

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082522\
 Data File : VL039591.D
 Acq On : 25 Aug 2022 23:43
 Operator : SY/AP
 Sample : N4351-01DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Aug 26 06:27:39 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.20	49	1083401	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2824642	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2485114	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.78	95	1835396	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

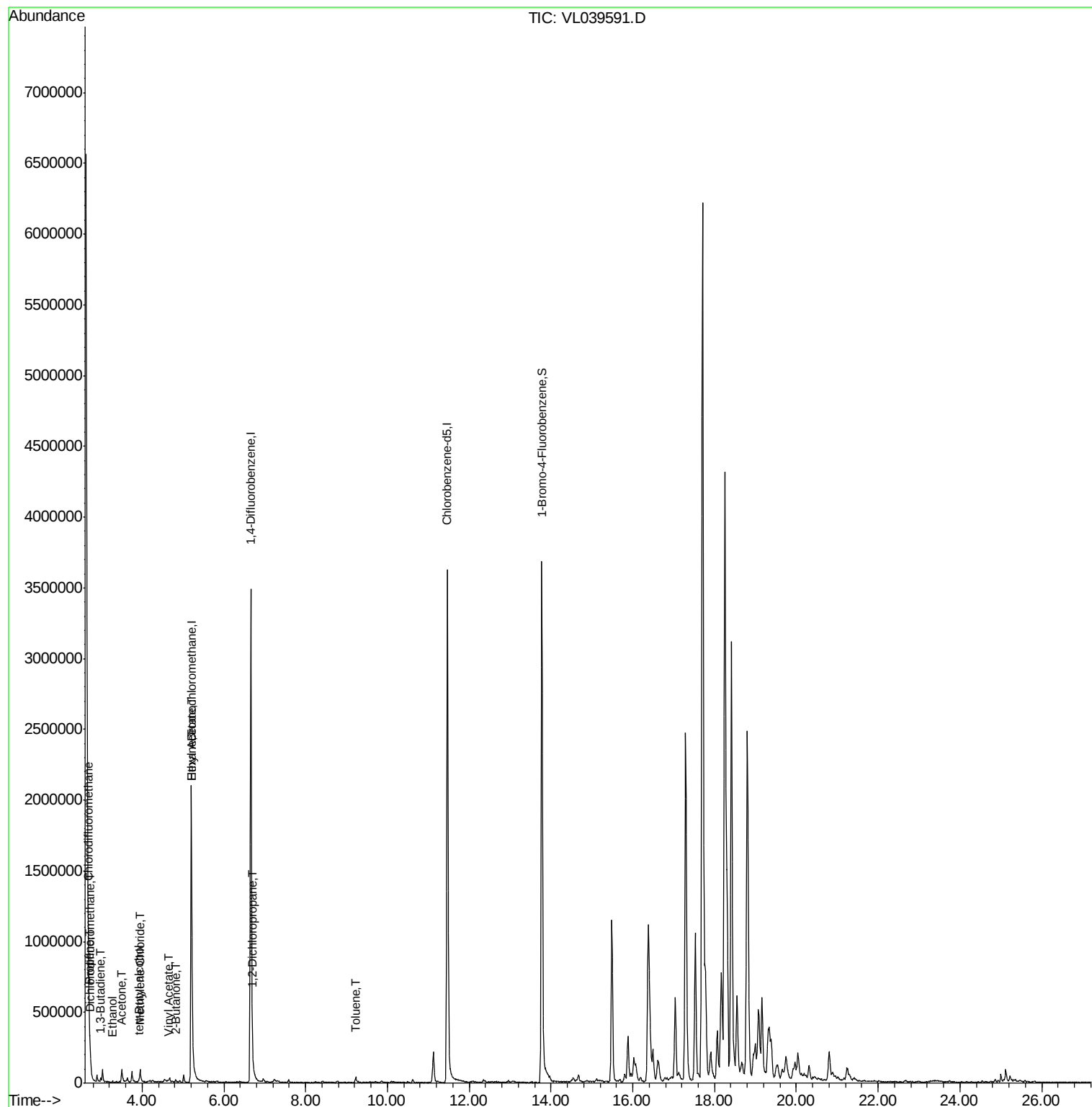
Target Compounds					Ovalue
2) Dichlorodifluoromethane	2.75	85	37768	0.262 ppbv #	88
3) Chlorodifluoromethane	2.69	51	218615	1.694 ppbv	94
9) Propene	2.73	41	22117	0.374 ppbv	97
13) Ethanol	3.25	45	345	0.081 ppbv #	23
15) Acetone	3.50	43	38563	0.318 ppbv #	26
16) 1,3-Butadiene	2.98	39	7664	0.121 ppbv #	16
17) tert-Butyl alcohol	3.92	59	3763	0.036 ppbv #	45
20) Methylene Chloride	3.95	84	29629	0.601 ppbv #	83
23) Vinyl Acetate	4.64	43	1809	0.031 ppbv #	1
25) Ethyl Acetate	5.22	43	43299	0.167 ppbv #	80
26) Hexane	5.22	57	27018	0.255 ppbv #	38
34) 2-Butanone	4.82	43	21659	0.154 ppbv #	79
39) 1,2-Dichloropropane	6.71	63	17058	0.211 ppbv #	24
53) Toluene	9.23	91	18862	0.078 ppbv #	47

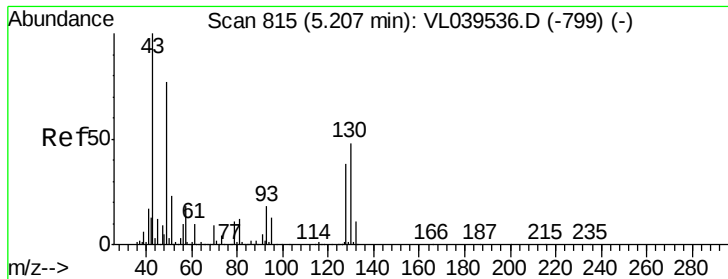
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 26 06:05:16 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.20 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1DL

