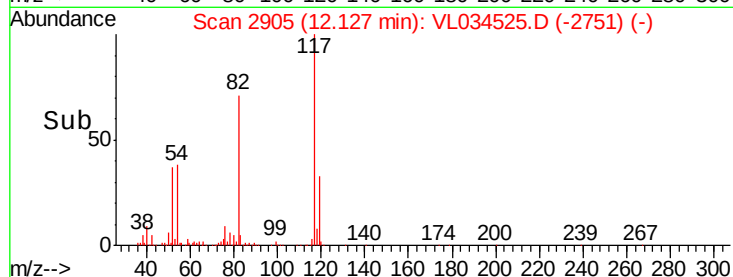
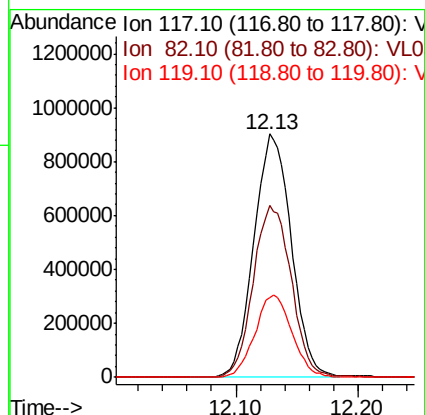
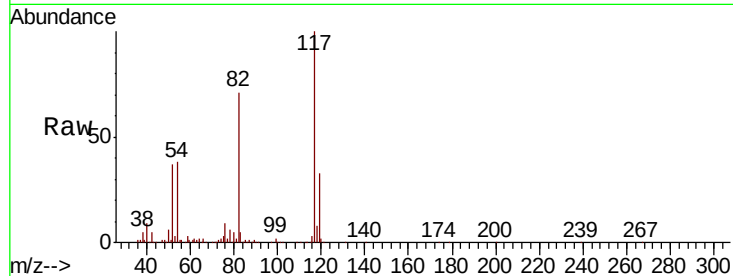
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL034525.D
Acq: 30 Dec 2019 23:47

Instrument :
MSVOA_L
ClientSampleId :
INFLUENTDL

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.7	56.2	84.4
119	33.6	27.1	40.7

Manual Integrations
APPROVED

apatel
1/2/2020 10:49:47 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.148 ppbv
RT: 14.47 min Scan# 3633
Delta R.T. 0.00 min
Lab File: VL034525.D
Acq: 30 Dec 2019 23:47

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.0	52.4	78.6
175	4.4	3.9	5.9