Acq: 25 Aug 2022 23:43

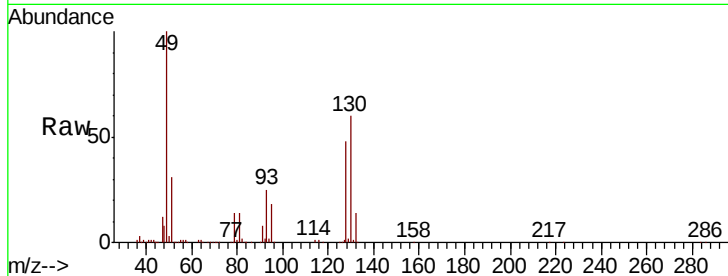
Tot Ion: 49 Resp: 1083401

Ion Ratio Lower Upper

49 100

128 51.0 26.7 80.0

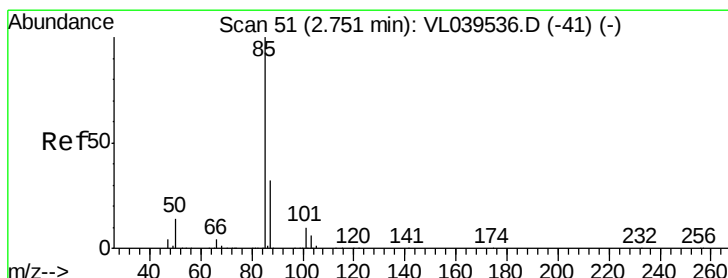
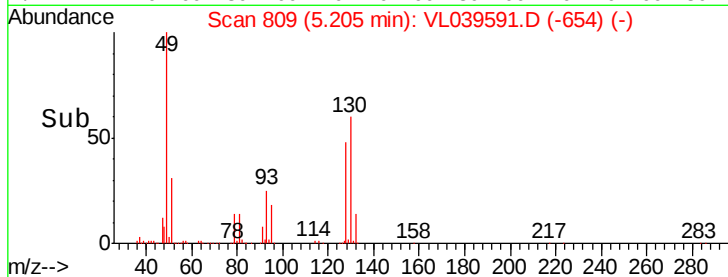
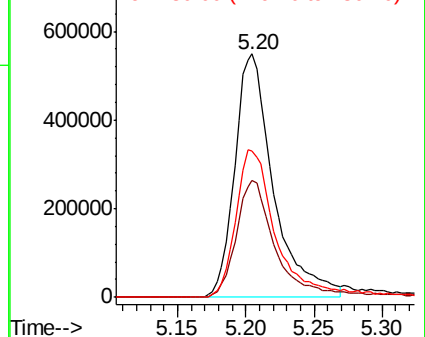
130 64.4 34.3 102.8



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



#2

Dichlorodifluoromethane

Concen: 0.262 ppbv

RT: 2.75 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL039591.D

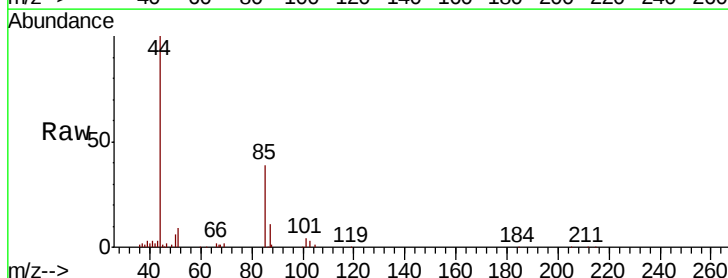
Acq: 25 Aug 2022 23:43

Tgt Ion: 85 Resp: 37768

Ion Ratio Lower Upper

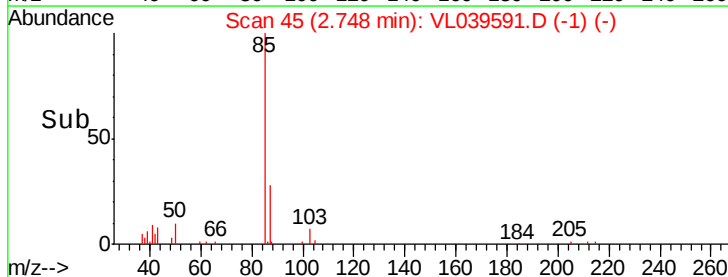
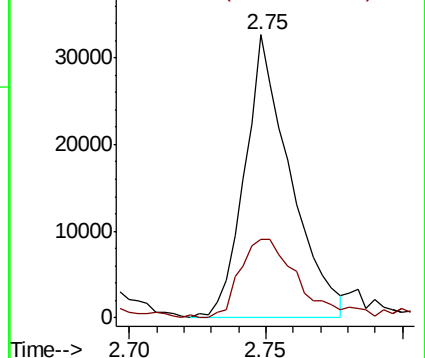
85 100

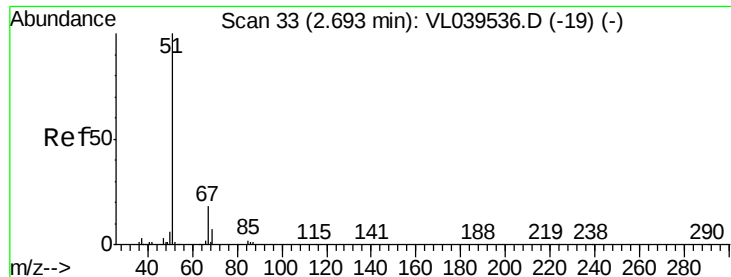
87 26.4 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.694 ppbv

RT: 2.69 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

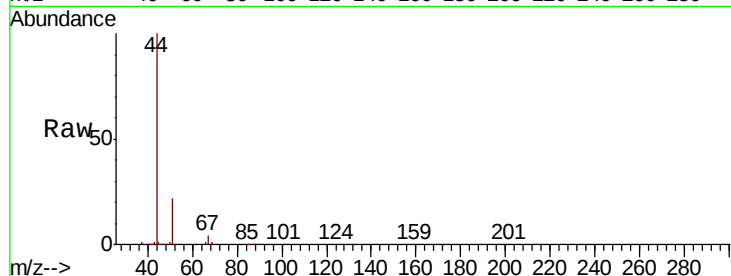
Acq: 25 Aug 2022 23:43 SV1DL

Tot Ion: 51 Resp: 218615

Ion Ratio Lower Upper

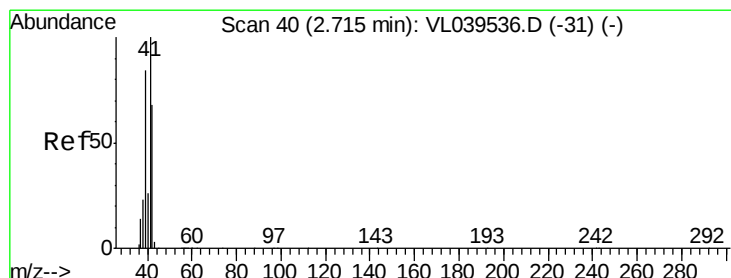
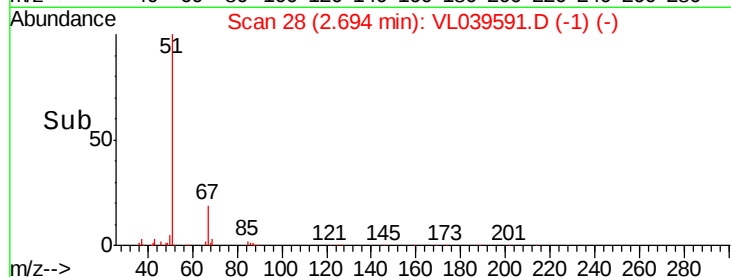
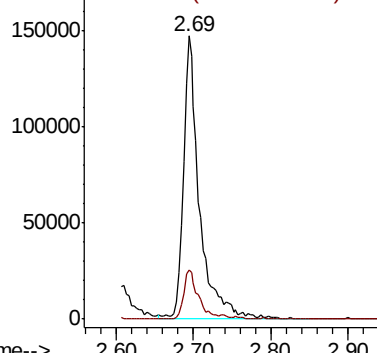
51 100

67 17.1 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.374 ppbv

RT: 2.73 min Scan# 38

Delta R.T. 0.01 min

Lab File: VL039591.D

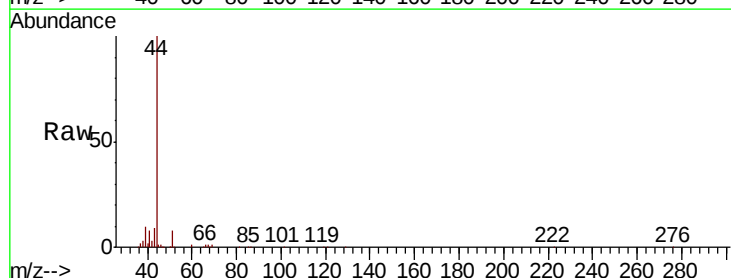
Acq: 25 Aug 2022 23:43

Tgt Ion: 41 Resp: 22117

Ion Ratio Lower Upper

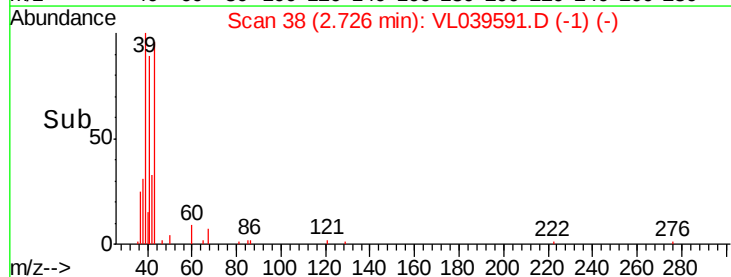
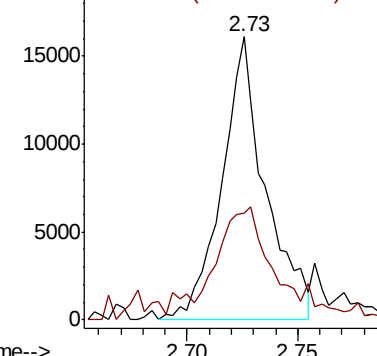
41 100

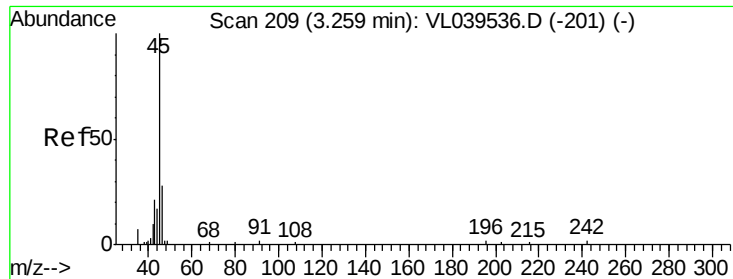
42 66.2 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

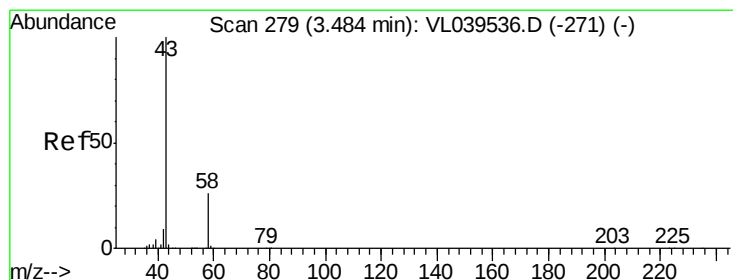
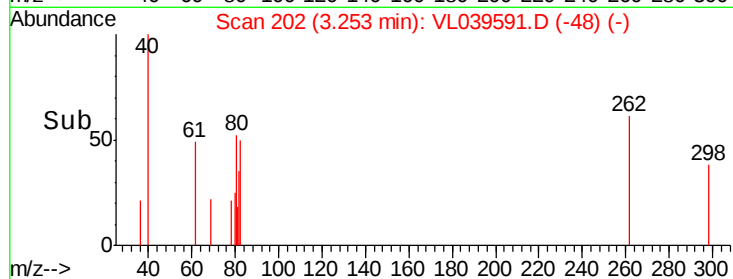
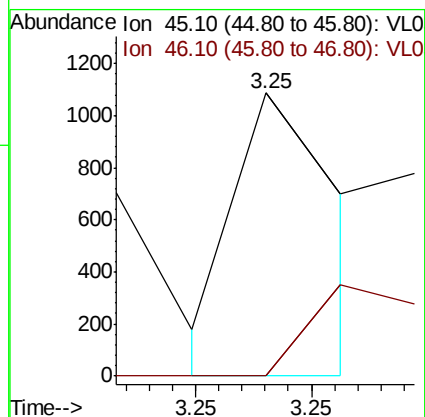
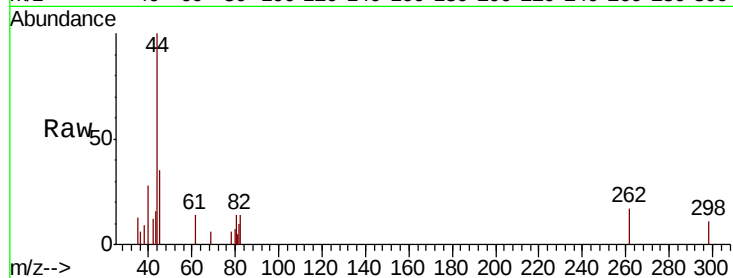
Ion 42.10 (41.80 to 42.80): VL0





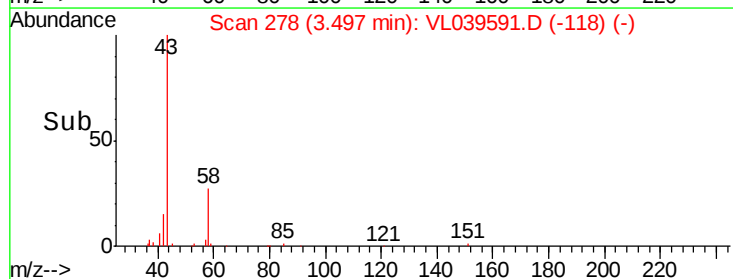
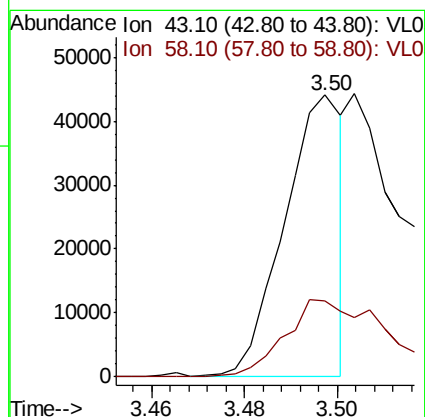
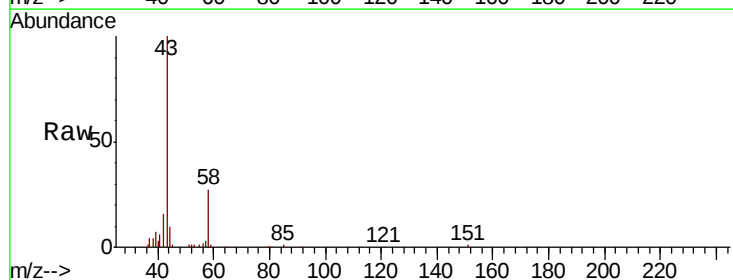
#13
Ethanol
Concen: 0.081 ppbv
RT: 3.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1DL
Acq: 25 Aug 2022 23:43

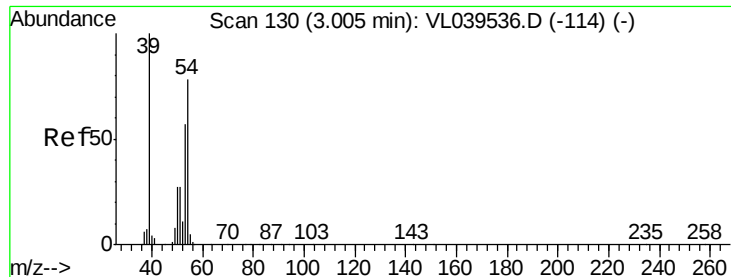
Tot Ion: 45 Resp: 345
Ion Ratio Lower Upper
45 100
46 0.0 22.8 91.2#



#15
Acetone
Concen: 0.318 ppbv
RT: 3.50 min Scan# 278
Delta R.T. 0.01 min
Lab File: VL039591.D
Acq: 25 Aug 2022 23:43

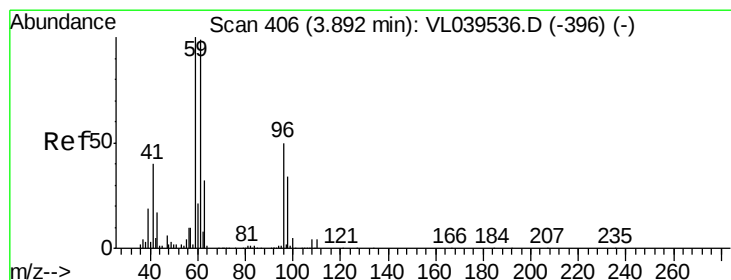
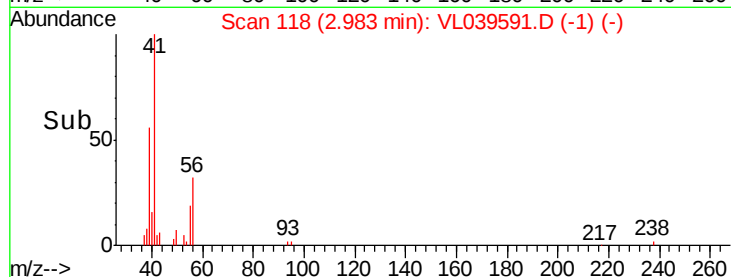
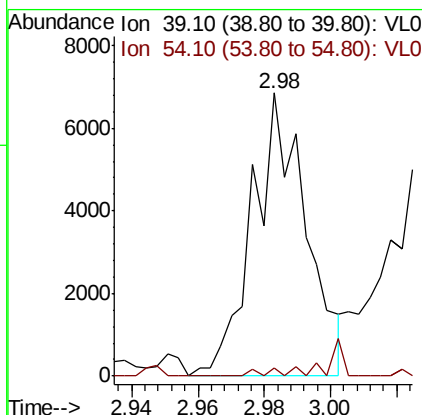
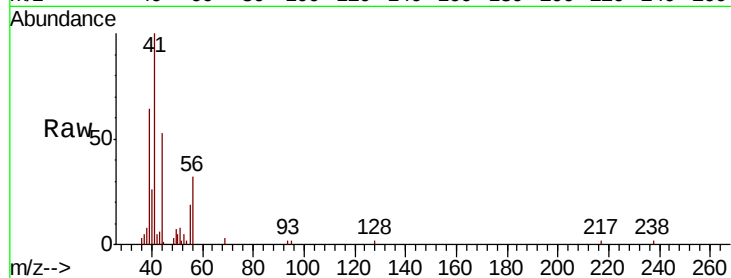
Tgt Ion: 43 Resp: 38563
Ion Ratio Lower Upper
43 100
58 64.2 21.0 31.6#





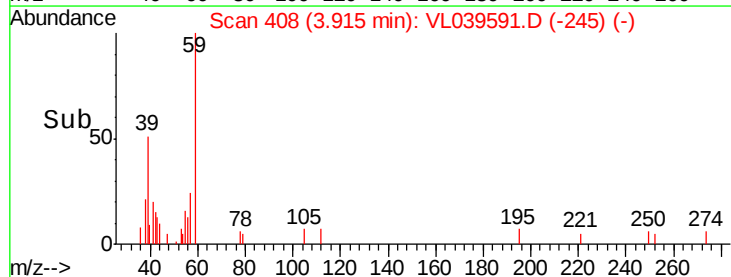
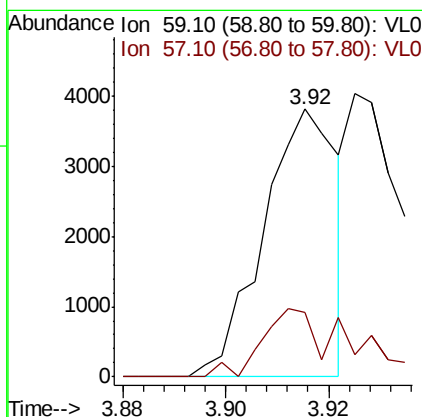
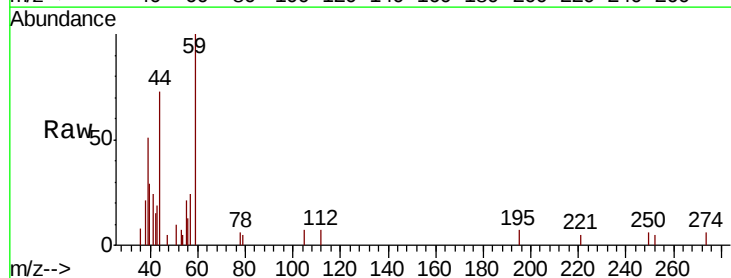
#16
 1,3-Butadiene
 Concen: 0.121 ppbv
 RT: 2.98
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 25 Aug 2022 23:43

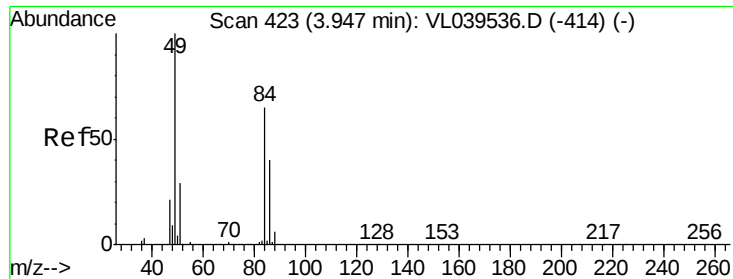
Tot Ion: 39 Resp: 7664
 Ion Ratio Lower Upper
 39 100
 54 5.5 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.036 ppbv
 RT: 3.92 min Scan# 408
 Delta R.T. 0.02 min
 Lab File: VL039591.D
 Acq: 25 Aug 2022 23:43

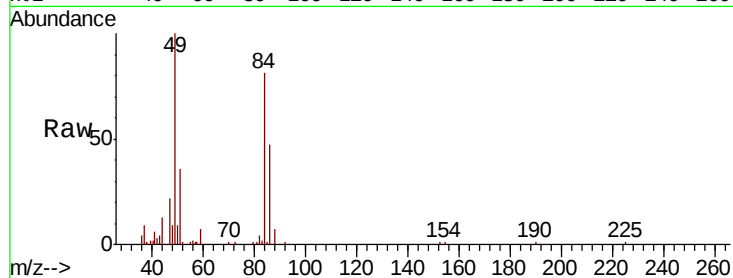
Tgt Ion: 59 Resp: 3763
 Ion Ratio Lower Upper
 59 100
 57 31.6 8.7 13.1#



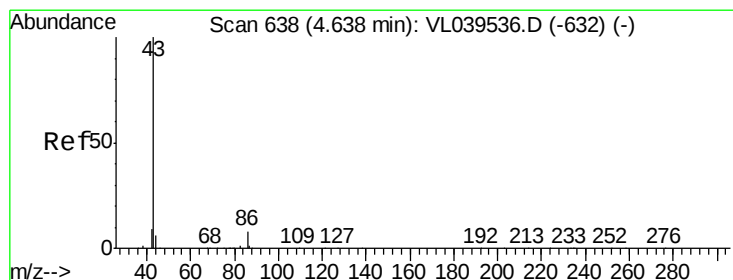
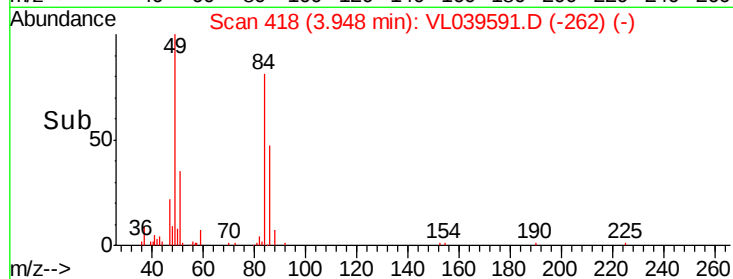
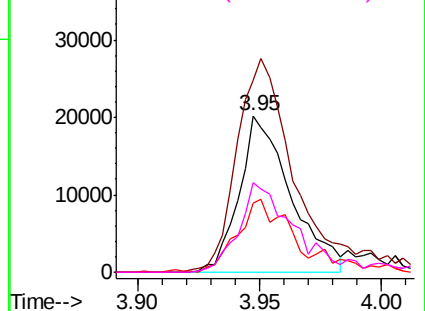


#20
Methvlene Chloride
Concen: 0.601 ppbv
RT: 3.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 25 Aug 2022 23:43

Tot Ion:	84	Resp:	29629
Ion	Ratio	Lower	Upper
84	100		
49	121.1	123.1	184.7#
51	43.2	34.4	51.6
86	57.2	51.1	76.7

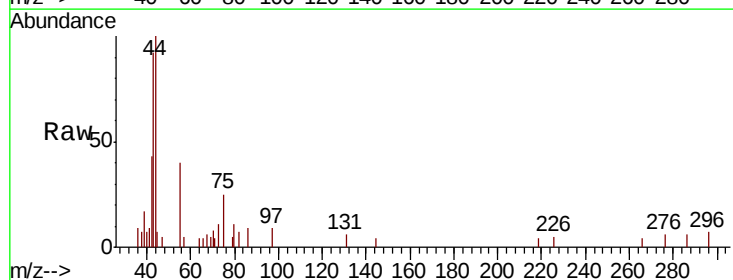


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

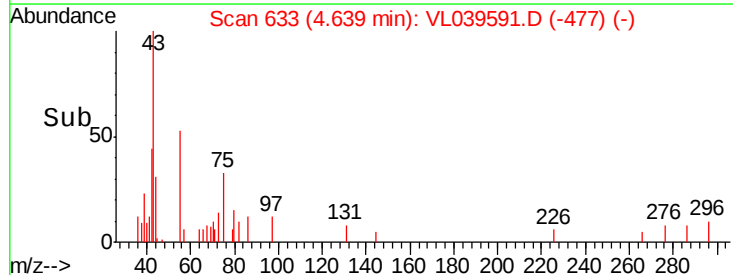
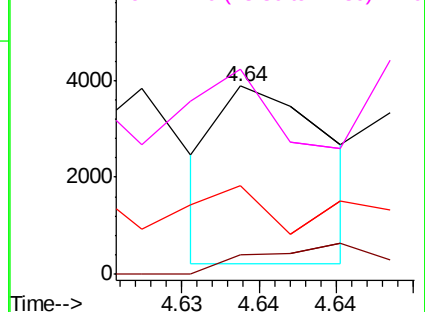


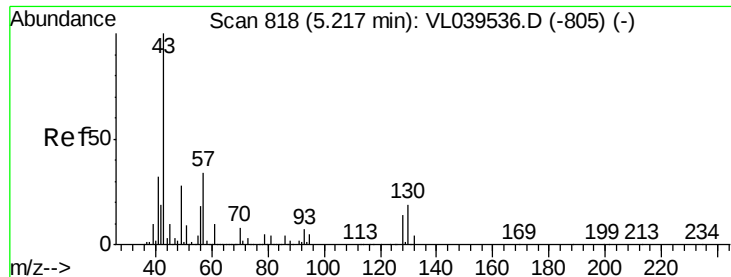
#23
Vinyl Acetate
Concen: 0.031 ppbv
RT: 4.64 min Scan# 633
Delta R.T.: 0.00 min
Lab File: VL039591.D
Acq: 25 Aug 2022 23:43

Tgt Ion:	43	Resp:	1809
Ion	Ratio	Lower	Upper
43	100		
86	27.5	5.0	7.6#
42	23.6	7.7	11.5#
44	115.7	4.6	7.0#



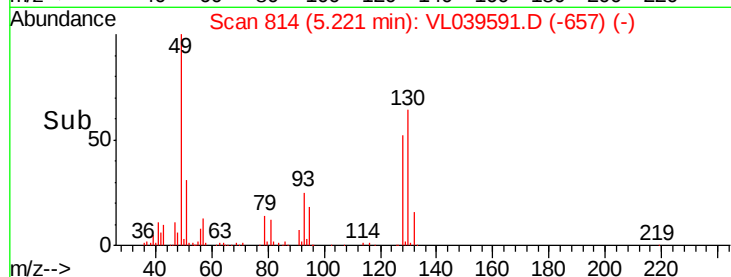
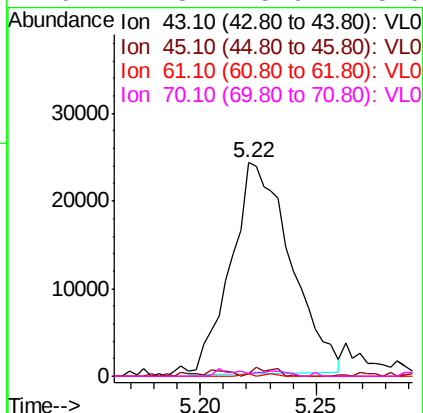
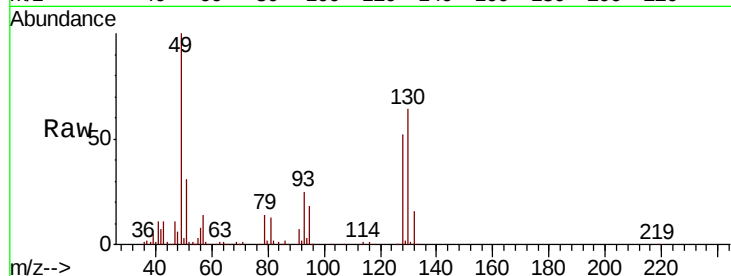
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





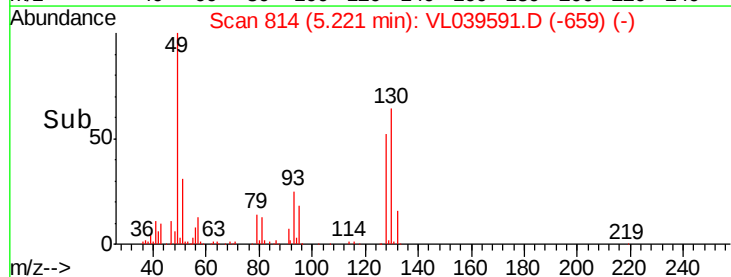
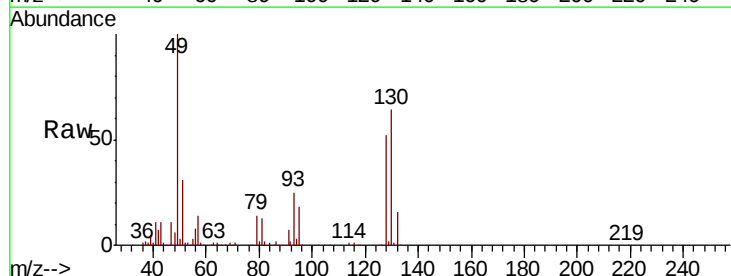
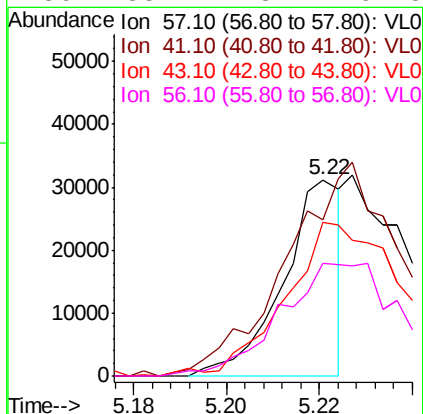
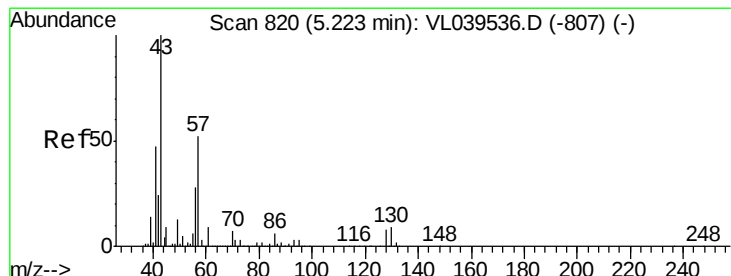
#25
Ethyl Acetate
Concen: 0.167 ppbv
RT: 5.22 min
Delta R.T.: -0.00 min
Lab File: VL039536.D
Acq: 25 Aug 2022 23:43

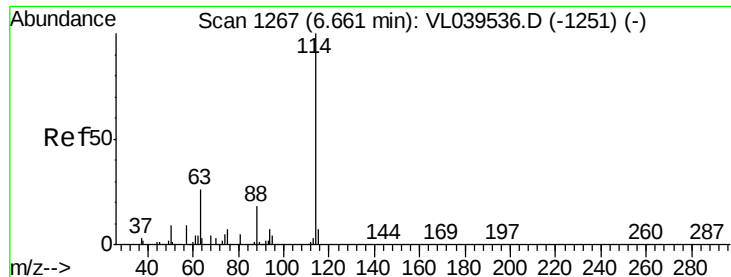
Tot Ion:	43	Resp:	43299
Ion	Ratio	Lower	Upper
43	100		
45	3.4	8.2	12.4#
61	0.5	8.3	12.5#
70	2.8	5.9	8.9#



#26
Hexane
Concen: 0.255 ppbv
RT: 5.22 min Scan# 814
Delta R.T.: -0.00 min
Lab File: VL039591.D
Acq: 25 Aug 2022 23:43

Tgt Ion:	57	Resp:	27018
Ion	Ratio	Lower	Upper
57	100		
41	0.0	76.9	115.3#
43	180.6	191.0	286.6#
56	138.1	43.2	64.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.66 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV1DL

Acq: 25 Aug 2022 23:43

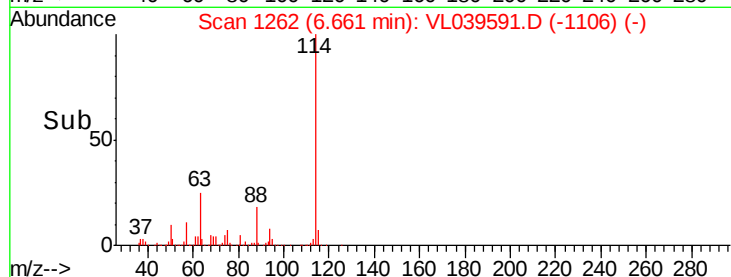
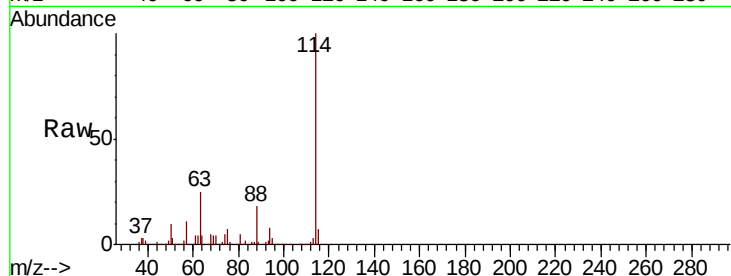
Tot Ion:114 Resp: 2824642

Ion Ratio Lower Upper

114 100

63 25.4 20.2 30.4

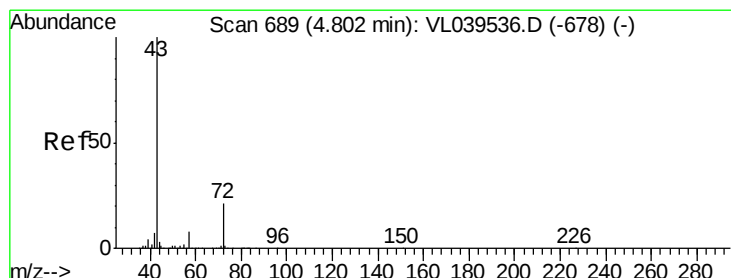
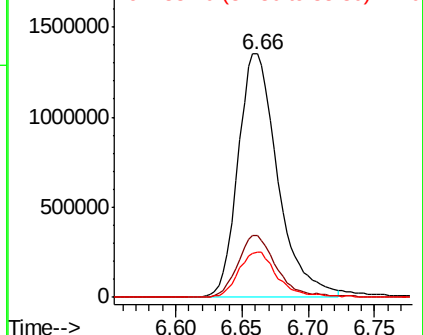
88 18.4 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.154 ppbv

RT: 4.82 min Scan# 689

Delta R.T. 0.02 min

Lab File: VL039591.D

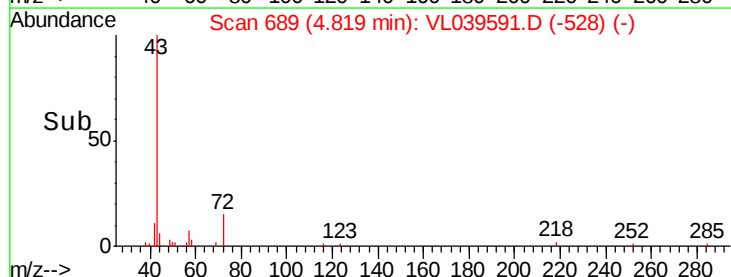
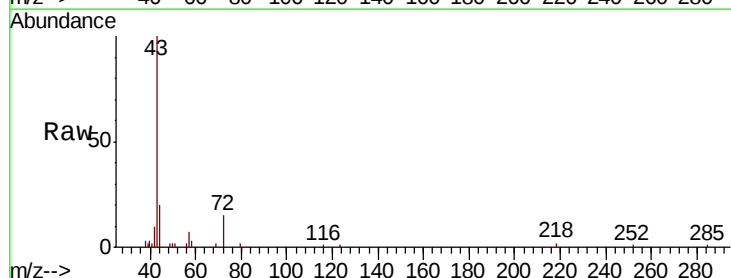
Acq: 25 Aug 2022 23:43

Tgt Ion: 43 Resp: 21659

Ion Ratio Lower Upper

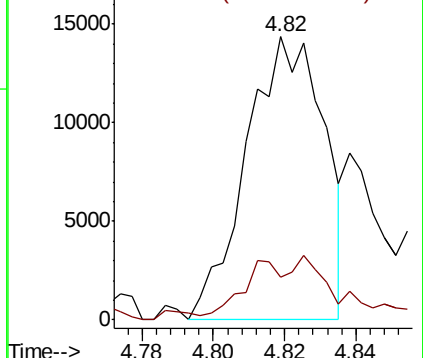
43 100

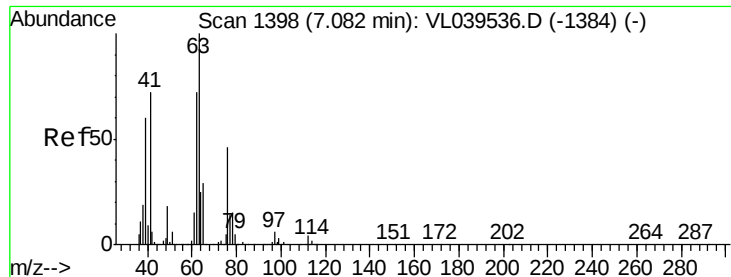
72 32.6 17.9 26.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

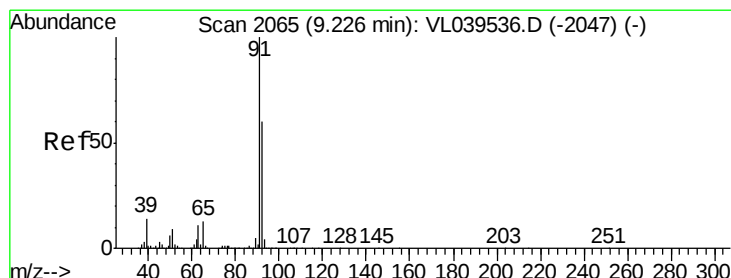
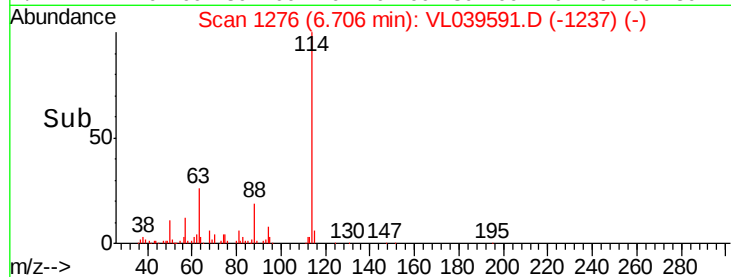
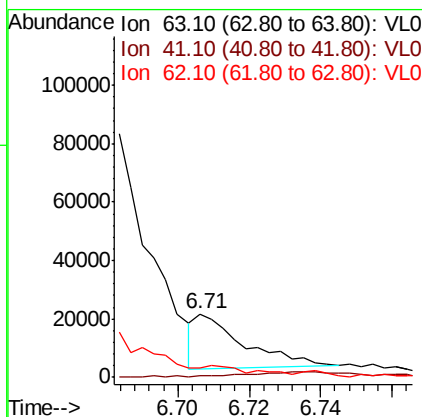
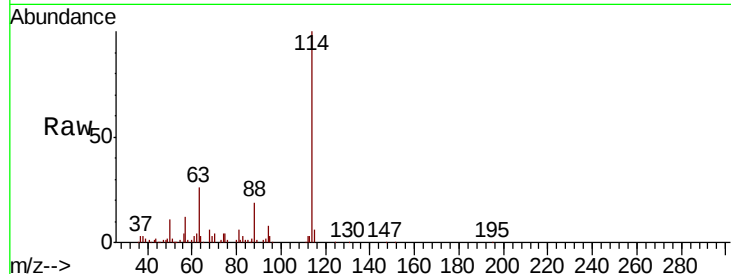
Ion 72.10 (71.80 to 72.80): VL0





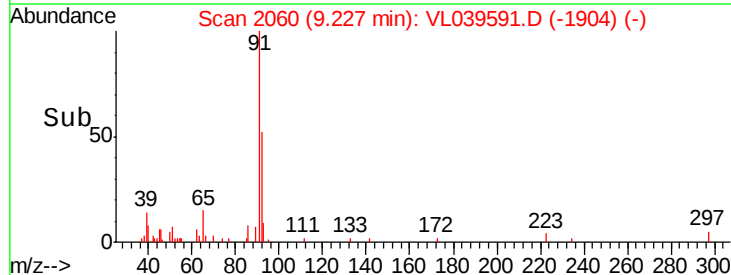
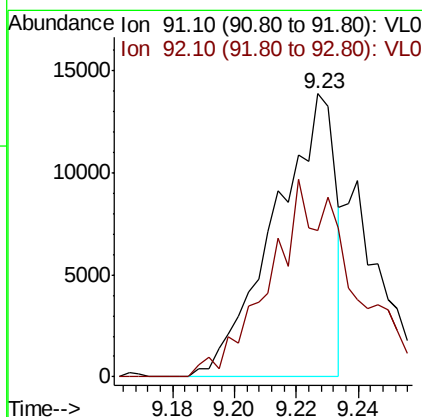
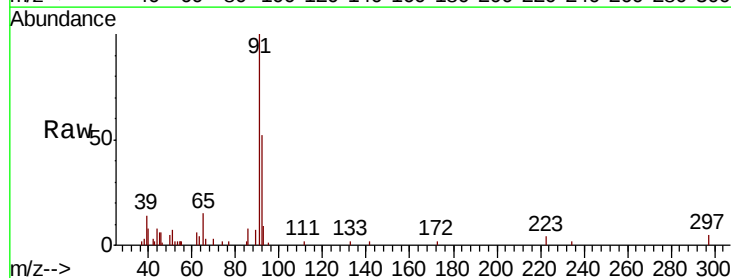
#39
 1,2-Dichloropropane
 Concen: 0.211 ppbv
 RT: 6.71
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1DL
 Acq: 25 Aug 2022 23:43

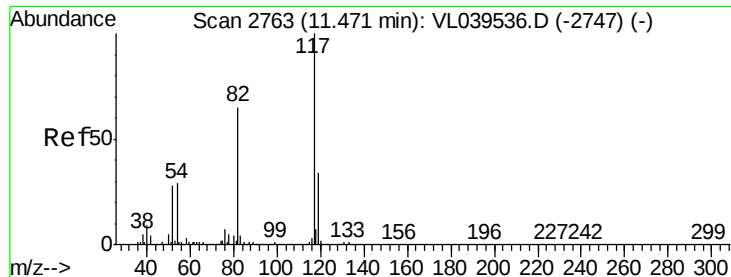
Tot Ion	63	Resp	17058
Ion Ratio	Lower	Upper	
63	100		
41	0.5	59.6	89.4#
62	14.5	51.4	77.0#



#53
 Toluene
 Concen: 0.078 ppbv
 RT: 9.23 min Scan# 2060
 Delta R.T. 0.00 min
 Lab File: VL039591.D
 Acq: 25 Aug 2022 23:43

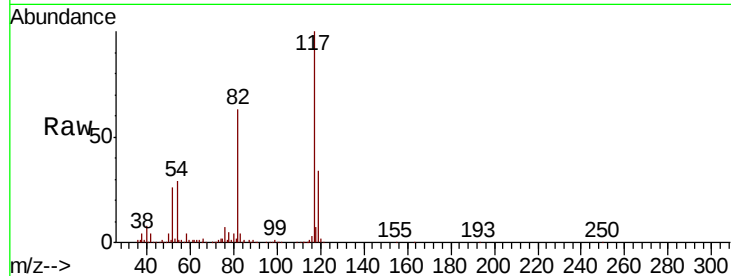
Tgt Ion	91	Resp	18862
Ion Ratio	Lower	Upper	
91	100		
92	100.2	48.2	72.2#



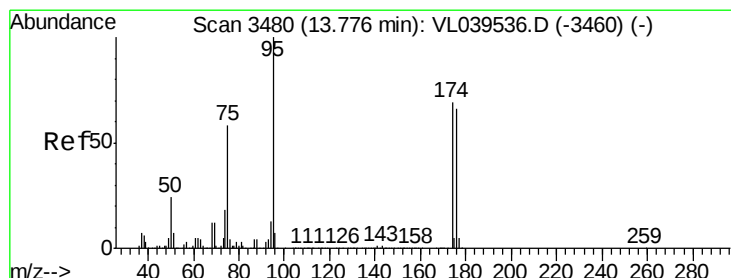
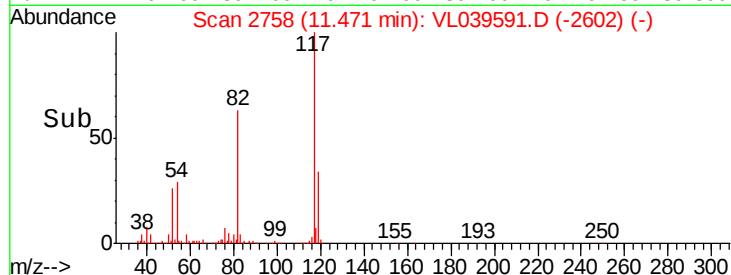
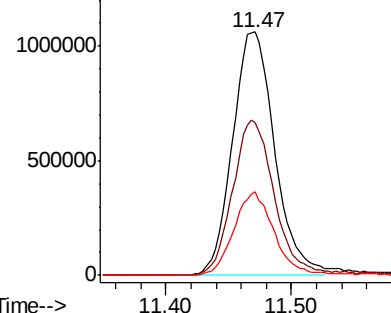


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.47 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1DL
Acq: 25 Aug 2022 23:43

Tot Ion:117 Resp: 2485114
Ion Ratio Lower Upper
117 100
82 65.0 50.8 76.2
119 33.5 24.1 36.1

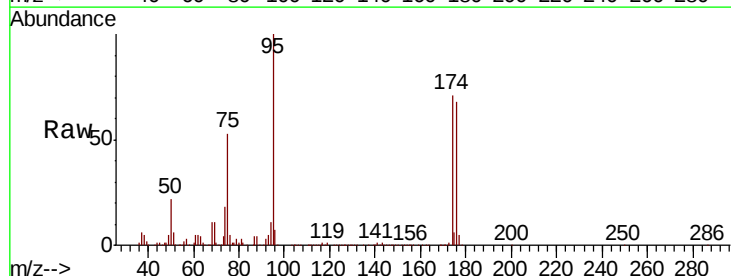


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.790 ppbv
RT: 13.78 min Scan# 3475
Delta R.T.: 0.00 min
Lab File: VL039591.D
Acq: 25 Aug 2022 23:43

Tgt Ion: 95 Resp: 1835396
Ion Ratio Lower Upper
95 100
174 71.0 55.9 83.9
175 5.4 4.2 6.4



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

